Technical Memorandum No. 33-99

Volume 3, Part B

Earth–Venus Trajectories, 1967

V. C. Clarke, Jr.

R. Y. Roth

W. E. Bollman

T. W. Hamilton

C. G. Pfeiffer

C. R. Gates

C. R. Gates, Chief
Systems Analysis Section

JET PROPULSION LABORATORY
CALIFORNIA INSTITUTE OF TECHNOLOGY
PASADENA, CALIFORNIA

July 1, 1963

Copyright © 1963
Jet Propulsion Laboratory
California Institute of Technology

Prepared Under Contract No. NAS 7-100
National Aeronautics & Space Administration

CONTENTS

I. Introduction vii
A. Heliocentric Conic Computation vii
B. Planetocentric Conic Computation vii
C. Differential Corrections vii
D. Mid-Course Guidance vii
E. Orbit Determination viii
F. Accuracy of Computations viii

II. Analytical Model for Interplanetary Trajectories ix
A. Heliocentric Motion ix
B. Launch Planet Escape Hyperbola xi
C. Differential Corrections xiii
D. Mid-Course Execution Accuracy xv
E. Orbit Determination Accuracy xviii

III. Explanation of Trajectory Tables xxi
A. Heliocentric Conic Group xxi
B. Planetocentric Conic Group xxiii
C. Differential Corrections Group xxv
D. Mid-Course Execution Accuracy Group xxvi
E. Orbit Determination Accuracy Group xxvii

IV. Constants xxviii

References xxix

Earth-Venus Trajectories, 1967 xxx

TABLES

1. Trajectory parameters influencing tracking accuracy xix
2. Tracking station parameters influencing tracking accuracy xix

FIGURES

1. Heliocentric transfer geometry x
2. In-plane transfer geometry x
3. Determination of the hyperbolic-excess velocity vector V_{hL} xi
4. Vehicle flight plane xii
5. Impact parameter B xiii
6. The R, S, T target coordinate system xiii
7. The mapping of mid-course execution error xvi
8. Projection of three-dimensional error ellipsoid on the T-R plane . . xviii
9. Orientation of the X_i Cartesian coordinate system to describe uncertainties in the hyperbolic-excess velocity vector V_{hL} xviii
10. Generalized geometry for aiming point angles xxiii
11. Definition of σ_p and γ_p xxiii
12. Ascent trajectory profile xxiv

FOREWORD

This volume is one of a set of five giving key characteristics of Earth-to-Venus trajectories during the period 1964–1970. This period is divided into five 120-day launch intervals spaced about 19.2 months apart. During each interval, trajectory characteristics are given for flight times of from 70 to 220 days in 2-day steps. Thus each volume contains 9,120 trajectories.

The applicability of these books may be extended by noting the 8-year cyclic recurrence of Earth–Venus trajectories. Thus trajectories in 1972 are very nearly identical to 1964 trajectories; 1973 trajectories are very nearly identical to 1965 trajectories, etc. Simply by updating the trajectories by 8 years, the results may be reapplied.

It is intended that these books provide trajectory and guidance analysts with data, in volume, so that they may perform preliminary design studies, conduct investigations of the properties of ballistic interplanetary trajectories, and make interplanetary guidance and orbit determination analyses. While not exact, these trajectories are sufficiently accurate to be quite useful for the above purposes.

In generating such a large amount of data, it is impossible to check the correctness of each number. Should the reader detect any errors, the authors would appreciate being advised.

Companion volumes (Ref. 1) give the characteristics of Earth–Mars trajectories during the period 1964–1977.

I. INTRODUCTION

This report presents the results of extensive machine computations of three-dimensional ballistic interplanetary trajectories. The analytic model used to represent these trajectories is based upon two-body, inverse-square, force field mechanics. A brief explanation of the model is presented in Section II.

Basically, the trajectories are calculated in two distinct parts: (1) the heliocentric transfer ellipse and (2) the launch-planet-centered escape trajectories. Following these trajectories, differential corrections or error coefficients and guidance and tracking parameters are given.

A. Heliocentric Conic Computation

The heliocentric trajectory is obtained by specifying the launch date and flight time only. Given these, the positions of the launch planet on the launch date and the target planet on the arrival date may be obtained by interrogating the ephemerides. By assuming the planets to be massless, a unique heliocentric trajectory may then be computed which passes through the centers of the launch and target planets. Though this assumption may at first seem gross, experience has proved it to be perfectly reasonable for this purpose. After the solution has been obtained by an iterative procedure, the orbital elements, heliocentric position, and velocity vectors at launch and arrival are computed. Other heliocentric quantities of engineering interest are also computed.

B. Planetocentric Conic Computation

After the heliocentric orbit is obtained, the launch and arrival hyperbolic-excess velocity vectors are computed by subtracting the velocity vectors of the launch and target planets from the heliocentric launch and arrival velocity vectors of the probe. The launch hyperbolic-excess vector is, in fact, the most important result of these computations because it yields the energy and direction of fire required to achieve interplanetary transfer.

Further computations are done to exhibit properties of the near-Earth portion of the trajectories. Given the launch hyperbolic-excess vector, a launch site (Cape Canaveral), a launch azimuth, and certain properties of a typical interplanetary boost vehicle, and assuming a 100-nm parking orbit, quantities such as launch time, injection position and velocity vectors, parking orbit coast time, and injection time are computed. In essence, then, approximate trajectories are obtained from the launch pad to the target. The terminal portions of the trajectories are assumed to impact vertically on the target planet.

C. Differential Corrections

To augment the trajectory parameters, differential corrections or error coefficients relating variations in the launch hyperbolic-excess velocity vector to variations in target miss and flight time are computed. Actually, the variables at launch in these coefficients are the square of the hyperbolic-excess speed, or *vis viva* energy C_3, and the declination and right ascension of a unit vector **S**, collinear with the outgoing asymptote of the escape hyperbola. The target variables are the components of the impact parameter **B**, defined below, and the flight time. These coefficients are obtained by a numerical differencing technique developed by William Kizner of JPL.

Based upon these error coefficients, guidance and tracking parameters are calculated as described below.

D. Mid-Course Guidance

Interplanetary guidance is currently being accomplished by determining the orbit of the probe from radio tracking data and then applying one or more impulsive velocity corrections to null the predicted target error. The guidance task closely parallels the trajectory problem, for it is convenient to define the following guidance "phases":

1. Planetocentric phase, in which, after the launch vehicle has placed the probe on its escape hyperbola, the orbital elements of this trajectory are determined and the hyperbolic-excess velocity is corrected to the desired value.
2. Heliocentric phase, in which additional velocity corrections may be made to correct any error in orbit determination and/or maneuver execution in phase 1.
3. Approach phase, in which the probe is in the sphere of influence of the planet and the final vernier corrections may be made to trim the results of phase 2.

The preflight analysis of phase-1 guidance is primarily concerned with the statistical problem of determining how much propellant to carry aboard the spacecraft in

order to correct a "three-sigma" injection guidance error. These studies are well-documented elsewhere (Ref. 2–4) and will not be discussed here. Suffice it to say that correcting the hyperbolic-excess velocity is a reasonably good approximation to nulling the miss components at the planet. Such an analysis need only be concerned with the planetocentric phase of flight.

The analysis of the heliocentric phase is more complicated, since maneuvers there depend upon errors in applying the first midcourse maneuver (phase 1). In order to understand the effect of phase 1 errors, or to specify a tolerance on them, it is convenient to ask how a unit error in hyperbolic-excess velocity maps to miss at the target. This unit velocity error can be thought of as due to uncertainties in phase-1 maneuver execution and orbit determination. Conceptually, this analysis can be accomplished by letting a unit velocity error trace out a sphere at the tip of the hyperbolic-excess velocity vector and observing the semimajor and semiminor axes of the miss ellipse at the target (only two miss components are normally of interest). Mathematically, this is done by simply forming a matrix of the differential corrections, multiplying this matrix by its own transpose, diagonalizing the resulting symmetric matrix, and observing that the two diagonal terms are the desired semimajor and semiminor axes of the unit error ellipse.[1] It is easy to show that if the coordinate system chosen to describe the target error is collinear with these axes, the rows of the resulting differential correction matrix (which are gradient vectors) are orthogonal, and their norms are the magnitudes of the error-ellipse axes.

The approach guidance phase is not conveniently treated with this kind of analysis, and is not discussed further. Here, it can be assumed that the approach maneuvers are always negligibly small.

E. Orbit Determination

A spacecraft boosted toward Mars or Venus by the current generation of launch vehicles requires the accuracy obtainable using Earth-based radio guidance in order to accomplish most planet-oriented experiments. The steps in radio guidance are:

1. Track the transponder signal from the spacecraft from several stations located at a spread of latitudes to determine the orbit of the spacecraft.
2. Calculate the velocity changes required to alter the orbit to pass through the desired region at the target. The maneuver is then applied with a small rocket motor; the pointing direction and burning time (of the velocity increment) are calculated to perfectly correct the orbit if both the estimate of the orbit and the application of the maneuver are without error.
3. Track the spacecraft after the first maneuver for a sufficient interval to form a new estimate of the perturbed orbit.

This process of tracking and maneuvering may be repeated several times to achieve high accuracies at the target. There is, however, a limit to the process imposed by our uncertainties in the actual location of the target planet as well as the unpredictable forces acting on the spacecraft.

For extremely high accuracy at the target planet, on-board measurements must be used in conjunction with the Earth-based tracking in order to further reduce the above-mentioned uncertainties. It is not the function of this report to discuss on-board measurement systems but rather to describe the capabilities of current Earth-based radio guidance techniques when applied to interplanetary trajectories.

An adequate description of the accuracy to which orbits may be determined and maneuvers executed for the case of several corrective maneuvers is beyond the scope of this report. The results presented here may be strictly interpreted as corresponding to the accuracy capabilities for a single mid-course maneuver occurring anywhere between 1 and 14 days after injection. The relative contribution to the target uncertainty caused by orbit determination errors and mid-course execution errors depends directly upon the size of the correction required on a particular flight. For this reason, then, two error sources are considered separately. While our results do correspond to the single maneuver case, they are very valuable in providing a general description of the way in which these errors vary over the selected set of trajectories. Such utilization of the results is discussed later herein.

F. Accuracy of Computations

Extensive accuracy studies were performed to verify the adequacy of these trajectories for preliminary design use. Both Mars and Venus trajectories were computed on the JPL precision-integrating trajectory program using

[1] It should be apparent to readers familiar with statistical concepts that this is equivalent to mapping a three-dimensional gaussian distribution of velocity errors, with unit standard deviation along each axis, to a two-dimensional gaussian distribution of position errors at the target.

initial conditions obtained from the approximate trajectories contained herein. Of 56 Mars cases run, 29 missed the target by less than 500,000 km; 16 missed by between 500,000 and 1,000,000 km; and 5 missed by between 1,000,000 and 1,500,000 km. The worst case missed by 3,500,000 km. For the flight time errors, 16 varied between 1 and 2 days; 14 varied between 2 and 3 days; and 9 were greater than 3 days. The worst case was 7.2 days. No systematic properties of these errors were noted except that they appear to get worse for the higher-energy trajectories.

For Venus, the accuracy was considerably better, averaging 322,000-km miss error and 0.67-day flight time errors. Based on these comparisons, the model used to generate the trajectories contained herein is considered to be adequate and the results suitable for preliminary mission design studies. These results are very useful for initializing the precision trajectory search program.

When used for the stated purposes, these trajectories provide an excellent source of data obtained at considerably less time and expense than precision cases.

II. ANALYTICAL MODEL FOR INTERPLANETARY TRAJECTORIES

The analytical model consists of three distinct phases of two-body motion: (1) an escape hyperbola near the launch planet, (2) elliptical[2] motion under the attraction of the Sun, and (3) terminal hyperbolic motion near the target planet.

A. Heliocentric Motion

Solution of the heliocentric elliptic motion is obtained first under the following assumptions:

1. The launch and target planets move in orbits about the Sun as given in the national ephemerides. Their velocity components are obtained by using two-body conic formulas, mean orbital elements, and their tabular positions as listed in the ephemerides.
2. The launch and target planets are massless. Thus the only force acting on the probe is that of the Sun.
3. The position of the probe at launch into the heliocentric orbit is the center of the massless launch planet. Its position at arrival on the heliocentric orbit is the center of the massless target planet.

[2] Hyperbolic heliocentric motion is not considered herein.

Thus for solution to the heliocentric phase of motion, the attractions of the launch and target planets are temporarily disregarded. The primary result to be obtained from the solution of the heliocentric transfer problem is the hyperbolic-excess velocity vector relative to the launch planet.

1. Determination of Planar Orientation

Since the launch and arrival positions of the probe are assumed to be the centers of the launch and target planets, they can immediately be determined, given the launch and arrival[3] times, by consulting the ephemeris. Further, the orientation of the heliocentric transfer plane can immediately be found. Let $\mathbf{R}_L$ be the Sun–launch planet position vector at launch time T_L, and let $\mathbf{R}_p$ be the Sun–target planet position vector at arrival time T_p (Fig. 1). Then, planar orientation is found from the unit normal $\mathbf{W}$ to the plane as follows:

$$\mathbf{W} = \frac{\mathbf{R}_L \times \mathbf{R}_p}{R_L R_p \sin \Psi} \tag{1}$$

[3] Or, for convenience, the launch date and flight time can be specified.

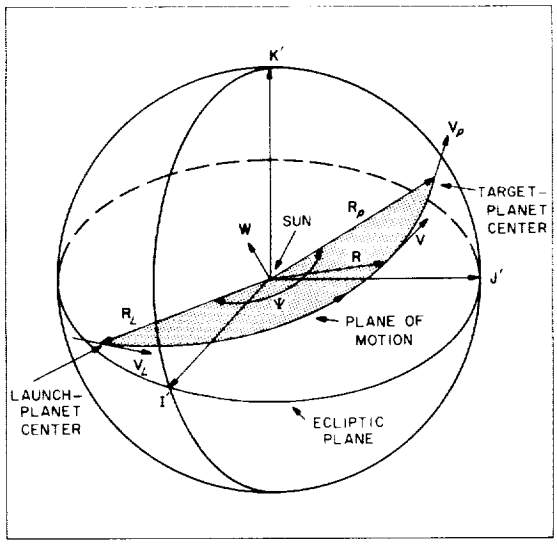

Fig. 1. Heliocentric transfer geometry

where the angle Ψ is defined below. The inclination[4] i to the ecliptic plane can be found by

$$\cos i = \mathbf{W} \cdot \mathbf{K}' \tag{2}$$

where $\mathbf{K}'$ is a unit vector pointing in the direction of the ecliptic north pole.

2. In-Plane Relations

The heliocentric central angle Ψ (Fig. 1) is also readily determined by utilizing the positions of the launch and target planets. This angle may be obtained from

$$\cos \Psi = \frac{\mathbf{R}_L \cdot \mathbf{R}_p}{|\mathbf{R}_L|\,|\mathbf{R}_p|} \tag{3}$$

$$\sin \Psi = \operatorname{sgn}\left[(\mathbf{R}_L \times \mathbf{R}_p) \cdot \mathbf{K}'\right] (1 - \cos^2 \Psi)^{1/2} \tag{4}$$

The velocity vector $\mathbf{V}$ of the spacecraft anywhere along its path may be obtained from

$$\mathbf{V} = \frac{V}{R}\left[(\mathbf{W} \times \mathbf{R}) \cos \Gamma + \mathbf{R} \sin \Gamma\right] \tag{5}$$

Here, $\mathbf{R}$ is the heliocentric position vector, $R = |\mathbf{R}|$, and V is the heliocentric speed obtained from

$$V = \sqrt{(GM_S)\left(\frac{2}{R} - \frac{1}{a}\right)} \tag{6}$$

[4] In this report, we are interested only in transfers which have the same rotational motion about the Sun as the planets; thus, $0 \leq i \leq \pi/2$.

and the path angle Γ is found from

$$\sin \Gamma = \left[\sqrt{\frac{R}{(1 - e^2)(2a - R)}}\right] e \sin v \tag{7}$$

In Eq. (6) and (7), GM_S is the universal gravitational constant times the mass of the Sun ($= 2.959122083 \times 10^{-4}$ au^3/day^2), a and e are the semimajor axis and eccentricity of the transfer ellipse, respectively, and v is the true anomaly of the probe given by

$$\cos v = \frac{a(1 - e^2) - R}{eR} \tag{8}$$

3. Lambert's Theorem

Now there are two unknowns in Eq. (5)–(8) which prevent their immediate evaluation. These two unknowns are the semimajor axis a and the eccentricity e. The determination of these quantities is the main problem. Battin (Ref. 5) has shown that the eccentricity is actually a function of the semimajor axis. Thus it is first necessary to determine a. The semimajor axis is related to the time of flight T_F by Lambert's Theorem, which states: *The transfer time between any two points on an ellipse is a function of the sum of the distances of each point from the focus, the distance between the points, and the semimajor axis of the ellipse.* Functionally, the theorem is stated as

$$T_F = T_F(R_L + R_p, C, a) \tag{9}$$

where the distance C between the launch planet at launch time and the target planet at arrival time is shown in Fig. 2 and is obtained from

$$C = |\mathbf{R}_p - \mathbf{R}_L| \tag{10}$$

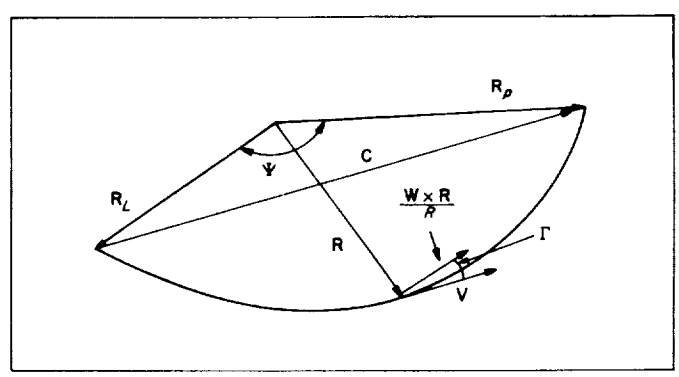

Fig. 2. In-plane transfer geometry

Since the time of flight T_F and the launch and arrival positions R_L and R_p are knowns, only the semimajor axis

remains to be found by iterative solution of Eq. (9). After the semimajor axis a is obtained, the heliocentric velocities of the probe at launch and arrival time $\mathbf{V}_L$ and $\mathbf{V}_p$ may be evaluated from Eq. (5) under the conditions $R = R_L$ and $R = R_p$. The path angles Γ_L, Γ_p and true anomalies[5] v_L, v_p at launch and arrival times may also be evaluated from Eq. (8) and (7) under the same conditions.

Finally, the desired end result, the hyperbolic-excess velocity $\mathbf{V}_{hL}$ relative to the launch planet may be found (Fig. 3) by

$$\mathbf{V}_{hL} = \mathbf{V}_L - \mathbf{V}_1 \tag{11}$$

where $\mathbf{V}_1$ is the velocity of the launch planet at launch time.

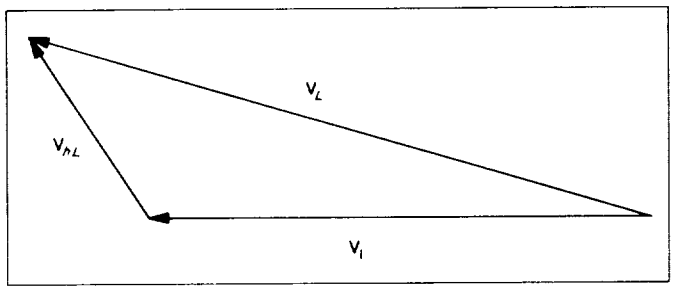

Fig. 3. Determination of the hyperbolic-excess velocity vector $\mathbf{V}_{hL}$

B. Launch Planet Escape Hyperbola

The key result from the solution of heliocentric transfer is the hyperbolic-excess velocity vector $\mathbf{V}_{hL}$ at launch. The reason for the importance of this vector is that it tells the direction in which the probe must be traveling relative to the launch planet when just leaving its gravitational influence. There are an infinite number of escape trajectories (all hyperbolas) which can have the same hyperbolic-excess velocity vector. However, only a portion of these are practical for use when related to existing launch sites and boost vehicle constraints. For example, it would be ridiculously costly in payload—and impractical—to shoot a vehicle straight up. Criteria for selection of a family of feasible escape trajectories are given below.

1. Assumptions

The solution of the escape phase of motion is obtained under the following assumptions: (1) The probe is acted on only by the gravitational force of the launch planet, and (2) the oblateness effects of the launch planet are neglected.

[5]The details of quadrant choice for these angles are found in Ref. 5.

The direction of the asymptote of the escape hyperbola is found by normalizing the hyperbolic-excess vector $\mathbf{V}_{hL}$. The injection energy[6] C_3 of the escape hyperbola is found by squaring the hyperbolic-excess speed, or

$$C_3 = V_{hL}^2 \tag{12}$$

Thus, in contrast to the heliocentric problem, the launch planet is now "massy," while the influence of the Sun is neglected. However, the hyperbolic-excess velocity vectors found by solving the heliocentric problem are used as a starting point to solve the escape problem.

2. Size and Shape of the Escape Hyperbola

As previously stated, only some of the infinite number of escape trajectories are practical. Two of the practical aspects of a set of trajectories are the sizes and shapes of the hyperbolas.

Size is basically determined by the energy C_3, which in turn is a function of boost vehicle capability. For boost vehicles in use (or shortly to be available) at this writing, values of energy less than or equal to 25 km^2/sec^2 are considered reasonable. The larger the value of energy that the booster is required to deliver, the smaller the payload and launch period over which the vehicle may be fired.

The shape of the hyperbola is determined by its eccentricity, which is a function of both the energy and perifocal distance according to

$$e = 1 + \frac{R_p C_3}{GM} \tag{13}$$

where R_p is the perifocal distance and GM is the universal gravitational constant times the mass of the launch planet. From Eq. (13) it can be seen that for a fixed perifocal distance the eccentricity increases linearly with the energy. The value of perifocal distance is not arbitrary, but depends strongly on the boost vehicle trajectory. It has been shown (Ref. 6) that in the great majority of cases it is necessary and desirable to use a circular parking orbit as part of the preinjection phase of the escape trajectory. It is further an interesting fact that the altitude of the parking orbit determines the perifocal distance. If h is the parking orbit altitude and R_0 is the launch planet's radius, then, to an extremely close degree of approximation,

$$R_p = R_0 + h \tag{14}$$

[6]C_3 is actually twice the total energy per unit mass, i.e., the *vis viva* integral.

or the perifocal distance is equal to the launch-planet-centered radius of the parking orbit. In Ref. 6 it also has been shown that the lowest possible parking orbit (80–100 nm) allows greatest payload capability. Thus, using 100 nm for the parking orbit altitude, a practical value of perifocal distance is 6560 km. The perifocal distance will vary only slightly about this value for other parking orbit altitudes, or even for direct-ascent-type preinjection trajectories. Therefore, *both* the size and shape are essentially determined by the energy alone, which is found from Eq. (12).

Given the size and shape of the escape hyperbola, its planar orientation must be determined, and this can be done by considering two vectors: (1) the direction of the hyperbolic-excess vector, denoted by a unit vector **S**, and (2) a unit vector $\mathbf{R}_L^1$ directed from the center of the launch planet to the launch site. The vehicle's flight plane will essentially be determined by these two vectors, as shown in Fig. 4. A unit normal **W** to the launch-planet-centered flight plane is determined by

$$\mathbf{W} = \frac{\mathbf{R}_L^1 \times \mathbf{S}}{|\mathbf{R}_L^1 \times \mathbf{S}|} \tag{15}$$

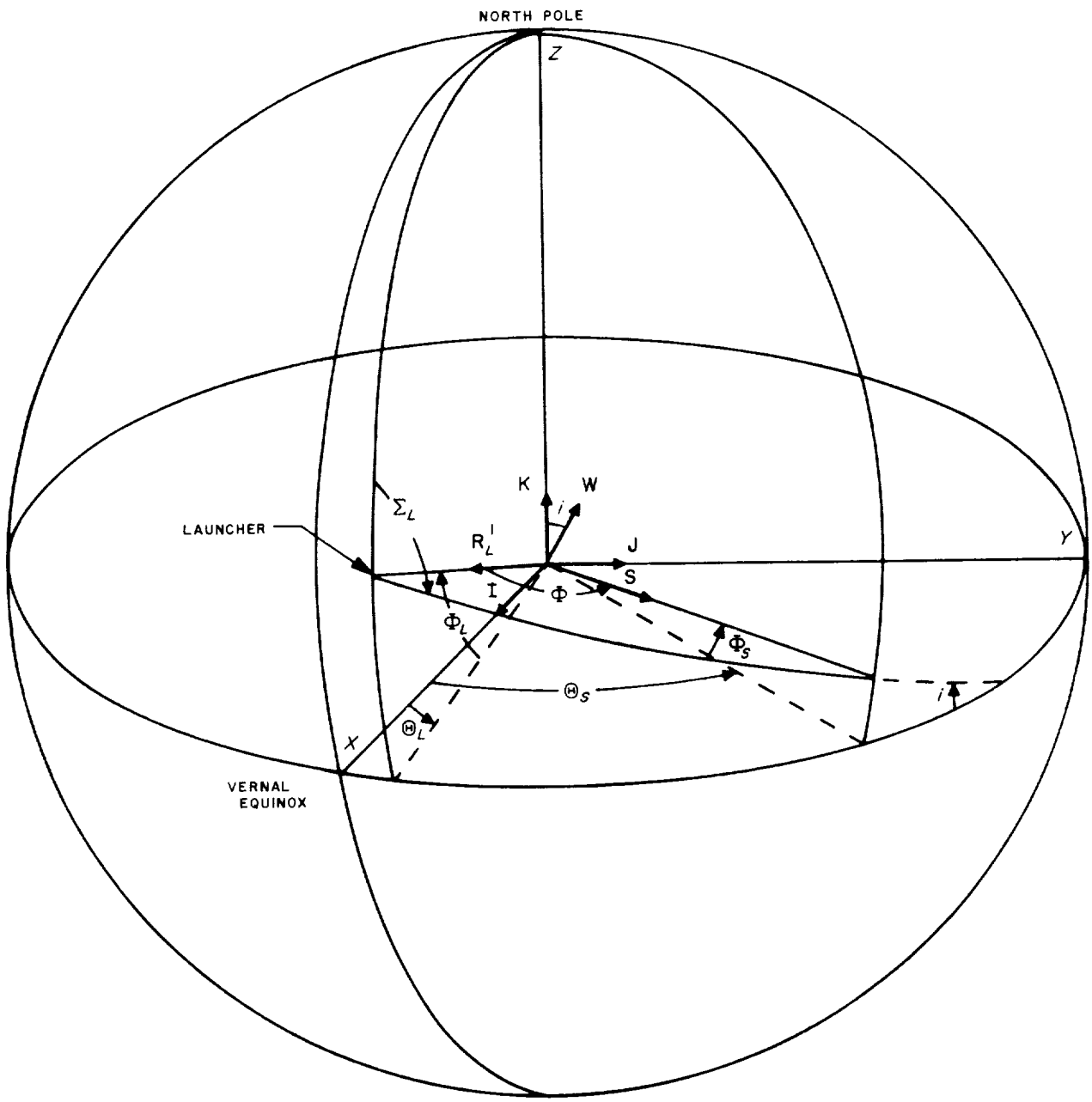

Fig. 4. Vehicle flight plane

with the constraint that the Z component of **W** is always positive.

Since $\mathbf{R}_L^1$ is a function of time, according to the rotation rate of the launch planet, the planar orientation must continually change. In effect, this says that the launch azimuth is a continuous function of launch time.

A detailed description of the geometrical aspects of the launch planet ascent trajectory is not given here but may be found in Ref. 6.

C. Differential Corrections

The calculation of differential corrections for interplanetary trajectories may be accomplished in several ways and depends on choice of independent and dependent variables. In this report, a numerical differencing scheme is used. Basically, the independent variables—the injection energy C_3, declination Φ_S, and right ascension Θ_S of the outgoing asymptote **S** of the escape hyperbola—are varied, one at a time, to produce variations in the dependent variables—the components of the impact parameter **B** and the time-of-flight T_F.

The impact parameter **B** is defined as a vector originating at the center of the target planet and directed perpendicular to the incoming asymptote of the target-centered approach hyperbola (Fig. 5). The impact parameter **B** is resolved into two components which lie in a plane normal to the incoming asymptote **S**. The orientations of the reference axes in this plane are arbitrary, but one is usually selected to lie in a fixed plane. Thus, define a unit vector **T**, lying in the *ecliptic* plane according to

$$\mathbf{T} = \frac{\mathbf{S} \times \mathbf{K}'}{|\mathbf{S} \times \mathbf{K}'|} \tag{16}$$

where **K′** is a unit normal vector to the ecliptic plane. The remaining axis is then given by a unit vector **R**, defined by

$$\mathbf{R} = \mathbf{S} \times \mathbf{T} \tag{17}$$

Figure 6 illustrates the orientation of the **R**, **S**, **T** target coordinates.

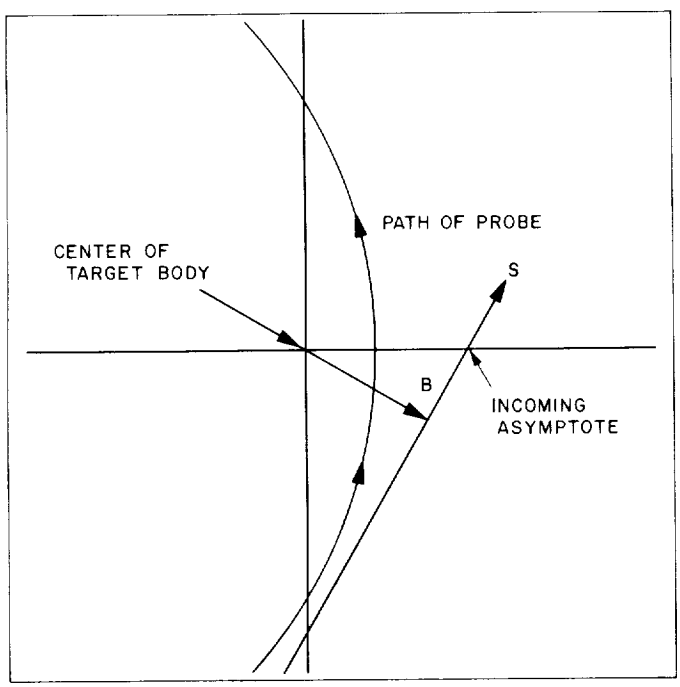

Fig. 5. Impact parameter B

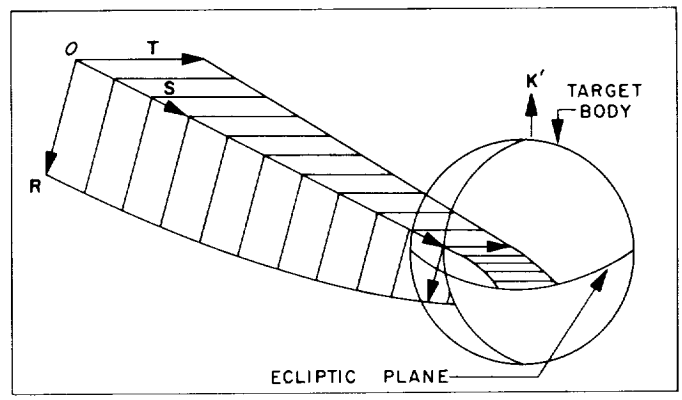

Fig. 6. The R, S, T target coordinate system

The impact parameter **B** lies in the **R**–**T** plane and has miss components $\mathbf{B}\cdot\mathbf{T}$ and $\mathbf{B}\cdot\mathbf{R}$. $\mathbf{B}\cdot\mathbf{T} = \mathbf{B}\cdot\mathbf{R} = 0$ denotes vertical impact on the target. Thus, $\mathbf{B}\cdot\mathbf{T}$, $\mathbf{B}\cdot\mathbf{R}$, and T_F are the three target-dependent variables. If Q_i represents a set of generalized independent variables, such as injection position and velocity or other convenient variables, then the partial derivatives $\partial\mathbf{B}\cdot\mathbf{T}/\partial Q_i$, $\partial\mathbf{B}\cdot\mathbf{R}/\partial Q_i$, $\partial T_F/\partial Q_i$ are first-order differential corrections or error coefficients relating miss at the target and flight time errors to the independent variables.

A convenient set of independent variables for interplanetary trajectories is the *vis viva* injection energy C_3, the declination Φ_S, and the right ascension Θ_S of the asymptote of the escape hyperbola. These variables essentially describe the launch hyperbolic-excess velocity vector since

$$\mathbf{V}_{hL} = (C_3)^{1/2}(\cos\Phi_S\cos\Theta_S,\ \cos\Phi_S\sin\Theta_S,\ \sin\Phi_S) \tag{18}$$

As stated above, the differential corrections are calculated by a numerical differencing method which uses

quantities obtained from the conic trajectory. The basic idea is to compute a varied or perturbed trajectory and then difference it with the reference case. Let primed quantities denote variables on the perturbed trajectory. A small variation $\Delta \mathbf{V}_{hL}$ in the hyperbolic-excess velocity vector is equivalent to a small variation $\Delta \mathbf{V}_L$ in the launch heliocentric velocity vector. The launch heliocentric velocity on the perturbed trajectory is, then,

$$\mathbf{V}'_L = \mathbf{V}_L + \Delta \mathbf{V}_{hL} \tag{19}$$

where

$$\Delta \mathbf{V}_{hL} = (C_3)^{1/2}\, \Delta\Phi_S\, [-\sin\Phi_S \cos\Theta_S, -\sin\Phi_S \sin\Theta_S, \cos\Phi_S]\ ,$$
$$(C_3)^{1/2}\, \Delta\Theta_S\, [-\cos\Phi_S \sin\Theta_S, \cos\Phi_S \cos\Theta_S, 0],$$
$$\frac{-\Delta C_3}{2\,(C_3)^{1/2}}\, [\cos\Phi_S \cos\Theta_S, \cos\Phi_S \sin\Theta_S, \sin\Phi_S]$$

where $\Delta\Phi_S$, $\Delta\Theta_S$ are small angular variations (0.2 deg), and the energy variation is $\Delta C_3 = 0.005\, C_3$.

The semimajor axis a' is obtained from

$$a' = \frac{R_L}{2 - \dfrac{V'^2_L R_L}{GM_S}} \tag{20}$$

The radial rate $\dot{R}_L'$ is

$$\dot{R}'_L = \frac{\mathbf{V}'_L \cdot \mathbf{R}_L}{R_L} \tag{21}$$

The semilatus rectum p' and eccentricity e' are

$$p' = \frac{R_L^2\,(V'^2_L - \dot{R}'^2_L)}{GM_S} \tag{22}$$

$$e' = \left(1 - \frac{p'}{a'}\right)^{1/2} \tag{23}$$

The eccentric anomaly at launch E'_L is

$$\sin E'_L = \frac{R_L\, \dot{R}'_L}{e'\,(a'GM_S)^{1/2}}$$
$$\cos E'_L = \frac{1}{e'}\left(1 - \frac{R_L}{a'}\right) \tag{24}$$

The mean anomaly at launch M'_L is obtained from

$$M'_L = E'_L - e' \sin E'_L \tag{25}$$

The mean orbital rate n' is

$$n' = \frac{(GM_S)^{1/2}}{a'^{3/2}} \tag{26}$$

The mean anomaly at the target M'_p is

$$M'_p = n'\, T_F + M'_L \tag{27}$$

The eccentric anomaly at the target E'_p is obtained from the expansion

$$E'_p = E_p + \left(\frac{1}{1 - e' \cos E_p}\right) \Delta M - \frac{1}{2}\left[\frac{e' \sin E_p}{(1 - e' \cos E_p)^3}\right] \Delta M^2$$
$$+ \frac{1}{6}\left[\frac{3\, e' \sin E_p)^2 - (1 - e' \cos E_p)\,(e' \cos E_p)}{(1 - e' \cos E_p)^5}\right] \Delta M^3 \tag{28}$$

if

$$\cos E_p \geqq 0$$

or

$$E'_p = E_p + \frac{e \cos E_p - 1 + \sqrt{(e \cos E_p - 1)^2 + (2e \sin E_p)\, \Delta M}}{e \sin E_p} \tag{29}$$

if

$$\cos E_p < 0$$

where

$$\Delta M = M'_p - (E_p - e' \sin E_p)$$

The true anomalies at launch and the target v'_L and v'_p are found from

$$\cos v'_L = \frac{p' - R_L}{e'\, R_L} \tag{30}$$

$$0 < v'_L < \pi \quad \text{if } \dot{R}'_L \text{ is positive}$$

$$\pi < v'_L < 2\pi \quad \text{if } \dot{R}'_L \text{ is negative}$$

$$\cos v'_p = \frac{\cos E'_p - e'}{1 - e' \cos E'_p}$$
$$\sin v'_p = \frac{(1 - e'^2)^{1/2} \sin E'_p}{1 - e' \cos E'_p} \tag{31}$$

The heliocentric central angle Ψ' is

$$\Psi' = v'_p - v'_L \tag{32}$$

The angular momentum $\mathbf{h}'$ is

$$\mathbf{h}' = \mathbf{R}_L \times \mathbf{V}'_L \tag{33}$$

The heliocentric position vector at the target is

$$\mathbf{R}'_p = R'_p\left(\frac{\mathbf{R}_L}{R_L}\cos\Psi' + \frac{\mathbf{h}'\times\mathbf{R}_L}{h'R_L}\sin\Psi'\right) \tag{34}$$

where

$$R'_p = a'(1 - e'\cos E'_p) \tag{35}$$

A vector in the direction of perihelion with magnitude e' is

$$\boldsymbol{\varepsilon}' = \frac{\mathbf{V}'_L\times\mathbf{h}'}{GM_S} - \frac{\mathbf{R}_L}{R_L} \tag{36}$$

The heliocentric velocity at the target is

$$\mathbf{V}'_p = \frac{\mathbf{h}'}{p'}\times\left(\frac{\mathbf{R}'_p}{R_p} + \boldsymbol{\varepsilon}'\right) \tag{37}$$

The hyperbolic-excess velocity at the target is

$$\mathbf{V}'_{hp} = \mathbf{V}'_p - \mathbf{V}_2 \tag{38}$$

The difference between the heliocentric position vectors on the perturbed and reference trajectories is

$$\Delta\mathbf{R}'_p = \mathbf{R}'_p - \mathbf{R}_p \tag{39}$$

The impact parameter **B** is

$$\mathbf{B} = -\frac{(\Delta\mathbf{R}'_p\cdot\mathbf{V}'_{hp})\,\mathbf{V}'_{hp}}{V'^2_{hp}} + \Delta\mathbf{R}'_p$$

The flight time error is

$$\Delta T_F = \frac{\Delta\mathbf{R}'_p\cdot\mathbf{V}'_{hp}}{V'^2_{hp}} \tag{40}$$

The partial derivatives are formed by dividing $\Delta\Theta_S$, $\Delta\Phi_S$, and ΔC_3 into the miss components $\mathbf{B}\cdot\mathbf{T}$, $\mathbf{B}\cdot\mathbf{R}$, and flight time error ΔT_F. In addition to the component partials, the quantity $\partial B/\partial Q_i$ is defined by

$$\frac{\partial B}{\partial Q_i} = \left[\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial Q_i}\right)^2 + \left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial Q_i}\right)^2\right]^{1/2} \tag{41}$$

The three partials, $\partial B/\partial\Theta_S$, $\partial B/\partial\Phi_S$, $\partial B/\partial C_3$, are important measures of the error sensitivity of a trajectory.

The effect of uncertainty in the knowledge of the astronomical unit-to-kilometer conversion factor on target miss and flight time may be determined by the following formulae,

$$\begin{aligned}\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial au} &= \frac{-2C_3}{au}\,\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial C_3}\\ \frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial au} &= \frac{-2C_3}{au}\,\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial C_3}\end{aligned} \tag{42}$$

from whence

$$\frac{\partial B}{\partial au} = \frac{2C_3}{au}\,\frac{\partial B}{\partial C_3} \tag{43}$$

and

$$\frac{\partial T_F}{\partial au} = \frac{-2C_3}{au}\,\frac{\partial T_F}{\partial C_3} \tag{44}$$

where au is the astronomical unit-to-kilometer conversion factor.

The effect of solar radiation pressure acting on the probe may also be evaluated as follows: In Eq. (19) let $\Delta\mathbf{V}_{hL} = 0$, but in Eq. (20), (22), (24), (26), (36), vary GM_S by adding an increment ΔGM_S. This procedure gives rise to a varied trajectory from which the impact parameter **B** and flight time error ΔT_F may be obtained. The partials $\partial B/\partial GM_S$ and $\partial T_F/\partial GM_S$ may then be calculated. Since the acceleration caused by solar radiation pressure acts opposite to the gravitational attraction of the Sun, radiation pressure has the effect of decreasing the Sun's gravitational attraction, or decreasing GM_S. A decrease, $\Delta GM_S = -2.4\times10^6$ km^3/sec^2 corresponds to the solar radiation pressure acting on a 300-kg spacecraft having a perfectly reflecting area of 3.6 square meters. Thus the miss, always being a positive number, is obtained by $\Delta B_{sp} = 2.4\times10^6\,\partial B/\partial GM_S$, and the corresponding flight time error is $\Delta T_{F_{sp}} = -2.4\times10^6\,\partial T_F/\partial GM_S$, which is sign sensitive.

D. Mid-Course Execution Accuracy

The effect of mid-course execution errors on target accuracy can be rather simply described if it is assumed that the guidance maneuver is made on the asymptote of the escape hyperbola and that the velocity errors are spherically distributed (that is, the three-dimensional statistical distribution of velocity errors is composed of three orthogonal, independent velocity errors, each with the same variance). The mapping of these errors to the target (Fig. 7) results in a three-dimensional ellipsoid of position errors, which is the "one-sigma ellipsoid." The semiaxes are the respective standard deviations of the position errors. As pointed out above, this ellipsoid can be thought of as the locus of target errors that results from a unit velocity error at the mid-course point tracing out a sphere.

Let the differential corrections discussed above be expressed in matrix form as

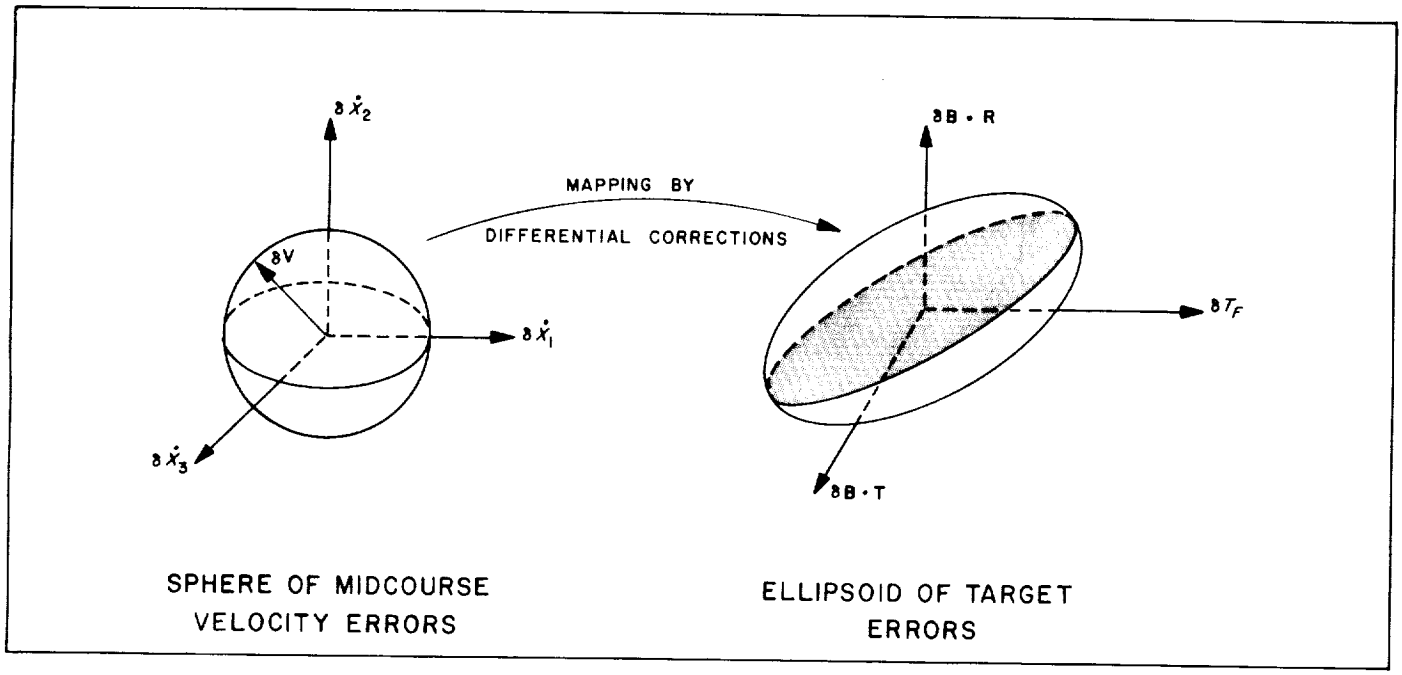

Fig. 7. The mapping of mid-course execution error

$$K = \begin{bmatrix} \dfrac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \Phi_S} & \dfrac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \Theta_S} & \dfrac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial C_3} \\ \dfrac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \Phi_S} & \dfrac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \Theta_S} & \dfrac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial C_3} \\ \dfrac{\partial T_F}{\partial \Phi_S} & \dfrac{\partial T_F}{\partial \Theta_S} & \dfrac{\partial T_F}{\partial C_3} \end{bmatrix} \tag{45}$$

Now define a Cartesian coordinate system X_1, X_2, X_3 such that

$$\left.\begin{aligned} \delta\dot{X}_1 &= V_{hL}\delta\Phi_S \\ \delta\dot{X}_2 &= -\,(V_{hL}\cos\Phi_S)\,\delta\Theta_S \\ \delta\dot{X}_3 &= \delta V_{hL} = \frac{\delta C_3}{2V_{hL}} \end{aligned}\right\} \tag{46}$$

Then a new matrix F can be formed,

$$F = \begin{bmatrix} \dfrac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \dot{X}_1} & \dfrac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \dot{X}_2} & \dfrac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \dot{X}_3} \\ \dfrac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \dot{X}_1} & \dfrac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \dot{X}_2} & \dfrac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \dot{X}_3} \\ \dfrac{\partial T_F}{\partial \dot{X}_1} & \dfrac{\partial T_F}{\partial \dot{X}_2} & \dfrac{\partial T_F}{\partial \dot{X}_3} \end{bmatrix} \tag{47}$$

where

$$\left.\begin{aligned} \frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \dot{X}_1} &= \frac{1}{V_{hL}}\frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \Phi_S} \\ \frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \dot{X}_2} &= \frac{-1}{V_{hL}\cos\Phi_S}\frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \Theta_S} \\ \frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \dot{X}_3} &= 2V_{hL}\frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial C_3} \\ \frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \dot{X}_1} &= \frac{1}{V_{hL}}\frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \Phi_S} \\ \frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \dot{X}_2} &= \frac{-1}{V_{hL}\cos\Phi_S}\frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \Theta_S} \\ \frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \dot{X}_3} &= 2V_{hL}\frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial C_3} \\ \frac{\partial T_F}{\partial \dot{X}_1} &= \frac{1}{V_{hL}}\frac{\partial T_F}{\partial \Phi_S} \\ \frac{\partial T_F}{\partial \dot{X}_2} &= \frac{-1}{V_{hL}\cos\Phi_S}\frac{\partial T_F}{\partial \Theta_S} \\ \frac{\partial T_F}{\partial \dot{X}_3} &= 2V_{hL}\frac{\partial T_F}{\partial C_3} \end{aligned}\right\} \tag{48}$$

Let the spherical distribution of midcourse velocity errors be described in the X_1, X_2, X_3 system as

$$\delta\dot{X}_1^2 + \delta\dot{X}_2^2 + \delta\dot{X}_3^2 = \sigma_v^2 \tag{49}$$

where σ_v will be taken equal to 0.1 meters/sec. The resultant one-sigma ellipsoid of target errors is described by the quadratic form,

$$\delta\mathbf{M}\,\Lambda^{-1}\,\delta\mathbf{M}^T = 1 \tag{50}$$

where

$$\Lambda = \sigma_v^2 FF^T = \begin{bmatrix} \lambda_{11} & \lambda_{12} & \lambda_{13} \\ & \lambda_{22} & \lambda_{23} \\ \text{symmetric} & & \lambda_{33} \end{bmatrix} \tag{51}$$

and

$$\delta\mathbf{M} = (\delta\mathbf{B}\cdot\mathbf{T}, \delta\mathbf{B}\cdot\mathbf{R}, \delta T_F)$$

The elements of the Λ matrix are:

$$\left.\begin{aligned}
\lambda_{11} &= \sigma_v^2\left[\frac{1}{C_3}\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial\Phi_S}\right)^2 + \frac{1}{C_3\cos^2\Phi_S}\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial\Theta_S}\right)^2 + 4C_3\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial C_3}\right)^2\right] \\
\lambda_{12} &= \sigma_v^2\left[\frac{1}{C_3}\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial\Phi_S}\right)\left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial\Phi_S}\right) + \frac{1}{C_3\cos^2\Phi_S}\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial\Theta_S}\right)\times\left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial\Theta_S}\right) + 4C_3\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial C_3}\right)\left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial C_3}\right)\right] \\
\lambda_{13} &= \sigma_v^2\left[\frac{1}{C_3}\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial\Phi_S}\right)\left(\frac{\partial T_F}{\partial\Phi_S}\right) + \frac{1}{C_3\cos^2\Phi_S}\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial\Theta_S}\right)\left(\frac{\partial T_F}{\partial\Theta_S}\right) + 4C_3\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial C_3}\right)\left(\frac{\partial T_F}{\partial C_3}\right)\right] \\
\lambda_{22} &= \sigma_v^2\left[\frac{1}{C_3}\left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial\Phi_S}\right)^2 + \frac{1}{C_3\cos^2\Phi_S}\left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial\Theta_S}\right)^2 + 4C_3\left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial C_3}\right)^2\right] \\
\lambda_{23} &= \sigma_v^2\left[\frac{1}{C_3}\left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial\Phi_S}\right)\left(\frac{\partial T_F}{\partial\Phi_S}\right) + \frac{1}{C_3\cos^2\Phi_S}\left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial\Theta_S}\right)\left(\frac{\partial T_F}{\partial\Theta_S}\right) + 4C_3\left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial C_3}\right)\left(\frac{\partial T_F}{\partial C_3}\right)\right] \\
\lambda_{33} &= \sigma_v^2\left[\frac{1}{C_3}\left(\frac{\partial T_F}{\partial\Phi_S}\right)^2 + \frac{1}{C_3\cos^2\Phi_S}\left(\frac{\partial T_F}{\partial\Theta_S}\right)^2 + 4C_3\left(\frac{\partial T_F}{\partial C_3}\right)^2\right]
\end{aligned}\right\} \tag{52}$$

The quantities in the Λ matrix can be interpreted as standard deviations (sigmas) and correlation coefficients (rhos) according to

$$\left.\begin{aligned}
\sigma_T &= (\lambda_{11})^{1/2} \\
\sigma_R &= (\lambda_{22})^{1/2} \\
\sigma_F &= (\lambda_{33})^{1/2} \\
\rho_{RT} &= \frac{\lambda_{12}}{(\lambda_{11}\lambda_{22})^{1/2}} \\
\rho_{TF} &= \frac{\lambda_{13}}{(\lambda_{11}\lambda_{33})^{1/2}} \\
\rho_{RF} &= \frac{\lambda_{23}}{(\lambda_{22}\lambda_{33})^{1/2}}
\end{aligned}\right\} \tag{53}$$

Then the Λ matrix becomes

$$\Lambda = \begin{bmatrix} \sigma_T^2 & \rho_{RT}\,\sigma_R\,\sigma_T & \rho_{TF}\,\sigma_F\,\sigma_T \\ & \sigma_R^2 & \rho_{RF}\,\sigma_R\,\sigma_F \\ \text{symmetric} & & \sigma_F^2 \end{bmatrix} \tag{54}$$

It is often of interest when describing only miss components to consider

$$\sigma_B = (\sigma_R^2 + \sigma_T^2)^{1/2} \tag{55}$$

and to diagonalize the upper 2×2 portion of the Λ (the miss component elements) to get

$$\Lambda^* = L\Lambda L^T = \begin{bmatrix} \sigma_1^2 & 0 & \rho_{13}\,\sigma_1\,\sigma_3 \\ & \sigma_2^2 & \rho_{23}\,\sigma_2\,\sigma_3 \\ \text{symmetric} & & \sigma_3^2 \end{bmatrix} \tag{56}$$

where the matrix L is given by

$$L = \begin{bmatrix} \cos\theta & \sin\theta & 0 \\ -\sin\theta & \cos\theta & 0 \\ 0 & 0 & 1 \end{bmatrix} \tag{57}$$

The angle θ is positive when turned counterclockwise from the **T** axis, and has been chosen such that $\sigma_1 \geq \sigma_2$. This is accomplished by

$$\theta = \frac{1}{2}\tan^{-1}\left[\frac{2\rho_{RT}}{\left(\frac{\sigma_T}{\sigma_R}\right) - \left(\frac{\sigma_R}{\sigma_T}\right)}\right] \tag{58}$$

where θ is in first quadrant if ρ_{RT} is positive and θ is in second quadrant if ρ_{RT} is negative. Notice that $\sigma_3 = \sigma_F$. The two-dimensional error ellipse described by σ_1, σ_2, and θ is the projection of all points of the three-dimensional ellipsoid of position errors (discussed in Section IIE) onto the **T–R** plane, as shown in Fig. 8.

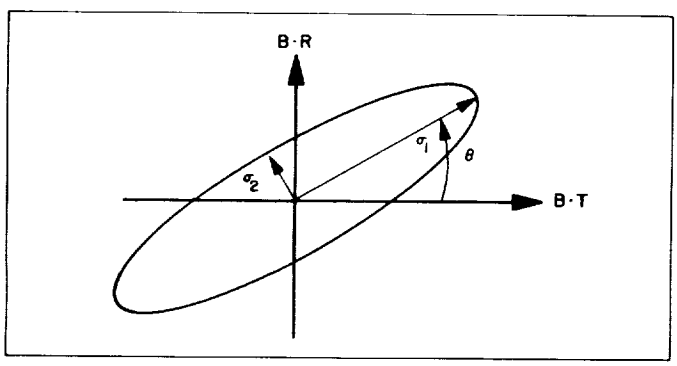

Fig. 8. Projection of three-dimensional error ellipsoid on the T-R plane

E. Orbit Determination Accuracy

In this section the analytic model used for describing orbit determination accuracy (tracking error) for interplanetary trajectories is discussed, and the factors upon which the tracking error depends are reviewed. The dominant error sources are defined for the easterly launchings from Cape Canaveral using tracking coverage supplied by NASA's Deep Space Instrumentation Facility (DSIF). Probable generalization to other situations is suggested. Finally, the method of describing target errors is presented along with all formulae relating the tracking errors to the target error parameters chosen.

1. Method of Describing Orbit Determination Accuracy

As discussed in Section IID, the uncertainties in our knowledge of an interplanetary trajectory are well described in terms of the direction and magnitude of the geocentric hyperbolic-excess velocity vector, $\mathbf{V}_{hL}$. Figure 9 defines the right-handed Cartesian coordinate system we have adopted for describing uncertainties in $\mathbf{V}_{hL}$. The X_3 axis is along $\mathbf{V}_{hL}$; the X_1 axis is in the direction of a positive differential change in asymptote declination Φ_S; and the X_2 axis completes the system.

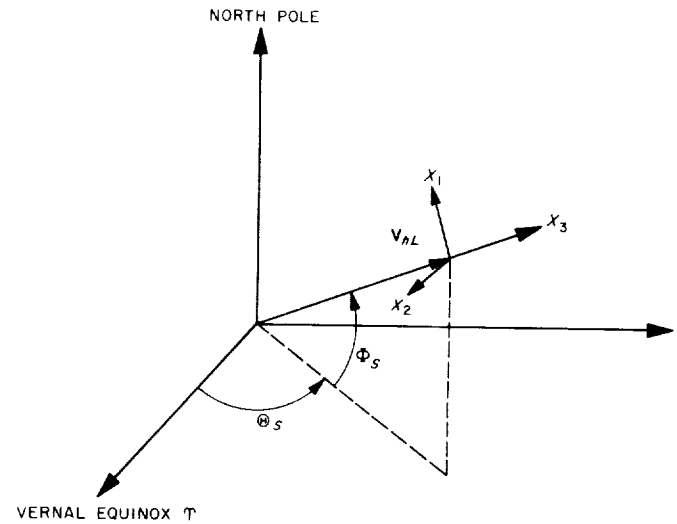

Fig. 9. Orientation of the X_i Cartesian coordinate system to describe uncertainties in the hyperbolic-excess velocity vector $\mathbf{V}_{hL}$

Let $\dot{\mathbf{X}}$ represent the vector of velocity *errors* in the X_i system just described; $\dot{\mathbf{X}} = (\delta\dot{X}_1, \delta\dot{X}_2, \delta\dot{X}_3)^T$, where T indicates the transpose. The average of any function of $\dot{\mathbf{X}}$, $f(\dot{\mathbf{X}})$, over an *ensemble* of randomly generated tracking runs may assist in describing our statistical knowledge of $\dot{\mathbf{X}}$ based on tracking noise, station location, and physical constant uncertainties. The ensemble average is usually written $Ef(\dot{\mathbf{X}})$ or as $\widetilde{f(\dot{\mathbf{X}})}$. When $\dot{\mathbf{X}}$ has a Gaussian (normal) probability density function, the distribution can be described completely by specifying $E\dot{\mathbf{X}}$ and $E[(\dot{\mathbf{X}} - \widetilde{\dot{\mathbf{X}}})(\dot{\mathbf{X}} - \widetilde{\dot{\mathbf{X}}})^T]$, the mean and covariance of $\dot{\mathbf{X}}$, respectively.

When all parameters influencing our knowledge of $\dot{\mathbf{X}}$ have been considered, $E\dot{\mathbf{X}}$ should be zero and then the description of our uncertainties in $\dot{\mathbf{X}}$ can be adequately given by Covar $\dot{\mathbf{X}}$, defined above. For convenience, the symbol $\Lambda_{\dot{\mathbf{X}}}$, for Covar $\dot{\mathbf{X}}$, is introduced.

$$\Lambda_{\dot{\mathbf{X}}} = \text{Covar}\,\dot{\mathbf{X}} = E\left[(\dot{\mathbf{X}} - \widetilde{\dot{\mathbf{X}}})(\dot{\mathbf{X}} - \widetilde{\dot{\mathbf{X}}})^T\right] \tag{59}$$

Note that

$$\Lambda_{\dot{X}} = \begin{pmatrix} \overline{\delta\dot{X}_1\delta\dot{X}_1} & \overline{\delta\dot{X}_1\delta\dot{X}_2} & \overline{\delta\dot{X}_1\delta\dot{X}_3} \\ \overline{\delta\dot{X}_2\delta\dot{X}_1} & \overline{\delta\dot{X}_2\delta\dot{X}_2} & \overline{\delta\dot{X}_2\delta\dot{X}_3} \\ \overline{\delta\dot{X}_3\delta\dot{X}_1} & \overline{\delta\dot{X}_3\delta\dot{X}_2} & \overline{\delta\dot{X}_3\delta\dot{X}_3} \end{pmatrix} \tag{60}$$

is a 3×3 real symmetric matrix. The diagonal terms are the variances of the three components, and the off-diagonal terms measure the correlation between the three components.

Before describing how $\Lambda_{\dot{X}}$ has been "mapped" into target error uncertainties, a discussion is given of the dependence of $\Lambda_{\dot{X}}$ upon the relevant factors describing near-Earth tracking as well as the typical errors assumed in preparing the estimates given in this report.

2. Accuracy of Near-Earth Tracking

By expressing the accuracy of near-Earth tracking in terms of $\dot{\mathbf{X}}$ and its associated covariance $\Lambda_{\dot{X}}$, the dependence upon almost all trajectory parameters has been eliminated. The remaining relevant trajectory parameters are listed in Table 1.

Table 1. Trajectory parameters influencing tracking accuracy

1. Launch site	
2. Launch azimuth Σ_L	Depends on launch time.
3. Injection region	Depends on time in parking orbit; short or long coast less than 1 revolution is current practice.
4. Declination of V_{hL}, Φ_N	Depends on target position at arrival date and injection energy, C_3.
5. Magnitude of $V_{hL} = V_{hL} = (C_3)^{1/2}$	

Note the limited number of trajectory parameters on which $\Lambda_{\dot{X}}$ depends. Table 2 summarizes the key tracking station parameters which influence accuracy in the geocentric tracking phase.

The first three factors listed in Table 2 define the tracking configuration, whereas the last three are station performance factors. Usually, tracking accuracy studies are carried out with the tracking configuration relatively fixed, and the influence of the station performance factors are determined.

The final source of tracking error is uncertainty in physical constants. The influence of GM–Earth errors is somewhat smaller than the above-mentioned errors and should be reduced to negligible contribution in the next two years. Sections IIC and IIIC describe how the uncertainty in the astronomical unit affects the target error; this error

Table 2. Tracking station parameters influencing tracking accuracy

1. Station locations	A spread of latitudes is very desirable.
2. Total tracking time	
3. Tracking data types	Range R, range rate $\dot{R}$, and angles are most commonly taken.
4. Delay in acquiring first data	Delay is measured from the injection region as well as station acquisition delays.
5. Tracking data accuracies	Expressed in terms of equivalent uncorrelated noise at a given sampling rate.
6. Uncertainty in tracking station locations	Important when high data accuracies are available. Longitude errors usually are most important.

can be important for very long flights, but should also be reduced to a negligible contribution in the next two years. Errors in the target's mass cause minor variations in flight time T_F and negligible effect on $\mathbf{B}$. The last important target error source currently recognized is the uncertainty in the effect of the standard solar radiation pressure on spacecraft trajectory. The source of uncertainty is that effective reflecting area (largely solar panels) is not perfectly known. Techniques for the accurate measurement of this quantity are currently under development. Our studies show that unless this error is held below 5% it will be the dominant error source on many of our flights. Sections IIC and IIIC describe the calculation of the standard solar radiation pressure on a typical spacecraft deriving electrical power from the Sun.

The tracking accuracies reported here are representative of those available from tracking with the DSIF stations in South Africa, Australia, and the United States. Launch azimuths between 90 and 114 deg east of north were considered. Data accuracies of 0.02 m/sec in $\dot{R}$ and 0.05 deg in angle sampled every 10 minutes were assumed; no range measurements were assumed. Station location errors were assumed to be uncorrelated with standard deviations of 0.001 deg in latitude, 0.0005 deg in longitude, and 30 meters in radius. Each station was allowed 10 minutes to acquire the spacecraft transponder, and tracking was simulated in the first 24 hours so that at least one pass was available to each station. The transfer of transmitting assignment from one station to another (simultaneous transmission was not allowed) followed a pattern which has been found to be near-optimum.

The $\Lambda_{\dot{X}}$ matrix used in these calculations was assumed to be independent of the trajectory parameters listed in Table 1. This approximation is good for the range of energies and asymptotic declinations considered to be

most feasible. In the future these approximations will be refined as necessary. The $\Lambda_{\dot{\mathbf{X}}}$ used for orbit determination accuracy in this report is given in Section IIIE. The target accuracies calculated here are typical for any reasonable multistation tracking configuration, with the data types and accuracies corresponding to this conservative representation of DSIF capabilities.

3. Calculation of Target Errors

The representation of tracking accuracy in the geocentric phase in terms of $\Lambda_{\dot{\mathbf{X}}}$, the covariance of the $\mathbf{V}_{hL}$ in a particular rectangular coordinate system, was developed earlier in this section. In order to express the effect of these uncertainties in $\mathbf{V}_{hL}$ in terms of target error, two steps must be performed. First, a set of coordinates $\mathbf{M}_1$ at the target planet for expressing the errors ($\mathbf{M}_1$ cannot exceed 3 dimensions) must be chosen. (A convenient set with desirable linearity properties is the **T–R–S** system defined previously.) The matrix U_1, which maps $\dot{\mathbf{X}}$ to the desired $\mathbf{M}_1$, is then determined.

$$\mathbf{M}_1 = U_1\dot{\mathbf{X}} = \begin{pmatrix} \delta\mathbf{B}\cdot\mathbf{T} \\ \delta\mathbf{B}\cdot\mathbf{R} \\ \delta S \end{pmatrix} \tag{61}$$

The covariance of $\mathbf{M}_1$ is given by

$$\text{Covar}\,[\mathbf{M}_1] = \overline{\mathbf{M}_1\mathbf{M}_1^T} = U_1\Lambda_{\dot{\mathbf{X}}}U_1^T = \Lambda_{\mathbf{M}_1} \tag{62}$$

The determination of U_1 for the coordinates chosen follows the lines of Section IID. It is presumed that the K-matrix is given, where

$$K = \begin{bmatrix} \dfrac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial\Phi_S} & \dfrac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial\Theta_S} & \dfrac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial C_3} \\ \dfrac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial\Phi_S} & \dfrac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial\Theta_S} & \dfrac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial C_3} \\ \dfrac{\partial T_F}{\partial\Phi_S} & \dfrac{\partial T_F}{\partial\Theta_S} & \dfrac{\partial T_F}{\partial C_3} \end{bmatrix} \tag{45}$$

By postmultiplying K by

$$A = \begin{bmatrix} \dfrac{1}{V_{hL}} & 0 & 0 \\ 0 & \dfrac{-1}{V_{hL}\cos\Phi_S} & 0 \\ 0 & 0 & 2V_{hL} \end{bmatrix} \tag{63}$$

the F matrix is obtained.

$$F = KA \tag{47}$$

The F matrix must now be adjusted to transform into the **T–R–S** coordinates used for $\mathbf{M}_1$. This transformation B is simply

$$B = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & -V_{hp} \end{bmatrix} \tag{64}$$

since $\delta S = -V_{hp}\delta T_L$. Thus our U_1 matrix is given by

$$U_1 = B\,(KA) = BF \tag{65}$$

Now the mapping given in Eq. (62) to obtain $\Lambda_{\mathbf{M}_1}$ is applied. Since all of the coordinates of $\mathbf{M}_1$ have the same dimensions (length squared), the one-sigma ellipsoid described by the quadratic form

$$\delta\mathbf{M}_1\,\Lambda_{\mathbf{M}_1}^{-1}\,\delta\mathbf{M}_1^T = 1 \tag{66}$$

has physical significance. The three principal axes of this ellipsoid are the square roots of the 3-eigenvalues of the $\Lambda_{\mathbf{M}_1}$ matrix. The formulas used are standard and are not reproduced here. The projection of the three-dimensional ellipsoid on to the **T–R** plane is an ellipse. Its major and minor semiaxes and orientation of the major axis are calculated by the same procedure used in Section IID. It is often convenient to write $\Lambda_{\mathbf{M}_1}$ in an alternate form:

$$\Lambda_{\mathbf{M}_1} = \begin{bmatrix} \sigma_T^2 & \rho_{RT}\sigma_T\sigma_R & \rho_{TS}\sigma_T\sigma_S \\ \rho_{RT}\sigma_R\sigma_T & \sigma_R^2 & \rho_{RS}\sigma_R\sigma_S \\ \rho_{TS}\sigma_S\sigma_T & \rho_{RS}\sigma_S\sigma_R & \sigma_S^2 \end{bmatrix} \tag{67}$$

It can be seen that $\Lambda_{\mathbf{M}_1}$ is completely described by σ_T, σ_R, σ_S, ρ_{TS}, ρ_{RS}, ρ_{TR}, because of its symmetry.

III. EXPLANATION OF TRAJECTORY TABLES

Tabular listings of pertinent quantities of the heliocentric and planetocentric trajectories, differential corrections, guidance, and orbit determination parameters are given at 1-day launch date intervals and 2-day flight time intervals over the selected launch period. The launch period is selected to encompass the minimum energy transfer dates obtained from Ref. 7 and 8. A summary of the characteristics of these trajectories is given in Ref. 7.

Each trajectory begins with a header giving launch date, flight time (in days), and arrival date. All the heliocentric transfer trajectories are calculated assuming launch into the heliocentric orbit at 0 hours of the launch date and arrival at 0 hours of the arrival date. Later, however, when the launch-planet ascent trajectories are computed, the actual launch times during the launch day for each launch azimuth are given.

Each page lists four trajectories, each of which is divided into five basic print groups: HELIOCENTRIC CONIC, PLANETOCENTRIC CONIC, DIFFERENTIAL CORRECTIONS, MID-COURSE EXECUTION ACCURACY, and ORBIT DETERMINATION ACCURACY. Each quantity is assigned an identifying alphabetic symbol of no more than three letters. The definitions of the symbols and quantities they represent are given below. All pertinent quantities are referenced to the mean equinox and equator, or ecliptic, of *launch* date.

A. Heliocentric Conic Group

The HELIOCENTRIC CONIC group gives the characteristics of the heliocentric transfer ellipse, such as the position and velocity vectors at launch and arrival, some orbital elements, and other quantities of engineering interest. The printout array is as follows:

HELIOCENTRIC CONIC DISTANCE

RL LAL LOL VL GAL AZL HCA SMA ECC INC V1

RP LAP LOP VP GAP AZP TAL TAP RCA APO V2

RC GL GP ZAL ZAP ETS ZAE ETE ZAC ETC CLP

After the words HELIOCENTRIC CONIC, the heliocentric arc DISTANCE traveled by the spacecraft from launch to arrival is printed. The quantities are defined as follows (all angles are in deg; distances are in millions of km; speeds are in km/sec):

Line 1

RL, $R_L = |\mathbf{R}_L|$ — the heliocentric radius of the launch planet at 0 hours of the launch date.

LAL, β_L — the celestial latitude of the launch planet at 0 hours of the launch date.

LOL, λ_L — the celestial longitude of the launch planet at 0 hours of the launch date.

VL, $V_L = |\mathbf{V}_L|$ — the heliocentric speed of the probe at 0 hours of the launch date.

GAL, Γ_L — the path angle of the probe at 0 hours of the launch date, i.e., the complement of the angle between the position and velocity vectors, $\mathbf{R}_L$ and $\mathbf{V}_L$, defined by

$$\sin \Gamma_L = \frac{\mathbf{R}_L \cdot \mathbf{V}_L}{R_L V_L} \qquad -\frac{\pi}{2} \leq \Gamma_L \leq \frac{\pi}{2}$$

AZL, Σ_L — the azimuth angle of the probe at 0 hours of the launch date, i.e., the angle, measured in a plane perpendicular to the radius vector $\mathbf{R}_L$, between the projection of the ecliptic north and the projection of the velocity vector $\mathbf{V}_L$ on the plane perpendicular to $\mathbf{R}_L$, defined by

$$\cos \Sigma_L = \frac{\mathbf{V}_L \cdot \mathbf{\Psi}^1}{V_L \cos \Gamma_L} \qquad 0 \leq \Sigma_L \leq 2\pi$$

$$\sin \Sigma_L = \frac{(\mathbf{R}_L \times \mathbf{V}_L) \cdot \mathbf{\Psi}^1}{|\mathbf{R}_L \times \mathbf{V}_L|}$$

where $\mathbf{\Psi}^1 = (\mathbf{K}' - \mathbf{R}_L^1 \sin \beta_L) \sec \beta_L$, where the superscript 1 denotes a unit vector.

HCA, Ψ — the heliocentric central angle, or angle between the position vector $\mathbf{R}_L$, of the launch planet at 0 hours of the launch date and the position vector $\mathbf{R}_p$, of the target planet at 0 hours of the arrival date. This angle is defined by Eq. (3) and (4) and illustrated in Fig. 1.

SMA, a — the semimajor axis of the heliocentric transfer ellipse.

ECC, e — the eccentricity of the heliocentric transfer ellipse.

INC, i — the inclination of the heliocentric transfer ellipse.

V1, $V_1 = |\mathbf{V}_1|$ — the heliocentric speed of the launch planet at 0 hours of the launch date.

Line 2

RP, $R_p = |\mathbf{R}_p|$ — the heliocentric radius of the target planet at 0 hours of the arrival date.

LAP, β_p — the celestial latitude of the target planet at 0 hours of the arrival date.

LOP, λ_p — the celestial longitude of the target planet at 0 hours of the arrival date.

VP, $V_p = |\mathbf{V}_p|$ — the heliocentric speed of the probe at 0 hours of the arrival date.

GAP, Γ_p — the path angle of the probe at 0 hours of the arrival date, defined the same as Γ_L except that $\mathbf{R}_p$ and $\mathbf{V}_p$ are substituted for $\mathbf{R}_L$ and $\mathbf{V}_L$.

AZP, Σ_p — the azimuth angle of the probe at 0 hours of the arrival date, defined the same as Σ_L except that $\mathbf{R}_p$ and $\mathbf{V}_p$ are substituted for $\mathbf{R}_L$ and $\mathbf{V}_L$.

TAL, v_L — the true anomaly of the probe in the heliocentric transfer ellipse at 0 hours of the launch date.

TAP, v_p — the true anomaly of the probe in the heliocentric transfer ellipse at 0 hours of the arrival date.

RCA, R_{CA} — the perihelion distance of the heliocentric transfer ellipse. This distance is printed even though the probe may not transit perihelion.

APO, R_A — the aphelion distance of the heliocentric transfer ellipse. This distance is printed even though the probe may not transit aphelion.

V2, $V_2 = |\mathbf{V}_2|$ — the heliocentric speed of the target planet at 0 hours of the arrival date.

Line 3

RC, R_C — the communication distance, or distance between the launch and target planets at 0 hours of *the arrival date*.

GL, γ_L — the angle between the launch hyperbolic-excess velocity vector $\mathbf{V}_{hL}$ and its projection on the orbital plane of the launch planet, defined by

$$\sin \gamma_L = \frac{\mathbf{W}_1 \cdot \mathbf{V}_{hL}}{V_{hL}} \qquad -\frac{\pi}{2} \leq \gamma_L \leq \frac{\pi}{2}$$

where $\mathbf{W}_1$ is a unit normal to the launch planet's orbital plane. This angle is useful in describing the direction in which the probe leaves the launch planet.

GP, γ_p — the angle between the incoming arrival hyperbolic-excess velocity vector $\mathbf{V}_{hp}$, and its projection on the target planet's orbital plane, defined by

$$\sin \gamma_p = \frac{\mathbf{W}_2 \cdot \mathbf{V}_{hp}}{V_{hp}} \qquad -\frac{\pi}{2} \leq \gamma_p \leq \frac{\pi}{2}$$

where $\mathbf{W}_2$ is a unit normal to the target planet's orbital plane. This angle is useful in determining whether the probe is approaching from above or below the target planet. If γ_p is positive, the probe approaches from below —if negative, from above.

ZAL, ζ_L — the angle between the outgoing launch asymptote (or hyperbolic-excess velocity vector) and the launch *heliocentric* radius vector $\mathbf{R}_L$ at launch time. This is the Sun–launch-planet–probe angle and is a good approximation to the launch-planet–probe–Sun angle as the probe leaves the launch planet. It is an important quantity in the design of attitude control systems which use the Sun and launch planet as optical references. The quantity ζ_L is defined as follows:

$$\cos \zeta_L = \frac{\mathbf{V}_{hL} \cdot \mathbf{R}_L^1}{V_{hL}} \qquad 0 \leq \zeta_L \leq \pi$$

The next six quantities, all angles, have the same general definition. They are important in the design of the near-target trajectory and are used in determining the aiming point for interplanetary flyby trajectories. Consider the target-centered geometry of Fig. 10.

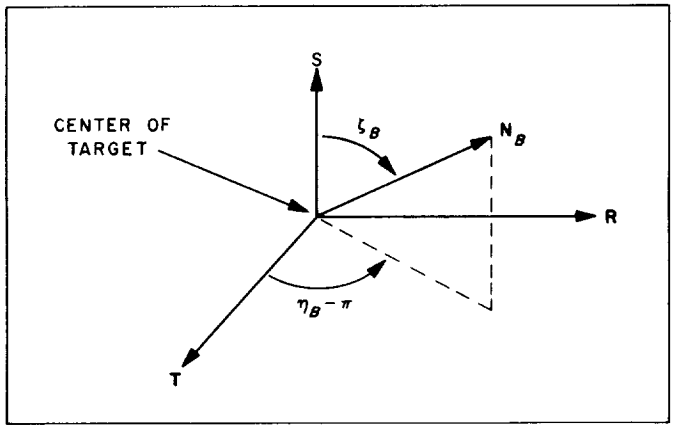

Fig. 10. Generalized geometry for aiming point angles

In this diagram, the reference coordinate system is the same target **R**, **S**, **T** system defined in Section IIC. A unit vector $\mathbf{N}_B$ (subscript B for body) is directed from the target center to another celestial body. The angular quantity ζ_B is the angle subtended at the target center between the incoming asymptote **S** and the target–celestial body line $\mathbf{N}_B$. Thus

$$\cos \zeta_B = \mathbf{S} \cdot \mathbf{N}_B = \frac{\mathbf{V}_{hp} \cdot \mathbf{N}_B}{V_{hp}} \qquad 0 \leq \zeta_B \leq \pi$$

since

$$\mathbf{S} = \frac{\mathbf{V}_{hp}}{V_{hp}}$$

The angle η_B is the supplement of the angle between the **T** direction and the projection of $\mathbf{N}_B$ on the $\mathbf{R} - \mathbf{T}$ plane, defined by

$$\sin \eta_B = \frac{-\mathbf{R} \cdot \mathbf{N}_B}{\sin \zeta_B} \qquad 0 \leq \eta_B \leq 2\pi$$

$$\cos \eta_B = \frac{-\mathbf{T} \cdot \mathbf{N}_B}{\sin \zeta_B}$$

These quantities are computed for three celestial bodies: the Sun (ζ_S and η_S), the Earth (ζ_E and η_E), and the star Canopus (ζ_C and η_C). Thus,

ZAP, ζ_S (or ζ_p) — the Sun–target–probe angle. Actually, this angle should be symbolized ZAS, but, for historical reasons, is not. This angle is useful in that it indicates the direction of the probe's approach to the target. If $\zeta_S < \pi/2$, the probe approaches from the target planet's dark side. If $\zeta_S > \pi/2$, it approaches from the light side.

ETS, η_S — defined as above.

ZAE, ζ_E — the Earth–target–probe angle. This angle is useful in locating the Earth as the probe approaches the target.

ETE, η_E — defined as above.

ZAC, ζ_C — the Canopus–target–probe angle.

ETC, η_C — defined as above.

CLP, σ_p — the angle between the projection of the incoming asymptote **S** on the target planet's orbital plane and the target–Sun line at arrival time, defined by

$$\cos \sigma_p = -\mathbf{R}_p^1 \cdot \mathbf{S}_{pr} \qquad -\pi \leq \sigma_p \leq \pi$$

$$\sin \sigma_p = -\mathbf{S}_{pr} \cdot (\mathbf{W}_2 \times \mathbf{R}_p^1)$$

where $\mathbf{S}_{pr}$ is the projection of **S** on the target's orbital plane given by

$$\mathbf{S}_{pr} = \frac{\mathbf{S} - \mathbf{W}_2 (\mathbf{S} \cdot \mathbf{W}_2)}{|\mathbf{S} - \mathbf{W}_2 (\mathbf{S} \cdot \mathbf{W}_2)|}$$

Recall that $\mathbf{W}_2$ is the unit normal vector to the target's orbital plane. This angle is illustrated in Fig. 11.

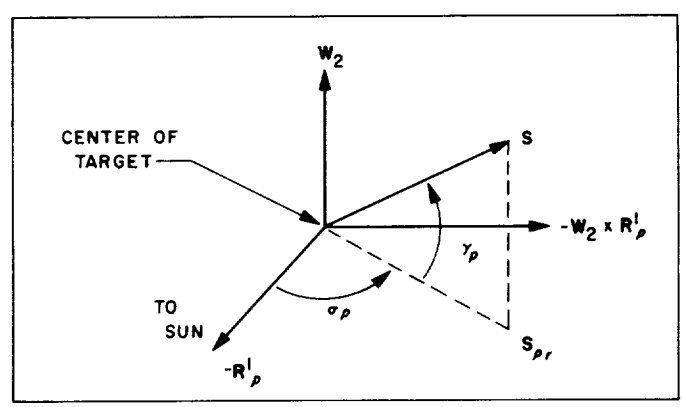

Fig. 11. Definition of σ_p and γ_p

B. Planetocentric Conic Group

The second group, PLANETOCENTRIC CONIC, gives the characteristics of primarily the launch-planet ascent trajectories, but also includes the hyperbolic-excess vector at the target. Injection conditions are given for three launch azimuths, assuming both short and long parking orbits. As explained in Ref. 6, there may be two launch times per day for each launch azimuth, resulting in a short and long parking orbit. The injection conditions for each set are given in geocentric space-fixed spherical coordinates and, by assuming a 100-nm parking orbit altitude and typical boost vehicle trajectory characteristics, the longitude of injection is calculated, along with the latitude and longitude of ignition of final burn out of the parking orbit.

A special case may arise when the declination of the outgoing asymptote of the escape hyperbola is greater than the launch site latitude (Cape Canaveral). In this case, owing to geometrical restrictions, it may not be possible to fire in a symmetrical band of azimuths about due east, as explained in Ref. 6. This band of restricted azimuths may eliminate part or all of the selected launch azimuths, 90, 100, and 110 deg. When this happens, only those trajectories with permissible azimuths are printed, in addition to the limiting azimuths, or the most northerly and southerly azimuths, that are possible.

The ascent trajectory profile is as shown in Fig. 12. Its characteristics are defined as follows:

Φ_1 the arc subtended at Earth's center during ascent from launch into parking orbit.

t_1 the time from launch to parking-orbit injection.

Φ_2 the arc subtended at Earth's center during final burn out of the parking orbit, to injection.

t_2 the time of final burn.

$k_{\dot{\Phi}}$ the inverse parking orbital rate, equal to $1/\dot{\Phi}_c$.

v_1 the true anomaly in the hyperbolic orbit at injection.

R_p the perifocal distance of the escape hyperbola, taken equal to the Earth-centered radius of the parking orbit.

ϕ_L the longitude of the launch site.

θ_L the latitude of the launch site.

The values of these quantities for all trajectories contained herein are:

$\Phi_1 =$ 17 deg

$t_1 =$ 500 sec

$\Phi_2 =$ 8 deg

$t_2 =$ 100 sec

$k_{\dot{\Phi}} =$ 14.689 sec/deg

$v_1 =$ 3.7 deg

$R_p =$ 6560 km

$\phi_L =$ 28.317 deg

$\theta_L =$ 279.457 deg

An inherent assumption here is that these quantities are relatively invariant with injection energy. This is a reasonable assumption and will affect the injection coordinates only slightly.

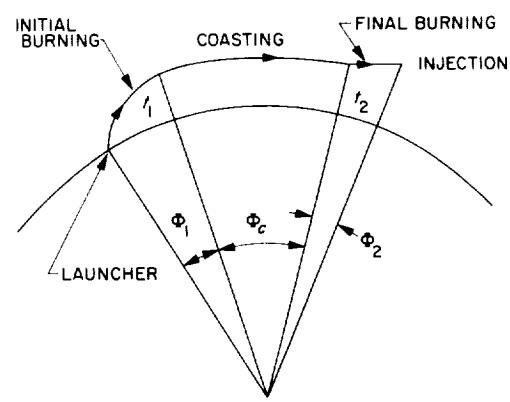

Fig. 12. Ascent trajectory profile

The print array for the PLANETOCENTRIC CONIC group is:

C3	VHL	DLA	RAL	RAD	VEL	PTH	VHP	DPA	RAP	ECC
LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG

The quantities are defined as follows (all angles are in deg; distances are in km; speeds are in km/sec, launch-injection (L-I)time and parking orbit coast time (PO CST TIM) are in sec; launch time and injection time are in hr, min, and sec, GMT):

Line 1

C3, C_3	the *vis viva* integral (Moulton), or twice the total energy per unit mass, expressed in km²/sec² and defined by $C_3 = V^2_{hL}$.
VHL, V_{hL}	the launch hyperbolic-excess speed.
DLA, Φ_S	the declination of the outgoing asymptote of the escape hyperbola defined in Eq. (18).
RAL, Θ_S	the right ascension of the outgoing asymptote of the escape hyperbola defined in Eq. (18).
RAD, $R = \|\mathbf{R}\|$	the launch-planet-centered injection radius.
VEL, $V = \|\mathbf{V}\|$	the inertial injection speed.
PTH, Γ	the injection path angle defined by $\sin\Gamma = \frac{\mathbf{V}\cdot\mathbf{R}}{VR} \qquad -\frac{\pi}{2} \leq \Gamma \leq \frac{\pi}{2}$
VHP, V_{hp}	the hyperbolic-excess speed at the target.
DPA, Φ_{Sp}	the declination of the incoming asymptote at the target. The reference coordinate system here is vernal equinox, Earth equatorial, mean of *launch* date
RAP, Θ_{Sp}	the right ascension of the incoming asymptote at the target. Same reference coordinates as for Φ_{Sp}.
ECC, e	the eccentricity of the escape hyperbola.

Line 2

LNCH AZMTH, Σ_L	the launch azimuth measured in a plane tangent to the surface of the launch planet at the launch site, positive east of true north.
LNCH TIME, T_L	the launch time. For the range of launch azimuths given herein, launch time may cross 0 hours, or midnight. In this case, the launch date may be advanced to the following day for times after midnight, or it may be retarded to the previous day for times before midnight, whichever the reader wishes.
L-I TIME, t_{LI}	the launch-to-injection time.
INJ LAT, ϕ	the injection latitude (or declination Φ).
INJ LONG, θ	the injection longitude, measured positive east of Greenwich, $0 \leq \theta \leq 2\pi$.
INJ RT ASC, Θ	the injection right ascension.
INJ AZMTH, Σ	the injection azimuth, or angle between the projection of the velocity vector **V**, on the local horizontal plane and the projection of true north on this plane, measured positive east of true north.
INJ TIME, T_I	the injection time. The same comment applies to this quantity regarding launch date as applied to the launch time. However, both times must be consistent. For example, if launch time is on the previous day, injection time may fall on the launch date shown, or it may be on the following day.
PO CST TIM, t_c	the coast time in the parking orbit, in sec.
INJ 2 LAT, ϕ_2	the latitude of the start of final burn out of the parking orbit.
INJ 2 LONG, θ_2	the longitude of the start of final burn out of the parking orbit, $0 \leq \theta_2 \leq 2\pi$.

The quantities T_I, R, Φ, Θ, V, Γ, Σ form a consistent set of injection conditions; i.e., they are the time and the space-fixed spherical coordinates which can be used to initialize an integrating trajectory program.

C. Differential Corrections Group

The DIFFERENTIAL CORRECTIONS group is comprised of sixteen error coefficients relating variations in

injection energy C_3, declination Φ_S, and right ascension Θ_S, of the outgoing asymptote of the escape hyperbola, the astronomical unit, and solar radiation pressure to variations in the miss components $\mathbf{B}\cdot\mathbf{T}$, $\mathbf{B}\cdot\mathbf{R}$, and the flight time. These coefficients are very useful in gaging the error sensitivity of an interplanetary trajectory. The printout array for this group is as follows:

DIFFERENTIAL CORRECTIONS

TDE	TRA	TC3	BAU
RDE	RRA	RC3	FAU
FDE	FRA	FC3	BSP
BDE	BRA	BC3	FSP

The symbols are defined as follows:

Line 1

TDE, $\frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \Phi_S}$ the partial derivative of the **T** component of the impact parameter **B**, with respect to the declination of the launch escape asymptote Φ_S, in megakilometers/deg.

TRA, $\frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \Theta_S}$ the partial derivative of the **T** component of the impact parameter **B**, with respect to the right ascension of the launch escape asymptote Θ_S, in megakilometers/deg.

TC3, $\frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial C_3}$ the partial derivative of the **T** component of the impact parameter **B**, with respect to the injection energy C_3, in megakilometers/km²/sec².

BAU, $\frac{\partial \mathbf{B}}{\partial au}$ the partial derivative of the magnitude of the impact parameter **B**, with respect to the astronomical unit-to-kilometer conversion factor. This derivative is dimensionless and indicates the target miss caused by an uncertainty in the value of the astronomical unit.

Line 2

RDE, $\frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \Phi_S}$ the partial derivative of the **R** component of the impact parameter **B**, with respect to the declination of the launch escape asymptote Φ_S, in megakilometers/deg.

RRA, $\frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \Theta_S}$ the partial derivative of the **R** component of the impact parameter **B**, with respect to the right ascension of the launch escape asymptote Θ_S, in megakilometers/deg.

RC3, $\frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial C_3}$ the partial derivative of the **R** component of the impact parameter **B**, with respect to the injection energy C_3, in megakilometers/km²/sec².

FAU, $\frac{\partial T_F}{\partial au}$ the partial derivative of the flight time T_F, with respect to the astronomical unit-to-kilometer conversion factor. This derivative has dimensions of sec/km and indicates the error in flight time caused by an uncertainty in the value of the astronomical unit.

Line 3

FDE, $\frac{\partial T_F}{\partial \Phi_S}$ the partial derivative of flight time T_F, with respect to the declination of the launch escape asymptote Φ_S, in days/deg.

FRA, $\frac{\partial T_F}{\partial \Theta_S}$ the partial derivative of flight time T_F, with respect to the right ascension of the launch escape asymptote Θ_S, in days/deg.

FC3, $\frac{\partial T_F}{\partial C_3}$ the partial derivative of flight time T_F, with respect to the injection energy C_3, in days/km²/sec².

BSP, ΔB_{sp} the target miss (in km) caused by solar radiation pressure acting on a 300-kg spacecraft having an effective perfectly reflecting area of 3.6 square meters.

Line 4

BDE, $\frac{\partial \mathbf{B}}{\partial \Phi_S}$ the partial derivative of the magnitude of the impact parameter **B**, with respect to the declination of the launch escape asymptote Φ_S, in megakilometers/deg.

BRA, $\frac{\partial \mathbf{B}}{\partial \Theta_S}$ the partial derivative of the magnitude of the impact parameter **B**, with respect to the right ascension of the launch escape asymptote Θ_S, in megakilometers/deg.

BC3, $\frac{\partial \mathbf{B}}{\partial C_3}$ the partial derivative of the magnitude of the impact parameter **B**, with respect to the injection energy C_3, in megakilometers/km²/sec².

FSP, $\Delta T_{F_{sp}}$ the flight time error (in sec) caused by solar radiation pressure acting on a 300-kg spacecraft having an effective perfectly reflecting area of 3.6 square meters.

D. Mid-Course Execution Accuracy Group

The MID-COURSE EXECUTION ACCURACY group gives the parameters of the "one-sigma" three-dimensional ellipsoid of target errors, resulting from a spherically distributed mid-course guidance execution error with σ_v equal to 0.1 m/sec (see Eq. 49). It is assumed here that a single mid-course guidance maneuver is applied during the time the spacecraft is essentially traveling radially outward from the launch planet. This time is approximately from several hours to several days after launch and is a practical period in which to perform a mid-course maneuver. These quantities are quoted in the useful **R**, **S**, **T** coordinate system discussed above.

The print array for this group is:

MID-COURSE EXECUTION ACCURACY

SGT	SGR	SG3
RRT	RRF	RTF
SGB	R23	R13
SG1	SG2	THA

The quantities are defined as follows:

Line 1

SGT, σ_T the standard deviation of position errors along the **T** axis, in km.

SGR, σ_R the standard deviation of position errors along the **R** axis, in km.

SG3, σ_3 the standard deviation of flight time errors, in sec.

Line 2

RRT, ρ_{RT} the linear correlation coefficient relating position errors in the **R** and **T** directions (dimensionless).

RRF, ρ_{RF} the linear correlation coefficient relating position errors in the **R** direction and flight-time errors (dimensionless).

RTF, ρ_{TF} the linear correlation coefficient relating position errors in the **T** direction and flight-time errors (dimensionless).

Line 3

SGB, σ_B the square root of the sum of the squares of σ_R and σ_T.

R23, ρ_{23} the linear correlation coefficient of σ_2 and σ_3 ($= \sigma_F$). The same remarks apply to this number as to ρ_{13}, except that the σ_2 direction replaces the σ_1 direction.

R13, ρ_{13} the linear correlation coefficient relating σ_1 and σ_3 ($= \sigma_F$). This number statistically relates position errors in the σ_1 direction to flight time errors. If $\rho_{13} = 1$, then a position error in the σ_1 direction will always be accompanied by a flight-time error which is linearly related to that position error; ρ_{13} is dimensionless.

Line 4

SG1, σ_1 the semimajor axis of the error ellipse formed by projecting the three-dimensional error ellipsoid onto the **T**-**R** plane (Fig. 8), in km.

SG2, σ_2 the semiminor axis of this error ellipse (Fig. 8), in km.

THA, θ the angle between the **T** axis and the direction of the σ_1 axis, measured in the **T**-**R** plane as shown in Fig. 8, in deg.

E. Orbit Determination Accuracy Group

The ORBIT DETERMINATION ACCURACY group is comprised of 12 numbers which describe the uncertainty in target coordinates due to tracking errors described in Section IIE. The printout array for this group is as follows:

ORBIT DETERMINATION ACCURACY

ST	SR	SS
CRT	CRS	CST
LSA	MSA	SSA
EL1	EL2	ALF

The first two lines describe the covariance of $\mathbf{M}_1$ by the method described in Section IIE (Eq. 67):

Line 1

ST, σ_T the standard deviation of errors in the coordinate $\mathbf{B} \cdot \mathbf{T}$, in km.

SR, σ_R the standard deviation of errors in the coordinate $\mathbf{B} \cdot \mathbf{R}$, in km.

SS, σ_S the standard deviation of errors in S, in km.

Line 2

CRT, ρ_{RT} the linear correlation coefficient relating errors in $\mathbf{B} \cdot \mathbf{R}$ to errors in $\mathbf{B} \cdot \mathbf{T}$, dimensionless.

CRS, ρ_{RS} the linear correlation coefficient relating errors in $\mathbf{B} \cdot \mathbf{R}$ to errors in S, dimensionless.

CST, ρ_{TS} the linear correlation coefficient relating errors in $\mathbf{B} \cdot \mathbf{T}$ to errors in S, dimensionless.

The third line contains the three semiaxes of the one-sigma position ellipsoid described by $\mathbf{M}_1 \Lambda^{-1} \mathbf{M}^T = 1$.

Line 3

LSA, $\sqrt{\varepsilon_{max}}$ the largest semiaxis of the position ellipsoid, in km. (ε_{max} is the largest eigenvalue of $\Lambda_{\mathbf{M}_1}$, in km^2.)

MSA, $\sqrt{\varepsilon_{mid}}$ the middle semiaxis of the position ellipsoid, in km. (ε_{mid} is the second-largest, or middle, eigenvalue of $\Lambda_{\mathbf{M}_1}$, in km^2.)

SSA, $\sqrt{\varepsilon_{min}}$ the smallest semiaxis of the position ellipsoid, in km. (ε_{min} is the smallest eigenvalue of $\Lambda_{\mathbf{M}_1}$, in km^2.)

The fourth line describes the projection of the above position ellipsoid on the **T-R** plane. This projection is an ellipse with major and minor semiaxes and orientation as described below:

Line 4

EL1 the major semiaxis of the target error ellipsoid projected onto the **T-R** plane, in km.

EL2 the minor semiaxis of the target error ellipsoid projected onto the **T-R** plane, in km.

ALF, α the angle measured counterclockwise from the **T**-axis to the major semiaxis direction, in deg ($0 \geqq \alpha \geqq 180$ deg).

The $\Lambda_{\dot{\mathbf{X}}}$ matrix used in generating the results for this report is

$$\Lambda_{\dot{\mathbf{X}}} = \begin{pmatrix} 100 \times 10^{-10} & 0 & 0 \\ 0 & 9 \times 10^{-10} & 0 \\ 0 & 0 & .09 \times 10^{-10} \end{pmatrix} \left(\frac{\text{km}}{\text{sec}}\right)^2$$

In all cases LSA >> SSA, so that the information contained in lines 3 and 4 of the printout is very useful in visualizing the error ellipsoid. The general shape of the ellipsoid is a thin elliptical "pancake." When MSA << LSA, the "pancake" degenerates to approach a pencil shape. By inspecting the "shadow" of the pancake or pencil shape on the **T-R** plane, its orientation may be visualized.

If it is desired to estimate the flight time T_F, this can easily be done by the relation

$$\sigma_F = \frac{1}{V_{hp}} \sigma_S$$

The correlation coefficients between T_F and $\mathbf{B} \cdot \mathbf{T}$ are those given by CST; those between T_F and $\mathbf{B} \cdot \mathbf{R}$ are given by CRS.

IV. CONSTANTS

Constants used in trajectory calculations at the Jet Propulsion Laboratory are given in Ref. 9. For purposes of ready reference those constants used in the calculations contained herein are given below.

Gravitational Constants

1. Sun

$$GM_S = 2.959122083 \times 10^{-4} \text{ au}^3/\text{day}^2$$

2. Earth

$$GM_E = 3.986032 \times 10^5 \text{ km}^3/\text{sec}^2$$

Astronomical Unit-to-Kilometer Conversion Factor

$$1 \text{ au} = 149.599 \times 10^6 \text{ km}$$

Earth's Rotation Rate

$$\dot{\omega}_E = 4.1780742 \times 10^{-3} \text{ deg/sec}$$

REFERENCES

1. Clarke, V. C., Jr., Roth, R. Y., Bollman, W. E., Hamilton, T. H., and Pfeiffer, C. G., *Earth–Mars Trajectories, 1964–77, Vols.* I–VII, Technical Memorandum No. 33-100, Jet Propulsion Laboratory, Pasadena, to be published.

2. Pfeiffer, C. G., *Simple Guidance for Deep-Space Booster Vehicles,* Technical Report No. 32-128, Jet Propulsion Laboratory, Pasadena, November 1961.

3. Noton, A. R. M., *The Statistical Analysis of Space Guidance Systems,* Technical Memorandum No. 33-15, Jet Propulsion Laboratory, Pasadena, June 15, 1960.

4. Noton, A. R. M., Cutting, E., and Barnes, F. L., *Analysis of Radio-Command Mid-Course Guidance,* Technical Report No. 32-28, Jet Propulsion Laboratory, Pasadena, September 8, 1960.

5. Battin, R. H., "The Determination of Round-Trip Planetary Reconnaissance Trajectories," *Journal of the Aero/Space Sciences,* Volume 26, No. 9, September 1959.

6. Clarke, V. C., Jr., *Design of Lunar and Interplanetary Ascent Trajectories,* Technical Report No. 32-30, Rev. 1, Jet Propulsion Laboratory, Pasadena, March 15, 1962.

7. Clarke, V. C., Jr., *A Summary of the Characteristics of Ballistic Interplanetary Trajectories, 1962–1977,* Technical Report No. 32-209, Jet Propulsion Laboratory, Pasadena, January 15, 1962.

8. Clarke, V. C., Jr., Bollman, W. E., Roth, R. Y., and Scholey, W. J., *Design Parameters for Ballistic Interplanetary Trajectories—Part I, One-way Transfers to Mars and Venus,* Technical Report No. 32-77, Jet Propulsion Laboratory, Pasadena, January 16, 1963.*

9. Clarke, V. C., Jr., *Constants and Related Data Used in Trajectory Calculations at the Jet Propulsion Laboratory,* Technical Report No. 32-273, Jet Propulsion Laboratory, Pasadena, May 1, 1962.

Earth-Venus Trajectories, 1967

Launch date interval: May 20 to June 28, 1967

This data presentation has been photographically reproduced (enlarged 10½ times) from microfilm generated by computer magnetic tape.

LAUNCH DATE MAY 20 1967 FLIGHT TIME 70.00 ARRIVAL DATE JUL 29 1967

HELIOCENTRIC CONIC DISTANCE 139.438
RL 151.37 LAL -.00 LOL 238.31 VL 18.230 GAL 14.40 AZL 92.35 HCA 47.09 SMA 93.38 ECC .65084 INC 2.2483 V1 29.434
RP 108.87 LAP -1.65 LOP 285.38 VP 31.888 GAP -39.66 AZP 91.53 TAL 171.94 TAP 219.03 RCA 32.61 APO 154.16 V2 34.807
RC 61.839 GL -3.17 GP 1.54 ZAL 70.48 ZAP 26.69 ETS 184.99 ZAE 149.23 ETE 166.89 ZAC 131.16 ETC 22.41 CLP 26.65
PLANETOCENTRIC CONIC
C3 156.981 VHL 12.529 DLA 1.88 RAL 167.60 RAD 6570.7 VEL 16.683 PTH 2.89 VHP 22.893 DPA 21.37 RAP 135.74 ECC 3.5835

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 29 42	2751.32	-27.98	78.28	64.43	94.58	7 15 33	2151.3	-27.05	69.74
90.00	18 55 34	5278.95	27.06	238.84	62.53	81.32	20 23 33	4678.9	25.58	230.49
100.00	7 51 55	2486.13	-29.51	58.63	64.29	94.99	8 33 21	1886.1	-28.51	49.97
100.00	20 16 2	5019.37	28.58	219.48	62.26	80.85	21 39 42	4419.4	27.02	211.03
110.00	9 2 10	2266.25	-33.69	41.46	63.81	96.17	9 39 56	1666.2	-32.47	32.44
110.00	21 22 17	4812.02	32.72	202.91	61.43	79.49	22 42 29	4212.0	30.92	194.15

DIFFERENTIAL CORRECTIONS
TDE .6318 TRA-1.5458 TC3 -.1046 BAU .2240
RDE -.8695 RRA -.4566 RC3 .0212 FAU .01389
FDE -.3226 FRA .5901 FC3 -.0766 BSP 2100
BDE 1.0748 BRA 1.6119 BC3 .1067 FSP -65

MID-COURSE EXECUTION ACCURACY
SGT 807.7 SGR 452.3 SG3 31.3
RRT .0518 RRF -.0486 RTF -.6258
SGB 925.7 R23 -.0014 R13 -.6260
SG1 808.2 SG2 451.4 THA 2.42

ORBIT DETERMINATION ACCURACY
ST 358.6 SR 402.5 SS 335.1
CRT -.7039 CRS -.7903 CST .9898
LSA 593.1 MSA 222.9 SSA 13.9
EL1 498.3 EL2 205.8 ALF 130.32

LAUNCH DATE MAY 20 1967 FLIGHT TIME 72.00 ARRIVAL DATE JUL 31 1967

HELIOCENTRIC CONIC DISTANCE 145.430
RL 151.37 LAL -.00 LOL 238.31 VL 18.887 GAL 13.83 AZL 92.35 HCA 50.26 SMA 95.02 ECC .62356 INC 2.3516 V1 29.434
RP 108.89 LAP -1.81 LOP 288.55 VP 32.263 GAP -37.79 AZP 91.50 TAL 171.29 TAP 221.55 RCA 35.77 APO 154.26 V2 34.802
RC 59.876 GL -3.63 GP 1.59 ZAL 69.47 ZAP 25.17 ETS 185.23 ZAE 150.06 ETE 165.50 ZAC 129.61 ETC 21.84 CLP 25.12
PLANETOCENTRIC CONIC
C3 141.319 VHL 11.888 DLA 1.06 RAL 168.36 RAD 6570.5 VEL 16.206 PTH 2.84 VHP 21.945 DPA 21.00 RAP 137.45 ECC 3.3258

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 38 47	2706.91	-27.69	75.06	63.31	96.17	7 23 54	2106.9	-26.55	66.58
90.00	18 52 30	5285.32	27.12	239.30	62.25	81.54	20 20 36	4685.3	25.67	230.93
100.00	8 0 37	2442.95	-29.21	55.46	63.11	96.63	8 41 20	1842.9	-27.99	46.87
100.00	20 13 21	5024.52	28.64	219.86	61.99	81.04	21 37 6	4424.5	27.10	211.39
110.00	9 10 0	2225.80	-33.35	38.35	62.49	97.98	9 47 5	1625.8	-31.89	29.43
110.00	21 20 28	4814.43	32.75	203.09	61.17	79.60	22 40 43	4214.4	30.97	194.33

DIFFERENTIAL CORRECTIONS
TDE .6309 TRA-1.5449 TC3 -.1095 BAU .2121
RDE -.8313 RRA -.4409 RC3 .0246 FAU .01413
FDE -.3382 FRA .6101 FC3 -.0866 BSP 2204
BDE 1.0436 BRA 1.6065 BC3 .1122 FSP -72

MID-COURSE EXECUTION ACCURACY
SGT 845.5 SGR 457.3 SG3 34.1
RRT .0549 RRF -.0513 RTF -.6449
SGB 961.2 R23 -.0014 R13 -.6451
SG1 846.0 SG2 456.3 THA 2.40

ORBIT DETERMINATION ACCURACY
ST 377.4 SR 405.7 SS 351.6
CRT -.7027 CRS -.7931 CST .9891
LSA 615.1 MSA 228.3 SSA 14.1
EL1 511.6 EL2 212.9 ALF 132.06

LAUNCH DATE MAY 20 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 2 1967

HELIOCENTRIC CONIC DISTANCE 151.504
RL 151.37 LAL -.00 LOL 238.31 VL 19.501 GAL 13.26 AZL 92.45 HCA 53.42 SMA 96.65 ECC .59701 INC 2.4457 V1 29.434
RP 108.90 LAP -1.96 LOP 291.71 VP 32.620 GAP -36.02 AZP 91.46 TAL 170.66 TAP 224.08 RCA 38.95 APO 154.34 V2 34.797
RC 57.979 GL -4.12 GP 1.65 ZAL 68.54 ZAP 23.67 ETS 185.51 ZAE 151.00 ETE 163.93 ZAC 128.03 ETC 21.30 CLP 23.61
PLANETOCENTRIC CONIC
C3 127.290 VHL 11.282 DLA .24 RAL 169.04 RAD 6570.4 VEL 15.768 PTH 2.80 VHP 21.033 DPA 20.60 RAP 139.17 ECC 3.0949

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 47 34	2661.66	-27.32	71.80	62.06	97.76	7 31 56	2061.7	-25.96	63.40
90.00	18 49 9	5290.83	27.18	239.69	61.83	81.73	20 17 20	4690.8	25.75	231.31
100.00	8 9 2	2398.92	-28.82	52.24	61.82	98.28	8 49 1	1798.9	-27.38	43.74
100.00	20 10 23	5028.80	28.68	220.17	61.57	81.19	21 34 12	4428.8	27.17	211.69
110.00	9 17 32	2184.50	-32.91	35.21	61.06	99.79	9 53 56	1584.5	-31.21	26.40
110.00	21 18 23	4815.99	32.77	203.21	60.77	79.66	22 38 39	4216.0	30.99	194.44

DIFFERENTIAL CORRECTIONS
TDE .6322 TRA-1.5411 TC3 -.1133 BAU .1988
RDE -.7936 RRA -.4248 RC3 .0284 FAU .01441
FDE -.3545 FRA .6298 FC3 -.0980 BSP 2366
BDE 1.0146 BRA 1.5986 BC3 .1168 FSP -80

MID-COURSE EXECUTION ACCURACY
SGT 883.7 SGR 461.6 SG3 37.0
RRT .0566 RRF -.0537 RTF -.6643
SGB 997.0 R23 -.0021 R13 -.6645
SG1 884.2 SG2 460.6 THA 2.32

ORBIT DETERMINATION ACCURACY
ST 397.8 SR 408.2 SS 370.9
CRT -.7033 CRS -.7962 CST .9886
LSA 638.8 MSA 232.8 SSA 14.3
EL1 526.0 EL2 219.4 ALF 133.95

LAUNCH DATE MAY 20 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 4 1967

HELIOCENTRIC CONIC DISTANCE 157.654
RL 151.37 LAL -.00 LOL 238.31 VL 20.073 GAL 12.71 AZL 92.53 HCA 56.58 SMA 98.27 ECC .57124 INC 2.5323 V1 29.434
RP 108.92 LAP -2.11 LOP 294.87 VP 32.962 GAP -34.35 AZP 91.40 TAL 170.06 TAP 226.64 RCA 42.13 APO 154.40 V2 34.793
RC 56.154 GL -4.63 GP 1.70 ZAL 67.67 ZAP 22.18 ETS 185.85 ZAE 152.05 ETE 162.13 ZAC 126.44 ETC 20.79 CLP 22.12
PLANETOCENTRIC CONIC
C3 114.713 VHL 10.710 DLA -.58 RAL 169.65 RAD 6570.2 VEL 15.364 PTH 2.75 VHP 20.154 DPA 20.20 RAP 140.90 ECC 2.8879

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 56 4	2615.56	-26.85	68.51	60.71	99.35	7 39 40	2015.6	-25.29	60.19
90.00	18 45 30	5295.56	27.22	240.03	61.27	81.89	20 13 46	4695.6	25.82	231.64
100.00	8 17 9	2354.05	-28.34	48.99	60.42	99.93	8 56 23	1754.0	-26.68	40.59
100.00	20 7 7	5032.31	28.72	220.42	61.02	81.32	21 30 59	4432.3	27.22	211.94
110.00	9 24 46	2142.36	-32.38	32.03	59.53	101.60	10 0 29	1542.4	-30.45	23.35
110.00	21 15 59	4816.76	32.77	203.27	60.23	79.70	22 36 16	4216.8	31.01	194.49

DIFFERENTIAL CORRECTIONS
TDE .6333 TRA-1.5369 TC3 -.1164 BAU .1855
RDE -.7564 RRA -.4085 RC3 .0327 FAU .01472
FDE -.3716 FRA .6498 FC3 -.1111 BSP 2525
BDE .9865 BRA 1.5903 BC3 .1209 FSP -88

MID-COURSE EXECUTION ACCURACY
SGT 923.6 SGR 465.2 SG3 40.2
RRT .0585 RRF -.0563 RTF -.6829
SGB 1034.1 R23 -.0029 R13 -.6831
SG1 924.1 SG2 464.1 THA 2.26

ORBIT DETERMINATION ACCURACY
ST 419.1 SR 409.9 SS 391.1
CRT -.7038 CRS -.7992 CST .9881
LSA 663.6 MSA 236.9 SSA 14.5
EL1 541.1 EL2 225.5 ALF 135.91

LAUNCH DATE MAY 20 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 6 1967

HELIOCENTRIC CONIC DISTANCE 163.875

RL	151.37	LAL	-.00	LOL	238.31	VL	20.607	GAL	12.16	AZL	92.61	HCA	59.74	SMA	99.87	ECC	.54632	INC	2.6129	V1	29.434
RP	108.93	LAP	-2.26	LOP	298.03	VP	33.286	GAP	-32.75	AZP	91.32	TAL	169.48	TAP	229.23	RCA	45.31	APO	154.43	V2	34.790
RC	54.407	GL	-5.18	GP	1.77	ZAL	66.88	ZAP	20.71	ETS	186.26	ZAE	153.21	ETE	160.07	ZAC	124.83	ETC	20.30	CLP	20.64

PLANETOCENTRIC CONIC

C3	103.430	VHL	10.170	DLA	-1.40	RAL	170.18	RAD	6570.0	VEL	14.992	PTH	2.70	VHP	19.308	DPA	19.78	RAP	142.63	ECC	2.7022

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 4 18	2568.62	-26.29	65.19	59.25	100.92	7 47 6	1968.6	-24.52	56.97
90.00	18 41 32	5299.61	27.26	240.32	60.58	82.03	20 9 51	4699.6	25.88	231.93
100.00	8 24 59	2308.33	-27.76	45.72	58.92	101.56	9 3 27	1708.3	-25.89	37.42
100.00	20 3 32	5035.13	28.75	220.63	60.34	81.43	21 27 27	4435.1	27.26	212.14
110.00	9 31 44	2099.39	-31.75	28.84	57.91	103.39	10 6 43	1499.4	-29.58	20.30
110.00	21 13 16	4816.83	32.78	203.28	59.56	79.70	22 33 33	4216.8	31.01	194.50

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.6346	TRA	-1.5315	TC3	-.1186	BAU	.1719	SGT	964.8	SGR	468.0	SG3	43.8	ST	441.5	SR	410.9	SS	412.1
RDE	-.7198	RRA	-.3920	RC3	.0375	FAU	.01507	RRT	.0605	RRF	-.0590	RTF	-.7008	CRT	-.7047	CRS	-.8024	CST	.9876
FDE	-.3894	FRA	.6699	FC3	-.1261	BSP	2694	SGB	1072.4	R23	-.0037	R13	-.7010	LSA	689.6	MSA	240.4	SSA	14.7
BDE	.9596	BRA	1.5809	BC3	.1244	FSP	-98	SG1	965.4	SG2	466.9	THA	2.19	EL1	557.1	EL2	231.0	ALF	137.91

LAUNCH DATE MAY 20 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 8 1967

HELIOCENTRIC CONIC DISTANCE 170.162

RL	151.37	LAL	-.00	LOL	238.31	VL	21.105	GAL	11.62	AZL	92.69	HCA	62.90	SMA	101.46	ECC	.52227	INC	2.6884	V1	29.434
RP	108.93	LAP	-2.39	LOP	301.19	VP	33.594	GAP	-31.23	AZP	91.23	TAL	168.94	TAP	231.84	RCA	48.47	APO	154.45	V2	34.787
RC	52.748	GL	-5.76	GP	1.84	ZAL	66.16	ZAP	19.25	ETS	186.76	ZAE	154.48	ETE	157.67	ZAC	123.21	ETC	19.84	CLP	19.16

PLANETOCENTRIC CONIC

C3	93.305	VHL	9.659	DLA	-2.23	RAL	170.64	RAD	6569.8	VEL	14.651	PTH	2.65	VHP	18.491	DPA	19.35	RAP	144.36	ECC	2.5356

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 12 15	2520.83	-25.63	61.84	57.70	102.47	7 54 15	1920.8	-23.66	53.73
90.00	18 37 13	5303.09	27.29	240.57	59.76	82.15	20 5 36	4703.1	25.93	232.17
100.00	8 32 33	2261.78	-27.08	42.43	57.33	103.16	9 10 15	1661.8	-25.00	34.24
100.00	19 59 35	5037.37	28.77	220.79	59.52	81.51	21 23 33	4437.4	27.30	212.30
110.00	9 38 25	2055.61	-31.01	25.64	56.20	105.15	10 12 40	1455.6	-28.62	17.26
110.00	21 10 13	4816.31	32.77	203.24	58.75	79.68	22 30 29	4216.3	31.00	194.46

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.6339	TRA	-1.5273	TC3	-.1204	BAU	.1594	SGT	1008.7	SGR	470.2	SG3	47.6	ST	464.1	SR	411.1	SS	433.9
RDE	-.6839	RRA	-.3755	RC3	.0428	FAU	.01543	RRT	.0639	RRF	-.0622	RTF	-.7171	CRT	-.7041	CRS	-.8054	CST	.9868
FDE	-.4079	FRA	.6905	FC3	-.1432	BSP	2816	SGB	1112.9	R23	-.0037	R13	-.7173	LSA	716.3	MSA	243.7	SSA	15.0
BDE	.9325	BRA	1.5328	BC3	.1278	FSP	-108	SG1	1009.3	SG2	469.0	THA	2.18	EL1	573.2	EL2	236.4	ALF	139.90

LAUNCH DATE MAY 20 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 10 1967

HELIOCENTRIC CONIC DISTANCE 176.508

RL	151.37	LAL	-.00	LOL	238.31	VL	21.570	GAL	11.09	AZL	92.76	HCA	66.07	SMA	103.02	ECC	.49913	INC	2.7597	V1	29.434
RP	108.94	LAP	-2.52	LOP	304.35	VP	33.886	GAP	-29.78	AZP	91.12	TAL	168.42	TAP	234.49	RCA	51.60	APO	154.44	V2	34.786
RC	51.183	GL	-6.38	GP	1.91	ZAL	65.52	ZAP	17.80	ETS	187.38	ZAE	155.84	ETE	154.85	ZAC	121.57	ETC	19.41	CLP	17.70

PLANETOCENTRIC CONIC

C3	84.216	VHL	9.177	DLA	-3.06	RAL	171.01	RAD	6569.6	VEL	14.337	PTH	2.61	VHP	17.704	DPA	18.90	RAP	146.10	ECC	2.3860

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 19 56	2472.22	-24.87	58.49	56.07	103.99	8 1 8	1872.2	-22.70	50.49
90.00	18 32 31	5306.14	27.32	240.79	58.82	82.26	20 0 58	4706.1	25.97	232.38
100.00	8 39 51	2214.43	-26.30	39.12	55.66	104.74	9 16 45	1614.4	-24.02	31.07
100.00	19 55 18	5039.16	28.79	220.92	58.58	81.58	21 19 17	4439.2	27.32	212.42
110.00	9 44 49	2011.05	-30.18	22.44	54.41	106.88	10 18 20	1411.1	-27.57	14.22
110.00	21 6 49	4815.30	32.76	203.16	57.82	79.63	22 27 4	4215.3	30.98	194.39

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.6355	TRA	-1.5199	TC3	-.1201	BAU	.1459	SGT	1053.1	SGR	471.6	SG3	51.7	ST	498.6	SR	410.5	SS	456.9
RDE	-.6486	RRA	-.3590	RC3	.0488	FAU	.01585	RRT	.0663	RRF	-.0653	RTF	-.7336	CRT	-.7054	CRS	-.8087	CST	.9863
FDE	-.4278	FRA	.7110	FC3	-.1630	BSP	2989	SGB	1153.9	R23	-.0046	R13	-.7338	LSA	745.1	MSA	246.0	SSA	15.1
BDE	.9080	BRA	1.5618	BC3	.1296	FSP	-119	SG1	1053.7	SG2	470.3	THA	2.12	EL1	591.1	EL2	240.5	ALF	141.97

LAUNCH DATE MAY 20 1967 FLIGHT TIME 84.00 ARRIVAL DATE AUG 12 1967

HELIOCENTRIC CONIC DISTANCE 182.910

RL	151.37	LAL	-.00	LOL	238.31	VL	22.004	GAL	10.58	AZL	92.83	HCA	69.23	SMA	104.55	ECC	.47691	INC	2.8276	V1	29.434
RP	108.94	LAP	-2.64	LOP	307.52	VP	34.162	GAP	-28.39	AZP	91.00	TAL	167.94	TAP	237.17	RCA	54.69	APO	154.42	V2	34.784
RC	49.723	GL	-7.03	GP	2.00	ZAL	64.95	ZAP	16.36	ETS	188.13	ZAE	157.28	ETE	151.50	ZAC	119.93	ETC	18.99	CLP	16.24

PLANETOCENTRIC CONIC

C3	76.057	VHL	8.721	DLA	-3.90	RAL	171.31	RAD	6569.5	VEL	14.050	PTH	2.56	VHP	16.944	DPA	18.45	RAP	147.83	ECC	2.2517

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 27 22	2422.82	-24.02	55.12	54.36	105.47	8 7 45	1822.8	-21.66	47.24
90.00	18 27 27	5308.90	27.35	240.99	57.75	82.35	19 55 56	4708.9	26.01	232.58
100.00	8 46 53	2166.31	-25.43	35.81	53.91	106.27	9 22 59	1566.3	-22.95	27.89
100.00	19 50 37	5040.64	28.80	221.03	57.52	81.63	21 14 37	4440.6	27.34	212.53
110.00	9 50 57	1965.77	-29.24	19.25	52.57	108.55	10 23 42	1365.8	-26.43	11.20
110.00	21 3 3	4813.95	32.74	203.06	56.76	79.58	22 23 16	4213.9	30.96	194.29

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.6373	TRA	-1.5113	TC3	-.1180	BAU	.1326	SGT	1099.1	SGR	472.2	SG3	56.3	ST	514.3	SR	409.0	SS	481.1
RDE	-.6140	RRA	-.3426	RC3	.0555	FAU	.01632	RRT	.0688	RRF	-.0687	RTF	-.7494	CRT	-.7069	CRS	-.8121	CST	.9858
FDE	-.4489	FRA	.7319	FC3	-.1857	BSP	3170	SGB	1196.3	R23	-.0055	R13	-.7496	LSA	775.7	MSA	247.6	SSA	15.3
BDE	.8850	BRA	1.5496	BC3	.1304	FSP	-131	SG1	1099.7	SG2	470.8	THA	2.07	EL1	610.2	EL2	243.8	ALF	144.05

```
LAUNCH DATE  MAY 20 1967                          FLIGHT TIME  86.00                          ARRIVAL DATE  AUG 14 1967

 HELIOCENTRIC CONIC                                DISTANCE 189.362
  RL  151.37 LAL   -.00 LOL 238.31 VL  22.408 GAL  10.07 AZL  92.89 HCA  72.39 SMA 106.05 ECC .45562 INC 2.8928 VI  29.434
  RP  108.94 LAP  -2.76 LOP 310.68 VP  34.424 GAP -27.06 AZP  90.88 TAL 167.50 TAP 239.88 RCA  57.73 APO 154.38 V2  34.784
  RC  48.377 GL   -7.72 GP    2.09 ZAL  64.47 ZAP  14.93 ETS 189.08 ZAE 158.77 ETE 147.50 ZAC 118.27 ETC  18.60 CLP  14.79
 PLANETOCENTRIC CONIC
  C3  68.734 VHL  8.291 DLA  -4.74 RAL 171.52 RAO 6569.3 VEL 13.787 PTH   2.52 VHP 16.211 DPA  17.99 RAP 149.56 ECC 2.1312
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     7 34 34   2372.67     -23.06     51.75      52.58      106.90    8 14  6    1772.7     -20.53      43.99
     90.00    18 21 57   5311.53      27.37    241.18      56.58       82.45   19 50 28    4711.5      26.04     232.76
    100.00     8 53 41   2117.46     -24.46     32.51      52.11      107.75    9 28 58    1517.5     -21.80      24.72
    100.00    19 45 31   5041.97      28.81    221.12      56.35       81.68   21  9 33    4442.0      27.36     212.62
    110.00     9 56 49   1919.81     -28.20     16.08      50.67      110.17   10 28 48    1319.8     -25.19       8.19
    110.00    20 58 53   4812.39      32.72    202.94      55.59       79.51   22 19  5    4212.4      30.93     194.18
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE  .6394 TRA-1.5012 TC3 -.1139 BAU  .1196      SGT 1146.6 SGR  472.1 SG3   61.2            ST   541.2 SR   406.6 SS   506.6
  RDE -.5801 RRA -.3264 RC3  .0629 FAU .01683      RRT  .0716 RRF -.0724 RTF -.7644             CRT -.7088 CRS -.8156 CST  .9853
  FDE -.4715 FRA  .7531 FC3 -.2120 BSP   3350      SGB 1240.0 R23 -.0066 R13 -.7646             LSA  808.0 MSA  248.5 SSA   15.5
  BDE  .8634 BRA 1.5363 BC3  .1301 FSP   -145      SGI 1147.2 SG2  470.6 THA   2.03           EL1  630.6 EL2  246.2 ALF 146.11

LAUNCH DATE  MAY 20 1967                          FLIGHT TIME  88.00                          ARRIVAL DATE  AUG 16 1967

 HELIOCENTRIC CONIC                                DISTANCE 195.860
  RL  151.37 LAL   -.00 LOL 238.31 VL  22.785 GAL   9.59 AZL  92.96 HCA  75.55 SMA 107.52 ECC .43528 INC 2.9557 VI  29.434
  RP  108.94 LAP  -2.86 LOP 313.84 VP  34.671 GAP -25.79 AZP  90.74 TAL 167.09 TAP 242.64 RCA  60.72 APO 154.32 V2  34.784
  RC  47.155 GL   -8.45 GP    2.19 ZAL  64.06 ZAP  13.51 ETS 190.28 ZAE 160.27 ETE 142.66 ZAC 116.61 ETC  18.23 CLP  13.33
 PLANETOCENTRIC CONIC
  C3  62.163 VHL  7.884 DLA  -5.59 RAL 171.65 RAO 6569.2 VEL 13.547 PTH   2.48 VHP 15.503 DPA  17.53 RAP 151.29 ECC 2.0230
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     7 41 32   2321.81     -22.02     48.39      50.76      108.27    8 20 14    1721.8     -19.32      40.76
     90.00    18 16  0   5314.21      27.40    241.37      55.29       82.54   19 44 35    4714.2      26.08     232.95
    100.00     9  0 14   2067.93     -23.39     29.22      50.25      109.17    9 34 42    1467.9     -20.56      21.57
    100.00    19 40  0   5043.32      28.83    221.22      55.07       81.73   21  4  3    4443.3      27.38     212.72
    110.00    10  2 25   1873.24     -27.07     12.93      48.74      111.72   10 33 38    1273.2     -23.87       5.22
    110.00    20 54 18   4810.78      32.70    202.82      54.32       79.44   22 14 29    4210.8      30.90     194.06
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE  .6422 TRA-1.4891 TC3 -.1070 BAU  .1068      SGT 1195.2 SGR  471.1 SG3   66.7            ST   569.4 SR   403.3 SS   533.7
  RDE -.5470 RRA -.3104 RC3  .0711 FAU .01740      RRT  .0746 RRF -.0765 RTF -.7789             CRT -.7113 CRS -.8193 CST  .9849
  FDE -.4958 FRA  .7745 FC3 -.2424 BSP   3548      SGB 1284.7 R23 -.0078 R13 -.7791             LSA  842.4 MSA  248.6 SSA   15.6
  BDE  .8436 BRA 1.5211 BC3  .1285 FSP   -161      SGI 1195.8 SG2  469.6 THA   1.99           EL1  652.5 EL2  247.4 ALF 148.16

LAUNCH DATE  MAY 20 1967                          FLIGHT TIME  90.00                          ARRIVAL DATE  AUG 18 1967

 HELIOCENTRIC CONIC                                DISTANCE 202.398
  RL  151.37 LAL   -.00 LOL 238.31 VL  23.137 GAL   9.12 AZL  93.02 HCA  78.71 SMA 108.95 ECC .41587 INC 3.0168 VI  29.434
  RP  108.94 LAP  -2.96 LOP 317.01 VP  34.904 GAP -24.57 AZP  90.59 TAL 166.72 TAP 245.43 RCA  63.64 APO 154.25 V2  34.785
  RC  46.068 GL   -9.22 GP    2.30 ZAL  63.74 ZAP  12.10 ETS 191.83 ZAE 161.73 ETE 136.77 ZAC 114.95 ETC  17.88 CLP  11.88
 PLANETOCENTRIC CONIC
  C3  56.270 VHL  7.501 DLA  -6.46 RAL 171.69 RAO 6569.0 VEL 13.328 PTH  -2.44 VHP 14.820 DPA  17.06 RAP 153.01 ECC 1.9261
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     7 48 17   2270.29     -20.88     45.04      48.88      109.57    8 26  7    1670.3     -18.02      37.53
     90.00    18  9 36   5317.13      27.42    241.58      53.91       82.64   19 38 13    4717.1      26.12     233.15
    100.00     9  6 33   2017.79     -22.23     25.95      48.35      110.52    9 40 11    1417.8     -19.24      18.43
    100.00    19 34  1   5044.86      28.84    221.33      53.68       81.79   20 58  6    4444.9      27.41     212.82
    110.00    10  7 46   1826.13     -25.84      9.81      46.77      113.20   10 38 12    1226.1     -22.48       2.27
    110.00    20 49 17   4809.29      32.68    202.71      52.94       79.38   22  9 26    4209.3      30.87     193.95
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE  .6428 TRA-1.4784 TC3 -.0994 BAU  .0960      SGT 1246.9 SGR  469.4 SG3   72.6            ST   597.8 SR   399.0 SS   562.0
  RDE -.5147 RRA -.2948 RC3  .0801 FAU .01801      RRT  .0796 RRF -.0815 RTF -.7915             CRT -.7122 CRS -.8228 CST  .9841
  FDE -.5216 FRA  .7969 FC3 -.2771 BSP   3681      SGB 1332.3 R23 -.0082 R13 -.7917             LSA  877.7 MSA  248.6 SSA   15.8
  BDE  .8235 BRA 1.5075 BC3  .1276 FSP   -176      SGI 1247.5 SG2  467.7 THA   2.00           EL1  674.5 EL2  248.2 ALF 150.12

LAUNCH DATE  MAY 20 1967                          FLIGHT TIME  92.00                          ARRIVAL DATE  AUG 20 1967

 HELIOCENTRIC CONIC                                DISTANCE 208.972
  RL  151.37 LAL   -.00 LOL 238.31 VL  23.465 GAL   8.66 AZL  93.08 HCA  81.87 SMA 110.33 ECC .39738 INC 3.0766 VI  29.434
  RP  108.93 LAP  -3.05 LOP 320.17 VP  35.124 GAP -23.40 AZP  90.44 TAL 166.40 TAP 248.27 RCA  66.49 APO 154.17 V2  34.787
  RC  45.125 GL  -10.04 GP    2.42 ZAL  63.50 ZAP  10.69 ETS 193.87 ZAE 163.07 ETE 129.64 ZAC 113.29 ETC  17.54 CLP  10.42
 PLANETOCENTRIC CONIC
  C3  50.989 VHL  7.141 DLA  -7.33 RAL 171.65 RAO 6568.9 VEL 13.128 PTH   2.40 VHP 14.160 DPA  16.59 RAP 154.72 ECC 1.8391
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     7 54 49   2218.17     -19.66     41.71      46.97      110.80    8 31 48    1618.2     -16.65      34.32
     90.00    18  2 41   5320.48      27.45    241.82      52.43       82.76   19 31 22    4720.5      26.16     233.39
    100.00     9 12 39   1967.10     -20.98     22.70      46.42      111.79    9 45 26    1367.1     -17.84      15.31
    100.00    19 27 33   5046.79      28.86    221.47      52.21       81.86   20 51 39    4446.8      27.44     212.96
    110.00    10 12 52   1778.56     -24.53      6.74      44.78      114.59   10 42 31    1178.6     -21.00     359.37
    110.00    20 43 49   4808.10      32.67    202.62      51.48       79.32   22  3 57    4208.1      30.85     193.87
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE  .6464 TRA-1.4635 TC3 -.0868 BAU  .0852      SGT 1298.5 SGR  466.9 SG3   79.2            ST   628.6 SR   393.6 SS   592.5
  RDE -.4832 RRA -.2795 RC3  .0900 FAU .01871      RRT  .0836 RRF -.0867 RTF -.8045             CRT -.7153 CRS -.8267 CST  .9838
  FDE -.5501 FRA  .8194 FC3 -.3177 BSP   3877      SGB 1379.9 R23 -.0096 R13 -.8047             LSA  916.4 MSA  247.3 SSA   16.0
  BDE  .8070 BRA 1.4900 BC3  .1250 FSP   -195      SGI 1299.2 SG2  465.0 THA   1.98           EL1  699.2 EL2  247.3 ALF 152.08
```

LAUNCH DATE MAY 20 1967 FLIGHT TIME 94.00 ARRIVAL DATE AUG 22 1967

HELIOCENTRIC CONIC DISTANCE 215.579

RL	151.37	LAL	-.00	LOL	238.31	VL	23.770	GAL	8.22	AZL	93.14	HCA	85.03	SMA	111.67	ECC	.37982	INC	3.1355	V1	29.434
RP	108.93	LAP	-3.12	LOP	323.34	VP	35.331	GAP	-22.28	AZP	90.27	TAL	166.12	TAP	251.15	RCA	69.25	APO	154.08	V2	34.790
RC	44.335	GL	-10.91	GP	2.56	ZAL	63.35	ZAP	9.31	ETS	196.64	ZAE	164.20	ETE	121.09	ZAC	111.63	ETC	17.23	CLP	8.95

PLANETOCENTRIC CONIC

C3	46.259	VHL	6.801	DLA	-8.21	RAL	171.51	RAD	6568.7	VEL	12.947	PTH	2.36	VHP	13.523	DPA	16.12	RAP	156.42	ECC	1.7613		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 1 11	2165.52	-18.35	38.40	45.04	111.95	8 37 16	1565.5	-15.21	31.13
90.00	17 55 15	5324.48	27.48	242.11	50.87	82.90	19 23 59	4724.5	26.22	233.67
100.00	9 18 33	1915.92	-19.66	19.47	44.47	112.99	9 50 29	1315.9	-16.37	18.22
100.00	19 20 34	5049.31	28.89	221.66	50.66	81.95	20 44 43	4449.3	27.47	213.14
110.00	10 17 44	1730.61	-23.14	3.71	42.77	115.89	10 46 35	1130.6	-19.46	356.50
110.00	20 37 52	4807.38	32.66	202.56	49.93	79.29	21 58 0	4207.4	30.84	193.82

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.6505	TRA	-1.4469	TC3	-.0705	BAU	.0761	SGT	1351.3	SGR	463.5	SG3	86.4	ST	660.9	SR	387.1	SS	625.0
RDE	-.4524	RRA	-.2647	RC3	.1009	FAU	.01949	RRT	.0885	RRF	-.0928	RTF	-.8168	CRT	-.7188	CRS	-.8306	CST	.9835
FDE	-.5811	FRA	.8424	FC3	-.3647	BSP	4073	SGB	1428.6	R23	-.0111	R13	-.8170	LSA	957.5	MSA	245.2	SSA	16.1
BDE	.7924	BRA	1.4709	BC3	.1231	FSP	-216	SG1	1352.0	SG2	461.5	THA	1.97	EL1	725.6	EL2	245.1	ALF	153.98

LAUNCH DATE MAY 20 1967 FLIGHT TIME 96.00 ARRIVAL DATE AUG 24 1967

HELIOCENTRIC CONIC DISTANCE 222.212

RL	151.37	LAL	-.00	LOL	238.31	VL	24.054	GAL	7.79	AZL	93.19	HCA	88.19	SMA	112.96	ECC	.36317	INC	3.1938	V1	29.434
RP	108.92	LAP	-3.19	LOP	326.50	VP	35.526	GAP	-21.20	AZP	90.10	TAL	165.88	TAP	254.07	RCA	71.94	APO	153.98	V2	34.793
RC	43.707	GL	-11.82	GP	2.70	ZAL	63.29	ZAP	7.94	ETS	200.52	ZAE	165.00	ETE	111.16	ZAC	109.97	ETC	16.93	CLP	7.47

PLANETOCENTRIC CONIC

C3	42.028	VHL	6.483	DLA	-9.11	RAL	171.28	RAD	6568.6	VEL	12.783	PTH	2.33	VHP	12.908	DPA	15.66	RAP	158.11	ECC	1.6917		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 7 22	2112.40	-16.96	35.11	43.08	113.02	8 42 34	1512.4	-13.70	27.96
90.00	17 47 15	5329.33	27.52	242.46	49.23	83.07	19 16 4	4729.3	26.28	234.01
100.00	9 24 15	1864.34	-18.25	16.29	42.49	114.09	9 55 20	1264.3	-14.85	9.15
100.00	19 13 3	5052.62	28.92	221.90	49.03	82.08	20 37 15	4452.6	27.52	213.37
110.00	10 22 22	1682.39	-21.67	.74	40.75	117.11	10 50 24	1082.4	-17.86	353.68
110.00	20 31 26	4807.34	32.66	202.56	48.31	79.29	21 51 33	4207.3	30.84	193.81

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.6554	TRA	-1.4289	TC3	-.0501	BAU	.0693	SGT	1405.5	SGR	459.4	SG3	94.3	ST	694.8	SR	379.5	SS	659.8
RDE	-.4225	RRA	-.2504	RC3	.1127	FAU	.02035	RRT	.0942	RRF	-.1000	RTF	-.8284	CRT	-.7226	CRS	-.8345	CST	.9832
FDE	-.6152	FRA	.8662	FC3	-.4192	BSP	4268	SGB	1478.7	R23	-.0127	R13	-.8286	LSA	1001.5	MSA	242.4	SSA	16.2
BDE	.7798	BRA	1.4506	BC3	.1234	FSP	-238	SG1	1406.3	SG2	457.1	THA	1.97	EL1	753.8	EL2	241.8	ALF	155.82

LAUNCH DATE MAY 20 1967 FLIGHT TIME 98.00 ARRIVAL DATE AUG 26 1967

HELIOCENTRIC CONIC DISTANCE 228.869

RL	151.37	LAL	-.00	LOL	238.31	VL	24.318	GAL	7.38	AZL	93.25	HCA	91.36	SMA	114.20	ECC	.34740	INC	3.2519	V1	29.434
RP	108.90	LAP	-3.25	LOP	329.67	VP	35.709	GAP	-20.16	AZP	89.92	TAL	165.68	TAP	257.04	RCA	74.53	APO	153.87	V2	34.797
RC	43.245	GL	-12.78	GP	2.87	ZAL	63.32	ZAP	6.63	ETS	206.18	ZAE	165.35	ETE	100.22	ZAC	108.32	ETC	16.64	CLP	5.98

PLANETOCENTRIC CONIC

C3	38.247	VHL	6.184	DLA	-10.02	RAL	170.96	RAD	6568.5	VEL	12.634	PTH	2.29	VHP	12.314	DPA	15.21	RAP	159.79	ECC	1.6294		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 13 24	2058.86	-15.51	31.86	41.11	113.99	8 47 43	1458.9	-12.14	24.80
90.00	17 38 40	5335.26	27.57	242.88	47.53	83.28	19 7 35	4735.3	26.35	234.43
100.00	9 29 47	1812.42	-16.78	13.13	40.51	115.11	10 0 0	1212.4	-13.26	6.11
100.00	19 4 58	5056.93	28.96	222.21	47.33	82.24	20 29 15	4456.9	27.58	213.68
110.00	10 26 46	1633.97	-20.14	357.81	38.73	118.22	10 54 0	1034.0	-16.21	350.90
110.00	20 24 28	4808.15	32.67	202.62	46.63	79.33	21 44 36	4208.1	30.85	193.87

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.6611	TRA	-1.4087	TC3	-.0250	BAU	.0655	SGT	1460.3	SGR	454.5	SG3	103.1	ST	730.2	SR	370.6	SS	697.1
RDE	-.3934	RRA	-.2367	RC3	.1256	FAU	.02130	RRT	.1010	RRF	-.1084	RTF	-.8394	CRT	-.7268	CRS	-.8384	CST	.9831
FDE	-.6528	FRA	.8906	FC3	-.4822	BSP	4470	SGB	1529.4	R23	-.0147	R13	-.8396	LSA	1048.4	MSA	238.9	SSA	16.4
BDE	.7693	BRA	1.4284	BC3	.1281	FSP	-264	SG1	1461.1	SG2	451.9	THA	1.99	EL1	783.8	EL2	237.1	ALF	157.59

LAUNCH DATE MAY 20 1967 FLIGHT TIME 100.00 ARRIVAL DATE AUG 28 1967

HELIOCENTRIC CONIC DISTANCE 235.545

RL	151.37	LAL	-.00	LOL	238.31	VL	24.564	GAL	6.98	AZL	93.31	HCA	94.52	SMA	115.39	ECC	.33251	INC	3.3102	V1	29.434
RP	108.89	LAP	-3.30	LOP	332.84	VP	35.881	GAP	-19.16	AZP	89.74	TAL	165.53	TAP	260.05	RCA	77.02	APO	153.76	V2	34.801
RC	42.956	GL	-13.79	GP	3.05	ZAL	63.44	ZAP	5.41	ETS	214.81	ZAE	165.20	ETE	88.98	ZAC	106.69	ETC	16.37	CLP	4.47

PLANETOCENTRIC CONIC

C3	34.873	VHL	5.905	DLA	-10.95	RAL	170.55	RAD	6568.4	VEL	12.500	PTH	2.26	VHP	11.741	DPA	14.77	RAP	161.44	ECC	1.5739		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 19 18	2004.97	-13.99	28.63	39.14	114.87	8 52 43	1405.0	-10.52	21.67
90.00	17 29 28	5342.49	27.63	243.40	45.78	83.53	18 58 30	4742.5	26.45	234.94
100.00	9 35 10	1760.24	-15.25	10.02	38.52	116.03	10 4 30	1160.2	-11.63	3.10
100.00	18 56 17	5062.45	29.01	222.62	45.58	82.44	20 20 40	4462.5	27.66	214.07
110.00	10 30 59	1585.45	-18.55	354.95	36.71	119.24	10 57 24	985.5	-14.51	348.16
110.00	20 16 58	4810.00	32.69	202.76	44.90	79.41	21 37 8	4210.0	30.89	194.01

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.6676	TRA	-1.3871	TC3	.0050	BAU	.0651	SGT	1516.1	SGR	448.8	SG3	112.8	ST	767.3	SR	360.4	SS	737.2
RDE	-.3651	RRA	-.2236	RC3	.1395	FAU	.02236	RRT	.1094	RRF	-.1184	RTF	-.8496	CRT	-.7312	CRS	-.8422	CST	.9830
FDE	-.6944	FRA	.9160	FC3	-.5551	BSP	4669	SGB	1581.1	R23	-.0168	R13	-.8499	LSA	1098.5	MSA	234.8	SSA	16.5
BDE	.7609	BRA	1.4050	BC3	.1396	FSP	-292	SG1	1517.0	SG2	445.9	THA	2.03	EL1	815.5	EL2	231.3	ALF	159.30

LAUNCH DATE MAY 20 1967 FLIGHT TIME 102.00 ARRIVAL DATE AUG 30 1967

HELIOCENTRIC CONIC DISTANCE 242.236

RL	151.37	LAL	-.00	LOL	238.31	VL	24.792	GAL	6.61	AZL	93.37	HCA	97.68	SMA	116.53	ECC	.31846	INC	3.3690	V1	29.434
RP	108.87	LAP	-3.34	LOP	336.01	VP	36.043	GAP	-18.20	AZP	89.55	TAL	165.43	TAP	263.11	RCA	79.42	APO	153.65	V2	34.806
RC	42.841	GL	-14.86	GP	3.25	ZAL	63.65	ZAP	4.38	ETS	228.37	ZAE	164.55	ETE	78.29	ZAC	105.06	ETC	16.12	CLP	2.93

PLANETOCENTRIC CONIC

C3	31.868	VHL	5.645	DLA	-11.89	RAL	170.04	RAO	6568.3	VEL	12.379	PTH	2.23	VHP	11.188	DPA	14.35	RAP	163.08	ECC	1.5245

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 25 7	1950.78	-12.42	25.43	37.17	115.65	8 57 37	1350.8	-8.87	18.55
90.00	17 19 36	5351.24	27.69	244.04	43.97	83.85	18 48 47	4751.2	26.55	235.56
100.00	9 40 24	1707.85	-13.66	6.94	36.54	116.85	10 8 52	1107.9	-9.95	.11
100.00	18 47 0	5069.39	29.07	223.12	43.79	82.70	20 11 29	4469.4	27.75	214.57
110.00	10 34 59	1536.94	-16.92	352.14	34.71	120.16	11 0 36	936.9	-12.78	345.47
110.00	20 8 54	4813.07	32.73	202.99	43.12	79.54	21 29 7	4213.1	30.94	194.23

DIFFERENTIAL CORRECTIONS

TDE	.6754	TRA	-1.3635	TC3	.0409	BAU	.0681
RDE	-.3375	RRA	-.2112	RC3	.1545	FAU	.02354
FDE	-.7409	FRA	.9422	FC3	-.6396	BSP	4875
BDE	.7550	BRA	1.3797	BC3	.1598	FSP	-323

MID-COURSE EXECUTION ACCURACY

SGT	1572.3	SGR	442.4	SG3	123.5		
RRT	.1195	RRF	-.1305	RTF	-.8594		
SGB	1633.3	R23	-.0193	R13	-.8596		
SG1	1573.2	SG2	439.0	THA	2.09		

ORBIT DETERMINATION ACCURACY

ST	806.1	SR	348.8	SS	780.5		
CRT	-.7358	CRS	-.8458	CST	.9831		
LSA	1152.2	MSA	230.1	SSA	16.5		
EL1	849.3	EL2	224.2	ALF	160.96		

LAUNCH DATE MAY 20 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 1 1967

HELIOCENTRIC CONIC DISTANCE 248.940

RL	151.37	LAL	-.00	LOL	238.31	VL	25.004	GAL	6.24	AZL	93.43	HCA	100.85	SMA	117.62	ECC	.30525	INC	3.4288	V1	29.434
RP	108.86	LAP	-3.37	LOP	339.18	VP	36.195	GAP	-17.27	AZP	89.35	TAL	165.37	TAP	266.22	RCA	81.72	APO	153.53	V2	34.812
RC	42.900	GL	-15.97	GP	3.48	ZAL	63.94	ZAP	3.74	ETS	248.81	ZAE	163.46	ETE	68.78	ZAC	103.46	ETC	15.87	CLP	1.37

PLANETOCENTRIC CONIC

C3	29.195	VHL	5.403	DLA	-12.85	RAL	169.44	RAO	6568.2	VEL	12.271	PTH	2.21	VHP	10.655	DPA	13.96	RAP	164.70	ECC	1.4805

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 30 51	1896.33	-10.79	22.25	35.20	116.34	9 2 27	1296.3	-7.17	15.45
90.00	17 9 4	5361.73	27.77	244.79	42.13	84.22	18 38 26	4761.7	26.68	236.30
100.00	9 45 32	1655.33	-12.02	3.90	34.57	117.57	10 13 8	1055.3	-8.24	357.15
100.00	18 37 3	5077.95	29.14	223.75	41.96	83.03	20 1 41	4477.9	27.87	215.18
110.00	10 38 49	1488.50	-15.24	349.39	32.71	120.98	11 3 37	888.5	-11.02	342.82
110.00	20 0 16	4817.55	32.78	203.33	41.31	79.73	21 20 34	4217.5	31.02	194.55

DIFFERENTIAL CORRECTIONS

TDE	.6840	TRA	-1.3380	TC3	.0825	BAU	.0740
RDE	-.3105	RRA	-.1996	RC3	.1706	FAU	.02486
FDE	-.7929	FRA	.9695	FC3	-.7372	BSP	5082
BDE	.7512	BRA	1.3528	BC3	.1895	FSP	-358

MID-COURSE EXECUTION ACCURACY

SGT	1628.5	SGR	435.4	SG3	135.3		
RRT	.1319	RRF	-.1451	RTF	-.8685		
SGB	1685.7	R23	-.0220	R13	-.8688		
SG1	1629.6	SG2	431.3	THA	2.17		

ORBIT DETERMINATION ACCURACY

ST	846.6	SR	335.7	SS	827.3		
CRT	-.7403	CRS	-.8490	CST	.9832		
LSA	1209.5	MSA	224.8	SSA	16.6		
EL1	884.7	EL2	216.0	ALF	162.57		

LAUNCH DATE MAY 20 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 3 1967

HELIOCENTRIC CONIC DISTANCE 255.653

RL	151.37	LAL	-.00	LOL	238.31	VL	25.200	GAL	5.90	AZL	93.49	HCA	104.01	SMA	118.66	ECC	.29284	INC	3.4898	V1	29.434
RP	108.84	LAP	-3.39	LOP	342.35	VP	36.337	GAP	-16.37	AZP	89.15	TAL	165.35	TAP	269.37	RCA	83.91	APO	153.41	V2	34.819
RC	43.133	GL	-17.13	GP	3.73	ZAL	64.33	ZAP	3.74	ETS	273.61	ZAE	162.04	ETE	60.74	ZAC	101.88	ETC	15.64	CLP	-.22

PLANETOCENTRIC CONIC

C3	26.824	VHL	5.179	DLA	-13.82	RAL	168.74	RAO	6568.1	VEL	12.174	PTH	2.18	VHP	10.140	DPA	13.59	RAP	166.30	ECC	1.4415

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 36 33	1841.64	-9.12	19.10	33.26	116.92	9 7 15	1241.6	-5.44	12.36
90.00	16 57 49	5374.18	27.85	245.70	40.27	84.66	18 27 23	4774.2	26.82	237.18
100.00	9 50 36	1602.72	-10.35	.89	32.61	118.20	10 17 19	1002.7	-6.50	354.22
100.00	18 26 27	5088.33	29.22	224.51	40.90	83.42	19 51 15	4488.3	28.01	215.92
110.00	10 42 29	1440.22	-13.53	346.69	30.73	121.70	11 6 29	840.2	-9.24	340.22
110.00	19 51 3	4823.60	32.86	203.79	39.49	79.99	21 11 27	4223.6	31.13	194.99

DIFFERENTIAL CORRECTIONS

TDE	.6939	TRA	-1.3118	TC3	.1289	BAU	.0817
RDE	-.2842	RRA	-.1888	RC3	.1878	FAU	.02633
FDE	-.8512	FRA	.9982	FC3	-.8496	BSP	5250
BDE	.7499	BRA	1.3254	BC3	.2278	FSP	-397

MID-COURSE EXECUTION ACCURACY

SGT	1685.5	SGR	427.8	SG3	148.5		
RRT	.1472	RRF	-.1629	RTF	-.8767		
SGB	1738.9	R23	-.0255	R13	-.8770		
SG1	1686.7	SG2	422.8	THA	2.28		

ORBIT DETERMINATION ACCURACY

ST	899.0	SR	321.0	SS	877.8		
CRT	-.7443	CRS	-.8516	CST	.9834		
LSA	1271.1	MSA	219.3	SSA	16.6		
EL1	922.4	EL2	206.7	ALF	164.14		

LAUNCH DATE MAY 20 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 5 1967

HELIOCENTRIC CONIC DISTANCE 262.371

RL	151.37	LAL	-.00	LOL	238.31	VL	25.382	GAL	5.57	AZL	93.55	HCA	107.18	SMA	119.64	ECC	.28121	INC	3.5525	V1	29.434
RP	108.81	LAP	-3.39	LOP	345.53	VP	36.470	GAP	-15.51	AZP	88.95	TAL	165.38	TAP	272.56	RCA	86.00	APO	153.29	V2	34.826
RC	43.534	GL	-18.35	GP	4.02	ZAL	64.80	ZAP	4.42	ETS	294.88	ZAE	160.41	ETE	54.14	ZAC	100.32	ETC	15.42	CLP	-1.85

PLANETOCENTRIC CONIC

C3	24.726	VHL	4.973	DLA	-14.81	RAL	167.96	RAO	6568.0	VEL	12.087	PTH	2.16	VHP	9.645	DPA	13.26	RAP	167.87	ECC	1.4069

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 42 16	1786.73	-7.42	15.97	31.33	117.41	9 12 3	1186.7	-3.69	9.28
90.00	16 45 49	5388.83	27.94	246.76	38.38	85.19	18 15 38	4788.8	26.98	238.22
100.00	9 55 37	1550.06	-8.64	357.91	30.67	118.73	10 21 27	950.1	-4.74	351.30
100.00	18 15 9	5100.74	29.32	225.42	38.23	83.89	19 40 10	4500.7	28.16	216.81
110.00	10 46 1	1392.19	-11.80	344.05	28.78	122.32	11 9 13	792.2	-7.45	337.65
110.00	19 41 14	4831.37	32.95	204.38	37.65	80.33	21 1 46	4231.4	31.26	195.56

DIFFERENTIAL CORRECTIONS

TDE	.7059	TRA	-1.2820	TC3	.1847	BAU	.0915
RDE	-.2584	RRA	-.1790	RC3	.2062	FAU	.02796
FDE	-.9172	FRA	1.0282	FC3	-.9790	BSP	5496
BDE	.7517	BRA	1.2944	BC3	.2768	FSP	-441

MID-COURSE EXECUTION ACCURACY

SGT	1740.7	SGR	419.7	SG3	163.2		
RRT	.1662	RRF	-.1847	RTF	-.8855		
SGB	1790.6	R23	-.0291	R13	-.8858		
SG1	1742.2	SG2	413.5	THA	2.43		

ORBIT DETERMINATION ACCURACY

ST	933.7	SR	304.6	SS	932.8		
CRT	-.7483	CRS	-.8534	CST	.9839		
LSA	1337.5	MSA	213.1	SSA	16.6		
EL1	962.3	EL2	196.0	ALF	165.68		

LAUNCH DATE MAY 20 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 7 1967

HELIOCENTRIC CONIC DISTANCE 269.093

```
RL  151.37 LAL   -.00 LOL 238.31 VL  25.550 GAL   5.26 AZL  93.62 HCA 110.35 SMA 120.57 ECC .27034 INC 3.6175 V1  29.434
RP  108.79 LAP  -3.39 LOP 348.70 VP  36.595 GAP -14.67 AZP  88.74 TAL 165.45 TAP 275.80 RCA  87.98 APO 153.17 V2  34.834
RC  44.099 GL  -19.61 GP    4.34 ZAL  65.36 ZAP   5.59 ETS 309.16 ZAE 158.67 ETE  48.81 ZAC  98.79 ETC  15.21 CLP  -3.52
```

PLANETOCENTRIC CONIC

```
C3  22.875 VHL  4.783 DLA -15.82 RAL 167.08 RAD 6567.9 VEL 12.011 PTH   2.14 VHP  9.167 DPA  12.97 RAP 169.41 ECC 1.3765
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 48 3	1731.57	-5.68	12.85	29.43	117.79	9 16 55	1131.6	-1.91	6.19
90.00	16 33 2	5405.92	28.03	248.00	36.49	85.81	18 3 8	4805.9	27.15	239.44
100.00	10 0 39	1497.35	-6.90	354.96	28.76	119.16	10 25 36	897.3	-2.96	348.39
100.00	18 3 8	5115.37	29.42	226.50	36.36	84.45	19 28 23	4515.4	28.34	217.86
110.00	10 49 27	1344.45	-10.05	341.46	26.85	122.85	11 11 52	744.5	-5.65	335.13
110.00	19 30 49	4841.03	33.06	205.11	35.81	80.75	20 51 30	4241.0	31.43	196.26

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE  .7185 TRA-1.2523 TC3  .2436 BAU  .1016      SGT 1796.2 SGR  411.4 SG3  179.5      ST   979.7 SR   286.2 SS   992.1
ROE -.2328 RRA -.1701 RC3  .2257 FAU .02978      RRT  .1899 RRF -.2116 RTF -.8928      CRT -.7503 CRS -.8537 CST  .9844
FOE -.9917 FRA 1.0599 FC3-1.1270 BSP   5678      SGB 1842.7 R23 -.0336 R13 -.8932      LSA 1408.1 MSA  207.0 SSA   16.5
BOE  .7553 BRA 1.2638 BC3  .3321 FSP   -489      SG1 1797.9 SG2  403.5 THA   2.62      EL1 1003.8 EL2  184.6 ALF 167.20
```

LAUNCH DATE MAY 20 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 9 1967

HELIOCENTRIC CONIC DISTANCE 275.814

```
RL  151.37 LAL   -.00 LOL 238.31 VL  25.705 GAL   4.96 AZL  93.69 HCA 113.52 SMA 121.45 ECC .26020 INC 3.6852 V1  29.434
RP  108.76 LAP  -3.38 LOP 351.88 VP  36.711 GAP -13.86 AZP  88.53 TAL 165.56 TAP 279.08 RCA  89.85 APO 153.05 V2  34.842
RC  44.820 GL  -20.92 GP    4.71 ZAL  65.99 ZAP   7.04 ETS 318.17 ZAE 156.89 ETE  44.55 ZAC  97.30 ETC  15.00 CLP  -5.24
```

PLANETOCENTRIC CONIC

```
C3  21.249 VHL  4.610 DLA -16.84 RAL 166.12 RAD 6567.9 VEL 11.943 PTH   2.13 VHP  8.707 DPA  12.73 RAP 170.92 ECC 1.3497
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 53 59	1676.11	-3.91	9.74	27.57	118.07	9 21 55	1076.1	-.12	3.10
90.00	16 19 26	5425.68	28.12	249.44	34.60	86.52	17 49 51	4825.7	27.34	240.86
100.00	10 5 44	1444.57	-5.14	352.04	26.89	119.49	10 29 48	844.6	-1.18	345.49
100.00	17 50 22	5132.44	29.52	227.75	34.49	85.10	19 15 54	4532.4	28.53	219.09
110.00	10 52 49	1297.06	-8.28	338.92	24.96	123.28	11 14 26	697.1	-3.85	332.64
110.00	19 19 46	4852.72	33.18	206.00	33.97	81.26	20 40 38	4252.7	31.62	197.12

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE  .7347 TRA-1.2181 TC3  .3124 BAU  .1131      SGT 1849.1 SGR  403.1 SG3  197.7      ST  1029.2 SR   265.6 SS  1057.5
ROE -.2074 RRA -.1622 RC3  .2466 FAU .03186      RRT  .2188 RRF -.2443 RTF -.9006      CRT -.7516 CRS -.8524 CST  .9852
FOE-1.0775 FRA 1.0922 FC3-1.2982 BSP   5925      SGB 1892.5 R23 -.0388 R13 -.9011      LSA 1485.9 MSA  200.0 SSA   16.4
BOE  .7634 BRA 1.2289 BC3  .3980 FSP   -546      SG1 1851.3 SG2  392.9 THA   2.86      EL1 1048.9 EL2  171.9 ALF 168.72
```

LAUNCH DATE MAY 20 1967 FLIGHT TIME 114.00 ARRIVAL DATE SEP 11 1967

HELIOCENTRIC CONIC DISTANCE 282.534

```
RL  151.37 LAL   -.00 LOL 238.31 VL  25.849 GAL   4.68 AZL  93.76 HCA 116.69 SMA 122.28 ECC .25077 INC 3.7563 V1  29.434
RP  108.74 LAP  -3.36 LOP 355.06 VP  36.820 GAP -13.08 AZP  88.31 TAL 165.70 TAP 282.39 RCA  91.61 APO 152.94 V2  34.851
RC  45.690 GL  -22.28 GP    5.12 ZAL  66.70 ZAP   8.68 ETS 323.96 ZAE 155.15 ETE  41.17 ZAC  95.85 ETC  14.81 CLP  -7.02
```

PLANETOCENTRIC CONIC

```
C3  19.826 VHL  4.453 DLA -17.87 RAL 165.07 RAD 6567.8 VEL 11.883 PTH   2.11 VHP  8.265 DPA  12.56 RAP 172.39 ECC 1.3263
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 0 8	1620.23	-2.11	6.61	25.75	118.24	9 27 8	1020.2	1.68	359.98
90.00	16 4 57	5448.41	28.20	251.10	32.73	87.35	17 35 45	4848.4	27.54	242.50
100.00	10 10 57	1391.69	-3.36	349.12	25.06	119.72	10 34 9	791.7	.62	342.59
100.00	17 36 49	5152.18	29.63	229.21	32.63	85.86	19 2 41	4552.2	28.74	220.52
110.00	10 56 10	1250.05	-6.52	336.42	23.10	123.63	11 17 0	650.0	-2.06	330.18
110.00	19 8 5	4866.59	33.32	207.06	32.17	81.88	20 29 12	4266.6	31.84	198.14

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE  .7503 TRA-1.1846 TC3  .3831 BAU  .1240      SGT 1901.0 SGR  395.3 SG3  218.1      ST  1078.5 SR   242.6 SS  1128.0
ROE -.1819 RRA -.1554 RC3  .2688 FAU .03416      RRT  .2557 RRF -.2849 RTF -.9072      CRT -.7480 CRS -.8476 CST  .9858
FOE-1.1746 FRA 1.1272 FC3-1.4917 BSP   6111      SGB 1941.6 R23 -.0447 R13 -.9078      LSA 1567.3 MSA  193.9 SSA   16.2
BOE  .7720 BRA 1.1948 BC3  .4680 FSP   -608      SG1 1903.8 SG2  381.6 THA   3.17      EL1 1094.0 EL2  158.7 ALF 170.24
```

LAUNCH DATE MAY 20 1967 FLIGHT TIME 116.00 ARRIVAL DATE SEP 13 1967

HELIOCENTRIC CONIC DISTANCE 289.249

```
RL  151.37 LAL   -.00 LOL 238.31 VL  25.980 GAL   4.41 AZL  93.83 HCA 119.87 SMA 123.05 ECC .24201 INC 3.8315 V1  29.434
RP  108.71 LAP  -3.32 LOP 358.23 VP  36.921 GAP -12.33 AZP  88.09 TAL 165.88 TAP 285.74 RCA  93.27 APO 152.83 V2  34.860
RC  46.700 GL  -23.67 GP    5.59 ZAL  67.47 ZAP  10.47 ETS 327.80 ZAE 153.48 ETE  38.52 ZAC  94.45 ETC  14.61 CLP  -8.86
```

PLANETOCENTRIC CONIC

```
C3  18.589 VHL  4.312 DLA -18.92 RAL 163.95 RAD 6567.8 VEL 11.831 PTH   2.10 VHP  7.840 DPA  12.46 RAP 173.83 ECC 1.3059
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 6 37	1563.75	-.29	3.46	23.99	118.32	9 32 41	963.8	3.50	356.83
90.00	15 49 32	5474.46	28.27	253.00	30.87	88.30	17 20 46	4874.5	27.74	244.38
100.00	10 16 24	1338.60	-1.57	346.20	23.28	119.86	10 38 42	738.6	2.42	339.68
100.00	17 22 27	5174.84	29.73	230.89	30.80	86.74	18 48 41	4574.8	28.96	222.17
110.00	10 59 32	1203.40	-4.75	333.96	21.30	123.89	11 19 36	603.4	-.27	327.75
110.00	18 55 47	4882.81	33.47	208.30	30.39	82.60	20 17 10	4282.8	32.08	199.34

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE  .7668 TRA-1.1501 TC3  .4560 BAU  .1347      SGT 1950.2 SGR  388.5 SG3  240.8      ST  1128.4 SR   216.8 SS  1204.2
ROE -.1560 RRA -.1498 RC3  .2927 FAU .03671      RRT  .3010 RRF -.3346 RTF -.9132      CRT -.7378 CRS -.8373 CST  .9864
FOE-1.2853 FRA 1.1645 FC3-1.7099 BSP   6288      SGB 1988.5 R23 -.0519 R13 -.9138      LSA 1653.7 MSA  188.0 SSA   15.9
BOE  .7825 BRA 1.1598 BC3  .5419 FSP   -677      SG1 1953.8 SG2  369.8 THA   3.56      EL1 1139.9 EL2  144.9 ALF 171.80
```

LAUNCH DATE MAY 20 1967 FLIGHT TIME 118.00 ARRIVAL DATE SEP 15 1967

HELIOCENTRIC CONIC DISTANCE 295.957

```
RL  151.37 LAL   -.00 LOL 238.31 VL  26.102 GAL   4.16 AZL  93.91 HCA 123.04 SMA 123.78 ECC .23390 INC 3.9117 V1  29.434
RP  108.68 LAP  -3.28 LOP   1.42 VP  37.016 GAP -11.60 AZP  87.86 TAL 166.08 TAP 289.13 RCA  94.83 APO 152.73 V2  34.870
RC   47.841 GL  -25.10 GP    6.14 ZAL  68.30 ZAP  12.38 ETS 330.41 ZAE 151.93 ETE  36.48 ZAC  93.10 ETC  14.42 CLP -10.77
```

PLANETOCENTRIC CONIC

```
C3  17.522 VHL  4.186 DLA -19.98 RAL 162.77 RAD 6567.7 VEL 11.786 PTH   2.08 VHP  7.433 DPA  12.45 RAP 175.23 ECC 1.2884
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 13 36	1506.38	1.56	.26	22.30	118.28	9 38 42	906.4	5.33	353.61
90.00	15 33 4	5504.24	28.31	255.18	29.05	89.39	17 4 49	4904.2	27.93	246.53
100.00	10 22 10	1285.11	.25	343.27	21.57	119.89	10 43 35	685.1	4.22	336.73
100.00	17 7 11	5200.75	29.82	232.81	29.01	87.75	18 33 52	4600.7	29.18	224.06
110.00	11 3 1	1157.08	-2.99	331.54	19.55	124.07	11 22 18	557.1	1.50	325.33
110.00	18 42 50	4901.54	33.62	209.74	28.66	83.44	20 4 31	4301.5	32.35	200.74

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE   .7843 TRA-1.1145 TC3   .5300 BAU  .1448    SGT 1996.0 SGR  383.8 SG3  266.2      ST  1178.8 SR   188.1 SS  1287.0
ROE  -.1292 RRA -.1456 RC3   .3183 FAU .03955    RRT   .3560 RRF -.3943 RTF -.9186    CRT -.7158 CRS -.8169 CST   .9871
FOE-1.4123 FRA 1.2045 FC3-1.9540 BSP   6446    SGB 2032.6 R23 -.0604 R13 -.9194      LSA 1745.8 MSA  182.6 SSA   15.5
BOE   .7948 BRA 1.1240 BC3   .6183 FSP   -755    SG1 2000.8 SG2  357.7 THA   4.05     EL1 1186.6 EL2  130.5 ALF 173.40
```

LAUNCH DATE MAY 20 1967 FLIGHT TIME 120.00 ARRIVAL DATE SEP 17 1967

HELIOCENTRIC CONIC DISTANCE 302.657

```
RL  151.37 LAL   -.00 LOL 238.31 VL  26.213 GAL   3.93 AZL  94.00 HCA 126.22 SMA 124.45 ECC .22641 INC 3.9980 V1  29.434
RP  108.64 LAP  -3.22 LOP   4.60 VP  37.104 GAP -10.89 AZP  87.64 TAL 166.32 TAP 292.54 RCA  96.27 APO 152.63 V2  34.881
RC   49.103 GL  -26.57 GP    6.77 ZAL  69.17 ZAP  14.43 ETS 332.21 ZAE 150.52 ETE  34.99 ZAC  91.81 ETC  14.23 CLP -12.77
```

PLANETOCENTRIC CONIC

```
C3  16.611 VHL  4.076 DLA -21.06 RAL 161.52 RAD 6567.7 VEL 11.747 PTH   2.07 VHP  7.043 DPA  12.54 RAP 176.59 ECC 1.2734
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 21 16	1447.67	3.45	356.98	20.70	118.12	9 45 23	847.7	7.19	350.29
90.00	15 15 26	5538.34	28.31	257.67	27.26	90.64	16 47 44	4938.3	28.10	249.01
100.00	10 28 25	1230.94	2.08	340.29	19.94	119.83	10 48 56	630.9	6.04	333.74
100.00	16 50 58	5230.30	29.87	235.00	27.26	88.90	18 18 8	4630.3	29.40	226.23
110.00	11 6 41	1111.01	-1.23	329.13	17.87	124.16	11 25 12	511.0	3.26	322.93
110.00	18 29 11	4923.00	33.78	211.40	26.99	84.41	19 51 14	4323.0	32.63	202.35

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE   .8031 TRA-1.0771 TC3   .6052 BAU  .1548    SGT 2037.4 SGR  382.3 SG3  294.6      ST  1229.6 SR   156.1 SS  1376.8
ROE  -.1010 RRA -.1429 RC3   .3463 FAU .04274    RRT   .4214 RRF -.4648 RTF -.9237    CRT -.6703 CRS -.7758 CST   .9879
FOE-1.5585 FRA 1.2465 FC3-2.2277 BSP   6598    SGB 2073.0 R23 -.0706 R13 -.9248      LSA 1844.0 MSA  177.4 SSA   15.1
BOE   .8095 BRA 1.0866 BC3   .6973 FSP   -842    SG1 2043.9 SG2  345.6 THA   4.65     EL1 1234.1 EL2  115.5 ALF 175.09
```

LAUNCH DATE MAY 20 1967 FLIGHT TIME 122.00 ARRIVAL DATE SEP 19 1967

HELIOCENTRIC CONIC DISTANCE 309.348

```
RL  151.37 LAL   -.00 LOL 238.31 VL  26.314 GAL   3.71 AZL  94.09 HCA 129.40 SMA 125.08 ECC .21953 INC 4.0916 V1  29.434
RP  108.61 LAP  -3.16 LOP   7.78 VP  37.186 GAP -10.21 AZP  87.40 TAL 166.57 TAP 295.97 RCA  97.62 APO 152.54 V2  34.891
RC   50.476 GL  -28.08 GP    7.50 ZAL  70.08 ZAP  16.61 ETS 333.43 ZAE 149.25 ETE  33.99 ZAC  90.58 ETC  14.04 CLP -14.87
```

PLANETOCENTRIC CONIC

```
C3  15.845 VHL  3.981 DLA -22.15 RAL 160.21 RAD 6567.6 VEL 11.715 PTH   2.06 VHP  6.670 DPA  12.77 RAP 177.91 ECC 1.2608
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 29 54	1386.88	5.39	353.57	19.20	117.84	9 53 1	786.9	9.08	346.83
90.00	14 56 24	5577.61	28.25	260.54	25.53	92.08	16 29 21	4977.6	28.24	251.88
100.00	10 35 21	1175.65	3.95	337.25	18.40	119.65	10 54 56	575.7	7.87	330.66
100.00	16 33 38	5264.07	29.89	237.51	25.56	90.22	18 1 22	4664.1	29.60	228.72
110.00	11 10 38	1065.02	.53	326.73	16.27	124.18	11 28 23	465.0	5.01	320.51
110.00	18 14 50	4947.47	33.92	213.29	25.39	85.52	19 37 17	4347.5	32.93	204.20

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE   .8229 TRA-1.0386 TC3   .6772 BAU  .1642    SGT 2073.4 SGR  385.9 SG3  326.3      ST  1279.7 SR   121.5 SS  1474.5
ROE  -.0706 RRA -.1417 RC3   .3771 FAU .04629    RRT   .4962 RRF -.5447 RTF -.9283    CRT -.5670 CRS -.6826 CST   .9886
FOE-1.7273 FRA 1.2909 FC3-2.5292 BSP   6737    SGB 2109.0 R23 -.0827 R13 -.9297      LSA 1948.5 MSA  172.7 SSA   14.5
BOE   .8259 BRA 1.0482 BC3   .7751 FSP   -941    SG1 2082.4 SG2  333.6 THA   5.42     EL1 1281.6 EL2   99.9 ALF 176.90
```

LAUNCH DATE MAY 20 1967 FLIGHT TIME 124.00 ARRIVAL DATE SEP 21 1967

HELIOCENTRIC CONIC DISTANCE 316.027

```
RL  151.37 LAL   -.00 LOL 238.31 VL  26.407 GAL   3.51 AZL  94.19 HCA 132.58 SMA 125.66 ECC .21321 INC 4.1942 V1  29.434
RP  108.58 LAP  -3.09 LOP  10.97 VP  37.263 GAP  -9.54 AZP  87.16 TAL 166.84 TAP 299.42 RCA  98.87 APO 152.45 V2  34.903
RC   51.950 GL  -29.62 GP    8.35 ZAL  71.02 ZAP  18.94 ETS 334.23 ZAE 148.14 ETE  33.47 ZAC  89.42 ETC  13.84 CLP -17.06
```

PLANETOCENTRIC CONIC

```
C3  15.216 VHL  3.901 DLA -23.27 RAL 158.86 RAD 6567.6 VEL 11.688 PTH   2.06 VHP  6.314 DPA  13.14 RAP 179.18 ECC 1.2504
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 39 55	1322.88	7.42	349.95	17.82	117.41	10 1 58	722.9	11.03	343.14
90.00	14 35 36	5623.31	28.09	263.88	23.84	93.75	16 9 19	5023.3	28.31	255.22
100.00	10 43 13	1118.55	5.87	334.10	16.98	119.36	11 1 52	518.6	9.74	327.44
100.00	16 14 59	5302.87	29.85	240.40	23.93	91.74	17 43 22	4702.9	29.77	231.59
110.00	11 15 1	1018.86	2.29	324.32	14.77	124.12	11 32 0	418.9	6.75	318.08
110.00	17 59 40	4975.33	34.05	215.46	23.87	86.79	19 22 36	4375.3	33.23	206.31

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE   .8443 TRA -.9982 TC3   .7473 BAU  .1735    SGT 2103.6 SGR  397.3 SG3  361.8      ST  1329.5 SR    87.8 SS  1580.5
ROE  -.0370 RRA -.1423 RC3   .4116 FAU .05029    RRT   .5779 RRF -.6310 RTF -.9329    CRT -.2963 CRS -.4291 CST   .9894
FOE-1.9228 FRA 1.3373 FC3-2.8614 BSP   6887    SGB 2140.8 R23 -.0968 R13 -.9347      LSA 2060.3 MSA  168.2 SSA   13.9
BOE   .8451 BRA 1.0083 BC3   .8532 FSP   -1053    SG1 2116.4 SG2  322.3 THA   6.38     EL1 1329.8 EL2   83.9 ALF 178.87
```

LAUNCH DATE MAY 20 1967 FLIGHT TIME 126.00 ARRIVAL DATE SEP 23 1967

HELIOCENTRIC CONIC DISTANCE 322.693

RL 151.37 LAL -.00 LOL 238.31 VL 26.492 GAL 3.32 AZL 94.31 HCA 135.76 SMA 126.19 ECC .20744 INC 4.3080 V1 29.434
RP 108.54 LAP -3.00 LOP 14.15 VP 37.333 GAP -8.90 AZP 86.91 TAL 167.12 TAP 302.88 RCA 100.02 APO 152.37 V2 34.914
RC 53.515 GL -31.19 GP 9.35 ZAL 71.98 ZAP 21.44 ETS 334.70 ZAE 147.18 ETE 33.42 ZAC 88.35 ETC 13.64 CLP -19.38

PLANETOCENTRIC CONIC

C3 14.716 VHL 3.836 DLA -24.41 RAL 157.47 RAD 6567.6 VEL 11.666 PTH 2.05 VHP 5.977 DPA 13.70 RAP 180.40 ECC 1.2422

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 52 2	1253.65	9.56	346.00	16.62	116.78	10 12 56	653.6	13.08	339.09
90.00	14 12 24	5677.60	27.78	267.82	22.19	95.70	15 47 2	5077.6	28.28	259.19
100.00	10 52 29	1058.53	7.86	330.75	15.71	118.93	11 10 7	458.5	11.66	324.03
100.00	15 54 39	5347.95	29.71	243.74	22.37	93.49	17 23 47	4747.9	29.87	234.94
110.00	11 20 1	972.15	4.07	321.88	13.38	123.97	11 36 13	372.2	8.50	315.60
110.00	17 43 36	5007.09	34.14	217.93	22.45	88.26	19 7 3	4407.1	33.53	208.75

DIFFERENTIAL CORRECTIONS
TDE .8646 TRA -.9569 TC3 .8057 BAU .1816
RDE .0009 RRA -.1450 RC3 .4507 FAU .05468
FOE-2.1482 FRA 1.3852 FC3-3.2166 BSP 6988
BDE .8646 BRA .9679 BC3 .9232 FSP -1178

MID-COURSE EXECUTION ACCURACY
SGT 2124.4 SGR 419.7 SG3 401.1
RRT .6603 RRF -.7176 RTF -.9365
SGB 2165.5 R23 -.1139 R13 -.9389
SG1 2142.8 SG2 312.4 THA 7.59

ORBIT DETERMINATION ACCURACY
ST 1374.7 SR 72.1 SS 1694.4
CRT .3582 CRS .2269 CST .9901
LSA 2176.9 MSA 164.6 SSA 13.1
EL1 1374.9 EL2 67.3 ALF 1.08

LAUNCH DATE MAY 20 1967 FLIGHT TIME 128.00 ARRIVAL DATE SEP 25 1967

HELIOCENTRIC CONIC DISTANCE 329.345

RL 151.37 LAL -.00 LOL 238.31 VL 26.568 GAL 3.14 AZL 94.44 HCA 138.94 SMA 126.68 ECC .20218 INC 4.4357 V1 29.434
RP 108.50 LAP -2.91 LOP 17.34 VP 37.399 GAP -8.27 AZP 86.65 TAL 167.40 TAP 306.35 RCA 101.07 APO 152.30 V2 34.926
RC 55.163 GL -32.80 GP 10.54 ZAL 72.94 ZAP 24.14 ETS 334.91 ZAE 146.36 ETE 33.88 ZAC 87.36 ETC 13.43 CLP -21.84

PLANETOCENTRIC CONIC

C3 14.342 VHL 3.787 DLA -25.58 RAL 156.05 RAD 6567.6 VEL 11.650 PTH 2.05 VHP 5.659 DPA 14.48 RAP 181.59 ECC 1.2360

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 7 31	1175.32	11.93	341.46	15.63	115.87	10 27 6	575.3	15.31	334.42
90.00	13 45 36	5744.52	27.24	272.64	20.57	98.06	15 21 21	5144.5	28.07	264.07
100.00	11 3 46	993.71	9.97	327.10	14.62	118.33	11 20 19	393.7	13.68	320.28
100.00	15 32 2	5401.37	29.42	247.69	20.87	95.55	17 2 4	4801.4	29.88	238.91
110.00	11 25 53	924.30	5.89	319.37	12.13	123.73	11 41 17	324.3	10.28	313.03
110.00	17 26 24	5043.54	34.18	220.78	21.14	89.94	18 50 28	4443.5	33.80	211.56

DIFFERENTIAL CORRECTIONS
TDE .8847 TRA -.9155 TC3 .8518 BAU .1890
RDE .0450 RRA -.1500 RC3 .4955 FAU .05948
FOE-2.4088 FRA 1.4355 FC3-3.5902 BSP 7058
BDE .8859 BRA .9277 BC3 .9854 FSP -1315

MID-COURSE EXECUTION ACCURACY
SGT 2136.8 SGR 457.0 SG3 444.5
RRT .7370 RRF -.7972 RTF -.9396
SGB 2185.1 R23 -.1337 R13 -.9428
SG1 2163.7 SG2 305.0 THA 9.14

ORBIT DETERMINATION ACCURACY
ST 1415.7 SR 102.2 SS 1817.1
CRT .8708 CRS .7984 CST .9908
LSA 2300.0 MSA 161.8 SSA 12.3
EL1 1418.5 EL2 50.2 ALF 3.60

LAUNCH DATE MAY 20 1967 FLIGHT TIME 130.00 ARRIVAL DATE SEP 27 1967

HELIOCENTRIC CONIC DISTANCE 335.983

RL 151.37 LAL -.00 LOL 238.31 VL 26.638 GAL 2.99 AZL 94.58 HCA 142.13 SMA 127.13 ECC .19742 INC 4.5808 V1 29.434
RP 108.46 LAP -2.81 LOP 20.53 VP 37.460 GAP -7.67 AZP 86.38 TAL 167.69 TAP 309.82 RCA 102.03 APO 152.23 V2 34.938
RC 56.885 GL -34.46 GP 11.96 ZAL 73.90 ZAP 27.05 ETS 334.90 ZAE 145.63 ETE 34.88 ZAC 86.47 ETC 13.21 CLP -24.44

PLANETOCENTRIC CONIC

C3 14.097 VHL 3.755 DLA -26.79 RAL 154.61 RAD 6567.6 VEL 11.640 PTH 2.04 VHP 5.362 DPA 15.53 RAP 182.74 ECC 1.2320

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 29 21	1078.55	14.73	335.74	14.98	114.46	10 47 20	478.5	17.91	328.51
90.00	13 12 13	5833.68	26.23	278.97	18.91	101.07	14 49 26	5233.7	27.49	270.53
100.00	11 18 16	920.54	12.30	322.92	13.77	117.46	11 33 37	320.5	15.89	315.96
100.00	15 5 59	5466.92	28.89	252.49	19.41	98.02	16 37 6	4866.9	29.70	243.78
110.00	11 32 58	874.41	7.76	316.72	11.06	123.39	11 47 32	274.4	12.10	310.32
110.00	17 7 47	5085.81	34.14	224.08	19.94	91.89	18 32 32	4485.8	34.02	214.84

DIFFERENTIAL CORRECTIONS
TDE .9038 TRA -.8734 TC3 .8808 BAU .1954
RDE .0975 RRA -.1578 RC3 .5473 FAU .06465
FOE-2.7092 FRA 1.4863 FC3-3.9701 BSP 7107
BDE .9091 BRA .8875 BC3 1.0370 FSP -1467

MID-COURSE EXECUTION ACCURACY
SGT 2137.6 SGR 513.7 SG3 492.1
RRT .8014 RRF -.8635 RTF -.9420
SGB 2198.4 R23 -.1558 R13 -.9466
SG1 2177.6 SG2 301.6 THA 11.12

ORBIT DETERMINATION ACCURACY
ST 1450.3 SR 169.9 SS 1948.0
CRT .9814 CRS .9494 CST .9913
LSA 2429.2 MSA 159.6 SSA 11.4
EL1 1459.9 EL2 32.4 ALF 6.56

LAUNCH DATE MAY 20 1967 FLIGHT TIME 132.00 ARRIVAL DATE SEP 29 1967

HELIOCENTRIC CONIC DISTANCE 342.605

RL 151.37 LAL -.00 LOL 238.31 VL 26.700 GAL 2.84 AZL 94.75 HCA 145.32 SMA 127.54 ECC .19312 INC 4.7485 V1 29.434
RP 108.43 LAP -2.70 LOP 23.73 VP 37.516 GAP -7.08 AZP 86.09 TAL 167.96 TAP 313.28 RCA 102.91 APO 152.17 V2 34.951
RC 58.673 GL -36.18 GP 13.67 ZAL 74.85 ZAP 30.22 ETS 334.70 ZAE 144.96 ETE 36.49 ZAC 85.67 ETC 12.98 CLP -27.22

PLANETOCENTRIC CONIC

C3 13.986 VHL 3.740 DLA -28.07 RAL 153.13 RAD 6567.6 VEL 11.635 PTH 2.04 VHP 5.087 DPA 16.91 RAP 183.88 ECC 1.2302

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 11 48	917.83	19.01	325.88	15.09	111.39	11 27 6	317.8	21.75	318.28
90.00	12 18 0	702.87	23.72	311.89	16.80	105.94	12 29 43	102.9	25.68	303.77
100.00	11 38 41	830.85	15.06	317.69	13.28	116.13	11 52 32	230.8	18.45	310.54
100.00	14 33 48	5553.13	27.91	258.71	17.92	101.16	16 6 21	4953.1	29.17	250.13
110.00	11 41 49	821.04	9.75	313.87	10.20	122.93	11 55 30	221.0	14.02	307.37
110.00	16 47 10	5135.70	33.96	227.97	18.87	94.19	18 12 46	4535.7	34.16	218.73

DIFFERENTIAL CORRECTIONS
TDE .9239 TRA -.8275 TC3 .8975 BAU .2028
RDE .1622 RRA -.1684 RC3 .6085 FAU .07031
FOE-3.0581 FRA 1.5300 FC3-4.3522 BSP 7179
BDE .9381 BRA .8445 BC3 1.0843 FSP -1638

MID-COURSE EXECUTION ACCURACY
SGT 2125.7 SGR 595.3 SG3 543.7
RRT .8514 RRF -.9135 RTF -.9444
SGB 2207.5 R23 -.1767 R13 -.9509
SG1 2186.5 SG2 303.6 THA 13.68

ORBIT DETERMINATION ACCURACY
ST 1479.8 SR 263.9 SS 2089.0
CRT .9983 CRS .9850 CST .9919
LSA 2568.8 MSA 157.1 SSA 10.4
EL1 1503.1 EL2 15.1 ALF 10.09

LAUNCH DATE MAY 20 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 1 1967

HELIOCENTRIC CONIC DISTANCE 349.210

RL 151.37 LAL -.00 LOL 238.31 VL 26.757 GAL 2.71 AZL 94.95 HCA 148.51 SMA 127.91 ECC .18926 INC 4.9457 V1 29.434
RP 108.39 LAP -2.58 LOP 26.92 VP 37.568 GAP -6.50 AZP 85.78 TAL 168.23 TAP 316.74 RCA 103.70 APO 152.11 V2 34.964
RC 60.521 GL -37.97 GP 15.75 ZAL 75.78 ZAP 33.69 ETS 334.33 ZAE 144.25 ETE 38.81 ZAC 84.96 ETC 12.74 CLP -30.18

PLANETOCENTRIC CONIC

C3 14.024 VHL 3.745 DLA -29.42 RAL 151.63 RAD 6567.6 VEL 11.637 PTH 2.04 VHP 4.837 DPA 18.69 RAP 185.03 ECC 1.2308

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.68	10 30 29	1031.97	22.31	335.57	14.90	109.68	10 47 41	432.0	24.79	327.69
98.32	12 47 19	5877.96	22.32	281.03	14.91	109.67	14 25 17	5278.0	24.80	273.15
100.00	12 15 27	692.02	19.03	309.29	13.52	113.49	12 26 59	92.0	22.05	301.80
100.00	13 45 2	5693.14	25.68	268.51	16.09	105.85	15 19 55	5093.1	27.61	260.24
110.00	11 53 20	761.68	11.93	310.65	9.62	122.27	12 6 2	161.7	16.11	304.03
110.00	16 23 38	5196.24	33.56	232.65	17.91	96.93	17 50 15	4596.2	34.15	223.46

DIFFERENTIAL CORRECTIONS
TOE .9398 TRA -.7832 TC3 .8861 BAU .2093
ROE .2433 RRA -.1828 RC3 .6792 FAU .07603
FOE-3.4531 FRA 1.5705 FC3-4.6934 BSP 7201
BOE .9708 BRA .8042 BC3 1.1165 FSP -1816

MID-COURSE EXECUTION ACCURACY
SGT 2097.7 SGR 707.4 SG3 597.8
RRT .8859 RRF -.9480 RTF -.9455
SGB 2213.8 R23 -.1964 R13 -.9551
SG1 2191.4 SG2 314.2 THA 16.99

ORBIT DETERMINATION ACCURACY
ST 1496.1 SR 384.8 SS 2235.2
CRT .9993 CRS .9950 CST .9923
LSA 2712.6 MSA 155.9 SSA 9.4
EL1 1544.8 EL2 13.9 ALF 14.42

LAUNCH DATE MAY 20 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 3 1967

HELIOCENTRIC CONIC DISTANCE 355.798

RL 151.37 LAL -.00 LOL 238.31 VL 26.807 GAL 2.60 AZL 95.18 HCA 151.70 SMA 128.24 ECC .18582 INC 5.1826 V1 29.434
RP 108.35 LAP -2.45 LOP 30.11 VP 37.615 GAP -5.94 AZP 85.43 TAL 168.48 TAP 320.18 RCA 104.41 APO 152.07 V2 34.977
RC 62.420 GL -39.87 GP 18.30 ZAL 76.69 ZAP 37.51 ETS 333.83 ZAE 143.38 ETE 41.90 ZAC 84.34 ETC 12.49 CLP -33.34

PLANETOCENTRIC CONIC

C3 14.237 VHL 3.773 DLA -30.87 RAL 150.08 RAD 6567.6 VEL 11.646 PTH 2.04 VHP 4.617 DPA 20.98 RAP 186.23 ECC 1.2343

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.16	9 50 15	1143.81	23.29	344.30	14.01	110.86	10 9 19	543.8	25.91	336.40
102.84	13 15 12	5772.78	23.30	273.58	14.01	110.85	14 51 25	5172.8	25.92	265.69
77.16	9 50 15	1143.81	23.29	344.30	14.01	110.86	10 9 19	543.8	25.91	336.40
102.84	13 15 12	5772.78	23.30	273.58	14.01	110.85	14 51 25	5172.8	25.92	265.69
110.00	12 9 18	691.36	14.45	306.77	9.44	121.32	12 20 49	91.4	18.49	299.98
110.00	15 55 20	5273.23	32.77	238.52	17.00	100.32	17 23 13	4673.2	33.85	229.45

DIFFERENTIAL CORRECTIONS
TOE .9553 TRA -.7362 TC3 .8532 BAU .2176
ROE .3483 RRA -.2009 RC3 .7611 FAU .08173
FOE-3.9018 FRA 1.5939 FC3-4.9695 BSP 7255
BOE 1.0169 BRA .7631 BC3 1.1434 FSP -2003

MID-COURSE EXECUTION ACCURACY
SGT 2053.1 SGR 857.8 SG3 653.0
RRT .9084 RRF -.9701 RTF -.9462
SGB 2225.1 R23 -.2080 R13 -.9602
SG1 2199.8 SG2 334.8 THA 21.30

ORBIT DETERMINATION ACCURACY
ST 1502.5 SR 539.8 SS 2388.1
CRT .9978 CRS .9983 CST .9926
LSA 2868.4 MSA 154.7 SSA 8.4
EL1 1596.2 EL2 34.0 ALF 19.73

LAUNCH DATE MAY 20 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 5 1967

HELIOCENTRIC CONIC DISTANCE 362.368

RL 151.37 LAL -.00 LOL 238.31 VL 26.851 GAL 2.50 AZL 95.47 HCA 154.90 SMA 128.53 ECC .18277 INC 5.4745 V1 29.434
RP 108.31 LAP -2.32 LOP 33.31 VP 37.659 GAP -5.40 AZP 85.04 TAL 168.70 TAP 323.60 RCA 105.04 APO 152.03 V2 34.990
RC 64.367 GL -41.92 GP 21.47 ZAL 77.58 ZAP 41.75 ETS 333.20 ZAE 142.16 ETE 45.82 ZAC 83.80 ETC 12.22 CLP -36.71

PLANETOCENTRIC CONIC

C3 14.675 VHL 3.831 DLA -32.47 RAL 148.47 RAD 6567.6 VEL 11.664 PTH 2.05 VHP 4.436 DPA 23.89 RAP 187.58 ECC 1.2415

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.41	9 18 2	1231.36	24.26	351.35	13.35	112.27	9 38 33	631.4	27.06	343.45
106.59	13 34 33	5698.65	24.27	268.39	13.36	112.26	15 9 32	5098.6	27.07	260.49
73.41	9 18 2	1231.36	24.26	351.35	13.35	112.27	9 38 33	631.4	27.06	343.45
106.59	13 34 33	5698.65	24.27	268.39	13.36	112.26	15 9 32	5098.6	27.07	260.49
110.00	12 34 15	5885.01	17.72	279.31	9.94	119.72	14 12 20	5285.0	21.54	272.26
110.00	15 17 31	5381.04	31.17	246.51	15.97	104.80	16 47 12	4781.0	32.89	237.71

DIFFERENTIAL CORRECTIONS
TOE .9656 TRA -.6909 TC3 .7860 BAU .2273
ROE .4868 RRA -.2237 RC3 .8513 FAU .08655
FOE-4.3909 FRA 1.5979 FC3-5.1057 BSP 7277
BOE 1.0814 BRA .7262 BC3 1.1587 FSP -2171

MID-COURSE EXECUTION ACCURACY
SGT 1987.2 SGR 1054.9 SG3 704.3
RRT .9207 RRF -.9834 RTF -.9451
SGB 2249.8 R23 -.2098 R13 -.9661
SG1 2219.4 SG2 368.6 THA 26.85

ORBIT DETERMINATION ACCURACY
ST 1490.4 SR 738.1 SS 2538.5
CRT .9961 CRS .9994 CST .9927
LSA 3030.8 MSA 154.8 SSA 7.4
EL1 1662.1 EL2 58.4 ALF 26.29

LAUNCH DATE MAY 20 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 7 1967

HELIOCENTRIC CONIC DISTANCE 368.920

RL 151.37 LAL -.00 LOL 238.31 VL 26.890 GAL 2.41 AZL 95.85 HCA 158.09 SMA 128.80 ECC .18010 INC 5.8456 V1 29.434
RP 108.27 LAP -2.18 LOP 36.51 VP 37.699 GAP -4.87 AZP 84.57 TAL 168.90 TAP 327.00 RCA 105.60 APO 151.99 V2 35.003
RC 66.356 GL -44.17 GP 25.44 ZAL 78.47 ZAP 46.49 ETS 332.49 ZAE 140.29 ETE 50.57 ZAC 83.28 ETC 11.93 CLP -40.32

PLANETOCENTRIC CONIC

C3 15.423 VHL 3.927 DLA -34.26 RAL 146.75 RAD 6567.6 VEL 11.696 PTH 2.06 VHP 4.305 DPA 27.61 RAP 189.20 ECC 1.2538

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.86	8 48 56	1310.90	25.22	357.95	12.99	114.00	9 10 47	710.9	28.24	350.07
110.14	13 49 56	5641.36	25.23	264.41	13.00	113.99	15 23 57	5041.4	28.25	256.52
69.86	8 48 56	1310.90	25.22	357.95	12.99	114.00	9 10 47	710.9	28.24	350.07
110.14	13 49 56	5641.36	25.23	264.41	13.00	113.99	15 23 57	5041.4	28.25	256.52
69.86	8 48 56	1310.90	25.22	357.95	12.99	114.00	9 10 47	710.9	28.24	350.07
110.14	13 49 56	5641.36	25.23	264.41	13.00	113.99	15 23 57	5041.4	28.25	256.52

DIFFERENTIAL CORRECTIONS
TOE .9746 TRA -.6451 TC3 .6915 BAU .2415
ROE .6752 RRA -.2507 RC3 .9454 FAU .08969
FOE-4.9066 FRA 1.5628 FC3-5.0349 BSP 7417
BOE 1.1856 BRA .6921 BC3 1.1713 FSP -2312

MID-COURSE EXECUTION ACCURACY
SGT 1900.9 SGR 1310.6 SG3 745.7
RRT .9264 RRF -.9909 RTF -.9428
SGB 2308.9 R23 -.1958 R13 -.9736
SG1 2271.7 SG2 412.9 THA 33.84

ORBIT DETERMINATION ACCURACY
ST 1462.5 SR 994.2 SS 2681.0
CRT .9948 CRS .9998 CST .9927
LSA 3207.9 MSA 155.1 SSA 6.4
EL1 1766.4 EL2 84.1 ALF 34.16

LAUNCH DATE MAY 20 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 9 1967

HELIOCENTRIC CONIC DISTANCE 375.451

RL 151.37 LAL -.00 LOL 238.31 VL 26.924 GAL 2.34 AZL 96.34 HCA 161.29 SMA 129.03 ECC .17778 INC 6.3369 V1 29.434
RP 108.22 LAP -2.03 LOP 39.71 VP 37.736 GAP -4.35 AZP 84.00 TAL 169.07 TAP 330.36 RCA 106.09 APO 151.97 V2 35.016
RC 68.382 GL -46.71 GP 30.48 ZAL 79.38 ZAP 51.80 ETS 331.76 ZAE 137.41 ETE 55.96 ZAC 82.73 ETC 11.62 CLP -44.14

PLANETOCENTRIC CONIC

C3 16.643 VHL 4.080 DLA -36.31 RAL 144.85 RAD 6567.7 VEL 11.748 PTH 2.07 VHP 4.249 DPA 32.31 RAP 191.37 ECC 1.2739

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.26	8 20 54	1389.69	26.11	4.65	13.00	116.18	8 44 4	789.7	29.40	356.83
113.74	14 2 48	5597.19	26.12	261.37	13.00	116.17	15 36 5	4997.2	29.41	253.55
66.26	8 20 54	1389.69	26.11	4.65	13.00	116.18	8 44 4	789.7	29.40	356.83
113.74	14 2 48	5597.19	26.12	261.37	13.00	116.17	15 36 5	4997.2	29.41	253.55
66.26	8 20 54	1389.69	26.11	4.65	13.00	116.18	8 44 4	789.7	29.40	356.83
113.74	14 2 48	5597.19	26.12	261.37	13.00	116.17	15 36 5	4997.2	29.41	253.55

DIFFERENTIAL CORRECTIONS
TOE .9877 TRA -.5956 TC3 .5814 BAU .2644
ROE .9401 RRA -.2780 RC3 1.0365 FAU .09032
FOE-5.4143 FRA 1.4530 FC3-4.6982 BSP .7833
BOE 1.3636 BRA .6573 BC3 1.1885 FSP -.2408

MID-COURSE EXECUTION ACCURACY
SGT 1796.4 SGR 1641.2 SG3 767.6
RRT .9280 RRF -.9951 RTF -.9396
SGB 2433.2 R23 -.1641 R13 -.9825
SG1 2389.4 SG2 459.8 THA 42.21

ORBIT DETERMINATION ACCURACY
ST 1421.8 SR 1328.6 SS 2805.5
CRT .9938 CRS .9999 CST .9926
LSA 3410.8 MSA 154.8 SSA 5.4
EL1 1942.9 EL2 108.2 ALF 43.05

LAUNCH DATE MAY 20 1967 FLIGHT TIME 144.00 ARRIVAL DATE OCT 11 1967

HELIOCENTRIC CONIC DISTANCE 381.963

RL 151.37 LAL -.00 LOL 238.31 VL 26.954 GAL 2.28 AZL 97.02 HCA 164.49 SMA 129.23 ECC .17579 INC 7.0227 V1 29.434
RP 108.18 LAP -1.87 LOP 42.91 VP 37.769 GAP -3.85 AZP 83.23 TAL 169.20 TAP 333.69 RCA 106.51 APO 151.94 V2 35.029
RC 70.443 GL -49.65 GP 36.92 ZAL 80.33 ZAP 57.76 ETS 331.08 ZAE 133.00 ETE 61.66 ZAC 82.04 ETC 11.21 CLP -48.15

PLANETOCENTRIC CONIC

C3 18.669 VHL 4.321 DLA -38.71 RAL 142.65 RAD 6567.8 VEL 11.834 PTH 2.10 VHP 4.310 DPA 38.24 RAP 194.57 ECC 1.3072

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.42	7 52 31	1473.67	26.83	11.93	13.50	119.02	8 17 5	873.7	30.48	4.23
117.58	14 13 39	5566.55	26.84	259.29	13.51	119.01	15 46 25	4966.6	30.49	251.59
62.42	7 52 31	1473.67	26.83	11.93	13.50	119.02	8 17 5	873.7	30.48	4.23
117.58	14 13 39	5566.55	26.84	259.29	13.51	119.01	15 46 25	4966.6	30.49	251.59
62.42	7 52 31	1473.67	26.83	11.93	13.50	119.02	8 17 5	873.7	30.48	4.23
117.58	14 13 39	5566.55	26.84	259.29	13.51	119.01	15 46 25	4966.6	30.49	251.59

DIFFERENTIAL CORRECTIONS
TOE 1.0046 TRA -.5508 TC3 .4437 BAU .2940
ROE 1.3205 RRA -.3032 RC3 1.0911 FAU .08537
FOE-5.8047 FRA 1.2610 FC3-3.9591 BSP .8498
BOE 1.6592 BRA .6288 BC3 1.1779 FSP -.2370

MID-COURSE EXECUTION ACCURACY
SGT 1672.7 SGR 2054.4 SG3 751.0
RRT .9244 RRF -.9973 RTF -.9335
SGB 2649.3 R23 -.1228 R13 -.9902
SG1 2600.9 SG2 504.1 THA 51.31

ORBIT DETERMINATION ACCURACY
ST 1361.5 SR 1758.1 SS 2876.3
CRT .9928 CRS 1.0000 CST .9923
LSA 3632.3 MSA 155.5 SSA 4.5
EL1 2219.9 EL2 129.0 ALF 52.29

LAUNCH DATE MAY 20 1967 FLIGHT TIME 146.00 ARRIVAL DATE OCT 13 1967

HELIOCENTRIC CONIC DISTANCE 388.452

RL 151.37 LAL -.00 LOL 238.31 VL 26.979 GAL 2.23 AZL 98.06 HCA 167.69 SMA 129.40 ECC .17412 INC 8.0553 V1 29.434
RP 108.14 LAP -1.71 LOP 46.12 VP 37.799 GAP -3.36 AZP 82.13 TAL 169.29 TAP 336.98 RCA 106.87 APO 151.93 V2 35.042
RC 72.534 GL -53.17 GP 45.19 ZAL 81.40 ZAP 64.43 ETS 330.54 ZAE 126.48 ETE 67.09 ZAC 81.04 ETC 10.53 CLP -52.23

PLANETOCENTRIC CONIC

C3 22.275 VHL 4.720 DLA -41.58 RAL 139.94 RAD 6567.9 VEL 11.986 PTH 2.14 VHP 4.582 DPA 45.54 RAP 199.88 ECC 1.3666

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.18	7 22 22	1570.26	27.09	20.30	14.72	122.84	7 48 32	970.3	31.20	12.86
121.82	14 22 9	5554.30	27.10	258.43	14.73	122.83	15 54 43	4954.3	31.21	250.99
58.18	7 22 22	1570.26	27.09	20.30	14.72	122.84	7 48 32	970.3	31.20	12.86
121.82	14 22 9	5554.30	27.10	258.43	14.73	122.83	15 54 43	4954.3	31.21	250.99
58.18	7 22 22	1570.26	27.09	20.30	14.72	122.84	7 48 32	970.3	31.20	12.86
121.82	14 22 9	5554.30	27.10	258.43	14.73	122.83	15 54 43	4954.3	31.21	250.99

DIFFERENTIAL CORRECTIONS
TOE 1.0558 TRA -.5061 TC3 .3105 BAU .3338
ROE 1.8968 RRA -.3040 RC3 1.0770 FAU .07376
FOE-5.9457 FRA .9359 FC3-2.8666 BSP .9799
BOE 2.1708 BRA .5904 BC3 1.1209 FSP -.2188

MID-COURSE EXECUTION ACCURACY
SGT 1550.2 SGR 2565.0 SG3 678.8
RRT .9191 RRF -.9984 RTF -.9271
SGB 2997.1 R23 -.0799 R13 -.9955
SG1 2949.6 SG2 531.3 THA 59.87

ORBIT DETERMINATION ACCURACY
ST 1305.2 SR 2307.6 SS 2863.2
CRT .9921 CRS 1.0000 CST .9920
LSA 3899.0 MSA 155.3 SSA 3.7
EL1 2647.3 EL2 142.8 ALF 60.61

LAUNCH DATE MAY 20 1967 FLIGHT TIME 148.00 ARRIVAL DATE OCT 15 1967

HELIOCENTRIC CONIC DISTANCE 394.919

RL 151.37 LAL -.00 LOL 238.31 VL 27.000 GAL 2.21 AZL 99.80 HCA 170.88 SMA 129.54 ECC .17275 INC 9.7988 V1 29.434
RP 108.10 LAP -1.55 LOP 49.33 VP 37.827 GAP -2.88 AZP 80.32 TAL 169.33 TAP 340.21 RCA 107.16 APO 151.92 V2 35.056
RC 74.652 GL -57.47 GP 55.77 ZAL 82.69 ZAP 71.67 ETS 330.06 ZAE 117.25 ETE 71.37 ZAC 79.45 ETC 9.03 CLP -56.00

PLANETOCENTRIC CONIC

C3 29.663 VHL 5.446 DLA -45.02 RAL 136.35 RAD 6568.2 VEL 12.290 PTH 2.21 VHP 5.296 DPA 54.01 RAP 209.78 ECC 1.4882

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
53.41	6 48 50	1692.56	26.13	30.45	16.98	128.06	7 17 3	1092.6	30.88	23.54
126.59	14 27 5	5573.45	26.14	259.38	16.99	128.06	15 59 58	4973.5	30.89	252.46
53.41	6 48 50	1692.56	26.13	30.45	16.98	128.06	7 17 3	1092.6	30.88	23.54
126.59	14 27 5	5573.45	26.14	259.38	16.99	128.06	15 59 58	4973.5	30.89	252.46
53.41	6 48 50	1692.56	26.13	30.45	16.98	128.06	7 17 3	1092.6	30.88	23.54
126.59	14 27 5	5573.45	26.14	259.38	16.99	128.06	15 59 58	4973.5	30.89	252.46

DIFFERENTIAL CORRECTIONS
TOE 1.1666 TRA -.5104 TC3 .1371 BAU .3424
ROE 2.7701 RRA -.2912 RC3 .8524 FAU .04882
FOE-5.4990 FRA .6047 FC3-1.4248 BSP .10323
BOE 3.0057 BRA .5876 BC3 .8634 FSP -.1573

MID-COURSE EXECUTION ACCURACY
SGT 1451.0 SGR 3089.0 SG3 523.3
RRT .9023 RRF -.9989 RTF -.9120
SGB 3412.8 R23 -.0499 R13 -.9980
SG1 3364.1 SG2 574.5 THA 66.30

ORBIT DETERMINATION ACCURACY
ST 1248.3 SR 2917.1 SS 2649.7
CRT .9903 CRS 1.0000 CST .9906
LSA 4130.6 MSA 164.1 SSA 2.9
EL1 3169.0 EL2 159.4 ALF 66.97

```
LAUNCH DATE  MAY 20 1967                          FLIGHT TIME 150.00                          ARRIVAL DATE  OCT 17 1967

  HELIOCENTRIC CONIC                              DISTANCE 401.343
   RL  151.37 LAL   -.00 LOL 238.31 VL  27.017 GAL   2.19 AZL 103.40 HCA 174.06 SMA 129.66 ECC .17167 INC13.3958 V1  29.434
   RP  108.06 LAP  -1.37 LOP  52.53 VP  37.851 GAP  -2.42 AZP  76.67 TAL 169.31 TAP 343.37 RCA 107.40 APO 151.92 V2  35.069
   RC  76.795 GL  -62.59 GP   69.24 ZAL  84.40 ZAP  79.06 ETS 327.67 ZAE 104.65 ETE  71.84 ZAC  76.90 ETC   3.95 CLP -57.63
  PLANETOCENTRIC CONIC
   C3  49.640 VHL  7.046 DLA -48.90 RAL 131.31 RAD 6568.8 VEL 13.077 PTH   2.39 VHP  7.178 DPA  61.98 RAP 230.52 ECC 1.8169
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      48.31     6 10 40   1867.68      21.91     43.07      20.76      134.88    6 41 47     1267.7      27.43      37.11
     131.69    14 25  4   5657.62      21.92    263.30      20.77      134.87   15 59 22     5057.6      27.44     257.34
      48.31     6 10 40   1867.68      21.91     43.07      20.76      134.88    6 41 47     1267.7      27.43      37.11
     131.69    14 25  4   5657.62      21.92    263.30      20.77      134.87   15 59 22     5057.6      27.44     257.34
      48.31     6 10 40   1867.68      21.91     43.07      20.76      134.88    6 41 47     1267.7      27.43      37.11
     131.69    14 25  4   5657.62      21.92    263.30      20.77      134.87   15 59 22     5057.6      27.44     257.34
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TOE 1.8228 TRA -.5285 TC3  .0609 BAU  .3074    SGT 1622.4 SGR 3567.4 SG3  318.7      ST  1495.2 SR  3506.6 SS  2260.2
   ROE 4.3117 RRA -.0933 RC3  .4592 FAU .02148    RRT  .9207 RRF -.9989 RTF -.9344      CRT  .9926 CRS 1.0000 CST  .9936
   FOE-4.4808 FRA  .1792 FC3 -.3746 BSP  11989    SGB 3919.0 R23 -.0268 R13 -.9992      LSA 4428.5 MSA  168.4 SSA    1.9
   BOE 4.6811 BRA  .5367 BC3  .4632 FSP   -955    SG1 3875.4 SG2  583.0 THA  66.72      EL1 3808.4 EL2  167.2 ALF  67.01

LAUNCH DATE  MAY 20 1967                          FLIGHT TIME 152.00                          ARRIVAL DATE  OCT 19 1967

  HELIOCENTRIC CONIC                              DISTANCE 407.662
   RL  151.37 LAL   -.00 LOL 238.31 VL  27.031 GAL   2.21 AZL 115.00 HCA 177.17 SMA 129.75 ECC .17091 INC25.0023 V1  29.434
   RP  108.02 LAP  -1.20 LOP  55.74 VP  37.873 GAP  -1.98 AZP  65.02 TAL 169.17 TAP 346.34 RCA 107.58 APO 151.93 V2  35.082
   RC  78.958 GL  -66.34 GP   85.60 ZAL  86.80 ZAP  85.61 ETS 227.53 ZAE  86.36 ETE 332.50 ZAC  72.10 ETC 257.91 CLP  -3.31
  PLANETOCENTRIC CONIC
   C3 155.347 VHL 12.464 DLA -50.91 RAL-125.65 RAD 6570.7 VEL 16.634 PTH   2.89 VHP 14.098 DPA  62.27 RAP 271.30 ECC 3.5566
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      45.74     5 39 44   2138.06       9.77     56.53      27.60      140.23    6 15 22     1538.1      15.87      51.64
     134.26    14 10 47    600.47       9.78    294.86      27.61      140.23   14 20 48        .5      15.88     289.96
      45.74     5 39 44   2138.06       9.77     56.53      27.60      140.23    6 15 22     1538.1      15.87      51.64
     134.26    14 10 47    600.47       9.78    294.86      27.61      140.23   14 20 48        .5      15.88     289.96
      45.74     5 39 44   2138.06       9.77     56.53      27.60      140.23    6 15 22     1538.1      15.87      51.64
     134.26    14 10 47    600.47       9.78    294.86      27.61      140.23   14 20 48        .5      15.88     289.96
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TOE 9.1459 TRA  .5441 TC3 -.0744 BAU  .1839    SGT 4227.1 SGR  772.1 SG3  129.8      ST  4206.0 SR   608.7 SS  1826.2
   ROE-1.2862 RRA  .6609 RC3  .0480 FAU-.00663    RRT -.7099 RRF  .7575 RTF -.9975      CRT -.9643 CRS -.9695 CST  .9998
   FOE-3.2613 FRA -.0533 FC3  .0370 BSP  13009    SGB 4297.0 R23 -.0534 R13  .9986      LSA 4622.8 MSA  161.7 SSA     .5
   BOE 9.2359 BRA  .8560 BC3  .0886 FSP   -382    SG1 4263.0 SG2  539.2 THA 172.49      EL1 4246.8 EL2  159.7 ALF 172.04

LAUNCH DATE  MAY 20 1967                          FLIGHT TIME 154.00                          ARRIVAL DATE  OCT 21 1967

  HELIOCENTRIC CONIC                              DISTANCE 415.027
   RL  151.37 LAL   -.00 LOL 238.31 VL  27.041 GAL   2.04 AZL  32.25 HCA 181.20 SMA 129.82 ECC .16968 INC57.7441 V1  29.434
   RP  107.98 LAP  -1.02 LOP  58.96 VP  37.892 GAP  -1.29 AZP 147.74 TAL 169.91 TAP 351.11 RCA 107.79 APO 151.85 V2  35.094
   RC  81.139 GL   56.68 GP  -63.21 ZAL  88.70 ZAP  89.04 ETS 175.25 ZAE  68.91 ETE  70.93 ZAC  90.58 ETC 145.48 CLP  87.86
  PLANETOCENTRIC CONIC
   C3 747.991 VHL 27.349 DLA  60.89 RAL 190.14 RAD 6572.7 VEL 29.484 PTH   3.44 VHP 37.110 DPA -69.04 RAP  24.72 ECC13.3100
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      33.54    21 21 14   5028.77       -.54    240.69      99.85      29.11    22 45  3     4428.8      -7.52     237.19
     146.46     7  3 49   3350.96       -.53    102.62      99.83      29.11     7 59 40     2751.0      -7.51      99.12
      33.54    21 21 14   5028.77       -.54    240.69      99.85      29.11    22 45  3     4428.8      -7.52     237.19
     146.46     7  3 49   3350.96       -.53    102.62      99.83      29.11     7 59 40     2751.0      -7.51      99.12
      33.54    21 21 14   5028.77       -.54    240.69      99.85      29.11    22 45  3     4428.8      -7.52     237.19
     146.46     7  3 49   3350.96       -.53    102.62      99.83      29.11     7 59 40     2751.0      -7.51      99.12
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TOE-4.4799 TRA-2.7045 TC3 -.1281 BAU 2.9474    SGT 1651.8 SGR 3805.6 SG3   70.9      ST  1001.7 SR  1317.3 SS   929.6
   ROE-3.9388 RRA-7.9407 RC3 -.2654 FAU-.04954    RRT  .9186 RRF -.9999 RTF -.9235      CRT  .8593 CRS  .9996 CST  .8735
   FOE  .8973 FRA 1.7069 FC3  .0573 BSP   8427    SGB 4148.7 R23 -.0478 R13 -.9989      LSA 1846.2 MSA  440.8 SSA     .3
   BOE 5.9652 BRA 8.3886 BC3  .2947 FSP   -151    SG1 4104.3 SG2  605.1 THA  67.75      EL1 1600.2 EL2  421.8 ALF  53.94

LAUNCH DATE  MAY 20 1967                          FLIGHT TIME 156.00                          ARRIVAL DATE  OCT 23 1967

  HELIOCENTRIC CONIC                              DISTANCE 420.889
   RL  151.37 LAL   -.00 LOL 238.31 VL  27.048 GAL   2.16 AZL  77.78 HCA 183.95 SMA 129.87 ECC .16968 INC12.2187 V1  29.434
   RP  107.94 LAP   -.83 LOP  62.17 VP  37.909 GAP   -.98 AZP 102.19 TAL 169.31 TAP 353.25 RCA 107.84 APO 151.91 V2  35.107
   RC  83.336 GL   61.63 GP  -81.66 ZAL  84.04 ZAP  87.62 ETS  15.77 ZAE 102.78 ETE 274.61 ZAC 105.03 ETC 354.86 CLP -73.37
  PLANETOCENTRIC CONIC
   C3  42.279 VHL  6.502 DLA  60.35 RAL 204.81 RAD 6568.6 VEL 12.792 PTH   2.33 VHP 10.226 DPA -61.83 RAP 114.94 ECC 1.6958
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      34.20    22 21 22   4558.36      -27.79    225.09      97.36      34.00    23 37 20     3958.4     -34.31     220.10
     145.80     8  0 43   2886.37      -27.78     87.81      97.35      34.00     8 48 49     2286.4     -34.30      82.82
      34.20    22 21 22   4558.36      -27.79    225.09      97.36      34.00    23 37 20     3958.4     -34.31     220.10
     145.80     8  0 43   2886.37      -27.78     87.81      97.35      34.00     8 48 49     2286.4     -34.30      82.82
      34.20    22 21 22   4558.36      -27.79    225.09      97.36      34.00    23 37 20     3958.4     -34.31     220.10
     145.80     8  0 43   2886.37      -27.78     87.81      97.35      34.00     8 48 49     2286.4     -34.30      82.82
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TOE  .6635 TRA  .1546 TC3 -.0865 BAU  .3734    SGT  656.0 SGR 4527.5 SG3  187.4      ST   590.5 SR  1360.4 SS   566.8
   ROE  .3157 RRA 2.4918 RC3 -.6550 FAU .01637    RRT  .4985 RRF  .9996 RTF  .4767      CRT  .3395 CRS -.9962 CST -.2564
   FOE  .0863 FRA 1.1920 FC3 -.3353 BSP  13469    SGB 4574.7 R23  .0341 R13  .9993      LSA 1487.7 MSA  554.3 SSA     .8
   BOE  .7348 BRA 2.4966 BC3  .6607 FSP   -572    SG1 4539.4 SG2  567.2 THA  85.80      EL1 1377.9 EL2  548.4 ALF  80.02
```

LAUNCH DATE MAY 20 1967 FLIGHT TIME 158.00 ARRIVAL DATE OCT 25 1967

HELIOCENTRIC CONIC DISTANCE 427.202

RL 151.37 LAL -.00 LOL 238.31 VL 27.053 GAL 2.21 AZL 84.75 HCA 187.10 SMA 129.90 ECC .16959 INC 5.2517 V1 29.434
RP 107.91 LAP -.65 LOP 65.39 VP 37.923 GAP -.56 AZP 95.21 TAL 169.07 TAP 356.17 RCA 107.87 APO 151.93 V2 35.119
RC 85.546 GL 43.50 GP -67.04 ZAL 78.82 ZAP 88.59 ETS 4.32 ZAE 117.02 ETE 263.94 ZAC 109.46 ETC 351.45 CLP -86.38

PLANETOCENTRIC CONIC

C3 12.923 VHL 3.595 DLA 45.40 RAL 187.22 RAD 6567.5 VEL 11.589 PTH 2.03 VHP 6.118 DPA -49.60 RAP 129.99 ECC 1.2127

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
52.91	22 8 2	4145.35	-34.05	188.23	55.43	57.95	23 17 7	3545.3	-38.00	180.04
127.09	5 53 45	2729.02	-34.04	78.37	55.42	57.93	6 39 14	2129.0	-37.99	70.18
52.91	22 8 2	4145.35	-34.05	188.23	55.43	57.95	23 17 7	3545.3	-38.00	180.04
127.09	5 53 45	2729.02	-34.04	78.37	55.42	57.93	6 39 14	2129.0	-37.99	70.18
52.91	22 8 2	4145.35	-34.05	188.23	55.43	57.95	23 17 7	3545.3	-38.00	180.04
127.09	5 53 45	2729.02	-34.04	78.37	55.42	57.93	6 39 14	2129.0	-37.99	70.18

DIFFERENTIAL CORRECTIONS
TOE .3889 TRA .3025 TC3 -.9141 BAU .5143
RCE .3715 RRA 1.5914 RC3-2.8331 FAU .05018
FOE .3730 FRA 1.8060 FC3-3.3619 BSP 13426
BOE .5379 BRA 1.6199 BC3 2.9769 FSP -1323

MID-COURSE EXECUTION ACCURACY
SGT 1134.8 SGR 4188.8 SG3 414.3
RRT .8806 RRF .9997 RTF .8768
SGB 4339.8 R23 .0368 R13 .9990
SG1 4308.2 SG2 522.7 THA 76.38

ORBIT DETERMINATION ACCURACY
ST 653.5 SR 1236.3 SS 723.1
CRT .7321 CRS -.9988 CST -.6972
LSA 1515.1 MSA 427.6 SSA 2.0
EL1 1336.4 EL2 411.9 ALF 66.48

LAUNCH DATE MAY 20 1967 FLIGHT TIME 160.00 ARRIVAL DATE OCT 27 1967

HELIOCENTRIC CONIC DISTANCE 433.542

RL 151.37 LAL -.00 LOL 238.31 VL 27.054 GAL 2.26 AZL 87.43 HCA 190.30 SMA 129.91 ECC .16970 INC 2.5735 V1 29.434
RP 107.87 LAP -.46 LOP 68.60 VP 37.936 GAP -.13 AZP 92.53 TAL 168.82 TAP 359.12 RCA 107.87 APO 151.96 V2 35.131
RC 87.767 GL 25.63 GP -56.22 ZAL 75.12 ZAP 91.54 ETS 358.73 ZAE 126.98 ETE 256.99 ZAC 112.64 ETC 352.72 CLP -92.77

PLANETOCENTRIC CONIC

C3 7.880 VHL 2.807 DLA 29.37 RAL 177.11 RAD 6567.3 VEL 11.370 PTH 1.96 VHP 4.689 DPA -39.52 RAP 135.92 ECC 1.1297

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.85	0 15 33	3554.73	-24.75	136.43	32.15	73.65	1 14 48	2954.7	-26.75	128.24
98.15	2 29 29	3122.01	-24.74	104.66	32.14	73.64	3 21 31	2522.0	-26.75	96.48
100.00	3 30 36	2926.25	-27.68	90.98	32.96	78.24	4 19 22	2326.2	-29.02	82.43
100.00	1 57 7	3225.72	-21.88	111.29	31.09	69.10	2 50 53	2625.7	-24.52	103.49
110.00	6 7 51	2433.64	-34.15	54.49	33.84	88.48	6 48 24	1833.6	-33.99	45.25
110.00	1 36 22	3291.09	-16.01	113.22	28.10	59.38	2 31 13	2691.1	-19.95	106.32

DIFFERENTIAL CORRECTIONS
TOE .2055 TRA .3535 TC3-2.1330 BAU .5103
RCE .0838 RRA 1.2272 RC3-4.3489 FAU .08246
FOE .0772 FRA 2.4622 FC3-9.0601 BSP 12486
BOE .2220 BRA 1.2770 BC3 4.8438 FSP -2109

MID-COURSE EXECUTION ACCURACY
SGT 1515.0 SGR 3775.2 SG3 664.5
RRT .9398 RRF .9995 RTF .9381
SGB 4067.8 R23 .0494 R13 .9983
SG1 4038.9 SG2 484.0 THA 69.02

ORBIT DETERMINATION ACCURACY
ST 488.8 SR 882.1 SS 706.5
CRT .6692 CRS -.9945 CST -.5880
LSA 1175.8 MSA 365.8 SSA 3.9
EL1 950.5 EL2 337.1 ALF 66.53

LAUNCH DATE MAY 20 1967 FLIGHT TIME 162.00 ARRIVAL DATE OCT 29 1967

HELIOCENTRIC CONIC DISTANCE 439.876

RL 151.37 LAL -.00 LOL 238.31 VL 27.053 GAL 2.32 AZL 88.84 HCA 193.51 SMA 129.91 ECC .17000 INC 1.1567 V1 29.434
RP 107.83 LAP -.27 LOP 71.82 VP 37.946 GAP .30 AZP 91.12 TAL 168.53 TAP 2.04 RCA 107.82 APO 151.99 V2 35.143
RC 89.996 GL 12.22 GP -47.69 ZAL 73.10 ZAP 95.71 ETS 354.77 ZAE 134.05 ETE 249.32 ZAC 115.27 ETC 354.47 CLP -98.49

PLANETOCENTRIC CONIC

C3 6.651 VHL 2.579 DLA 16.90 RAL 171.68 RAD 6567.2 VEL 11.316 PTH 1.95 VHP 4.034 DPA -31.16 RAP 138.71 ECC 1.1095

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 42 57	2541.33	-25.92	63.27	21.79	101.81	5 25 18	1941.3	-24.03	55.11
90.00	21 14 50	4074.94	-3.99	165.00	18.57	61.94	22 22 45	3474.9	-7.71	158.29
100.00	6 13 56	2247.92	-26.86	41.45	21.55	103.63	6 51 24	1647.9	-24.72	33.31
100.00	22 26 32	3843.58	-3.15	147.52	18.10	60.26	23 30 35	3243.6	-7.08	140.95
110.00	7 43 27	1967.84	-29.28	19.39	20.76	108.48	8 16 15	1367.8	-26.48	11.33
110.00	23 13 30	3696.43	-1.01	135.03	16.77	55.83	24 15 6	3096.4	-5.49	128.80

DIFFERENTIAL CORRECTIONS
TOE .0337 TRA .4152 TC3-3.1984 BAU .4993
RCE -.1368 RRA .9960 RC3-4.6151 FAU .10941
FOE -.5719 FRA 2.9683 FC-14.2417 BSP 11861
BOE .1409 BRA 1.0791 BC3 5.6150 FSP -2818

MID-COURSE EXECUTION ACCURACY
SGT 1912.2 SGR 3332.8 SG3 877.2
RRT .9625 RRF .9993 RTF .9615
SGB 3842.4 R23 .0674 R13 .9970
SG1 3815.5 SG2 453.3 THA 60.64

ORBIT DETERMINATION ACCURACY
ST 302.8 SR 760.9 SS 849.3
CRT .7873 CRS -.9906 CST -.6961
LSA 1160.0 MSA 214.7 SSA 8.5
EL1 799.4 EL2 177.7 ALF 71.66

LAUNCH DATE MAY 20 1967 FLIGHT TIME 164.00 ARRIVAL DATE OCT 31 1967

HELIOCENTRIC CONIC DISTANCE 446.197

RL 151.37 LAL -.00 LOL 238.31 VL 27.050 GAL 2.40 AZL 89.72 HCA 196.73 SMA 129.88 ECC .17049 INC .2755 V1 29.434
RP 107.80 LAP -.08 LOP 75.05 VP 37.954 GAP .72 AZP 90.26 TAL 168.20 TAP 4.93 RCA 107.74 APO 152.03 V2 35.154
RC 92.232 GL 2.95 GP -40.83 ZAL 71.96 ZAP 100.47 ETS 351.94 ZAE 138.73 ETE 240.81 ZAC 117.51 ETC 356.32 CLP-103.89

PLANETOCENTRIC CONIC

C3 6.421 VHL 2.534 DLA 8.09 RAL 168.62 RAD 6567.2 VEL 11.305 PTH 1.94 VHP 3.703 DPA -24.23 RAP 140.05 ECC 1.1057

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 46 38	2233.64	-20.03	42.69	15.89	110.45	6 23 51	1633.6	-17.06	35.27
90.00	19 46 43	4370.53	5.52	181.52	14.24	62.18	20 59 34	3770.5	1.75	174.86
100.00	7 11 53	1958.68	-20.77	22.16	15.58	112.00	7 44 31	1358.7	-17.60	14.80
100.00	21 4 9	4120.72	6.22	162.77	13.86	60.70	22 12 50	3520.7	2.26	156.21
110.00	8 29 3	1717.20	-22.74	2.88	14.63	116.24	8 57 40	1117.2	-19.02	355.71
110.00	22 3 29	3934.97	8.06	147.55	12.73	56.67	23 9 4	3335.0	3.62	141.27

DIFFERENTIAL CORRECTIONS
TOE -.1303 TRA .4887 TC3-3.9575 BAU .4937
RCE -.2527 RRA .8359 RC3-4.1736 FAU .12756
FOE-1.2705 FRA 3.3280 FC-17.1996 BSP 11382
BOE .2843 BRA .9683 BC3 5.7516 FSP -3309

MID-COURSE EXECUTION ACCURACY
SGT 2314.1 SGR 2906.1 SG3 1029.6
RRT .9727 RRF .9988 RTF .9723
SGB 3714.9 R23 .0870 R13 .9950
SG1 3690.7 SG2 422.8 THA 51.64

ORBIT DETERMINATION ACCURACY
ST 450.0 SR 811.5 SS 1176.5
CRT .9965 CRS -.9933 CST -.9823
LSA 1495.0 MSA 99.6 SSA 17.4
EL1 927.4 EL2 32.9 ALF 61.03

LAUNCH DATE MAY 20 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 2 1967

HELIOCENTRIC CONIC DISTANCE 452.502

```
RL  151.37 LAL   -.00 LOL 238.31 VL  27.045 GAL   2.48 AZL  90.33 HCA 199.96 SMA 129.85 ECC .17118 INC  .3266 V1  29.434
RP  107.77 LAP    .11 LOP  78.27 VP  37.960 GAP   1.14 AZP  89.69 TAL 167.83 TAP   7.78 RCA 107.62 APO 152.07 V2  35.165
RC  94.474 GL   -3.46 GP -35.25 ZAL  71.16 ZAP 105.43 ETS 349.93 ZAE 141.43 ETE 231.99 ZAC 119.37 ETC 358.17 CLP-109.01
```

PLANETOCENTRIC CONIC

```
C3   6.528 VHL  2.555 DLA   1.87 RAL 166.87 RAD 6567.2 VEL 11.310 PTH   1.94 VHP  3.539 DPA -18.48 RAP 140.69 ECC 1.1074
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 26 49	2040.88	-15.01	30.77	13.23	114.30	7 0 49	1440.9	-11.60	23.75
90.00	18 52 34	4568.95	11.65	192.87	12.84	64.01	20 8 43	3969.0	8.06	186.03
100.00	7 49 1	1775.70	-15.71	10.93	12.90	115.76	8 18 37	1175.7	-12.11	3.99
100.00	20 13 3	4309.37	12.34	173.43	12.49	62.56	21 24 52	3709.4	8.57	166.67
110.00	8 59 16	1555.84	-17.56	353.23	11.88	119.81	9 25 12	955.8	-13.46	346.51
110.00	21 19 18	4101.99	14.16	156.63	11.43	58.56	22 27 40	3502.0	9.90	150.12

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE -.2913 TRA  .5674 TC3-4.4927 BAU  .5004   SGT 2705.1 SGR 2518.1 SG3 1122.5     ST   759.8 SR   836.5 SS  1496.1
 ROE -.3045 RRA  .7129 RC3-3.5638 FAU .13813   RRT  .9781 RRF  .9981 RTF  .9782     CRT  .9962 CRS -.9946 CST -.9992
 FOE-1.9018 FRA 3.5365 FC-18.3201 BSP  11297   SGB 3695.8 R23  .1026 R13  .9928     LSA 1873.3 MSA   75.5 SSA    22.0
 BOE  .4214 BRA  .9111 BC3 5.7345 FSP  -3626   SG1 3675.6 SG2  385.4 THA  42.90     EL1 1129.0 EL2   48.9 ALF   47.76
```

LAUNCH DATE MAY 20 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 4 1967

HELIOCENTRIC CONIC DISTANCE 458.789

```
RL  151.37 LAL   -.00 LOL 238.31 VL  27.037 GAL   2.58 AZL  90.77 HCA 203.18 SMA 129.80 ECC .17206 INC  .7682 V1  29.434
RP  107.73 LAP    .30 LOP  81.50 VP  37.964 GAP   1.55 AZP  89.29 TAL 167.40 TAP  10.59 RCA 107.46 APO 152.13 V2  35.175
RC  96.719 GL   -8.01 GP -30.65 ZAL  70.43 ZAP 110.33 ETS 348.54 ZAE 142.58 ETE 223.56 ZAC 120.87 ETC 360.00 CLP-113.82
```

PLANETOCENTRIC CONIC

```
C3   6.770 VHL  2.602 DLA  -2.66 RAL 165.92 RAD 6567.2 VEL 11.321 PTH   1.95 VHP  3.474 DPA -13.70 RAP 141.00 ECC 1.1114
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 56 39	1906.68	-11.10	22.85	12.23	116.22	7 28 25	1306.7	-7.49	16.04
90.00	18 15 12	4715.73	15.86	201.59	12.80	66.23	19 33 47	4115.7	12.52	194.51
100.00	8 16 45	1648.29	-11.80	3.49	11.87	117.66	8 44 13	1048.3	-8.01	356.76
100.00	19 37 47	4449.36	16.58	181.66	12.47	64.76	20 51 56	3849.4	13.04	174.65
110.00	9 22 9	1443.56	-13.65	346.87	10.79	121.65	9 46 12	843.6	-9.36	340.40
110.00	20 48 52	4226.85	18.47	163.75	11.45	60.71	21 59 19	3626.8	14.42	156.97

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE -.4491 TRA  .6498 TC3-4.8758 BAU  .5170   SGT 3076.9 SGR 2175.3 SG3 1164.6     ST  1081.0 SR   807.9 SS  1746.0
 ROE -.3159 RRA  .6170 RC3-2.9756 FAU .14220   RRT  .9809 RRF  .9968 RTF  .9817     CRT  .9927 CRS -.9946 CST -.9996
 FOE-2.4021 FRA 3.6338 FC-18.1850 BSP  11509   SGB 3768.2 R23  .1103 R13  .9909     LSA 2205.1 MSA   82.8 SSA    20.0
 BOE  .5491 BRA  .8961 BC3 5.7121 FSP  -3778   SG1 3752.2 SG2  347.2 THA  35.08     EL1 1347.3 EL2   78.3 ALF   36.71
```

LAUNCH DATE MAY 20 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 6 1967

HELIOCENTRIC CONIC DISTANCE 465.057

```
RL  151.37 LAL   -.00 LOL 238.31 VL  27.028 GAL   2.69 AZL  91.11 HCA 206.41 SMA 129.73 ECC .17312 INC 1.1075 V1  29.434
RP  107.70 LAP    .49 LOP  84.72 VP  37.967 GAP   1.96 AZP  89.01 TAL 166.94 TAP  13.35 RCA 107.27 APO 152.19 V2  35.185
RC  98.967 GL  -11.32 GP -26.83 ZAL  69.67 ZAP 115.06 ETS 347.59 ZAE 142.60 ETE 216.09 ZAC 122.01 ETC   1.76 CLP-118.33
```

PLANETOCENTRIC CONIC

```
C3   7.075 VHL  2.660 DLA  -6.09 RAL 165.51 RAD 6567.2 VEL 11.334 PTH   1.95 VHP  3.472 DPA  -9.73 RAP 141.18 ECC 1.1164
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 20 48	1807.25	-8.06	17.14	12.16	117.24	7 50 55	1207.3	-4.34	10.43
90.00	17 47 48	4830.64	18.88	208.67	13.50	68.50	19 8 18	4230.6	15.79	201.36
100.00	8 39 15	1554.16	-8.77	358.14	11.77	118.69	9 5 9	954.2	-4.88	351.52
100.00	19 12 1	4558.97	19.63	188.37	13.18	66.99	20 28 0	3959.0	16.35	181.11
110.00	9 40 53	1361.18	-10.66	342.36	10.64	122.67	10 3 35	761.2	-6.28	336.01
110.00	20 26 52	4324.71	21.62	169.59	12.18	62.85	21 38 57	3724.7	17.81	162.53

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE -.6034 TRA  .7351 TC3-5.1514 BAU  .5404   SGT 3425.6 SGR 1879.3 SG3 1168.4     ST  1397.2 SR   745.2 SS  1926.0
 ROE -.3044 RRA  .5413 RC3-2.4699 FAU .14145   RRT  .9818 RRF  .9949 RTF  .9838     CRT  .9902 CRS -.9935 CST -.9995
 FOE-2.7664 FRA 3.6516 FC-17.3080 BSP  11956   SGB 3907.3 R23  .1093 R13  .9895     LSA 2486.0 MSA   92.0 SSA    18.4
 BOE  .6759 BRA  .9129 BC3 5.7129 FSP  -3805   SG1 3894.6 SG2  314.1 THA  28.51     EL1 1572.0 EL2   91.9 ALF   28.11
```

LAUNCH DATE MAY 20 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 8 1967

HELIOCENTRIC CONIC DISTANCE 471.306

```
RL  151.37 LAL   -.00 LOL 238.31 VL  27.017 GAL   2.82 AZL  91.38 HCA 209.65 SMA 129.66 ECC .17437 INC 1.3774 V1  29.434
RP  107.67 LAP    .68 LOP  87.95 VP  37.968 GAP   2.37 AZP  88.80 TAL 166.43 TAP  16.08 RCA 107.05 APO 152.26 V2  35.195
RC 101.218 GL  -13.78 GP -23.63 ZAL  68.84 ZAP 119.51 ETS 346.95 ZAE 141.88 ETE 209.83 ZAC 122.81 ETC   3.42 CLP-122.53
```

PLANETOCENTRIC CONIC

```
C3   7.417 VHL  2.723 DLA  -8.76 RAL 165.49 RAD 6567.2 VEL 11.349 PTH   1.96 VHP  3.515 DPA  -6.42 RAP 141.35 ECC 1.1221
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 41 29	1730.31	-5.64	12.78	12.66	117.80	8 10 19	1130.3	-1.87	6.12
90.00	17 26 57	4924.43	21.11	214.65	14.64	70.68	18 49 2	4324.4	18.28	207.12
100.00	8 58 34	1481.64	-6.38	354.09	12.26	119.27	9 23 15	881.6	-2.43	347.53
100.00	18 52 34	4648.33	21.90	194.03	14.33	69.13	20 10 2	4048.3	18.87	186.55
110.00	9 57 6	1298.36	-8.33	338.99	11.06	123.27	10 18 44	698.4	-3.90	332.71
110.00	20 10 31	4404.38	24.01	174.54	13.36	64.90	21 23 55	3804.4	20.43	167.23

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE -.7533 TRA  .8231 TC3-5.3438 BAU  .5677   SGT 3748.8 SGR 1626.6 SG3 1144.5     ST  1671.9 SR   665.6 SS  2046.3
 ROE -.2803 RRA  .4809 RC3-2.0531 FAU .13737   RRT  .9811 RRF  .9918 RTF  .9852     CRT  .9873 CRS -.9915 CST -.9995
 FOE-3.0070 FRA 3.6139 FC-16.0330 BSP  12552   SGB 4086.5 R23  .1003 R13  .9887     LSA 2723.2 MSA   99.1 SSA    17.6
 BOE  .8037 BRA  .9533 BC3 5.7247 FSP  -3745   SG1 4076.3 SG2  289.2 THA  23.18     EL1 1796.8 EL2   98.5 ALF   21.53
```

LAUNCH DATE MAY 20 1967 FLIGHT TIME 174.00 ARRIVAL DATE NOV 10 1967

HELIOCENTRIC CONIC DISTANCE 477.536

RL 151.37 LAL -.00 LOL 238.31 VL 27.004 GAL 2.96 AZL 91.60 HCA 212.88 SMA 129.57 ECC .17580 INC 1.5987 VI 29.434
RP 107.65 LAP .87 LOP 91.19 VP 37.967 GAP 2.78 AZP 88.66 TAL 165.88 TAP 18.76 RCA 106.79 APO 152.35 V2 35.204
RC 103.470 GL -15.64 GP -20.95 ZAL 67.94 ZAP 123.68 ETS 346.53 ZAE 140.73 ETE 204.74 ZAC 123.29 ETC 4.95 CLP-126.43

PLANETOCENTRIC CONIC

C3 7.787 VHL 2.791 DLA -10.91 RAL 165.77 RAD 6567.3 VEL 11.366 PTH 1.96 VHP 3.589 OPA -3.68 RAP 141.60 ECC 1.1282

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 59 53	1668.87	-3.68	9.33	13.57	118.10	8 27 42	1068.9	.11	2.70
90.00	17 10 44	5003.54	22.80	219.83	16.09	72.74	18 34 8	4403.5	20.22	212.11
100.00	9 15 46	1424.05	-4.45	350.90	13.14	119.59	9 39 30	824.1	-.48	344.37
100.00	18 37 32	4723.58	23.65	198.94	15.79	71.16	19 56 16	4123.6	20.85	191.26
110.00	10 11 38	1249.10	-6.48	336.37	11.88	123.64	10 32 27	649.1	-2.02	330.13
110.00	19 58 10	4471.30	25.87	178.84	14.85	66.84	21 12 41	3871.3	22.51	171.30

DIFFERENTIAL CORRECTIONS
TDE -.8985 TRA .9146 TC3-5.4662 BAU .5964
RDE -.2498 RRA .4327 RC3-1.7127 FAU .13092
FDE-3.1461 FRA 3.5445 FC-14.5550 BSP 13206
BDE .9326 BRA 1.0118 BC3 5.7283 FSP -3615

MID-COURSE EXECUTION ACCURACY
SGT 4045.7 SGR 1412.6 SG3 1101.9
RRT .9786 RRF .9872 RTF .9860
SGB 4285.2 R23 .0865 R13 .9881
SG1 4276.4 SG2 274.9 THA 18.95

ORBIT DETERMINATION ACCURACY
ST 1934.1 SR 581.1 SS 2120.0
CRT .9829 CRS -.9879 CST -.9995
LSA 2926.0 MSA 104.8 SSA 17.3
EL1 2016.9 EL2 102.5 ALF 16.50

LAUNCH DATE MAY 20 1967 FLIGHT TIME 176.00 ARRIVAL DATE NOV 12 1967

HELIOCENTRIC CONIC DISTANCE 483.746

RL 151.37 LAL -.00 LOL 238.31 VL 26.990 GAL 3.11 AZL 91.78 HCA 216.12 SMA 129.47 ECC .17741 INC 1.7845 VI 29.434
RP 107.62 LAP 1.05 LOP 94.42 VP 37.964 GAP 3.18 AZP 88.56 TAL 165.29 TAP 21.41 RCA 106.50 APO 152.44 V2 35.212
RC 105.723 GL -17.06 GP -18.68 ZAL 66.96 ZAP 127.55 ETS 346.26 ZAE 139.36 ETE 200.70 ZAC 123.47 ETC 6.34 CLP-130.04

PLANETOCENTRIC CONIC

C3 8.183 VHL 2.861 DLA -12.67 RAL 166.27 RAD 6567.3 VEL 11.383 PTH 1.97 VHP 3.689 OPA -1.41 RAP 141.96 ECC 1.1347

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 16 42	1618.67	-2.06	6.52	14.77	118.25	8 43 41	1018.7	1.73	359.90
90.00	16 57 56	5072.04	24.11	224.42	17.76	74.68	18 22 28	4472.0	21.77	216.53
100.00	9 31 30	1377.31	-2.88	348.33	14.32	119.77	9 54 28	777.3	1.11	341.80
100.00	18 25 49	4788.63	25.01	203.29	17.48	73.07	19 45 38	4188.6	22.45	195.43
110.00	10 25 1	1209.71	-4.99	334.30	13.00	123.86	10 45 11	609.7	-.51	328.08
110.00	19 48 47	4528.99	27.36	182.67	16.57	68.66	21 4 16	3929.0	24.21	174.91

DIFFERENTIAL CORRECTIONS
TDE-1.0367 TRA 1.0120 TC3-5.5215 BAU .6241
RDE -.2159 RRA .3949 RC3-1.4345 FAU .12286
FDE-3.1971 FRA 3.4637 FC-12.9982 BSP 13838
BDE 1.0589 BRA 1.0863 BC3 5.7048 FSP -3432

MID-COURSE EXECUTION ACCURACY
SGT 4313.6 SGR 1232.0 SG3 1047.1
RRT .9738 RRF .9803 RTF .9863
SGB 4486.1 R23 .0708 R13 .9877
SG1 4477.9 SG2 270.1 THA 15.60

ORBIT DETERMINATION ACCURACY
ST 2170.1 SR 496.8 SS 2152.7
CRT .9758 CRS -.9818 CST -.9995
LSA 3094.8 MSA 110.1 SSA 17.2
EL1 2223.7 EL2 106.0 ALF 12.62

LAUNCH DATE MAY 20 1967 FLIGHT TIME 178.00 ARRIVAL DATE NOV 14 1967

HELIOCENTRIC CONIC DISTANCE 489.935

RL 151.37 LAL -.00 LOL 238.31 VL 26.974 GAL 3.28 AZL 91.94 HCA 219.36 SMA 129.37 ECC .17921 INC 1.9436 VI 29.434
RP 107.60 LAP 1.23 LOP 97.65 VP 37.960 GAP 3.59 AZP 88.50 TAL 164.66 TAP 24.01 RCA 106.18 APO 152.55 V2 35.220
RC 107.975 GL -18.14 GP -16.75 ZAL 65.91 ZAP 131.13 ETS 346.08 ZAE 137.91 ETE 197.50 ZAC 123.38 ETC 7.57 CLP-133.38

PLANETOCENTRIC CONIC

C3 8.606 VHL 2.934 DLA -14.15 RAL 166.96 RAD 6567.3 VEL 11.402 PTH 1.97 VHP 3.809 OPA .46 RAP 142.45 ECC 1.1416

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 32 22	1577.02	-.72	4.20	16.20	118.31	8 58 39	977.0	3.07	357.57
90.00	16 47 46	5132.64	25.14	228.57	19.61	76.51	18 13 19	4532.6	23.03	220.53
100.00	9 46 12	1338.83	-1.57	346.21	15.72	119.85	10 8 30	738.8	2.41	339.69
100.00	18 16 38	4846.05	26.09	207.22	19.34	74.86	19 37 24	4246.1	23.75	199.20
110.00	10 37 35	1177.85	-3.78	332.62	14.35	124.00	10 57 13	577.9	.71	326.42
110.00	19 41 44	4579.80	28.57	186.12	18.47	70.38	20 58 4	3979.8	25.63	178.18

DIFFERENTIAL CORRECTIONS
TDE-1.1724 TRA 1.1112 TC3-5.5400 BAU .6525
RDE -.1826 RRA .3637 RC3-1.2154 FAU .11472
FDE-3.1995 FRA 3.3642 FC-11.5407 BSP 14532
BDE 1.1865 BRA 1.1692 BC3 5.6717 FSP -3252

MID-COURSE EXECUTION ACCURACY
SGT 4562.6 SGR 1082.8 SG3 988.2
RRT .9664 RRF .9707 RTF .9866
SGB 4689.4 R23 .0541 R13 .9874
SG1 4681.5 SG2 271.3 THA 12.96

ORBIT DETERMINATION ACCURACY
ST 2398.2 SR 419.5 SS 2163.6
CRT .9646 CRS -.9717 CST -.9995
LSA 3247.6 MSA 114.4 SSA 17.2
EL1 2422.3 EL2 109.1 ALF 9.64

LAUNCH DATE MAY 20 1967 FLIGHT TIME 180.00 ARRIVAL DATE NOV 16 1967

HELIOCENTRIC CONIC DISTANCE 496.103

RL 151.37 LAL -.00 LOL 238.31 VL 26.957 GAL 3.46 AZL 92.08 HCA 222.60 SMA 129.25 ECC .18120 INC 2.0823 VI 29.434
RP 107.58 LAP 1.41 LOP 100.89 VP 37.955 GAP 3.99 AZP 88.47 TAL 163.99 TAP 26.59 RCA 105.83 APO 152.67 V2 35.227
RC 110.226 GL -18.96 GP -15.10 ZAL 64.79 ZAP 134.43 ETS 345.95 ZAE 136.46 ETE 194.97 ZAC 123.04 ETC 8.65 CLP-136.48

PLANETOCENTRIC CONIC

C3 9.060 VHL 3.010 DLA -15.41 RAL 167.81 RAD 6567.3 VEL 11.421 PTH 1.98 VHP 3.945 OPA 1.98 RAP 143.08 ECC 1.1491

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 47 11	1542.12	.41	2.26	17.82	118.31	9 12 53	942.1	4.19	355.62
90.00	16 39 42	5187.20	25.95	232.36	21.61	78.25	18 6 10	4587.2	24.07	224.19
100.00	10 0 5	1306.89	-.49	344.46	17.32	119.89	10 21 52	706.9	3.49	337.94
100.00	18 9 29	4897.66	26.95	210.81	21.36	76.56	19 31 7	4297.7	24.84	202.65
110.00	10 49 33	1151.96	-2.80	331.27	15.88	124.08	11 8 45	552.0	1.70	325.07
110.00	19 36 31	4625.36	29.57	189.29	20.52	72.01	20 53 36	4025.4	26.83	181.18

DIFFERENTIAL CORRECTIONS
TDE-1.3038 TRA 1.2155 TC3-5.5138 BAU .6796
RDE -.1500 RRA .3387 RC3-1.0372 FAU .10633
FDE-3.1610 FRA 3.2628 FC-10.1606 BSP 15198
BDE 1.3124 BRA 1.2618 BC3 5.6105 FSP -3062

MID-COURSE EXECUTION ACCURACY
SGT 4789.3 SGR 958.5 SG3 927.0
RRT .9555 RRF .9574 RTF .9866
SGB 4884.3 R23 .0390 R13 .9871
SG1 4876.4 SG2 277.5 THA 10.86

ORBIT DETERMINATION ACCURACY
ST 2586.0 SR 349.5 SS 2154.8
CRT .9460 CRS -.9546 CST -.9996
LSA 3382.1 MSA 118.5 SSA 17.3
EL1 2607.1 EL2 112.4 ALF 7.30

LAUNCH DATE MAY 20 1967 FLIGHT TIME 182.00 ARRIVAL DATE NOV 18 1967

HELIOCENTRIC CONIC DISTANCE 502.248
RL 151.37 LAL -.00 LOL 238.31 VL 26.939 GAL 3.66 AZL 92.20 HCA 225.84 SMA 129.13 ECC .18338 INC 2.2049 V1 29.434
RP 107.56 LAP 1.58 LOP 104.13 VP 37.948 GAP 4.40 AZP 88.46 TAL 163.28 TAP 29.12 RCA 105.45 APO 152.81 V2 35.233
RC 112.475 GL -19.56 GP -13.69 ZAL 63.61 ZAP 137.49 ETS 345.85 ZAE 135.07 ETE 192.97 ZAC 122.50 ETC 9.59 CLP-139.36
PLANETOCENTRIC CONIC
C3 9.550 VHL 3.090 DLA -16.50 RAL 168.78 RAD 6567.3 VEL 11.443 PTH 1.98 VHP 4.094 DPA 3.22 RAP 143.85 ECC 1.1572

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 1 19	1512.78	1.36	.62	19.60	118.29	9 26 31	912.8	5.13	353.97
90.00	16 33 22	5237.03	26.59	235.86	23.73	79.89	18 0 39	4637.0	24.93	227.59
100.00	10 13 21	1280.33	.41	343.00	19.08	119.89	10 34 41	680.3	4.38	336.47
100.00	18 4 0	4944.72	27.66	214.13	23.50	78.18	19 26 25	4344.7	25.75	205.85
110.00	11 1 2	1130.98	-2.00	330.17	17.57	124.13	11 19 52	531.0	2.50	323.97
110.00	19 32 49	4666.83	30.41	192.23	22.71	73.57	20 50 36	4066.8	27.86	183.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TOE-1.4307 TRA 1.3260 TC3-5.4490 BAU .7049 SGT 4995.2 SGR 855.5 SG3 866.1 ST 2763.7 SR 287.6 SS 2129.9
ROE -.1184 RRA .3188 RC3 -.8917 FAU .09803 RRT .9405 RRF .9397 RTF .9865 CRT .9140 CRS -.9247 CST -.9996
FOE-3.0916 FRA 3.1652 FC3-8.8870 BSP 15827 SGB 5067.9 R23 .0261 R13 .9867 LSA 3498.8 MSA 122.7 SSA 17.3
BOE 1.4356 BRA 1.3637 BC3 5.5215 FSP -2872 SG1 5059.8 SG2 287.1 THA 9.18 EL1 2776.2 EL2 116.1 ALF 5.44

LAUNCH DATE MAY 20 1967 FLIGHT TIME 184.00 ARRIVAL DATE NOV 20 1967

HELIOCENTRIC CONIC DISTANCE 508.372
RL 151.37 LAL -.00 LOL 238.31 VL 26.920 GAL 3.87 AZL 92.31 HCA 229.08 SMA 129.00 ECC .18576 INC 2.3148 V1 29.434
RP 107.54 LAP 1.75 LOP 107.37 VP 37.940 GAP 4.81 AZP 88.48 TAL 162.55 TAP 31.63 RCA 105.04 APO 152.96 V2 35.239
RC 114.720 GL -19.98 GP -12.48 ZAL 62.37 ZAP 140.33 ETS 345.76 ZAE 133.76 ETE 191.37 ZAC 121.76 ETC 10.38 CLP-142.03
PLANETOCENTRIC CONIC
C3 10.080 VHL 3.175 DLA -17.44 RAL 169.87 RAD 6567.4 VEL 11.466 PTH 1.99 VHP 4.255 DPA 4.21 RAP 144.75 ECC 1.1659

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 14 52	1488.16	2.15	359.24	21.53	118.24	9 39 41	888.2	5.91	352.58
90.00	16 28 27	5283.07	27.10	239.14	25.97	81.46	17 56 30	4683.1	25.64	230.77
100.00	10 26 6	1258.34	1.16	341.80	20.98	119.87	10 47 4	658.3	5.12	335.26
100.00	17 59 55	4988.14	28.22	217.23	25.76	79.71	19 23 3	4388.1	26.51	208.85
110.00	11 12 7	1114.18	-1.35	329.30	19.41	124.16	11 30 41	514.2	3.14	323.09
110.00	19 30 24	4705.06	31.11	194.99	25.01	75.06	20 48 49	4105.1	28.75	186.59

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TOE-1.5512 TRA 1.4456 TC3-5.3414 BAU .7273 SGT 5178.4 SGR 770.2 SG3 806.3 ST 2918.7 SR 234.2 SS 2090.0
ROE -.0877 RRA .3032 RC3 -.7701 FAU .08973 RRT .9202 RRF .9167 RTF .9861 CRT .8565 CRS -.8700 CST -.9996
FOE-2.9964 FRA 3.0784 FC3-7.7065 BSP 16352 SGB 5235.4 R23 .0159 R13 .9863 LSA 3595.2 MSA 127.4 SSA 17.3
BOE 1.5536 BRA 1.4770 BC3 5.3966 FSP -2671 SG1 5226.9 SG2 298.8 THA 7.82 EL1 2925.6 EL2 120.6 ALF 3.94

LAUNCH DATE MAY 20 1967 FLIGHT TIME 186.00 ARRIVAL DATE NOV 22 1967

HELIOCENTRIC CONIC DISTANCE 514.471
RL 151.37 LAL -.00 LOL 238.31 VL 26.900 GAL 4.10 AZL 92.41 HCA 232.33 SMA 128.86 ECC .18834 INC 2.4143 V1 29.434
RP 107.52 LAP 1.91 LOP 110.61 VP 37.930 GAP 5.22 AZP 88.52 TAL 161.78 TAP 34.10 RCA 104.59 APO 153.13 V2 35.244
RC 116.961 GL -20.26 GP -11.43 ZAL 61.09 ZAP 142.95 ETS 345.66 ZAE 132.54 ETE 190.07 ZAC 120.86 ETC 11.05 CLP-144.52
PLANETOCENTRIC CONIC
C3 10.658 VHL 3.265 DLA -18.26 RAL 171.05 RAD 6567.4 VEL 11.491 PTH 2.00 VHP 4.427 DPA 4.98 RAP 145.78 ECC 1.1754

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 27 56	1467.70	2.81	358.10	23.57	118.19	9 52 24	867.7	6.56	351.43
90.00	16 24 47	5326.00	27.50	242.22	28.31	82.95	17 53 33	4726.0	26.24	233.78
100.00	10 38 23	1240.37	1.76	340.81	22.99	119.85	10 59 4	640.4	5.72	334.26
100.00	17 57 2	5028.57	28.68	220.15	28.12	81.19	19 20 50	4428.6	27.16	211.68
110.00	11 22 51	1101.04	-.85	328.61	21.36	124.17	11 41 12	501.0	3.64	322.40
110.00	19 29 3	4740.66	31.71	197.59	27.43	76.50	20 48 3	4140.7	29.52	189.07

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TOE-1.6715 TRA 1.5693 TC3-5.2183 BAU .7497 SGT 5350.3 SGR 700.6 SG3 750.6 ST 3061.5 SR 191.8 SS 2047.6
ROE -.0590 RRA .2903 RC3 -.6718 FAU .08230 RRT .8947 RRF .8881 RTF .9859 CRT .7579 CRS -.7745 CST -.9996
FOE-2.8992 FRA 2.9902 FC3-6.6852 BSP 16906 SGB 5396.0 R23 .0067 R13 .9859 LSA 3685.7 MSA 131.6 SSA 17.2
BOE 1.6725 BRA 1.5960 BC3 5.2614 FSP -2495 SG1 5387.0 SG2 310.8 THA 6.70 EL1 3064.9 EL2 125.0 ALF 2.72

LAUNCH DATE MAY 20 1967 FLIGHT TIME 188.00 ARRIVAL DATE NOV 24 1967

HELIOCENTRIC CONIC DISTANCE 520.545
RL 151.37 LAL -.00 LOL 238.31 VL 26.879 GAL 4.35 AZL 92.51 HCA 235.57 SMA 128.72 ECC .19114 INC 2.5056 V1 29.434
RP 107.51 LAP 2.07 LOP 113.86 VP 37.919 GAP 5.64 AZP 88.58 TAL 160.98 TAP 36.55 RCA 104.12 APO 153.32 V2 35.248
RC 119.197 GL -20.41 GP -10.51 ZAL 59.77 ZAP 145.40 ETS 345.53 ZAE 131.42 ETE 189.03 ZAC 119.81 ETC 11.60 CLP-146.84
PLANETOCENTRIC CONIC
C3 11.290 VHL 3.360 DLA -18.98 RAL 172.30 RAD 6567.4 VEL 11.519 PTH 2.01 VHP 4.609 DPA 5.56 RAP 146.93 ECC 1.1858

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 40 32	1450.98	3.35	357.17	25.73	118.13	10 4 43	851.0	7.08	350.48
90.00	16 22 12	5366.34	27.80	245.13	30.74	84.38	17 51 39	4766.3	26.73	236.63
100.00	10 50 15	1226.02	2.25	340.02	25.12	119.82	11 10 41	626.0	6.20	333.46
100.00	17 55 11	5066.53	29.04	222.91	30.58	82.60	19 19 37	4466.5	27.71	214.36
110.00	11 33 17	1091.20	-.47	328.10	23.42	124.18	11 51 28	491.2	4.01	321.89
110.00	19 28 39	4774.12	32.21	200.07	29.95	77.88	20 48 13	4174.1	30.21	191.43

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TOE-1.7891 TRA 1.7009 TC3-5.0705 BAU .7705 SGT 5506.8 SGR 643.5 SG3 698.2 ST 3188.2 SR 161.0 SS 1999.6
ROE -.0314 RRA .2798 RC3 -.5889 FAU .07528 RRT .8634 RRF .8534 RTF .9855 CRT .5920 CRS -.6122 CST -.9996
FOE-2.7955 FRA 2.9094 FC3-5.7726 BSP 17424 SGB 5544.3 R23 -.0007 R13 .9855 LSA 3764.4 MSA 136.1 SSA 17.2
BOE 1.7894 BRA 1.7237 BC3 5.1046 FSP -2329 SG1 5534.9 SG2 323.0 THA 5.78 EL1 3189.7 EL2 129.7 ALF 1.72

LAUNCH DATE MAY 20 1967 FLIGHT TIME 190.00 ARRIVAL DATE NOV 26 1967

HELIOCENTRIC CONIC DISTANCE 526.594
RL 151.37 LAL -.00 LOL 238.31 VL 26.857 GAL 4.61 AZL 92.59 HCA 238.82 SMA 128.57 ECC .19416 INC 2.5901 V1 29.434
RP 107.50 LAP 2.22 LOP 117.10 VP 37.907 GAP 6.06 AZP 88.66 TAL 160.15 TAP 38.97 RCA 103.61 APO 153.54 V2 35.252
RC 121.426 GL -20.46 GP -9.71 ZAL 58.42 ZAP 147.68 ETS 345.37 ZAE 130.40 ETE 188.16 ZAC 118.63 ETC 12.06 CLP-149.02
PLANETOCENTRIC CONIC
C3 11.983 VHL 3.462 DLA -19.61 RAL 173.62 RAD 6567.5 VEL 11.549 PTH 2.02 VHP 4.800 DPA 5.98 RAP 148.19 ECC 1.1972

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 52 42	1437.74	3.77	356.42	27.98	118.09	10 16 40	837.7	7.50	349.73
90.00	16 20 35	5404.45	28.02	247.89	33.26	85.75	17 50 40	4804.5	27.14	239.34
100.00	11 1 43	1215.03	2.62	339.42	27.34	119.79	11 21 58	615.0	6.57	332.85
100.00	17 54 16	5102.39	29.33	225.54	33.13	83.95	19 19 18	4502.4	28.18	216.92
110.00	11 43 24	1084.40	-.21	327.74	25.57	124.18	12 1 28	484.4	4.27	321.53
110.00	19 29 4	4805.78	32.64	202.44	32.55	79.22	20 49 10	4205.8	30.81	193.70

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-1.9043 TRA 1.8406 TC3-4.9020 BAU .7897 SGT 5649.1 SGR 596.9 SG3 649.2 ST 3299.5 SR 143.7 SS 1947.7
RDE -.0048 RRA .2714 RC3 -.5186 FAU .06874 RRT .8261 RRF .8128 RTF .9851 CRT .3481 CRS -.3711 CST -.9996
FDE-2.6891 FRA 2.8355 FC3-4.9662 BSP 17910 SGB 5680.5 R23 -.0068 R13 .9850 LSA 3831.6 MSA 140.7 SSA 17.0
BDE 1.9043 BRA 1.8605 BC3 4.9293 FSP -2175 SG1 5670.7 SG2 335.1 THA 5.01 EL1 3299.9 EL2 134.7 ALF .87

LAUNCH DATE MAY 20 1967 FLIGHT TIME 192.00 ARRIVAL DATE NOV 28 1967

HELIOCENTRIC CONIC DISTANCE 532.615
RL 151.37 LAL -.00 LOL 238.31 VL 26.834 GAL 4.89 AZL 92.67 HCA 242.06 SMA 128.42 ECC .19742 INC 2.6689 V1 29.434
RP 107.49 LAP 2.36 LOP 120.35 VP 37.894 GAP 6.48 AZP 88.75 TAL 159.30 TAP 41.36 RCA 103.07 APO 153.78 V2 35.255
RC 123.648 GL -20.41 GP -9.01 ZAL 57.04 ZAP 149.82 ETS 345.17 ZAE 129.46 ETE 187.45 ZAC 117.34 ETC 12.43 CLP-151.07
PLANETOCENTRIC CONIC
C3 12.745 VHL 3.570 DLA -20.16 RAL 175.00 RAD 6567.5 VEL 11.582 PTH 2.03 VHP 5.000 DPA 6.26 RAP 149.54 ECC 1.2098

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 4 25	1427.77	4.09	355.87	30.32	118.04	10 28 13	827.8	7.81	349.16
90.00	16 19 50	5440.64	28.18	250.53	35.86	87.07	17 50 30	4840.6	27.47	241.94
100.00	11 12 46	1207.20	2.89	338.99	29.65	119.77	11 32 54	607.2	6.83	332.42
100.00	17 54 10	5136.44	29.55	228.05	35.75	85.25	19 19 46	4536.4	28.58	219.38
110.00	11 53 13	1080.45	-.06	327.54	27.81	124.18	12 11 13	480.5	4.42	321.32
110.00	19 30 13	4835.95	33.00	204.72	35.25	80.53	20 50 49	4236.0	31.34	195.89

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-2.0174 TRA 1.9900 TC3-4.7143 BAU .8070 SGT 5778.3 SGR 559.0 SG3 603.7 ST 3396.3 SR 140.1 SS 1893.3
RDE .0210 RRA .2645 RC3 -.4578 FAU .06263 RRT .7832 RRF .7665 RTF .9846 CRT .0635 CRS -.0875 CST -.9997
FDE-2.5828 FRA 2.7693 FC3-4.2540 BSP 18346 SGB 5805.2 R23 -.0118 R13 .9845 LSA 3888.2 MSA 145.4 SSA 16.8
BDE 2.0175 BRA 2.0075 BC3 4.7365 FSP -2029 SG1 5794.9 SG2 346.6 THA 4.35 EL1 3396.3 EL2 139.8 ALF .15

LAUNCH DATE MAY 20 1967 FLIGHT TIME 194.00 ARRIVAL DATE NOV 30 1967

HELIOCENTRIC CONIC DISTANCE 538.607
RL 151.37 LAL -.00 LOL 238.31 VL 26.811 GAL 5.19 AZL 92.74 HCA 245.31 SMA 128.27 ECC .20093 INC 2.7432 V1 29.434
RP 107.48 LAP 2.49 LOP 123.60 VP 37.879 GAP 6.92 AZP 88.85 TAL 158.42 TAP 43.73 RCA 102.49 APO 154.04 V2 35.257
RC 125.861 GL -20.29 GP -8.40 ZAL 55.65 ZAP 151.83 ETS 344.93 ZAE 128.61 ETE 186.86 ZAC 115.94 ETC 12.72 CLP-153.01
PLANETOCENTRIC CONIC
C3 13.587 VHL 3.686 DLA -20.64 RAL 176.42 RAD 6567.5 VEL 11.618 PTH 2.04 VHP 5.209 DPA 6.41 RAP 150.98 ECC 1.2236

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 15 42	1420.95	4.31	355.48	32.73	118.01	10 39 23	821.0	8.02	348.77
90.00	16 19 52	5475.11	28.27	253.05	38.53	88.32	17 51 7	4875.1	27.74	244.42
100.00	11 23 25	1202.38	3.05	338.72	32.04	119.75	11 43 28	602.4	6.99	332.15
100.00	17 54 49	5168.92	29.71	230.45	38.45	86.51	19 20 58	4568.9	28.91	221.74
110.00	12 2 43	1079.20	-.02	327.47	30.12	124.18	12 20 43	479.2	4.47	321.26
110.00	19 32 1	4864.86	33.30	206.92	38.02	81.80	20 53 6	4264.9	31.81	198.01

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-2.1264 TRA 2.1515 TC3-4.5048 BAU .8216 SGT 5892.8 SGR 528.2 SG3 561.4 ST 3476.3 SR 148.2 SS 1835.1
RDE .0465 RRA .2589 RC3 -.4043 FAU .05678 RRT .7349 RRF .7153 RTF .9840 CRT -.1938 CRS .1705 CST -.9997
FDE-2.4741 FRA 2.7135 FC3-3.6179 BSP 18687 SGB 5916.5 R23 -.0155 R13 .9839 LSA 3930.8 MSA 150.6 SSA 16.7
BDE 2.1269 BRA 2.1671 BC3 4.5229 FSP -1885 SG1 5905.7 SG2 357.4 THA 3.78 EL1 3476.4 EL2 145.4 ALF 179.53

LAUNCH DATE MAY 20 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 2 1967

HELIOCENTRIC CONIC DISTANCE 544.567
RL 151.37 LAL -.00 LOL 238.31 VL 26.787 GAL 5.51 AZL 92.81 HCA 248.56 SMA 128.11 ECC .20470 INC 2.8137 V1 29.434
RP 107.48 LAP 2.62 LOP 126.85 VP 37.863 GAP 7.36 AZP 88.97 TAL 157.53 TAP 46.08 RCA 101.88 APO 154.33 V2 35.258
RC 128.066 GL -20.09 GP -7.85 ZAL 54.24 ZAP 153.72 ETS 344.62 ZAE 127.83 ETE 186.36 ZAC 114.46 ETC 12.95 CLP-154.84
PLANETOCENTRIC CONIC
C3 14.518 VHL 3.810 DLA -21.06 RAL 177.86 RAD 6567.6 VEL 11.658 PTH 2.05 VHP 5.427 DPA 6.45 RAP 152.50 ECC 1.2389

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 26 30	1417.20	4.43	355.27	35.22	118.00	10 50 7	817.2	8.14	348.56
90.00	16 20 38	5508.04	28.31	255.46	41.26	89.53	17 52 26	4908.0	27.95	246.81
100.00	11 33 39	1200.48	3.11	338.62	34.49	119.74	11 53 40	600.5	7.05	332.04
100.00	17 56 10	5199.99	29.81	232.75	41.22	87.72	19 22 50	4600.0	29.18	224.01
110.00	12 11 55	1080.57	-.07	327.54	32.50	124.18	12 29 55	480.6	4.42	321.33
110.00	19 34 24	4892.67	33.55	209.06	40.87	83.04	20 55 56	4292.7	32.23	200.08

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-2.2378 TRA 2.3198 TC3-4.2950 BAU .8365 SGT 6000.7 SGR 503.3 SG3 522.8 ST 3548.3 SR 163.1 SS 1779.9
RDE .0713 RRA .2538 RC3 -.3583 FAU .05165 RRT .6827 RRF .6601 RTF .9835 CRT -.3840 CRS .3625 CST -.9997
FDE-2.3747 FRA 2.6586 FC3-3.0801 BSP 19083 SGB 6021.8 R23 -.0190 R13 .9835 LSA 3970.0 MSA 155.4 SSA 16.5
BDE 2.2389 BRA 2.3336 BC3 4.3100 FSP -1764 SG1 6010.6 SG2 367.2 THA 3.29 EL1 3548.8 EL2 150.6 ALF 178.99

LAUNCH DATE MAY 20 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 4 1967

HELIOCENTRIC CONIC DISTANCE 550.493
RL 151.37 LAL -.00 LOL 238.31 VL 26.762 GAL 5.85 AZL 92.88 HCA 251.80 SMA 127.94 ECC .20876 INC 2.8811 VI 29.434
RP 107.48 LAP 2.74 LOP 130.10 VP 37.847 GAP 7.81 AZP 89.10 TAL 156.61 TAP 48.42 RCA 101.23 APO 154.65 V2 35.259
RC 130.261 GL -19.84 GP -7.37 ZAL 52.83 ZAP 155.51 ETS 344.26 ZAE 127.13 ETE 185.93 ZAC 112.89 ETC 13.13 CLP-156.58
PLANETOCENTRIC CONIC
C3 15.551 VHL 3.943 DLA -21.42 RAL 179.34 RAD 6567.6 VEL 11.702 PTH 2.08 VHP 5.655 DPA 6.39 RAP 154.08 ECC 1.2559

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 36 49	1416.45	4.45	355.23	37.76	117.99	11 0 26	816.5	8.16	348.52
90.00	16 22 4	5539.56	28.31	257.76	44.06	90.69	17 54 24	4939.6	28.10	249.10
100.00	11 43 26	1201.43	3.08	338.67	37.00	119.75	12 3 28	601.4	7.02	332.10
100.00	17 58 8	5229.81	29.87	234.97	44.06	88.88	19 25 17	4629.8	29.40	226.20
110.00	12 20 46	1084.45	-.22	327.75	34.94	124.18	12 38 50	484.4	4.27	321.53
110.00	19 37 18	4919.56	33.75	211.13	43.78	84.25	20 59 17	4319.6	32.59	202.09

DIFFERENTIAL CORRECTIONS
TDE-2.3478 TRA 2.4996 TC3-4.0731 BAU .8494
RDE .0959 RRA .2493 RC3 -.3172 FAU .04683
FDE-2.2784 FRA 2.6107 FC3-2.6070 BSP 19428
BDE 2.3498 BRA 2.5120 BC3 4.0854 FSP -1648

MID-COURSE EXECUTION ACCURACY
SGT 6097.2 SGR 483.1 SG3 487.1
RRT .6269 RRF .6016 RTF .9830
SGB 6116.3 R23 -.0217 R13 .9830
SG1 6104.8 SG2 376.0 THA 2.85

ORBIT DETERMINATION ACCURACY
ST 3607.7 SR 181.9 SS 1724.5
CRT -.5148 CRS .4952 CST -.9997
LSA 3999.6 MSA 160.3 SSA 16.2
EL1 3608.9 EL2 155.9 ALF 178.51

LAUNCH DATE MAY 20 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 6 1967

HELIOCENTRIC CONIC DISTANCE 556.383
RL 151.37 LAL -.00 LOL 238.31 VL 26.737 GAL 6.22 AZL 92.95 HCA 255.05 SMA 127.78 ECC .21312 INC 2.9461 VI 29.434
RP 107.48 LAP 2.85 LOP 133.35 VP 37.829 GAP 8.27 AZP 89.24 TAL 155.68 TAP 50.73 RCA 100.55 APO 155.01 V2 35.259
RC 132.447 GL -19.53 GP -6.94 ZAL 51.41 ZAP 157.20 ETS 343.82 ZAE 126.48 ETE 185.56 ZAC 111.25 ETC 13.27 CLP-158.23
PLANETOCENTRIC CONIC
C3 16.699 VHL 4.086 DLA -21.73 RAL 180.83 RAD 6567.7 VEL 11.751 PTH 2.07 VHP 5.893 DPA 6.24 RAP 155.72 ECC 1.2748

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 46 38	1418.66	4.38	355.36	40.35	118.00	11 10 16	818.7	8.09	348.64
90.00	16 24 8	5569.78	28.26	259.97	46.92	91.79	17 56 58	4969.8	28.21	251.31
100.00	11 52 46	1205.17	2.96	338.88	39.56	119.76	12 12 52	605.2	6.89	332.31
100.00	18 0 40	5258.50	29.89	237.10	46.94	90.00	19 28 19	4658.5	29.57	228.31
110.00	12 29 16	1090.78	-.46	328.08	37.43	124.18	12 47 27	490.8	4.03	321.87
110.00	19 40 40	4945.65	33.91	213.15	46.76	85.44	21 3 6	4345.7	32.91	204.06

DIFFERENTIAL CORRECTIONS
TDE-2.4583 TRA 2.6908 TC3-3.8466 BAU .8611
RDE .1203 RRA .2451 RC3 -.2805 FAU .04241
FDE-2.1875 FRA 2.5682 FC3-2.1986 BSP 19764
BDE 2.4612 BRA 2.7019 BC3 3.8569 FSP -1544

MID-COURSE EXECUTION ACCURACY
SGT 6185.3 SGR 466.7 SG3 454.4
RRT .5686 RRF .5411 RTF .9825
SGB 6202.9 R23 -.0240 R13 .9825
SG1 6191.0 SG2 383.6 THA 2.47

ORBIT DETERMINATION ACCURACY
ST 3656.9 SR 202.1 SS 1670.4
CRT -.6032 CRS .5854 CST -.9997
LSA 4022.0 MSA 165.0 SSA 15.9
EL1 3659.0 EL2 161.1 ALF 178.09

LAUNCH DATE MAY 20 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 8 1967

HELIOCENTRIC CONIC DISTANCE 562.234
RL 151.37 LAL -.00 LOL 238.31 VL 26.711 GAL 6.60 AZL 93.01 HCA 258.30 SMA 127.61 ECC .21780 INC 3.0091 VI 29.434
RP 107.48 LAP 2.95 LOP 136.60 VP 37.810 GAP 8.75 AZP 89.39 TAL 154.73 TAP 53.03 RCA 99.82 APO 155.40 V2 35.258
RC 134.624 GL -19.18 GP -6.56 ZAL 50.00 ZAP 158.82 ETS 343.31 ZAE 125.89 ETE 185.24 ZAC 109.56 ETC 13.37 CLP-159.81
PLANETOCENTRIC CONIC
C3 17.979 VHL 4.240 DLA -21.99 RAL 182.32 RAD 6567.7 VEL 11.805 PTH 2.09 VHP 6.142 DPA 6.00 RAP 157.41 ECC 1.2959

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 55 55	1423.79	4.22	355.64	42.99	118.03	11 19 38	823.8	7.93	348.94
90.00	16 26 47	5598.80	28.18	262.09	49.82	92.85	18 0 6	4998.8	28.28	253.43
100.00	12 1 38	1211.65	2.74	339.23	42.17	119.78	12 21 50	611.7	6.68	332.67
100.00	18 3 44	5286.17	29.87	239.16	49.89	91.09	19 31 51	4686.2	29.71	230.36
110.00	12 37 25	1099.51	-.79	328.53	39.96	124.18	12 55 44	499.5	3.70	322.32
110.00	19 44 28	4971.07	34.03	215.13	49.79	86.60	21 7 19	4371.1	33.19	205.99

DIFFERENTIAL CORRECTIONS
TDE-2.5652 TRA 2.8978 TC3-3.6069 BAU .8690
RDE .1451 RRA .2410 RC3 -.2470 FAU .03811
FDE-2.0972 FRA 2.5343 FC3-1.8352 BSP 19979
BDE 2.5693 BRA 2.9078 BC3 3.6153 FSP -1439

MID-COURSE EXECUTION ACCURACY
SGT 6261.3 SGR 453.5 SG3 424.1
RRT .5086 RRF .4795 RTF .9820
SGB 6277.7 R23 -.0254 R13 .9819
SG1 6265.6 SG2 390.2 THA 2.12

ORBIT DETERMINATION ACCURACY
ST 3691.7 SR 222.6 SS 1614.9
CRT -.6637 CRS .6473 CST -.9997
LSA 4032.0 MSA 170.0 SSA 15.7
EL1 3694.7 EL2 166.4 ALF 177.70

LAUNCH DATE MAY 20 1967 FLIGHT TIME 204.00 ARRIVAL DATE DEC 10 1967

HELIOCENTRIC CONIC DISTANCE 568.041
RL 151.37 LAL -.00 LOL 238.31 VL 26.686 GAL 7.02 AZL 93.07 HCA 261.55 SMA 127.44 ECC .22284 INC 3.0707 VI 29.434
RP 107.48 LAP 3.04 LOP 139.85 VP 37.790 GAP 9.24 AZP 89.55 TAL 153.77 TAP 55.32 RCA 99.04 APO 155.84 V2 35.256
RC 136.791 GL -18.79 GP -6.22 ZAL 48.60 ZAP 160.36 ETS 342.69 ZAE 125.34 ETE 184.96 ZAC 107.81 ETC 13.44 CLP-161.33
PLANETOCENTRIC CONIC
C3 19.407 VHL 4.405 DLA -22.20 RAL 183.82 RAD 6567.8 VEL 11.865 PTH 2.10 VHP 6.402 DPA 5.70 RAP 159.14 ECC 1.3194

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 4 39	1431.81	3.96	356.09	45.66	118.06	11 28 30	831.8	7.68	349.39
90.00	16 29 59	5626.70	28.07	264.12	52.77	93.87	18 3 46	5026.7	28.31	255.47
100.00	12 10 1	1220.83	2.43	339.74	44.81	119.80	12 30 22	620.8	6.37	333.18
100.00	18 7 18	5312.92	29.82	241.14	52.88	92.13	19 35 51	4712.9	29.80	232.34
110.00	12 45 11	1110.59	-1.22	329.11	42.54	124.16	13 3 41	510.6	3.27	322.90
110.00	19 48 37	4995.91	34.12	217.06	52.87	87.74	21 11 53	4395.9	33.43	207.89

DIFFERENTIAL CORRECTIONS
TDE-2.6767 TRA 3.1137 TC3-3.3749 BAU .8774
RDE .1698 RRA .2365 RC3 -.2172 FAU .03434
FDE-2.0164 FRA 2.5013 FC3-1.5317 BSP 20268
BDE 2.6821 BRA 3.1227 BC3 3.3819 FSP -1350

MID-COURSE EXECUTION ACCURACY
SGT 6331.8 SGR 442.4 SG3 396.3
RRT .4474 RRF .4170 RTF .9816
SGB 6347.3 R23 -.0267 R13 .9815
SG1 6334.9 SG2 395.4 THA 1.80

ORBIT DETERMINATION ACCURACY
ST 3721.5 SR 242.3 SS 1563.7
CRT -.7068 CRS .6917 CST -.9997
LSA 4040.1 MSA 174.5 SSA 15.4
EL1 3725.4 EL2 171.2 ALF 177.36

LAUNCH DATE MAY 20 1967 FLIGHT TIME 206.00 ARRIVAL DATE DEC 12 1967

HELIOCENTRIC CONIC DISTANCE 573.801

```
RL  151.37 LAL   -.00 LOL 238.31 VL  26.659 GAL   7.46 AZL  93.13 HCA 264.79 SMA 127.27 ECC .22826 INC 3.1312 VI  29.434
RP  107.49 LAP   3.12 LOP 143.10 VP  37.769 GAP   9.74 AZP  89.72 TAL 152.81 TAP  57.60 RCA  98.22 APO 156.32 V2  35.254
RC 138.949 GL  -18.36 GP   -5.91 ZAL  47.21 ZAP 161.84 ETS 341.97 ZAE 124.84 ETE 184.71 ZAC 106.01 ETC  13.50 CLP-162.79
```

PLANETOCENTRIC CONIC

```
C3  21.005 VHL  4.583 DLA -22.36 RAL 185.31 RAD 6567.9 VEL 11.933 PTH   2.12 VHP  6.675 DPA   5.34 RAP 160.92 ECC 1.3457
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 12 49	1442.68	3.61	356.70	48.36	118.10	11 36 52	842.7	7.34	350.01
90.00	16 33 41	5653.56	27.93	266.08	55.77	94.84	18 7 55	5053.6	28.31	257.43
100.00	12 17 54	1232.65	2.03	340.39	47.48	119.83	12 38 26	632.6	5.98	333.83
100.00	18 11 18	5338.83	29.74	243.07	55.91	93.14	19 40 17	4738.8	29.86	234.26
110.00	12 52 34	1123.96	-1.73	329.81	45.14	124.14	13 11 18	524.0	2.76	323.60
110.00	19 53 7	5020.28	34.17	218.96	56.00	88.87	21 16 48	4420.3	33.63	209.76

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE-2.7889 TRA 3.3442 TC3-3.1414 BAU  .8838   SGT 6394.1 SGR  433.2 SG3  370.8      ST  3742.0 SR   261.0 SS  1513.9
ROE  .1947 RRA  .2315 RC3 -.1902 FAU .03080   RRT  .3857 RRF  .3545 RTF  .9812     CRT -.7382 CRS  .7241 CST -.9997
FOE-1.9401 FRA 2.4734 FC3-1.2695 BSP  20521   SGB 6408.8 R23 -.0275 R13  .9811     LSA 4041.1 MSA  178.8 SSA   15.1
BOE 2.7957 BRA 3.3522 BC3 3.1471 FSP  -1267   SG1 6396.3 SG2  399.5 THA   1.50     EL1 3747.0 EL2  175.8 ALF 177.05
```

LAUNCH DATE MAY 20 1967 FLIGHT TIME 208.00 ARRIVAL DATE DEC 14 1967

HELIOCENTRIC CONIC DISTANCE 579.507

```
RL  151.37 LAL   -.00 LOL 238.31 VL  26.633 GAL   7.93 AZL  93.19 HCA 268.04 SMA 127.10 ECC .23410 INC 3.1911 VI  29.434
RP  107.50 LAP   3.19 LOP 146.35 VP  37.748 GAP  10.27 AZP  89.89 TAL 151.84 TAP  59.88 RCA  97.34 APO 156.85 V2  35.251
RC 141.095 GL  -17.91 GP   -5.63 ZAL  45.84 ZAP 163.26 ETS 341.12 ZAE 124.37 ETE 184.49 ZAC 104.17 ETC  13.53 CLP-164.21
```

PLANETOCENTRIC CONIC

```
C3  22.797 VHL  4.775 DLA -22.49 RAL 186.78 RAD 6567.9 VEL 12.007 PTH   2.14 VHP  6.962 DPA   4.91 RAP 162.72 ECC 1.3752
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 20 25	1456.36	3.17	357.47	51.09	118.15	11 44 41	856.4	6.91	350.78
90.00	16 37 52	5679.46	27.77	267.95	58.80	95.77	18 12 32	5079.5	28.28	259.33
100.00	12 25 16	1247.06	1.54	341.18	50.18	119.86	12 46 3	647.1	5.50	334.63
100.00	18 15 42	5363.99	29.63	244.93	58.98	94.11	19 45 6	4764.0	29.89	236.13
110.00	12 59 33	1139.57	-2.32	330.62	47.77	124.11	13 18 32	539.6	2.17	324.42
110.00	19 57 55	5044.24	34.18	220.84	59.18	89.97	21 21 59	4444.2	33.80	211.61

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE-2.9029 TRA 3.5894 TC3-2.9095 BAU  .8882   SGT 6448.8 SGR  425.3 SG3  347.2      ST  3754.7 SR   278.3 SS  1466.4
ROE  .2200 RRA  .2260 RC3 -.1658 FAU .02752   RRT  .3239 RRF  .2924 RTF  .9808     CRT -.7618 CRS  .7486 CST -.9997
FOE-1.8689 FRA 2.4501 FC3-1.0451 BSP  20762   SGB 6462.8 R23 -.0280 R13  .9808     LSA 4036.3 MSA  182.7 SSA   14.8
BOE 2.9112 BRA 3.5965 BC3 2.9142 FSP  -1191   SG1 6450.3 SG2  402.3 THA   1.23     EL1 3760.7 EL2  180.0 ALF 176.76
```

LAUNCH DATE MAY 20 1967 FLIGHT TIME 210.00 ARRIVAL DATE DEC 16 1967

HELIOCENTRIC CONIC DISTANCE 585.155

```
RL  151.37 LAL   -.00 LOL 238.31 VL  26.606 GAL   8.43 AZL  93.25 HCA 271.29 SMA 126.92 ECC .24039 INC 3.2507 VI  29.434
RP  107.51 LAP   3.25 LOP 149.60 VP  37.725 GAP  10.82 AZP  90.07 TAL 150.86 TAP  62.15 RCA  96.41 APO 157.43 V2  35.247
RC 143.232 GL  -17.43 GP   -5.38 ZAL  44.49 ZAP 164.63 ETS 340.10 ZAE 123.94 ETE 184.28 ZAC 102.29 ETC  13.56 CLP-165.58
```

PLANETOCENTRIC CONIC

```
C3  24.811 VHL  4.981 DLA -22.58 RAL 188.24 RAD 6568.0 VEL 12.091 PTH   2.16 VHP  7.265 DPA   4.44 RAP 164.55 ECC 1.4083
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 27 26	1472.78	2.65	358.39	53.83	118.20	11 51 59	872.8	6.40	351.71
90.00	16 42 29	5704.47	27.59	269.76	61.87	96.65	18 17 33	5104.5	28.22	261.15
100.00	12 32 7	1264.00	.96	342.11	52.90	119.88	12 53 11	664.0	4.93	335.57
100.00	18 20 29	5388.48	29.50	246.74	62.09	95.06	19 50 17	4788.5	29.89	237.95
110.00	13 6 8	1157.36	-3.00	331.55	50.42	124.07	13 25 25	557.4	1.49	325.35
110.00	20 2 57	5067.88	34.17	222.68	62.38	91.07	21 27 25	4467.9	33.94	213.44

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE-3.0189 TRA 3.8507 TC3-2.6798 BAU  .8901   SGT 6495.9 SGR  418.5 SG3  325.5      ST  3759.8 SR   294.3 SS  1421.0
ROE  .2457 RRA  .2196 RC3 -.1436 FAU .02444   RRT  .2621 RRF  .2309 RTF  .9805     CRT -.7798 CRS  .7674 CST -.9997
FOE-1.8025 FRA 2.4312 FC3 -.8527 BSP  20963   SGB 6509.4 R23 -.0282 R13  .9805     LSA 4025.8 MSA  186.4 SSA   14.5
BOE 3.0289 BRA 3.8570 BC3 2.6836 FSP  -1119   SG1 6496.9 SG2  403.8 THA    .97     EL1 3766.8 EL2  183.9 ALF 176.50
```

LAUNCH DATE MAY 20 1967 FLIGHT TIME 212.00 ARRIVAL DATE DEC 18 1967

HELIOCENTRIC CONIC DISTANCE 590.737

```
RL  151.37 LAL   -.00 LOL 238.31 VL  26.579 GAL   8.96 AZL  93.31 HCA 274.53 SMA 126.75 ECC .24719 INC 3.3105 VI  29.434
RP  107.53 LAP   3.30 LOP 152.85 VP  37.702 GAP  11.39 AZP  90.26 TAL 149.89 TAP  64.42 RCA  95.42 APO 158.08 V2  35.243
RC 145.356 GL  -16.94 GP   -5.16 ZAL  43.17 ZAP 165.95 ETS 338.89 ZAE 123.53 ETE 184.10 ZAC 100.39 ETC  13.58 CLP-166.91
```

PLANETOCENTRIC CONIC

```
C3  27.081 VHL  5.204 DLA -22.63 RAL 189.67 RAD 6568.1 VEL 12.184 PTH   2.19 VHP  7.584 DPA   3.91 RAP 166.40 ECC 1.4457
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 33 52	1491.87	2.03	359.45	56.59	118.25	11 58 44	891.9	5.79	352.79
90.00	16 47 28	5728.68	27.38	271.50	64.96	97.50	18 22 57	5128.7	28.14	262.92
100.00	12 38 27	1283.42	.30	343.17	55.63	119.89	12 59 50	683.4	4.28	336.64
100.00	18 25 34	5412.37	29.34	248.50	65.23	95.97	19 55 47	4812.4	29.86	239.73
110.00	13 12 18	1177.28	-3.76	332.59	53.10	124.00	13 31 55	577.3	.73	326.39
110.00	20 8 13	5091.27	34.12	224.51	65.63	92.15	21 33 4	4491.3	34.04	215.26

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE-3.1340 TRA 4.1322 TC3-2.4494 BAU  .8879   SGT 6534.7 SGR  412.6 SG3  305.4      ST  3754.9 SR   308.9 SS  1376.4
ROE  .2720 RRA  .2122 RC3 -.1235 FAU .02144   RRT  .2011 RRF  .1708 RTF  .9803     CRT -.7936 CRS  .7816 CST -.9998
FOE-1.7382 FRA 2.4186 FC3 -.6855 BSP  21070   SGB 6547.7 R23 -.0277 R13  .9802     LSA 4006.6 MSA  189.8 SSA   14.2
BOE 3.1458 BRA 4.1377 BC3 2.4525 FSP  -1047   SG1 6535.2 SG2  404.2 THA    .73     EL1 3762.9 EL2  187.6 ALF 176.25
```

LAUNCH DATE MAY 20 1967 FLIGHT TIME 214.00 ARRIVAL DATE DEC 20 1967

DISTANCE 596.244

HELIOCENTRIC CONIC
RL 151.37 LAL -.00 LOL 238.31 VL 26.552 GAL 9.54 AZL 93.37 HCA 277.77 SMA 126.58 ECC .25453 INC 3.3708 V1 29.434
RP 107.54 LAP 3.34 LOP 156.10 VP 37.678 GAP 11.99 AZP 90.46 TAL 148.92 TAP 66.69 RCA 94.36 APO 158.79 V2 35.237
RC 147.469 GL -16.43 GP -4.95 ZAL 41.88 ZAP 167.23 ETS 337.44 ZAE 123.13 ETE 183.93 ZAC 98.46 ETC 13.59 CLP-168.21

PLANETOCENTRIC CONIC
C3 29.645 VHL 5.445 DLA -22.65 RAL 191.08 RAD 6568.2 VEL 12.289 PTH 2.21 VHP 7.923 DPA 3.35 RAP 168.26 ECC 1.4879

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 39 42	1513.57	1.33	.66	59.36	118.29	12 4 56	913.6	5.10	354.01
90.00	16 52 49	5752.14	27.16	273.19	68.08	98.32	18 28 42	5152.1	28.04	264.63
100.00	12 44 15	1305.22	-.44	344.37	58.38	119.89	13 6 1	705.2	3.55	337.84
100.00	18 30 58	5435.71	29.17	250.21	68.39	96.85	20 1 33	4835.7	29.81	241.46
110.00	13 18 3	1199.26	-4.60	333.75	55.78	123.91	13 38 3	599.3	-.11	327.53
110.00	20 13 39	5114.44	34.05	226.31	68.89	93.21	21 38 53	4514.4	34.12	217.07

DIFFERENTIAL CORRECTIONS
TOE-3.2568 TRA 4.4284 TC3-2.2309 BAU .8851
ROE .2986 RRA .2036 RC3 -.1055 FAU .01877
FOE-1.6817 FRA 2.4079 FC3 -.5481 BSP 21250
BOE 3.2705 BRA 4.4331 BC3 2.2334 FSP -987

MID-COURSE EXECUTION ACCURACY
SGT 6568.5 SGR 407.2 SG3 286.9
RRT .1400 RRF .1108 RTF .9802
SGB 6581.1 R23 -.0272 R13 .9802
SG1 6568.7 SG2 403.2 THA .50

ORBIT DETERMINATION ACCURACY
ST 3747.8 SR —821.9 SS 1336.2
CRT -.8051 CRS .7937 CST -.9998
LSA 3987.2 MSA 192.6 SSA 13.9
EL1 3756.8 EL2 190.5 ALF 176.03

LAUNCH DATE MAY 20 1967 FLIGHT TIME 216.00 ARRIVAL DATE DEC 22 1967

DISTANCE 601.666

HELIOCENTRIC CONIC
RL 151.37 LAL -.00 LOL 238.31 VL 26.525 GAL 10.16 AZL 93.43 HCA 281.02 SMA 126.40 ECC .26249 INC 3.4320 V1 29.434
RP 107.56 LAP 3.37 LOP 159.35 VP 37.653 GAP 12.62 AZP 90.66 TAL 147.96 TAP 68.97 RCA 93.22 APO 159.58 V2 35.231
RC 149.570 GL -15.90 GP -4.77 ZAL 40.62 ZAP 168.47 ETS 335.67 ZAE 122.75 ETE 183.77 ZAC 96.51 ETC 13.60 CLP-169.49

PLANETOCENTRIC CONIC
C3 32.551 VHL 5.705 DLA -22.64 RAL 192.45 RAD 6568.3 VEL 12.407 PTH 2.24 VHP 8.282 DPA 2.75 RAP 170.14 ECC 1.5357

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 44 58	1537.78	.55	2.01	62.13	118.31	12 10 36	937.8	4.33	355.37
90.00	16 58 29	5774.91	26.93	274.81	71.23	99.10	18 34 44	5174.9	27.91	266.28
100.00	12 49 33	1329.35	-1.25	345.69	61.13	119.87	13 11 42	729.3	2.73	339.17
100.00	18 36 36	5458.58	28.97	251.88	71.57	97.71	20 7 34	4858.6	29.73	243.16
110.00	13 23 23	1223.24	-5.51	335.01	58.48	123.79	13 43 47	623.2	-1.03	328.78
110.00	20 19 14	5137.45	33.95	228.10	72.18	94.27	21 44 52	4537.4	34.17	218.86

DIFFERENTIAL CORRECTIONS
TOE-3.3832 TRA 4.7447 TC3-2.0178 BAU .8790
ROE .3258 RRA .1935 RC3 -.0895 FAU .01623
FOE-1.6295 FRA 2.4014 FC3 -.4317 BSP 21403
BOE 3.3988 BRA 4.7486 BC3 2.0198 FSP -929

MID-COURSE EXECUTION ACCURACY
SGT 6595.1 SGR 402.3 SG3 269.8
RRT .0793 RRF .0518 RTF .9802
SGB 6607.4 R23 -.0263 R13 .9802
SG1 6595.2 SG2 401.0 THA .28

ORBIT DETERMINATION ACCURACY
ST 3734.5 SR 333.3 SS 1298.4
CRT -.8145 CRS .8035 CST -.9998
LSA 3963.0 MSA 194.8 SSA 13.5
EL1 3744.4 EL2 192.8 ALF 175.83

LAUNCH DATE MAY 20 1967 FLIGHT TIME 218.00 ARRIVAL DATE DEC 24 1967

DISTANCE 606.991

HELIOCENTRIC CONIC
RL 151.37 LAL -.00 LOL 238.31 VL 26.497 GAL 10.82 AZL 93.49 HCA 284.26 SMA 126.23 ECC .27112 INC 3.4946 V1 29.434
RP 107.58 LAP 3.39 LOP 162.60 VP 37.628 GAP 13.29 AZP 90.86 TAL 147.01 TAP 71.27 RCA 92.01 APO 160.45 V2 35.225
RC 151.657 GL -15.36 GP -4.60 ZAL 39.40 ZAP 169.67 ETS 333.48 ZAE 122.39 ETE 183.62 ZAC 94.55 ETC 13.62 CLP-170.75

PLANETOCENTRIC CONIC
C3 35.854 VHL 5.988 DLA -22.59 RAL 193.78 RAD 6568.4 VEL 12.539 PTH 2.27 VHP 8.666 DPA 2.12 RAP 172.03 ECC 1.5901

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 49 39	1564.41	-.31	3.50	64.90	118.32	12 15 43	964.4	3.48	356.86
90.00	17 4 25	5797.06	26.68	276.38	74.38	99.85	18 41 2	5197.1	27.77	267.89
100.00	12 54 19	1355.70	-2.15	347.14	63.88	119.82	13 16 54	755.7	1.84	340.62
100.00	18 42 27	5481.00	28.75	253.51	74.76	98.55	20 13 48	4881.0	29.64	244.82
110.00	13 28 18	1249.15	-6.49	336.37	61.19	123.64	13 49 7	649.2	-2.02	330.13
110.00	20 24 57	5160.32	33.82	229.88	75.48	95.31	21 50 57	4560.3	34.18	220.65

DIFFERENTIAL CORRECTIONS
TOE-3.5149 TRA 5.0824 TC3-1.8121 BAU .8693
ROE .3536 RRA .1818 RC3 -.0753 FAU .01384
FOE-1.5821 FRA 2.3993 FC3 -.3342 BSP 21537
BOE 3.5326 BRA 5.0857 BC3 1.8136 FSP -876

MID-COURSE EXECUTION ACCURACY
SGT 6615.5 SGR 397.6 SG3 253.9
RRT .0190 RRF -.0065 RTF .9803
SGB 6627.5 R23 -.0253 R13 .9803
SG1 6615.5 SG2 397.5 THA .07

ORBIT DETERMINATION ACCURACY
ST 3716.6 SR 343.0 SS 1263.6
CRT -.8224 CRS .8118 CST -.9998
LSA 3935.5 MSA 196.4 SSA 13.2
EL1 3727.3 EL2 194.6 ALF 175.65

LAUNCH DATE MAY 20 1967 FLIGHT TIME 220.00 ARRIVAL DATE DEC 26 1967

DISTANCE 612.204

HELIOCENTRIC CONIC
RL 151.37 LAL -.00 LOL 238.31 VL 26.470 GAL 11.53 AZL 93.56 HCA 287.50 SMA 126.06 ECC .28051 INC 3.5589 V1 29.434
RP 107.60 LAP 3.39 LOP 165.84 VP 37.602 GAP 14.00 AZP 91.07 TAL 146.08 TAP 73.58 RCA 90.70 APO 161.42 V2 35.217
RC 153.730 GL -14.82 GP -4.44 ZAL 38.22 ZAP 170.84 ETS 330.73 ZAE 122.02 ETE 183.48 ZAC 92.58 ETC 13.64 CLP-171.99

PLANETOCENTRIC CONIC
C3 39.622 VHL 6.295 DLA -22.51 RAL 195.06 RAD 6568.5 VEL 12.688 PTH 2.31 VHP 9.076 DPA 1.46 RAP 173.91 ECC 1.6521

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 53 45	1593.35	-1.25	5.11	67.66	118.29	12 20 18	993.4	2.55	358.48
90.00	17 10 36	5818.62	26.42	277.91	77.54	100.58	18 47 34	5218.6	27.61	269.45
100.00	12 58 33	1384.18	-3.11	348.70	66.63	119.75	13 21 37	784.2	.87	342.18
100.00	18 48 28	5503.02	28.52	255.11	77.96	99.35	20 20 11	4903.0	29.52	246.45
110.00	13 32 46	1276.91	-7.53	337.85	63.90	123.44	13 54 3	676.9	-3.08	331.58
110.00	20 30 45	5183.06	33.66	231.63	78.78	96.34	21 57 8	4583.1	34.17	222.43

DIFFERENTIAL CORRECTIONS
TOE-3.6485 TRA 5.4483 TC3-1.6099 BAU .8534
ROE .3820 RRA .1682 RC3 -.0627 FAU .01146
FOE-1.5368 FRA 2.4041 FC3 -.2504 BSP 21557
BOE 3.6684 BRA 5.4509 BC3 1.6111 FSP -822

MID-COURSE EXECUTION ACCURACY
SGT 6629.9 SGR 393.2 SG3 239.2
RRT -.0402 RRF -.0632 RTF .9805
SGB 6641.6 R23 .0237 R13 -.9805
SG1 6629.9 SG2 392.9 THA 179.86

ORBIT DETERMINATION ACCURACY
ST 3691.4 SR 351.3 SS 1230.4
CRT -.8287 CRS .8184 CST -.9998
LSA 3901.8 MSA 197.7 SSA 12.9
EL1 3702.9 EL2 196.0 ALF 175.48

LAUNCH DATE MAY 21 1967 FLIGHT TIME 70.00 ARRIVAL DATE JUL 30 1967

HELIOCENTRIC CONIC DISTANCE 140.088

```
RL  151.40 LAL   -.00 LOL 239.28 VL  18.386 GAL  13.82 AZL  92.34 HCA  47.71 SMA  93.78 ECC .64262 INC 2.3361 V1  29.428
RP  108.88 LAP  -1.73 LOP 286.96 VP  31.980 GAP -39.08 AZP  91.57 TAL 172.00 TAP 219.71 RCA  33.52 APO 154.05 V2  34.805
RC  60.850 GL   -3.39 GP    1.48 ZAL  70.76 ZAP  26.28 ETS 184.87 ZAE 150.00 ETE 166.16 ZAC 130.08 ETC  21.92 CLP  26.24
```

PLANETOCENTRIC CONIC

```
C3 151.214 VHL 12.297 DLA   1.41 RAL 168.15 RAD 6570.6 VEL 16.509 PTH   2.88 VHP 22.590 DPA  21.01 RAP 136.94 ECC 3.4886
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 31 25	2730.04	-27.85	76.73	64.22	95.34	7 16 55	2130.0	-26.82	68.22
90.00	18 50 18	5286.91	27.14	239.41	62.80	81.59	20 18 25	4686.9	25.70	231.04
100.00	7 53 25	2465.56	-29.38	57.12	64.05	95.78	8 34 31	1865.6	-28.27	48.49
100.00	20 10 59	5026.63	28.66	220.01	62.54	81.11	21 34 46	4426.6	27.13	211.54
110.00	9 3 10	2247.25	-33.54	40.00	63.50	97.02	9 40 37	1647.2	-32.21	31.02
110.00	21 17 44	4817.70	32.79	203.34	61.73	79.74	22 38 1	4217.7	31.02	194.56

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .6236 TRA-1.5206 TC3 -.1035 BAU  .2140   SGT  807.1 SGR  451.8 SG3   31.8      ST   360.1 SR   402.0 SS   334.1
ROE -.8523 RRA -.4469 RC3  .0224 FAU .01401   RRT  .0499 RRF -.0472 RTF -.6270      CRT -.7053 CRS -.7933 CST  .9895
FOE -.3226 FRA  .5839 FC3 -.0802 BSP   2119   SGB  925.0 R23 -.0017 R13 -.6272      LSA  594.4 MSA  222.2 SSA   13.9
BOE 1.0561 BRA 1.5849 BC3  .1059 FSP    -66   SGI  807.6 SG2  451.0 THA   2.33      EL1  499.0 EL2  205.7 ALF 130.56
```

LAUNCH DATE MAY 21 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 1 1967

HELIOCENTRIC CONIC DISTANCE 146.105

```
RL  151.40 LAL   -.00 LOL 239.28 VL  19.036 GAL  13.28 AZL  92.43 HCA  50.88 SMA  95.42 ECC .61540 INC 2.4321 V1  29.428
RP  108.90 LAP  -1.89 LOP 290.13 VP  32.352 GAP -37.23 AZP  91.54 TAL 171.37 TAP 222.24 RCA  36.70 APO 154.15 V2  34.800
RC  58.919 GL   -3.87 GP    1.53 ZAL  69.78 ZAP  24.76 ETS 185.10 ZAE 150.87 ETE 164.68 ZAC 128.53 ETC  21.38 CLP  24.71
```

PLANETOCENTRIC CONIC

```
C3 136.026 VHL 11.663 DLA    .58 RAL 168.87 RAD 6570.5 VEL 16.042 PTH   2.83 VHP 21.649 DPA  20.63 RAP 138.64 ECC 3.2386
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 40 25	2685.07	-27.52	73.48	63.03	96.94	7 25 10	2085.1	-26.28	65.04
90.00	18 47 7	5292.87	27.20	239.84	62.45	81.80	20 15 19	4692.9	25.78	231.46
100.00	8 2 2	2421.81	-29.04	53.91	62.82	97.43	8 42 24	1821.8	-27.71	45.36
100.00	20 8 11	5031.36	28.71	220.35	62.20	81.29	21 32 2	4431.4	27.21	211.87
110.00	9 10 54	2206.25	-33.15	36.86	62.13	98.84	9 47 40	1606.2	-31.58	27.99
110.00	21 15 48	4819.69	32.81	203.49	61.40	79.82	22 36 8	4219.7	31.06	194.71

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .6222 TRA-1.5191 TC3 -.1082 BAU  .2023   SGT  845.0 SGR  456.7 SG3   34.6      ST   379.0 SR   405.1 SS   352.6
ROE -.8145 RRA -.4310 RC3  .0259 FAU .01426   RRT  .0530 RRF -.0499 RTF -.6461      CRT -.7040 CRS -.7960 CST  .9887
FOE -.3381 FRA  .6035 FC3 -.0908 BSP   2218   SGB  960.5 R23 -.0015 R13 -.6463      LSA  616.5 MSA  227.5 SSA   14.1
BOE 1.0249 BRA 1.5790 BC3  .1112 FSP    -73   SGI  845.5 SG2  455.8 THA   2.31      EL1  512.3 EL2  212.8 ALF 132.29
```

LAUNCH DATE MAY 21 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 3 1967

HELIOCENTRIC CONIC DISTANCE 152.202

```
RL  151.40 LAL   -.00 LOL 239.28 VL  19.641 GAL  12.73 AZL  92.52 HCA  54.04 SMA  97.06 ECC .58893 INC 2.5198 V1  29.428
RP  108.91 LAP  -2.04 LOP 293.29 VP  32.708 GAP -35.48 AZP  91.48 TAL 170.76 TAP 224.80 RCA  39.90 APO 154.22 V2  34.795
RC  57.057 GL   -4.37 GP    1.58 ZAL  68.87 ZAP  23.25 ETS 185.39 ZAE 151.86 ETE 162.99 ZAC 126.95 ETC  20.87 CLP  23.20
```

PLANETOCENTRIC CONIC

```
C3 122.431 VHL 11.065 DLA   -.24 RAL 169.53 RAD 6570.3 VEL 15.613 PTH   2.78 VHP 20.743 DPA  20.22 RAP 140.35 ECC 3.0149
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 49 7	2639.25	-27.10	70.20	61.73	98.53	7 33 6	2039.2	-25.64	61.83
90.00	18 43 38	5297.98	27.25	240.20	61.97	81.97	20 11 56	4698.0	25.85	231.81
100.00	8 10 20	2377.22	-28.60	50.67	61.47	99.08	8 49 58	1777.2	-27.05	42.21
100.00	20 5 5	5035.24	28.75	220.63	61.72	81.43	21 29 0	4435.2	27.26	212.15
110.00	9 18 20	2164.39	-32.67	33.69	60.65	100.66	9 54 24	1564.4	-30.86	24.94
110.00	21 13 35	4820.83	32.82	203.58	60.94	79.87	22 33 55	4220.8	31.08	194.79

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .6231 TRA-1.5145 TC3 -.1116 BAU  .1891   SGT  883.3 SGR  460.9 SG3   37.6      ST   399.4 SR   407.5 SS   372.1
ROE -.7771 RRA -.4148 RC3  .0299 FAU .01456   RRT  .0547 RRF -.0522 RTF -.6654      CRT -.7047 CRS -.7992 CST  .9882
FOE -.3545 FRA  .6229 FC3 -.1029 BSP   2377   SGB  996.3 R23 -.0023 R13 -.6656      LSA  640.3 MSA  232.0 SSA   14.3
BOE  .9961 BRA 1.5703 BC3  .1155 FSP    -81   SGI  883.7 SG2  460.0 THA   2.24      EL1  526.8 EL2  219.2 ALF 134.18
```

LAUNCH DATE MAY 21 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 5 1967

HELIOCENTRIC CONIC DISTANCE 158.373

```
RL  151.40 LAL   -.00 LOL 239.28 VL  20.206 GAL  12.19 AZL  92.60 HCA  57.20 SMA  98.68 ECC .56329 INC 2.6008 V1  29.428
RP  108.92 LAP  -2.19 LOP 296.45 VP  33.046 GAP -33.82 AZP  91.41 TAL 170.17 TAP 227.37 RCA  43.10 APO 154.27 V2  34.792
RC  55.270 GL   -4.90 GP    1.64 ZAL  68.04 ZAP  21.76 ETS 185.73 ZAE 152.96 ETE 161.06 ZAC 125.36 ETC  20.38 CLP  21.70
```

PLANETOCENTRIC CONIC

```
C3 110.254 VHL 10.500 DLA  -1.06 RAL 170.10 RAD 6570.1 VEL 15.218 PTH   2.73 VHP 19.871 DPA  19.81 RAP 142.06 ECC 2.8145
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 57 31	2592.58	-26.59	66.88	60.33	100.12	7 40 43	1992.6	-24.92	58.61
90.00	18 39 50	5302.32	27.29	240.51	61.34	82.12	20 8 12	4702.3	25.92	232.12
100.00	8 18 22	2331.78	-28.07	47.39	60.02	100.73	8 57 13	1731.8	-26.30	39.04
100.00	20 1 40	5038.35	28.78	220.86	61.10	81.55	21 25 38	4438.3	27.31	212.36
110.00	9 25 28	2121.70	-32.09	30.49	59.07	102.47	10 0 50	1521.7	-30.04	21.88
110.00	21 11 3	4821.19	32.83	203.61	60.33	79.89	22 31 24	4221.2	31.09	194.82

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .6242 TRA-1.5093 TC3 -.1142 BAU  .1758   SGT  923.0 SGR  464.4 SG3   40.9      ST   420.9 SR   409.2 SS   392.4
ROE -.7403 RRA -.3984 RC3  .0344 FAU .01488   RRT  .0564 RRF -.0547 RTF -.6841      CRT -.7054 CRS -.8023 CST  .9877
FOE -.3716 FRA  .6424 FC3 -.1168 BSP   2541   SGB 1033.3 R23 -.0031 R13 -.6843      LSA  665.3 MSA  236.0 SSA   14.5
BOE  .9684 BRA 1.5609 BC3  .1192 FSP    -90   SGI  923.5 SG2  463.4 THA   2.17      EL1  542.1 EL2  225.2 ALF 136.14
```

LAUNCH DATE MAY 21 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 7 1967

HELIOCENTRIC CONIC DISTANCE 164.614

RL	151.40	LAL	-.00	LOL	239.28	VL	20.733	GAL	11.66	AZL	92.68	HCA	60.36	SMA	100.29	ECC	.53850	INC	2.6762	V1	29.428
RP	108.93	LAP	-2.33	LOP	299.61	VP	33.367	GAP	-32.25	AZP	91.32	TAL	169.61	TAP	229.98	RCA	46.28	APO	154.29	V2	34.789
RC	53.566	GL	-5.46	GP	1.70	ZAL	67.27	ZAP	20.28	ETS	186.14	ZAE	154.16	ETE	158.82	ZAC	123.75	ETC	19.91	CLP	20.22

PLANETOCENTRIC CONIC

C3	99.340	VHL	9.967	DLA	-1.89	RAL	170.60	RAD	6569.9	VEL	14.855	PTH	2.68	VHP	19.031	DPA	19.38	RAP	143.78	ECC	2.6349

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 5 38	2545.06	-25.97	63.53	58.82	101.69	7 48 3	1945.1	-24.10	55.37
90.00	18 35 42	5305.99	27.32	240.78	60.59	82.25	20 4 8	4706.0	25.97	232.37
100.00	8 26 6	2285.50	-27.44	44.10	58.47	102.35	9 4 11	1685.5	-25.46	35.86
100.00	19 57 55	5040.79	28.80	221.04	60.35	81.64	21 21 56	4440.8	27.35	212.54
110.00	9 32 20	2078.18	-31.40	27.29	57.39	104.25	10 6 58	1478.2	-29.13	18.82
110.00	21 8 11	4820.88	32.82	203.58	59.59	79.87	22 28 32	4220.9	31.08	194.79

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.6233	TRA	-1.5052	TC3	-.1166	BAU	.1634	SGT	965.4	SGR	467.2	SG3	44.5	ST	442.6	SR	410.2	SS	413.4
RDE	-.7042	RRA	-.3819	RC3	.0394	FAU	.01523	RRT	.0596	RRF	-.0575	RTF	-.7011	CRT	-.7048	CRS	-.8054	CST	.9869
FDE	-.3893	FRA	.6624	FC3	-.1327	BSP	2657	SGB	1072.5	R23	-.0030	R13	-.7013	LSA	690.9	MSA	239.8	SSA	14.8
BDE	.9404	BRA	1.5529	BC3	.1230	FSP	-99	SG1	965.9	SG2	466.1	THA	2.16	EL1	557.5	EL2	231.0	ALF	138.08

LAUNCH DATE MAY 21 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 9 1967

HELIOCENTRIC CONIC DISTANCE 170.918

RL	151.40	LAL	-.00	LOL	239.28	VL	21.224	GAL	11.14	AZL	92.75	HCA	63.52	SMA	101.88	ECC	.51462	INC	2.7470	V1	29.428
RP	108.94	LAP	-2.46	LOP	302.77	VP	33.673	GAP	-30.74	AZP	91.23	TAL	169.09	TAP	232.61	RCA	49.45	APO	154.30	V2	34.786
RC	51.953	GL	-6.05	GP	1.77	ZAL	66.58	ZAP	18.82	ETS	186.64	ZAE	155.47	ETE	156.21	ZAC	122.13	ETC	19.47	CLP	18.74

PLANETOCENTRIC CONIC

C3	89.554	VHL	9.463	DLA	-2.72	RAL	171.02	RAD	6569.8	VEL	14.522	PTH	2.64	VHP	18.220	DPA	18.93	RAP	145.51	ECC	2.4738

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 13 28	2496.72	-25.26	60.17	57.22	103.23	7 55 5	1896.7	-23.19	52.11
90.00	18 31 13	5309.13	27.35	241.00	59.70	82.36	19 59 42	4709.1	26.01	232.59
100.00	8 33 33	2238.41	-26.71	40.79	56.83	103.95	9 10 51	1638.4	-24.53	32.67
100.00	19 53 50	5042.68	28.82	221.17	59.47	81.71	21 17 52	4442.7	27.37	212.67
110.00	9 38 53	2033.86	-30.62	24.07	55.64	106.00	10 12 47	1433.9	-28.12	15.77
110.00	21 4 59	4819.98	32.81	203.51	58.71	79.84	22 25 19	4220.0	31.06	194.73

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.6243	TRA	-1.4983	TC3	-.1170	BAU	.1501	SGT	1008.3	SGR	469.3	SG3	48.4	ST	466.0	SR	410.3	SS	435.6
RDE	-.6687	RRA	-.3654	RC3	.0450	FAU	.01562	RRT	.0618	RRF	-.0603	RTF	-.7182	CRT	-.7058	CRS	-.8087	CST	.9863
FDE	-.4082	FRA	.6823	FC3	-.1510	BSP	2824	SGB	1112.2	R23	-.0037	R13	-.7184	LSA	718.4	MSA	242.6	SSA	15.0
BDE	.9149	BRA	1.5422	BC3	.1254	FSP	-110	SG1	1008.9	SG2	468.1	THA	2.10	EL1	574.4	EL2	235.8	ALF	140.13

LAUNCH DATE MAY 21 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 11 1967

HELIOCENTRIC CONIC DISTANCE 177.282

RL	151.40	LAL	-.00	LOL	239.28	VL	21.682	GAL	10.63	AZL	92.81	HCA	66.69	SMA	103.44	ECC	.49166	INC	2.8139	V1	29.428
RP	108.94	LAP	-2.58	LOP	305.94	VP	33.962	GAP	-29.31	AZP	91.11	TAL	168.59	TAP	235.28	RCA	52.58	APO	154.29	V2	34.785
RC	50.440	GL	-6.68	GP	1.85	ZAL	65.97	ZAP	17.37	ETS	187.26	ZAE	156.86	ETE	153.12	ZAC	120.50	ETC	19.06	CLP	17.27

PLANETOCENTRIC CONIC

C3	80.778	VHL	8.988	DLA	-3.55	RAL	171.37	RAD	6569.6	VEL	14.217	PTH	2.59	VHP	17.439	DPA	18.48	RAP	147.23	ECC	2.3294

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 21 3	2447.58	-24.46	56.80	55.54	104.74	8 1 51	1847.6	-22.19	48.86
90.00	18 26 21	5311.86	27.37	241.20	58.69	82.46	19 54 53	4711.9	26.05	232.78
100.00	8 40 44	2190.53	-25.88	37.47	55.12	105.51	9 17 15	1590.5	-23.50	29.48
100.00	19 49 22	5044.14	28.84	221.28	58.46	81.76	21 13 26	4444.1	27.40	212.77
110.00	9 45 10	1988.80	-29.73	20.87	53.82	107.71	10 18 19	1388.8	-27.02	12.72
110.00	21 1 25	4818.64	32.80	203.41	57.71	79.78	22 21 43	4218.6	31.04	194.63

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.6260	TRA	-1.4898	TC3	-.1157	BAU	.1367	SGT	1052.6	SGR	470.6	SG3	52.7	ST	490.7	SR	409.6	SS	458.9
RDE	-.6339	RRA	-.3489	RC3	.0512	FAU	.01606	RRT	.0639	RRF	-.0633	RTF	-.7349	CRT	-.7075	CRS	-.8121	CST	.9858
FDE	-.4283	FRA	.7024	FC3	-.1721	BSP	2998	SGB	1153.0	R23	-.0047	R13	-.7350	LSA	747.6	MSA	244.8	SSA	15.1
BDE	.8909	BRA	1.5301	BC3	.1265	FSP	-121	SG1	1053.2	SG2	469.4	THA	2.04	EL1	592.5	EL2	239.7	ALF	142.20

LAUNCH DATE MAY 21 1967 FLIGHT TIME 84.00 ARRIVAL DATE AUG 13 1967

HELIOCENTRIC CONIC DISTANCE 183.699

RL	151.40	LAL	-.00	LOL	239.28	VL	22.110	GAL	10.13	AZL	92.88	HCA	69.85	SMA	104.97	ECC	.46963	INC	2.8778	V1	29.428
RP	108.94	LAP	-2.70	LOP	309.10	VP	34.235	GAP	-27.93	AZP	90.99	TAL	168.14	TAP	237.98	RCA	55.67	APO	154.26	V2	34.784
RC	49.035	GL	-7.35	GP	1.93	ZAL	65.44	ZAP	15.92	ETS	188.03	ZAE	158.32	ETE	149.43	ZAC	118.86	ETC	18.66	CLP	15.81

PLANETOCENTRIC CONIC

C3	72.908	VHL	8.539	DLA	-4.39	RAL	171.62	RAD	6569.4	VEL	13.938	PTH	2.54	VHP	16.685	DPA	18.02	RAP	148.95	ECC	2.1999

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 28 22	2397.66	-23.55	53.42	53.79	106.20	8 8 20	1797.7	-21.10	45.60
90.00	18 21 6	5314.35	27.40	241.38	57.56	82.54	19 49 40	4714.3	26.08	232.96
100.00	8 47 39	2141.91	-24.95	34.16	53.33	107.02	9 23 21	1541.9	-22.39	26.30
100.00	19 44 30	5045.34	28.85	221.37	57.34	81.81	21 8 35	4445.3	27.41	212.86
110.00	9 51 11	1943.04	-28.74	17.67	51.94	109.36	10 23 34	1343.0	-25.82	9.70
110.00	20 57 28	4816.97	32.78	203.29	56.59	79.71	22 17 45	4217.0	31.01	194.51

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.6280	TRA	-1.4799	TC3	-.1125	BAU	.1234	SGT	1098.3	SGR	471.1	SG3	57.3	ST	516.6	SR	408.0	SS	483.4
RDE	-.5997	RRA	-.3326	RC3	.0582	FAU	.01655	RRT	.0662	RRF	-.0665	RTF	-.7507	CRT	-.7095	CRS	-.8157	CST	.9854
FDE	-.4497	FRA	.7227	FC3	-.1965	BSP	3185	SGB	1195.1	R23	-.0057	R13	-.7509	LSA	778.6	MSA	246.2	SSA	15.3
BDE	.8684	BRA	1.5168	BC3	.1266	FSP	-134	SG1	1098.9	SG2	469.8	THA	1.99	EL1	611.9	EL2	242.8	ALF	144.28

LAUNCH DATE MAY 21 1967 FLIGHT TIME 86.00 ARRIVAL DATE AUG 15 1967

HELIOCENTRIC CONIC DISTANCE 190.165

RL 151.40 LAL -.00 LOL 239.28 VL 22.508 GAL 9.64 AZL 92.94 HCA 73.01 SMA 106.47 ECC .44856 INC 2.9391 V1 29.428
RP 108.94 LAP -2.81 LOP 312.26 VP 34.494 GAP -26.62 AZP 90.86 TAL 167.71 TAP 240.72 RCA 58.71 APO 154.22 V2 34.784
RC 47.750 GL -8.06 GP 2.02 ZAL 64.99 ZAP 14.48 ETS 188.99 ZAE 159.82 ETE 144.98 ZAC 117.21 ETC 18.28 CLP 14.35

PLANETOCENTRIC CONIC

C3 65.852 VHL 8.115 DLA -5.23 RAL 171.80 RAD 6569.3 VEL 13.682 PTH 2.50 VHP 15.958 DPA 17.55 RAP 150.67 ECC 2.0838

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 35 27	2347.03	-22.55	50.05	51.98	107.60	8 14 34	1747.0	-19.93	42.36
90.00	18 15 24	5316.74	27.42	241.55	56.32	82.63	19 44 1	4716.7	26.11	233.13
100.00	8 54 20	2092.59	-23.93	30.85	51.49	108.47	9 29 12	1492.6	-21.18	23.13
100.00	19 39 13	5046.42	28.86	221.45	56.09	81.85	21 3 19	4446.4	27.43	212.93
110.00	9 56 55	1896.64	-27.65	14.50	50.02	110.95	10 28 32	1296.6	-24.55	6.70
110.00	20 53 7	4815.14	32.76	203.15	55.35	79.63	22 13 22	4215.1	30.98	194.38

DIFFERENTIAL CORRECTIONS
TDE .6303 TRA-1.4687 TC3 -.1071 BAU .1107
RDE -.5664 RRA -.3164 RC3 .0659 FAU .01709
FDE -.4726 FRA .7433 FC3 -.2246 BSP 3366
BDE .8474 BRA 1.5024 BC3 .1258 FSP -148

MID-COURSE EXECUTION ACCURACY
SGT 1145.7 SGR 470.8 SG3 62.4
RRT .0688 RRF -.0700 RTF -.7658
SGB 1238.7 R23 -.0067 R13 -.7660
SG1 1146.2 SG2 469.5 THA 1.94

ORBIT DETERMINATION ACCURACY
ST 543.7 SR 405.5 SS 509.3
CRT -.7118 CRS -.8195 CST .9849
LSA 811.4 MSA 246.9 SSA 15.5
EL1 632.6 EL2 244.8 ALF 146.34

LAUNCH DATE MAY 21 1967 FLIGHT TIME 88.00 ARRIVAL DATE AUG 17 1967

HELIOCENTRIC CONIC DISTANCE 196.675

RL 151.40 LAL -.00 LOL 239.28 VL 22.879 GAL 9.17 AZL 93.00 HCA 76.17 SMA 107.92 ECC .42843 INC 2.9984 V1 29.428
RP 108.94 LAP -2.91 LOP 315.42 VP 34.738 GAP -25.36 AZP 90.72 TAL 167.33 TAP 243.50 RCA 61.69 APO 154.16 V2 34.785
RC 46.594 GL -8.81 GP 2.12 ZAL 64.63 ZAP 13.06 ETS 190.23 ZAE 161.30 ETE 139.58 ZAC 115.55 ETC 17.93 CLP 12.89

PLANETOCENTRIC CONIC

C3 59.527 VHL 7.715 DLA -6.09 RAL 171.88 RAD 6569.1 VEL 13.449 PTH 2.46 VHP 15.256 DPA 17.08 RAP 152.38 ECC 1.9797

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 42 18	2295.73	-21.45	46.69	50.12	108.94	8 20 33	1695.7	-18.67	39.12
90.00	18 9 15	5319.24	27.44	241.73	54.97	82.72	19 37 55	4719.2	26.15	233.30
100.00	9 0 45	2042.64	-22.81	27.56	49.60	109.86	9 34 48	1442.6	-19.90	19.98
100.00	19 33 29	5047.57	28.87	221.53	54.75	81.89	20 57 37	4447.6	27.45	213.02
110.00	10 2 23	1849.67	-26.46	11.36	48.05	112.47	10 33 13	1249.7	-23.18	3.74
110.00	20 48 21	4813.30	32.73	203.01	54.01	79.55	22 8 34	4213.3	30.94	194.24

DIFFERENTIAL CORRECTIONS
TDE .6305 TRA-1.4585 TC3 -.1007 BAU .0996
RDE -.5338 RRA -.3006 RC3 .0744 FAU .01766
FDE -.4968 FRA .7647 FC3 -.2569 BSP 3497
BDE .8261 BRA 1.4891 BC3 .1252 FSP -163

MID-COURSE EXECUTION ACCURACY
SGT 1195.7 SGR 469.8 SG3 68.0
RRT .0732 RRF -.0743 RTF -.7791
SGB 1284.7 R23 -.0070 R13 -.7793
SG1 1196.3 SG2 468.3 THA 1.94

ORBIT DETERMINATION ACCURACY
ST 571.0 SR 402.1 SS 536.4
CRT -.7126 CRS -.8230 CST .9841
LSA 844.9 MSA 247.5 SSA 15.7
EL1 653.4 EL2 246.5 ALF 148.33

LAUNCH DATE MAY 21 1967 FLIGHT TIME 90.00 ARRIVAL DATE AUG 19 1967

HELIOCENTRIC CONIC DISTANCE 203.224

RL 151.40 LAL -.00 LOL 239.28 VL 23.226 GAL 8.71 AZL 93.06 HCA 79.33 SMA 109.34 ECC .40924 INC 3.0561 V1 29.428
RP 108.94 LAP -3.00 LOP 318.59 VP 34.969 GAP -24.16 AZP 90.57 TAL 166.99 TAP 246.32 RCA 64.60 APO 154.09 V2 34.786
RC 45.578 GL -9.60 GP 2.23 ZAL 64.35 ZAP 11.63 ETS 191.84 ZAE 162.71 ETE 133.00 ZAC 113.90 ETC 17.59 CLP 11.42

PLANETOCENTRIC CONIC

C3 53.861 VHL 7.339 DLA -6.95 RAL 171.88 RAD 6568.9 VEL 13.237 PTH 2.42 VHP 14.579 DPA 16.60 RAP 154.09 ECC 1.8864

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 48 55	2243.82	-20.27	43.34	48.22	110.21	8 26 19	1643.8	-17.33	35.90
90.00	18 2 38	5322.03	27.46	241.93	53.52	82.81	19 31 20	4722.0	26.18	233.50
100.00	9 6 56	1992.12	-21.61	24.29	47.68	111.17	9 40 8	1392.1	-18.54	16.84
100.00	19 27 18	5048.96	28.88	221.63	53.30	81.94	20 51 27	4449.0	27.47	213.11
110.00	10 7 35	1802.22	-25.19	8.26	46.06	113.91	10 37 38	1202.2	-21.74	.81
110.00	20 43 8	4811.63	32.71	202.88	52.57	79.48	22 3 19	4211.6	30.91	194.12

DIFFERENTIAL CORRECTIONS
TDE .6336 TRA-1.4442 TC3 -.0897 BAU .0884
RDE -.5020 RRA -.2851 RC3 .0838 FAU .01833
FDE -.5235 FRA .7860 FC3 -.2946 BSP 3690
BDE .8084 BRA 1.4720 BC3 .1227 FSP -181

MID-COURSE EXECUTION ACCURACY
SGT 1245.8 SGR 467.9 SG3 74.1
RRT .0765 RRF -.0787 RTF -.7927
SGB 1330.8 R23 -.0082 R13 -.7929
SG1 1246.4 SG2 466.4 THA 1.91

ORBIT DETERMINATION ACCURACY
ST 600.7 SR 397.7 SS 565.5
CRT -.7157 CRS -.8269 CST .9837
LSA 881.8 MSA 246.7 SSA 15.8
EL1 676.9 EL2 246.4 ALF 150.33

LAUNCH DATE MAY 21 1967 FLIGHT TIME 92.00 ARRIVAL DATE AUG 21 1967

HELIOCENTRIC CONIC DISTANCE 209.808

RL 151.40 LAL -.00 LOL 239.28 VL 23.548 GAL 8.27 AZL 93.11 HCA 82.49 SMA 110.72 ECC .39100 INC 3.1126 V1 29.428
RP 108.93 LAP -3.09 LOP 321.75 VP 35.186 GAP -23.00 AZP 90.41 TAL 166.69 TAP 249.18 RCA 67.43 APO 154.01 V2 34.788
RC 44.711 GL -10.44 GP 2.34 ZAL 64.15 ZAP 10.22 ETS 193.98 ZAE 163.94 ETE 125.04 ZAC 112.24 ETC 17.27 CLP 9.95

PLANETOCENTRIC CONIC

C3 48.789 VHL 6.985 DLA -7.82 RAL 171.79 RAD 6568.8 VEL 13.044 PTH 2.38 VHP 13.924 DPA 16.13 RAP 155.78 ECC 1.8029

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 55 19	2191.36	-19.00	40.02	46.28	111.40	8 31 51	1591.4	-15.92	32.69
90.00	17 55 30	5325.30	27.49	242.17	51.98	82.93	19 24 15	4725.3	26.23	233.73
100.00	9 12 54	1941.11	-20.32	21.05	45.72	112.41	9 45 15	1341.1	-17.10	13.73
100.00	19 20 36	5050.79	28.90	221.77	51.77	82.01	20 44 47	4450.8	27.49	213.24
110.00	10 12 32	1754.36	-23.83	5.20	44.04	115.26	10 41 47	1154.4	-20.23	357.91
110.00	20 37 27	4810.30	32.70	202.78	51.04	79.42	21 57 37	4210.3	30.89	194.03

DIFFERENTIAL CORRECTIONS
TDE .6371 TRA-1.4286 TC3 -.0755 BAU .0787
RDE -.4710 RRA -.2700 RC3 .0940 FAU .01906
FDE -.5524 FRA .8080 FC3 -.3381 BSP 3876
BDE .7923 BRA 1.4539 BC3 .1206 FSP -199

MID-COURSE EXECUTION ACCURACY
SGT 1297.5 SGR 465.3 SG3 80.9
RRT .0806 RRF -.0839 RTF -.8056
SGB 1378.4 R23 -.0095 R13 -.8058
SG1 1298.1 SG2 463.6 THA 1.90

ORBIT DETERMINATION ACCURACY
ST 631.7 SR 392.2 SS 596.5
CRT -.7190 CRS -.8309 CST .9834
LSA 921.0 MSA 245.3 SSA 16.0
EL1 701.9 EL2 245.3 ALF 152.27

LAUNCH DATE MAY 21 1967 FLIGHT TIME 94.00 ARRIVAL DATE AUG 23 1967

HELIOCENTRIC CONIC DISTANCE 216.423

RL 151.40 LAL -.00 LOL 239.28 VL 23.848 GAL 7.84 AZL 93.17 HCA 85.65 SMA 112.05 ECC .37367 INC 3.1683 V1 29.428
RP 108.92 LAP -3.16 LOP 324.92 VP 35.390 GAP -21.89 AZP 90.24 TAL 166.44 TAP 252.09 RCA 70.18 APO 153.92 V2 34.791
RC 44.000 GL -11.32 GP 2.48 ZAL 64.05 ZAP 8.83 ETS 196.93 ZAE 164.90 ETE 115.63 ZAC 110.59 ETC 16.96 CLP 8.47

PLANETOCENTRIC CONIC

C3 44.252 VHL 6.652 DLA -8.71 RAL 171.61 RAD 6568.7 VEL 12.869 PTH 2.34 VHP 13.293 DPA 15.66 RAP 157.47 ECC 1.7283

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 1 32	2138.43	-17.65	36.72	44.32	112.51	8 37 11	1538.4	-14.45	29.51
90.00	17 47 49	5329.28	27.52	242.45	50.36	83.07	19 16 38	4729.3	26.28	234.01
100.00	9 18 39	1889.68	-18.95	17.85	43.74	113.56	9 50 8	1289.7	-15.60	10.65
100.00	19 13 24	5053.27	28.92	221.95	50.15	82.10	20 37 37	4453.3	27.53	213.42
110.00	10 17 14	1706.21	-22.40	2.20	42.01	116.52	10 45 41	1106.2	-18.66	355.06
110.00	20 31 17	4809.50	32.69	202.72	49.43	79.38	21 51 27	4209.5	30.88	193.97

DIFFERENTIAL CORRECTIONS
TDE .6417 TRA-1.4108 TC3 -.0570 BAU .0708
RDE -.4408 RRA -.2553 RC3 .1053 FAU .01987
FDE -.5842 FRA .8303 FC3 -.3887 BSP 4076
BDE .7785 BRA 1.4337 BC3 .1197 FSP -221

MID-COURSE EXECUTION ACCURACY
SGT 1350.0 SGR 461.8 SG3 88.3
RRT .0851 RRF -.0897 RTF -.8179
SGB 1426.8 R23 -.0111 R13 -.8181
SG1 1350.6 SG2 459.9 THA 1.89

ORBIT DETERMINATION ACCURACY
ST 664.4 SR 385.5 SS 629.6
CRT -.7231 CRS -.8351 CST .9831
LSA 962.9 MSA 243.0 SSA 16.1
EL1 728.8 EL2 242.8 ALF 154.16

LAUNCH DATE MAY 21 1967 FLIGHT TIME 96.00 ARRIVAL DATE AUG 25 1967

HELIOCENTRIC CONIC DISTANCE 223.064

RL 151.40 LAL -.00 LOL 239.28 VL 24.127 GAL 7.42 AZL 93.22 HCA 88.81 SMA 113.33 ECC .35726 INC 3.2235 V1 29.428
RP 108.91 LAP -3.22 LOP 328.09 VP 35.582 GAP -20.82 AZP 90.07 TAL 166.23 TAP 255.04 RCA 72.84 APO 153.82 V2 34.795
RC 43.455 GL -12.25 GP 2.62 ZAL 64.03 ZAP 7.46 ETS 201.14 ZAE 165.46 ETE 104.97 ZAC 108.95 ETC 16.68 CLP 6.98

PLANETOCENTRIC CONIC

C3 40.198 VHL 6.340 DLA -9.61 RAL 171.33 RAD 6568.5 VEL 12.711 PTH 2.31 VHP 12.684 DPA 15.19 RAP 159.14 ECC 1.6616

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 7 35	2085.10	-16.23	33.45	42.34	113.53	8 42 20	1485.1	-12.91	26.34
90.00	17 39 34	5334.16	27.56	242.80	48.66	83.24	19 8 29	4734.2	26.34	234.35
100.00	9 24 12	1837.91	-17.51	14.67	41.74	114.62	9 54 50	1237.9	-14.04	7.60
100.00	19 5 38	5056.58	28.95	222.19	48.46	82.22	20 29 55	4456.6	27.58	213.66
110.00	10 21 42	1657.84	-20.90	359.25	39.98	117.68	10 49 20	1057.8	-17.03	352.26
110.00	20 24 37	4809.42	32.68	202.72	47.76	79.38	21 44 47	4209.4	30.87	193.96

DIFFERENTIAL CORRECTIONS
TDE .6468 TRA-1.3916 TC3 -.0340 BAU .0657
RDE -.4115 RRA -.2412 RC3 .1175 FAU .02077
FDE -.6191 FRA .8533 FC3 -.4474 BSP 4277
BDE .7666 BRA 1.4124 BC3 .1223 FSP -244

MID-COURSE EXECUTION ACCURACY
SGT 1403.7 SGR 457.5 SG3 96.5
RRT .0906 RRF -.0967 RTF -.8296
SGB 1476.4 R23 -.0127 R13 -.8297
SG1 1404.4 SG2 455.4 THA 1.89

ORBIT DETERMINATION ACCURACY
ST 698.6 SR 377.7 SS 665.1
CRT -.7275 CRS -.8392 CST .9829
LSA 1007.6 MSA 240.0 SSA 16.3
EL1 757.4 EL2 239.1 ALF 155.99

LAUNCH DATE MAY 21 1967 FLIGHT TIME 98.00 ARRIVAL DATE AUG 27 1967

HELIOCENTRIC CONIC DISTANCE 229.726

RL 151.40 LAL -.00 LOL 239.28 VL 24.387 GAL 7.02 AZL 93.28 HCA 91.98 SMA 114.56 ECC .34174 INC 3.2787 V1 29.428
RP 108.90 LAP -3.28 LOP 331.25 VP 35.763 GAP -19.79 AZP 89.89 TAL 166.06 TAP 258.04 RCA 75.41 APO 153.72 V2 34.799
RC 43.079 GL -13.23 GP 2.78 ZAL 64.11 ZAP 6.14 ETS 207.42 ZAE 165.54 ETE 93.64 ZAC 107.31 ETC 16.40 CLP 5.48

PLANETOCENTRIC CONIC

C3 36.580 VHL 6.048 DLA -10.52 RAL 170.96 RAD 6568.4 VEL 12.568 PTH 2.28 VHP 12.095 DPA 14.73 RAP 160.79 ECC 1.6020

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 13 27	2031.42	-14.74	30.21	40.35	114.45	8 47 19	1431.4	-11.32	23.20
90.00	17 30 44	5340.18	27.61	243.24	46.90	83.45	18 59 44	4740.2	26.42	234.77
100.00	9 29 34	1785.88	-16.01	11.54	39.74	115.59	9 59 20	1185.9	-12.43	4.57
100.00	18 57 19	5060.95	28.99	222.51	46.71	82.39	20 21 40	4461.0	27.64	213.97
110.00	10 25 56	1609.41	-19.34	356.35	37.94	118.75	10 52 45	1009.4	-15.36	349.50
110.00	20 17 26	4810.23	32.69	202.78	46.02	79.42	21 37 36	4210.2	30.89	194.02

DIFFERENTIAL CORRECTIONS
TDE .6528 TRA-1.3705 TC3 -.0061 BAU .0640
RDE -.3830 RRA -.2277 RC3 .1307 FAU .02178
FDE -.6576 FRA .8769 FC3 -.5155 BSP 4476
BDE .7568 BRA 1.3893 BC3 .1309 FSP -270

MID-COURSE EXECUTION ACCURACY
SGT 1458.1 SGR 452.5 SG3 105.5
RRT .0973 RRF -.1049 RTF -.8405
SGB 1526.7 R23 -.0146 R13 -.8407
SG1 1458.8 SG2 450.1 THA 1.91

ORBIT DETERMINATION ACCURACY
ST 734.4 SR 368.7 SS 703.1
CRT -.7322 CRS -.8434 CST .9829
LSA 1055.3 MSA 236.3 SSA 16.4
EL1 787.7 EL2 234.2 ALF 157.74

LAUNCH DATE MAY 21 1967 FLIGHT TIME 100.00 ARRIVAL DATE AUG 29 1967

HELIOCENTRIC CONIC DISTANCE 236.407

RL 151.40 LAL -.00 LOL 239.28 VL 24.628 GAL 6.64 AZL 93.33 HCA 95.14 SMA 115.74 ECC .32710 INC 3.3340 V1 29.428
RP 108.88 LAP -3.32 LOP 334.42 VP 35.933 GAP -18.80 AZP 89.70 TAL 165.94 TAP 261.08 RCA 77.88 APO 153.61 V2 34.804
RC 42.876 GL -14.26 GP 2.96 ZAL 64.27 ZAP 4.94 ETS 217.27 ZAE 165.09 ETE 82.49 ZAC 105.69 ETC 16.15 CLP 3.95

PLANETOCENTRIC CONIC

C3 33.356 VHL 5.776 DLA -11.44 RAL 170.50 RAD 6568.3 VEL 12.439 PTH 2.25 VHP 11.528 DPA 14.29 RAP 162.43 ECC 1.5490

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 19 12	1977.48	-13.20	27.00	38.36	115.28	8 52 10	1377.5	-9.69	20.08
90.00	17 21 16	5347.54	27.67	243.77	45.09	83.71	18 50 24	4747.5	26.51	235.29
100.00	9 34 46	1733.67	-14.45	8.45	37.73	116.46	10 3 40	1133.7	-10.78	1.58
100.00	18 48 23	5066.57	29.04	222.92	44.91	82.60	20 12 50	4466.6	27.72	214.36
110.00	10 29 57	1560.88	-17.73	353.52	35.91	119.72	10 55 58	960.9	-13.64	346.79
110.00	20 9 42	4812.13	32.72	202.92	44.23	79.50	21 29 54	4212.1	30.92	194.16

DIFFERENTIAL CORRECTIONS
TDE .6596 TRA-1.3481 TC3 .0270 BAU .0658
RDE -.3552 RRA -.2148 RC3 .1450 FAU .02290
FDE -.7004 FRA .9015 FC3 -.5942 BSP 4672
BDE .7492 BRA 1.3651 BC3 .1475 FSP -299

MID-COURSE EXECUTION ACCURACY
SGT 1513.6 SGR 446.7 SG3 115.5
RRT .1055 RRF -.1148 RTF -.8507
SGB 1578.2 R23 -.0167 R13 -.8509
SG1 1514.4 SG2 443.9 THA 1.95

ORBIT DETERMINATION ACCURACY
ST 771.9 SR 358.4 SS 744.1
CRT -.7370 CRS -.8473 CST .9828
LSA 1106.3 MSA 232.1 SSA 16.5
EL1 819.9 EL2 228.1 ALF 159.45

LAUNCH DATE MAY 21 1967 FLIGHT TIME 102.00 ARRIVAL DATE AUG 31 1967

HELIOCENTRIC CONIC DISTANCE 243.102

RL	151.40	LAL	-.00	LOL	239.28	VL	24.852	GAL	6.27	AZL	93.39	HCA	98.30	SMA	116.87	ECC	.31331	INC	3.3899	V1	29.428
RP	108.87	LAP	-3.35	LOP	337.59	VP	36.092	GAP	-17.84	AZP	89.51	TAL	165.87	TAP	264.17	RCA	80.26	APO	153.49	V2	34.809
RC	42.849	GL	-15.34	GP	3.16	ZAL	64.53	ZAP	3.97	ETS	233.13	ZAE	164.17	ETE	72.30	ZAC	104.08	ETC	15.90	CLP	2.40

PLANETOCENTRIC CONIC

C3	30.488	VHL	5.522	DLA	-12.38	RAL	169.93	RAD	6568.2	VEL	12.323	PTH	2.22	VHP	10.980	DPA	13.87	RAP	164.05	ECC	1.5018

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 24 50	1923.32	-11.60	23.82	36.36	116.01	8 56 54	1323.3	-8.01	16.98
90.00	17 11 9	5356.45	27.73	244.41	43.24	84.03	18 40 26	4756.5	26.61	235.92
100.00	9 39 50	1681.36	-12.84	5.40	35.73	117.23	10 7 51	1081.4	-9.09	358.62
100.00	18 38 51	5073.65	29.10	223.43	43.06	82.86	20 3 24	4473.6	27.81	214.87
110.00	10 33 45	1512.48	-16.07	350.74	33.89	120.58	10 58 58	912.5	-11.90	344.13
110.00	20 1 25	4815.29	32.76	203.16	42.40	79.63	21 21 40	4215.3	30.98	194.39

DIFFERENTIAL CORRECTIONS

TOE	.6676	TRA	-1.3236	TC3	.0659	BAU	.0707
ROE	-.3282	RRA	-.2027	RC3	.1604	FAU	.02414
FOE	-.7482	FRA	.9270	FC3	-.6853	BSP	4877
BOE	.7440	BRA	1.3391	BC3	.1734	FSP	-332

MID-COURSE EXECUTION ACCURACY

SGT	1569.2	SGR	440.1	SG3	126.5		
RRT	.1154	RRF	-.1267	RTF	-.8604		
SGB	1629.8	R23	-.0192	R13	-.8607		
SG1	1570.1	SG2	436.9	THA	2.01		

ORBIT DETERMINATION ACCURACY

ST	811.1	SR	346.7	SS	788.4		
CRT	-.7421	CRS	-.8511	CST	.9829		
LSA	1160.9	MSA	227.2	SSA	16.6		
EL1	854.0	EL2	220.7	ALF	161.09		

LAUNCH DATE MAY 21 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 2 1967

HELIOCENTRIC CONIC DISTANCE 249.809

RL	151.40	LAL	-.00	LOL	239.28	VL	25.060	GAL	5.92	AZL	93.45	HCA	101.47	SMA	117.95	ECC	.30034	INC	3.4468	V1	29.428
RP	108.85	LAP	-3.38	LOP	340.77	VP	36.241	GAP	-16.93	AZP	89.31	TAL	165.84	TAP	267.31	RCA	82.52	APO	153.38	V2	34.815
RC	42.995	GL	-16.47	GP	3.38	ZAL	64.88	ZAP	3.48	ETS	256.63	ZAE	162.88	ETE	63.53	ZAC	102.49	ETC	15.67	CLP	.82

PLANETOCENTRIC CONIC

C3	27.942	VHL	5.286	DLA	-13.33	RAL	169.28	RAD	6568.1	VEL	12.220	PTH	2.20	VHP	10.452	DPA	13.47	RAP	165.64	ECC	1.4599

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 30 24	1868.99	-9.96	20.67	34.38	116.64	9 1 33	1269.0	-6.31	13.90
90.00	17 0 21	5367.14	27.81	245.19	41.35	84.41	18 29 49	4767.1	26.74	236.68
100.00	9 44 47	1629.00	-11.19	2.39	33.74	117.90	10 11 56	1029.0	-7.37	355.68
100.00	18 28 40	5082.37	29.18	224.07	41.18	83.19	19 53 22	4482.4	27.93	215.49
110.00	10 37 22	1464.26	-14.38	348.03	31.88	121.35	11 1 47	864.3	-10.13	341.51
110.00	19 52 33	4819.87	32.81	203.50	40.55	79.83	21 12 53	4219.9	31.06	194.72

DIFFERENTIAL CORRECTIONS

TOE	.6771	TRA	-1.2977	TC3	.1112	BAU	.0780
ROE	-.3019	RRA	-.1913	RC3	.1768	FAU	.02552
FOE	-.8017	FRA	.9534	FC3	-.7907	BSP	5077
BOE	.7414	BRA	1.3118	BC3	.2089	FSP	-368

MID-COURSE EXECUTION ACCURACY

SGT	1625.5	SGR	432.9	SG3	138.8		
RRT	.1276	RRF	-.1412	RTF	-.8696		
SGB	1682.1	R23	-.0221	R13	-.8698		
SG1	1626.5	SG2	429.1	THA	2.09		

ORBIT DETERMINATION ACCURACY

ST	852.5	SR	333.5	SS	836.1		
CRT	-.7473	CRS	-.8546	CST	.9832		
LSA	1219.7	MSA	221.8	SSA	16.6		
EL1	890.5	EL2	212.1	ALF	162.69		

LAUNCH DATE MAY 21 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 4 1967

HELIOCENTRIC CONIC DISTANCE 256.523

RL	151.40	LAL	-.00	LOL	239.28	VL	25.252	GAL	5.58	AZL	93.50	HCA	104.64	SMA	118.97	ECC	.28818	INC	3.5050	V1	29.428
RP	108.83	LAP	-3.39	LOP	343.94	VP	36.381	GAP	-16.04	AZP	89.11	TAL	165.85	TAP	270.49	RCA	84.69	APO	153.26	V2	34.822
RC	43.312	GL	-17.65	GP	3.63	ZAL	65.32	ZAP	3.72	ETS	282.48	ZAE	161.32	ETE	56.26	ZAC	100.93	ETC	15.44	CLP	-.79

PLANETOCENTRIC CONIC

C3	25.686	VHL	5.068	DLA	-14.29	RAL	168.53	RAD	6568.0	VEL	12.127	PTH	2.17	VHP	9.943	DPA	13.10	RAP	167.21	ECC	1.4227

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 35 55	1814.52	-8.28	17.55	32.42	117.17	9 6 9	1214.5	-4.58	10.84
90.00	16 48 51	5379.82	27.89	246.11	39.44	84.87	18 18 31	4779.8	26.88	237.58
100.00	9 49 38	1576.65	-9.51	359.41	31.77	118.47	10 15 55	976.6	-5.63	352.77
100.00	18 17 49	5092.93	29.26	224.85	39.28	83.59	19 42 42	4492.9	28.06	216.25
110.00	10 40 50	1416.31	-12.67	345.37	29.89	122.02	11 4 26	816.3	-8.35	338.94
110.00	19 43 7	4826.03	32.89	203.97	38.67	80.10	21 3 33	4226.0	31.17	195.17

DIFFERENTIAL CORRECTIONS

TOE	.6884	TRA	-1.2702	TC3	.1648	BAU	.0875
ROE	-.2762	RRA	-.1807	RC3	.1943	FAU	.02706
FOE	-.8620	FRA	.9810	FC3	-.9121	BSP	5281
BOE	.7418	BRA	1.2830	BC3	.2548	FSP	-408

MID-COURSE EXECUTION ACCURACY

SGT	1682.1	SGR	425.1	SG3	152.5		
RRT	.1431	RRF	-.1589	RTF	-.8789		
SGB	1735.0	R23	-.0250	R13	-.8791		
SG1	1683.3	SG2	420.5	THA	2.21		

ORBIT DETERMINATION ACCURACY

ST	896.3	SR	318.6	SS	887.9		
CRT	-.7523	CRS	-.8575	CST	.9836		
LSA	1283.1	MSA	215.9	SSA	16.6		
EL1	929.5	EL2	202.4	ALF	164.26		

LAUNCH DATE MAY 21 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 6 1967

HELIOCENTRIC CONIC DISTANCE 263.242

RL	151.40	LAL	-.00	LOL	239.28	VL	25.430	GAL	5.26	AZL	93.56	HCA	107.81	SMA	119.94	ECC	.27680	INC	3.5648	V1	29.428
RP	108.80	LAP	-3.39	LOP	347.11	VP	36.512	GAP	-15.18	AZP	88.91	TAL	165.91	TAP	273.72	RCA	86.74	APO	153.14	V2	34.830
RC	43.796	GL	-18.87	GP	3.91	ZAL	65.84	ZAP	4.61	ETS	302.11	ZAE	159.60	ETE	50.37	ZAC	99.39	ETC	15.23	CLP	-2.44

PLANETOCENTRIC CONIC

C3	23.693	VHL	4.868	DLA	-15.27	RAL	167.69	RAD	6568.0	VEL	12.045	PTH	2.15	VHP	9.453	DPA	12.77	RAP	168.76	ECC	1.3899

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 41 26	1759.93	-6.57	14.45	30.47	117.61	9 10 46	1159.9	-2.83	7.78
90.00	16 36 37	5394.70	27.97	247.19	37.51	85.40	18 6 31	4794.7	27.04	238.64
100.00	9 54 27	1524.35	-7.79	356.47	29.81	118.95	10 19 51	924.3	-3.87	349.88
100.00	18 6 17	5105.51	29.35	225.77	37.37	84.07	19 31 22	4505.5	28.22	217.15
110.00	10 44 8	1368.71	-10.94	342.77	27.92	122.59	11 6 57	768.7	-6.56	336.41
110.00	19 33 5	4833.92	32.98	204.57	36.79	80.44	20 53 39	4233.9	31.31	195.74

DIFFERENTIAL CORRECTIONS

TOE	.6993	TRA	-1.2401	TC3	.2207	BAU	.0972
ROE	-.2509	RRA	-.1711	RC3	.2130	FAU	.02879
FOE	-.9301	FRA	1.0098	FC3	-1.0519	BSP	5480
BOE	.7429	BRA	1.2519	BC3	.3067	FSP	-454

MID-COURSE EXECUTION ACCURACY

SGT	1735.9	SGR	416.9	SG3	167.7		
RRT	.1620	RRF	-.1807	RTF	-.8863		
SGB	1785.2	R23	-.0289	R13	-.8867		
SG1	1737.3	SG2	411.1	THA	2.36		

ORBIT DETERMINATION ACCURACY

ST	940.0	SR	302.0	SS	944.1		
CRT	-.7562	CRS	-.8595	CST	.9839		
LSA	1349.7	MSA	210.0	SSA	16.6		
EL1	968.5	EL2	191.8	ALF	165.78		

LAUNCH DATE MAY 21 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 8 1967

HELIOCENTRIC CONIC DISTANCE 269.964

```
RL  151.40 LAL   -.00 LOL 239.28 VL  25.594 GAL   4.96 AZL  93.63 HCA 110.98 SMA 120.86 ECC .26618 INC 3.6269 V1  29.428
RP  108.78 LAP  -3.39 LOP 350.29 VP  36.634 GAP -14.36 AZP  88.70 TAL 166.01 TAP 276.98 RCA  88.69 APO 153.03 V2  34.838
RC  44.440 GL  -20.14 GP    4.23 ZAL  66.44 ZAP   5.92 ETS 314.46 ZAE 157.82 ETE  45.63 ZAC  97.89 ETC  15.03 CLP  -4.14
```

PLANETOCENTRIC CONIC

```
C3  21.938 VHL  4.684 DLA -16.26 RAL 166.75 RAD 6567.9 VEL 11.972 PTH   2.13 VHP  8.980 DPA  12.49 RAP 170.27 ECC 1.3610
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 47 1	1705.20	-4.84	11.37	28.56	117.93	9 15 27	1105.2	-1.06	4.72
90.00	16 23 36	5412.00	28.06	248.44	35.58	86.03	17 53 48	4812.0	27.21	239.88
180.00	9 59 16	1472.11	-6.06	353.56	27.89	119.33	10 23 48	872.1	-2.11	347.01
100.00	17 54 3	5120.31	29.45	226.86	35.45	84.63	19 19 23	4520.3	28.40	218.21
110.00	10 47 20	1321.52	-9.20	340.23	25.98	123.07	11 9 21	721.5	-4.78	333.92
110.00	19 22 28	4843.67	33.08	205.31	34.91	80.87	20 43 12	4243.7	31.47	196.46

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE  .7121 TRA-1.2093 TC3  .2837 BAU  .1076     SGT 1789.9 SGR  408.4 SG3  184.6      ST   986.2 SR   283.4 SS  1004.9
ROE -.2260 RRA -.1623 RC3  .2329 FAU .03071     RRT  .1858 RRF -.2076 RTF -.8937     CRT -.7588 CRS -.8602 CST  .9844
FOE-1.0073 FRA 1.0403 FC3-1.2120 BSP   5671     SGB 1835.9 R23 -.0334 R13 -.8941     LSA 1421.6 MSA  203.9 SSA   16.5
BOE  .7471 BRA 1.2201 BC3  .3670 FSP   -505     SG1 1791.6 SG2  400.9 THA   2.56     EL1 1010.1 EL2  180.2 ALF 167.29
```

LAUNCH DATE MAY 21 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 10 1967

HELIOCENTRIC CONIC DISTANCE 276.684

```
RL  151.40 LAL   -.00 LOL 239.28 VL  25.746 GAL   4.67 AZL  93.69 HCA 114.15 SMA 121.72 ECC .25628 INC 3.6918 V1  29.428
RP  108.75 LAP  -3.37 LOP 353.47 VP  36.748 GAP -13.56 AZP  88.49 TAL 166.14 TAP 280.29 RCA  90.53 APO 152.92 V2  34.846
RC  45.237 GL  -21.46 GP    4.59 ZAL  67.12 ZAP   7.46 ETS 322.12 ZAE 156.05 ETE  41.85 ZAC  96.43 ETC  14.83 CLP  -5.89
```

PLANETOCENTRIC CONIC

```
C3  20.399 VHL  4.517 DLA -17.26 RAL 165.74 RAD 6567.8 VEL 11.907 PTH   2.12 VHP  8.526 DPA  12.25 RAP 171.75 ECC 1.3357
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 52 45	1650.26	-3.08	8.29	26.69	118.16	9 20 15	1050.3	.71	1.66
90.00	16 9 48	5431.96	28.15	249.90	33.66	86.75	17 40 20	4832.0	27.40	241.31
100.00	10 4 7	1419.93	-4.31	350.67	26.00	119.61	10 27 47	819.9	-.34	344.14
100.00	17 41 6	5137.52	29.55	228.13	33.55	85.30	19 6 43	4537.5	28.59	219.46
110.00	10 50 27	1274.78	-7.45	337.73	24.07	123.46	11 11 42	674.8	-3.00	331.47
110.00	19 11 15	4855.43	33.21	206.20	33.05	81.38	20 32 11	4255.4	31.66	197.32

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE  .7260 TRA-1.1768 TC3  .3519 BAU  .1183     SGT 1842.0 SGR  400.0 SG3  203.5      ST  1033.5 SR   262.7 SS  1070.9
ROE -.2013 RRA -.1546 RC3  .2539 FAU .03287     RRT  .2156 RRF -.2410 RTF -.9006     CRT -.7592 CRS -.8588 CST  .9850
FOE-1.0949 FRA 1.0723 FC3-1.3949 BSP   5855     SGB 1885.0 R23 -.0386 R13 -.9010     LSA 1498.2 MSA  197.8 SSA   16.4
BOE  .7533 BRA 1.1869 BC3  .4340 FSP   -561     SG1 1844.1 SG2  390.1 THA   2.81     EL1 1053.1 EL2  167.8 ALF 168.79
```

LAUNCH DATE MAY 21 1967 FLIGHT TIME 114.00 ARRIVAL DATE SEP 12 1967

HELIOCENTRIC CONIC DISTANCE 283.401

```
RL  151.40 LAL   -.00 LOL 239.28 VL  25.886 GAL   4.40 AZL  93.76 HCA 117.32 SMA 122.53 ECC .24708 INC 3.7599 V1  29.428
RP  108.72 LAP  -3.34 LOP 356.64 VP  36.855 GAP -12.78 AZP  88.27 TAL 166.32 TAP 283.64 RCA  92.26 APO 152.81 V2  34.856
RC  46.178 GL  -22.81 GP    5.00 ZAL  67.86 ZAP   9.17 ETS 327.03 ZAE 154.34 ETE  38.86 ZAC  95.01 ETC  14.64 CLP  -7.70
```

PLANETOCENTRIC CONIC

```
C3  19.055 VHL  4.365 DLA -18.28 RAL 164.65 RAD 6567.8 VEL 11.851 PTH   2.10 VHP  8.089 DPA  12.08 RAP 173.19 ECC 1.3136
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 58 41	1595.01	-1.30	5.20	24.86	118.29	9 25 16	995.0	2.49	358.58
90.00	15 55 8	5454.84	28.22	251.57	31.75	87.58	17 26 3	4854.8	27.59	242.96
100.00	10 9 7	1367.75	-2.55	347.80	24.16	119.79	10 31 54	767.7	1.43	341.28
100.00	17 27 23	5157.34	29.66	229.59	31.66	86.06	18 53 21	4557.3	28.79	220.89
110.00	10 53 33	1228.53	-5.71	335.29	22.20	123.76	11 14 1	628.5	-1.23	329.06
110.00	18 59 27	4869.32	33.34	207.27	31.20	82.00	20 20 36	4269.3	31.88	198.34

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE  .7437 TRA-1.1407 TC3  .4296 BAU  .1301     SGT 1892.0 SGR  392.0 SG3  224.7      ST  1084.8 SR   239.5 SS  1143.6
ROE -.1763 RRA -.1480 RC3  .2764 FAU .03533     RRT  .2523 RRF -.2818 RTF -.9079     CRT -.7574 CRS -.8546 CST  .9859
FOE-1.1963 FRA 1.1051 FC3-1.6053 BSP   6088     SGB 1932.2 R23 -.0446 R13 -.9084     LSA 1582.8 MSA  191.0 SSA   16.1
BOE  .7643 BRA 1.1503 BC3  .5108 FSP   -628     SG1 1894.7 SG2  378.7 THA   3.12     EL1 1100.1 EL2  154.2 ALF 170.31
```

LAUNCH DATE MAY 21 1967 FLIGHT TIME 116.00 ARRIVAL DATE SEP 14 1967

HELIOCENTRIC CONIC DISTANCE 290.114

```
RL  151.40 LAL   -.00 LOL 239.28 VL  26.015 GAL   4.14 AZL  93.83 HCA 120.49 SMA 123.29 ECC .23855 INC 3.8321 V1  29.428
RP  108.69 LAP  -3.30 LOP 359.82 VP  36.955 GAP -12.04 AZP  88.05 TAL 166.52 TAP 287.01 RCA  93.88 APO 152.71 V2  34.865
RC  47.255 GL  -24.20 GP    5.47 ZAL  68.67 ZAP  11.01 ETS 330.30 ZAE 152.74 ETE  36.52 ZAC  93.64 ETC  14.45 CLP  -9.57
```

PLANETOCENTRIC CONIC

```
C3  17.889 VHL  4.230 DLA -19.30 RAL 163.48 RAD 6567.7 VEL 11.801 PTH   2.09 VHP  7.669 DPA  11.99 RAP 174.59 ECC 1.2944
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 4 57	1539.28	.50	2.10	23.09	118.31	9 30 37	939.3	4.28	355.46
90.00	15 39 34	5480.99	28.28	253.48	29.86	88.54	17 10 55	4881.0	27.78	244.85
100.00	10 14 19	1315.46	-.78	344.93	22.38	119.88	10 36 14	715.5	3.20	338.41
100.00	17 12 54	5180.03	29.75	231.27	29.80	86.94	18 39 14	4580.0	29.01	222.55
110.00	10 56 40	1182.77	-3.97	332.88	20.39	123.98	11 16 22	582.8	.52	326.67
110.00	18 47 2	4885.49	33.49	208.51	29.40	82.72	20 8 28	4285.5	32.12	199.54

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE  .7601 TRA-1.1060 TC3  .5048 BAU  .1405     SGT 1939.8 SGR  385.0 SG3  248.3      ST  1134.5 SR   213.6 SS  1221.6
ROE -.1510 RRA -.1425 RC3  .3004 FAU .03802     RRT  .2982 RRF -.3321 RTF -.9137     CRT -.7477 CRS -.8447 CST  .9866
FOE-1.3111 FRA 1.1413 FC3-1.8401 BSP   6255     SGB 1977.6 R23 -.0518 R13 -.9143     LSA 1670.5 MSA  185.3 SSA   15.9
BOE  .7749 BRA 1.1152 BC3  .5875 FSP   -700     SG1 1943.3 SG2  366.9 THA   3.51     EL1 1145.9 EL2  140.5 ALF 171.86
```

```
LAUNCH DATE  MAY 21 1967                          FLIGHT TIME 118.00                          ARRIVAL DATE  SEP 16 1967

  HELIOCENTRIC CONIC                              DISTANCE 296.819
   RL  151.40 LAL   -.00 LOL 239.28 VL  26.133 GAL   3.90 AZL  93.91 HCA 123.67 SMA 124.00 ECC .23068 INC 3.9093 VI  29.428
   RP  108.66 LAP  -3.25 LOP   3.01 VP  37.047 GAP -11.31 AZP  87.83 TAL 166.75 TAP 290.42 RCA  95.40 APO 152.61 V2  34.875
   RC  48.458 GL  -25.63 GP    6.01 ZAL  69.53 ZAP  12.98 ETS 332.53 ZAE 151.27 ETE  34.74 ZAC  92.33 ETC  14.27 CLP -11.53
  PLANETOCENTRIC CONIC
   C3  16.886 VHL  4.109 DLA -20.34 RAL 162.25 RAD 6567.7 VEL 11.759 PTH   2.08 VHP  7.267 DPA  11.99 RAP 175.95 ECC 1.2779
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     9 11 43   1482.74       2.32     358.94      21.40      118.23    9 36 26     882.7       6.08      352.28
      90.00    15 23  0   5510.81      28.31     255.66      28.02       89.63   16 54 51    4910.8      27.96      247.01
     100.00    10 19 51   1262.89       1.00     342.05      20.66      119.88   10 40 53     662.9       4.97      335.51
     100.00    16 57 34   5205.89      29.83     233.19      27.98       87.95   18 24 19    4605.9      29.22      224.44
     110.00    10 59 52   1137.45      -2.24     330.51      18.64      124.12   11 18 50     537.5       2.25      324.31
     110.00    18 34  1   4904.10      33.64     209.94      27.65       83.55   19 55 45    4304.1      32.38      200.93
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
   TOE  .7775 TRA-1.0694 TC3  .5827 BAU  .1508    SGT 1983.3 SGR  380.1 SG3  274.8          ST  1184.5 SR   184.7 SS  1306.1
   ROE -.1247 RRA -.1384 RC3  .3264 FAU .04106    RRT  .3543 RRF -.3929 RTF -.9191          CRT -.7265 CRS -.8250 CST  .9873
   FOE-1.4430 FRA 1.1790 FC3-2.1053 BSP   6419    SGB 2019.4 R23 -.0604 R13 -.9200          LSA 1763.7 MSA  179.9 SSA   15.5
   BOE  .7875 BRA 1.0783 BC3  .6679 FSP   -782    SG1 1988.0 SG2  354.6 THA   4.01         EL1 1192.2 EL2  126.1 ALF 173.46

LAUNCH DATE  MAY 21 1967                          FLIGHT TIME 120.00                          ARRIVAL DATE  SEP 18 1967

  HELIOCENTRIC CONIC                              DISTANCE 303.516
   RL  151.40 LAL   -.00 LOL 239.28 VL  26.241 GAL   3.67 AZL  93.99 HCA 126.85 SMA 124.66 ECC .22341 INC 3.9924 VI  29.428
   RP  108.63 LAP  -3.19 LOP   6.19 VP  37.134 GAP -10.61 AZP  87.60 TAL 167.01 TAP 293.85 RCA  96.81 APO 152.52 V2  34.886
   RC  49.776 GL  -27.09 GP    6.63 ZAL  70.43 ZAP  15.08 ETS 334.06 ZAE 149.95 ETE  33.47 ZAC  91.08 ETC  14.08 CLP -13.57
  PLANETOCENTRIC CONIC
   C3  16.033 VHL  4.004 DLA -21.39 RAL 160.97 RAD 6567.6 VEL 11.722 PTH   2.07 VHP  6.882 DPA  12.10 RAP 177.27 ECC 1.2639
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     9 19 10   1424.94       4.18     355.71      19.79      118.03    9 42 55     824.9       7.90      349.00
      90.00    15  5 17   5544.89      28.30     258.15      26.21       90.88   16 37 42    4944.9      28.13      249.49
     100.00    10 25 51   1209.75       2.80     339.13      19.03      119.77   10 46  1     609.8       6.74      332.56
     100.00    16 41 18   5235.31      29.88     235.38      26.21       89.10   18  8 33    4635.3      29.43      226.60
     110.00    11  3 16   1092.48       -.52     328.16      16.95      124.18   11 21 28     492.5       3.96      321.96
     110.00    18 20 22   4925.35      33.79     211.58      25.96       84.51   19 42 28    4325.4      32.66      202.52
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
   TOE  .7953 TRA-1.0323 TC3  .6578 BAU  .1602    SGT 2022.2 SGR  378.6 SG3  304.4          ST  1233.7 SR   152.4 SS  1397.6
   ROE -.0970 RRA -.1356 RC3  .3546 FAU .04444    RRT  .4210 RRF -.4646 RTF -.9239          CRT -.6808 CRS -.7841 CST  .9880
   FOE-1.5945 FRA 1.2197 FC3-2.3994 BSP   6552    SGB 2057.4 R23 -.0708 R13 -.9250          LSA 1862.2 MSA  175.2 SSA   15.0
   BOE  .8012 BRA 1.0412 BC3  .7473 FSP   -872    SG1 2028.7 SG2  342.3 THA   4.64         EL1 1238.1 EL2  111.3 ALF 175.15

LAUNCH DATE  MAY 21 1967                          FLIGHT TIME 122.00                          ARRIVAL DATE  SEP 20 1967

  HELIOCENTRIC CONIC                              DISTANCE 310.201
   RL  151.40 LAL   -.00 LOL 239.28 VL  26.340 GAL   3.46 AZL  94.08 HCA 130.03 SMA 125.28 ECC .21674 INC 4.0827 VI  29.428
   RP  108.59 LAP  -3.13 LOP   9.37 VP  37.214 GAP  -9.94 AZP  87.37 TAL 167.28 TAP 297.31 RCA  98.12 APO 152.43 V2  34.897
   RC  51.201 GL  -28.57 GP    7.36 ZAL  71.36 ZAP  17.31 ETS 335.09 ZAE 148.79 ETE  32.66 ZAC  89.90 ETC  13.90 CLP -15.72
  PLANETOCENTRIC CONIC
   C3  15.318 VHL  3.914 DLA -22.45 RAL 159.64 RAD 6567.6 VEL 11.692 PTH   2.06 VHP  6.514 DPA  12.34 RAP 178.53 ECC 1.2521
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     9 27 36   1365.14       6.08     352.34      18.29      117.71    9 50 21     765.1       9.75      345.58
      90.00    14 46 14   5584.07      28.23     261.02      24.46       92.32   16 19 18    4984.1      28.25      252.35
     100.00    10 32 32   1155.59       4.63     336.15      17.49      119.57   10 51 47     555.6       8.53      329.53
     100.00    16 23 59   5268.85      29.89     237.87      24.51       90.41   17 51 48    4668.9      29.63      229.08
     110.00    11  6 57   1047.69       1.19     325.83      15.35      124.16   11 24 24     447.7       5.66      319.60
     110.00    18  6  3   4949.51      33.93     213.45      24.34       85.61   19 28 33    4349.5      32.95      204.35
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
   TOE  .8144 TRA -.9937 TC3  .7305 BAU  .1692    SGT 2055.6 SGR  382.4 SG3  337.5          ST  1282.4 SR   117.5 SS  1497.0
   ROE -.0670 RRA -.1344 RC3  .3859 FAU .04821    RRT  .4972 RRF -.5461 RTF -.9285          CRT -.5756 CRS -.6894 CST  .9888
   FOE-1.7695 FRA 1.2624 FC3-2.7248 BSP   6677    SGB 2090.9 R23 -.0833 R13 -.9298          LSA 1967.3 MSA  170.7 SSA   14.4
   BOE  .8171 BRA 1.0027 BC3  .8262 FSP   -975    SG1 2064.6 SG2  330.3 THA   5.42         EL1 1284.2 EL2   95.9 ALF 176.97

LAUNCH DATE  MAY 21 1967                          FLIGHT TIME 124.00                          ARRIVAL DATE  SEP 22 1967

  HELIOCENTRIC CONIC                              DISTANCE 316.875
   RL  151.40 LAL   -.00 LOL 239.28 VL  26.430 GAL   3.27 AZL  94.18 HCA 133.21 SMA 125.84 ECC .21064 INC 4.1820 VI  29.428
   RP  108.56 LAP  -3.05 LOP  12.56 VP  37.289 GAP  -9.28 AZP  87.13 TAL 167.57 TAP 300.77 RCA  99.33 APO 152.35 V2  34.908
   RC  52.722 GL  -30.09 GP    8.21 ZAL  72.31 ZAP  19.70 ETS 335.76 ZAE 147.79 ETE  32.31 ZAC  88.80 ETC  13.71 CLP -17.97
  PLANETOCENTRIC CONIC
   C3  14.733 VHL  3.838 DLA -23.53 RAL 158.26 RAD 6567.6 VEL 11.667 PTH   2.05 VHP  6.164 DPA  12.73 RAP 179.75 ECC 1.2425
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     9 37 27   1302.14       8.06     348.77      16.92      117.24    9 59  9     702.1      11.65      341.93
      90.00    14 25 26   5629.64      28.06     264.34      22.76       93.97   15 59 16    5029.6      28.32      255.68
     100.00    10 40 10   1099.69       6.50     333.05      16.07      119.24   10 58 30     499.7      10.34      326.37
     100.00    16  5 24   5307.33      29.84     240.73      22.87       91.91   17 33 51    4707.3      29.78      231.92
     110.00    11 11  3   1002.82       2.90     323.49      13.85      124.07   11 27 46     402.8       7.36      317.23
     110.00    17 51  0   4976.96      34.06     215.59      22.81       86.87   19 13 57    4377.0      33.25      206.44
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
   TOE  .8350 TRA -.9521 TC3  .8020 BAU  .1784    SGT 2082.1 SGR  394.1 SG3  374.6          ST  1330.5 SR    83.6 SS  1605.4
   ROE -.0339 RRA -.1349 RC3  .4212 FAU .05250    RRT  .5805 RRF -.6340 RTF -.9330          CRT -.2899 CRS -.4218 CST  .9896
   FOE-1.9731 FRA 1.3054 FC3-3.0852 BSP   6832    SGB 2119.1 R23 -.0975 R13 -.9348          LSA 2080.1 MSA  166.2 SSA   13.7
   BOE  .8357 BRA  .9616 BC3  .9059 FSP  -1094    SG1 2094.9 SG2  318.9 THA   6.42         EL1 1330.7 EL2   80.0 ALF 178.95
```

LAUNCH DATE MAY 21 1967 FLIGHT TIME 126.00 ARRIVAL DATE SEP 24 1967

HELIOCENTRIC CONIC DISTANCE 323.536

RL 151.40 LAL -.00 LOL 239.28 VL 26.512 GAL 3.09 AZL 94.29 HCA 136.39 SMA 126.36 ECC .20507 INC 4.2923 VI 29.428
RP 108.52 LAP -2.96 LOP 15.75 VP 37.358 GAP -8.64 AZP 86.89 TAL 167.86 TAP 304.25 RCA 100.45 APO 152.27 V2 34.920
RC 54.330 GL -31.63 GP 9.21 ZAL 73.27 ZAP 22.26 ETS 336.13 ZAE 146.95 ETE 32.42 ZAC 87.79 ETC 13.51 CLP -20.35

PLANETOCENTRIC CONIC

C3 14.273 VHL 3.778 DLA -24.63 RAL 156.86 RAD 6567.6 VEL 11.647 PTH 2.04 VHP 5.832 DPA 13.31 RAP 180.92 ECC 1.2349

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 49 25	1233.86	10.17	344.86	15.73	116.57	10 9 59	633.9	13.66	337.92
90.00	14 2 17	5683.84	27.74	268.27	21.12	95.92	15 37 0	5083.8	28.27	259.65
100.00	10 49 11	1040.92	8.44	329.76	14.81	118.78	11 6 32	440.9	12.21	323.01
100.00	15 45 12	5352.01	29.69	244.04	21.30	93.65	17 14 24	4752.0	29.88	235.24
110.00	11 15 47	957.48	4.63	321.11	12.47	123.91	11 31 45	357.5	9.05	314.81
110.00	17 35 5	5008.21	34.15	218.02	21.39	88.31	18 58 33	4408.2	33.54	208.83

DIFFERENTIAL CORRECTIONS
TDE .8539 TRA -.9117 TC3 .8563 BAU .1856
ROE .0037 RRA -.1373 RC3 .4611 FAU .05713
FDE-2.2072 FRA 1.3521 FC3-3.4650 BSP 6909
BDE .8539 BRA .9220 BC3 .9725 FSP -1223

MID-COURSE EXECUTION ACCURACY
SGT 2099.8 SGR 417.0 SG3 415.7
RRT .6637 RRF -.7216 RTF -.9364
SGB 2140.8 R23 -.1154 R13 -.9388
SG1 2118.4 SG2 309.2 THA 7.67

ORBIT DETERMINATION ACCURACY
ST 1373.1 SR 69.8 SS 1721.4
CRT .4059 CRS .2779 CST .9903
LSA 2197.0 MSA 163.0 SSA 12.9
EL1 1373.4 EL2 63.7 ALF 1.18

LAUNCH DATE MAY 21 1967 FLIGHT TIME 128.00 ARRIVAL DATE SEP 26 1967

HELIOCENTRIC CONIC DISTANCE 330.182

RL 151.40 LAL -.00 LOL 239.28 VL 26.586 GAL 2.92 AZL 94.42 HCA 139.58 SMA 126.84 ECC .20001 INC 4.4164 VI 29.428
RP 108.48 LAP -2.86 LOP 18.94 VP 37.422 GAP -8.02 AZP 86.63 TAL 168.16 TAP 307.74 RCA 101.47 APO 152.21 V2 34.932
RC 56.016 GL -33.21 GP 10.39 ZAL 74.22 ZAP 25.01 ETS 336.27 ZAE 146.25 ETE 33.03 ZAC 86.87 ETC 13.31 CLP -22.88

PLANETOCENTRIC CONIC

C3 13.934 VHL 3.733 DLA -25.76 RAL 155.44 RAD 6567.5 VEL 11.633 PTH 2.04 VHP 5.520 DPA 14.12 RAP 182.04 ECC 1.2293

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 4 52	1156.22	12.49	340.34	14.76	115.62	10 24 8	556.2	15.84	333.27
90.00	13 35 27	5750.89	27.18	273.10	19.50	98.28	15 11 18	5150.9	28.04	264.54
100.00	11 0 16	977.35	10.50	326.17	13.73	118.15	11 16 33	377.4	14.18	319.32
100.00	15 22 45	5404.99	29.40	247.95	19.81	95.69	16 52 50	4805.0	29.87	239.18
110.00	11 21 23	911.06	6.39	318.67	11.24	123.65	11 36 34	311.1	10.77	312.31
110.00	17 18 7	5044.05	34.18	220.82	20.09	89.96	18 42 11	4444.0	33.80	211.60

DIFFERENTIAL CORRECTIONS
TDE .8717 TRA -.8701 TC3 .8985 BAU .1922
ROE .0476 RRA -.1420 RC3 .5074 FAU .06225
FDE-2.4775 FRA 1.3992 FC3-3.8674 BSP 6975
BDE .8730 BRA .8816 BC3 1.0319 FSP -1369

MID-COURSE EXECUTION ACCURACY
SGT 2106.9 SGR 455.4 SG3 461.1
RRT .7407 RRF -.8017 RTF -.9392
SGB 2155.6 R23 -.1361 R13 -.9426
SG1 2134.3 SG2 302.0 THA 9.28

ORBIT DETERMINATION ACCURACY
ST 1410.2 SR 103.6 SS 1845.8
CRT .8915 CRS .8246 CST .9909
LSA 2319.6 MSA 160.4 SSA 12.1
EL1 1413.2 EL2 46.8 ALF 3.75

LAUNCH DATE MAY 21 1967 FLIGHT TIME 130.00 ARRIVAL DATE SEP 28 1967

HELIOCENTRIC CONIC DISTANCE 336.814

RL 151.40 LAL -.00 LOL 239.28 VL 26.653 GAL 2.77 AZL 94.56 HCA 142.77 SMA 127.27 ECC .19544 INC 4.5579 VI 29.428
RP 108.45 LAP -2.76 LOP 22.13 VP 37.481 GAP -7.42 AZP 86.37 TAL 168.45 TAP 311.22 RCA 102.40 APO 152.15 V2 34.945
RC 57.772 GL -34.83 GP 11.81 ZAL 75.17 ZAP 27.99 ETS 336.21 ZAE 145.65 ETE 34.20 ZAC 86.05 ETC 13.10 CLP -25.56

PLANETOCENTRIC CONIC

C3 13.718 VHL 3.704 DLA -26.94 RAL 153.99 RAD 6567.5 VEL 11.623 PTH 2.04 VHP 5.228 DPA 15.20 RAP 183.12 ECC 1.2258

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 27 0	1059.13	15.28	334.57	14.13	114.13	10 44 40	459.1	18.41	327.30
90.00	13 1 47	5841.13	26.13	279.49	17.83	101.32	14 39 9	5241.1	27.43	271.07
100.00	11 14 37	905.34	12.78	322.04	12.89	117.25	11 29 42	305.3	16.33	315.05
100.00	14 56 52	5470.15	28.86	252.72	18.36	98.14	16 28 2	4870.2	29.69	244.02
110.00	11 28 13	862.63	8.21	316.10	10.18	123.30	11 42 36	262.6	12.53	309.67
110.00	16 59 45	5085.63	34.14	224.07	18.90	91.89	18 24 31	4485.6	34.02	214.82

DIFFERENTIAL CORRECTIONS
TDE .8881 TRA -.8279 TC3 .9240 BAU .1983
ROE .1001 RRA -.1493 RC3 .5613 FAU .06780
FDE-2.7888 FRA 1.4467 FC3-4.2787 BSP 7005
BDE .8937 BRA .8412 BC3 1.0812 FSP -1528

MID-COURSE EXECUTION ACCURACY
SGT 2102.3 SGR 513.8 SG3 510.9
RRT .8050 RRF -.8678 RTF -.9415
SGB 2164.2 R23 -.1589 R13 -.9463
SG1 2143.4 SG2 299.0 THA 11.35

ORBIT DETERMINATION ACCURACY
ST 1440.0 SR 173.7 SS 1978.5
CRT .9854 CRS .9564 CST .9914
LSA 2448.0 MSA 158.4 SSA 11.2
EL1 1450.1 EL2 29.3 ALF 6.78

LAUNCH DATE MAY 21 1967 FLIGHT TIME 132.00 ARRIVAL DATE SEP 30 1967

HELIOCENTRIC CONIC DISTANCE 343.429

RL 151.40 LAL -.00 LOL 239.28 VL 26.714 GAL 2.63 AZL 94.72 HCA 145.96 SMA 127.67 ECC .19132 INC 4.7219 VI 29.428
RP 108.41 LAP -2.64 LOP 25.32 VP 37.536 GAP -6.84 AZP 86.08 TAL 168.73 TAP 314.69 RCA 103.24 APO 152.09 V2 34.957
RC 59.590 GL -36.51 GP 13.53 ZAL 76.09 ZAP 31.23 ETS 335.98 ZAE 145.11 ETE 36.00 ZAC 85.33 ETC 12.89 CLP -28.42

PLANETOCENTRIC CONIC

C3 13.631 VHL 3.692 DLA -28.18 RAL 152.53 RAD 6567.5 VEL 11.620 PTH 2.04 VHP 4.958 DPA 16.62 RAP 184.18 ECC 1.2243

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 13 48	885.06	19.81	323.81	14.37	110.66	11 28 33	285.1	22.44	316.13
90.00	12 3 19	724.39	23.31	313.34	15.64	106.55	12 15 24	124.4	25.36	305.26
100.00	11 35 2	816.37	15.49	316.83	12.43	115.89	11 48 38	216.4	18.85	309.64
100.00	14 24 47	5556.36	27.87	258.94	16.89	101.27	15 57 23	4956.4	29.14	250.37
110.00	11 36 49	810.73	10.13	313.31	9.34	122.82	11 50 20	210.7	14.39	306.80
110.00	16 39 28	5134.76	33.96	227.89	17.85	94.14	18 5 3	4534.8	34.16	218.65

DIFFERENTIAL CORRECTIONS
TDE .9043 TRA -.7831 TC3 .9322 BAU .2045
ROE .1649 RRA -.1593 RC3 .6249 FAU .07377
FDE-3.1494 FRA 1.4881 FC3-4.6854 BSP 7055
BDE .9192 BRA .7991 BC3 1.1222 FSP -1706

MID-COURSE EXECUTION ACCURACY
SGT 2084.1 SGR 597.5 SG3 564.7
RRT .8538 RRF -.9171 RTF -.9435
SGB 2168.1 R23 -.1810 R13 -.9504
SG1 2147.0 SG2 301.9 THA 14.04

ORBIT DETERMINATION ACCURACY
ST 1463.1 SR 269.7 SS 2120.9
CRT .9988 CRS .9871 CST .9919
LSA 2586.0 MSA 156.3 SSA 10.2
EL1 1487.7 EL2 12.9 ALF 10.43

LAUNCH DATE MAY 21 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 2 1967

HELIOCENTRIC CONIC DISTANCE 350.027

RL 151.40 LAL -.00 LOL 239.28 VL 26.768 GAL 2.51 AZL 94.92 HCA 149.15 SMA 128.02 ECC .18764 INC 4.9156 V1 29.428
RP 108.37 LAP -2.52 LOP 28.52 VP 37.586 GAP -6.27 AZP 85.78 TAL 169.00 TAP 318.15 RCA 104.00 APO 152.04 V2 34.970
RC 61.464 GL -38.27 GP 15.62 ZAL 76.99 ZAP 34.78 ETS 335.60 ZAE 144.52 ETE 38.54 ZAC 84.71 ETC 12.66 CLP -31.48

PLANETOCENTRIC CONIC

C3 13.689 VHL 3.700 DLA -29.49 RAL 151.04 RAO 6567.5 VEL 11.622 PTH 2.04 VHP 4.714 DPA 18.45 RAP 185.24 ECC 1.2253

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.39	10 21 57	1033.94	22.49	335.79	13.97	109.60	10 39 11	433.9	24.96	327.89
98.61	12 43 19	5865.41	22.50	280.17	13.98	109.59	14 21 4	5265.4	24.97	272.27
100.00	12 12 55	674.69	19.50	308.22	12.72	113.11	12 24 10	74.7	22.46	300.68
100.00	13 35 2	5699.89	25.55	268.97	15.05	106.06	15 10 2	5099.9	27.51	260.71
110.00	11 48 8	752.80	12.25	310.17	8.78	122.16	12 0 41	152.8	16.41	303.53
110.00	16 16 19	5194.54	33.57	232.52	16.92	96.85	17 42 53	4594.5	34.15	223.32

DIFFERENTIAL CORRECTIONS
TOE .9159 TRA -.7396 TC3 .9122 BAU .2103
ROE .2465 RRA -.1729 RC3 .6990 FAU .07986
FOE-3.5580 FRA 1.5255 FC3-5.0502 BSP 7038
BOE .9485 BRA .7596 BC3 1.1492 FSP -1888

MID-COURSE EXECUTION ACCURACY
SGT 2049.1 SGR 712.7 SG3 621.2
RRT .8870 RRF -.9507 RTF -.9441
SGB 2169.5 R23 -.2014 R13 -.9544
SG1 2146.7 SG2 314.1 THA 17.53

ORBIT DETERMINATION ACCURACY
ST 1472.5 SR 393.1 SS 2268.8
CRT .9991 CRS .9957 CST .9922
LSA 2728.7 MSA 155.4 SSA 9.2
EL1 1523.9 EL2 16.3 ALF 14.93

LAUNCH DATE MAY 21 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 4 1967

HELIOCENTRIC CONIC DISTANCE 356.608

RL 151.40 LAL -.00 LOL 239.28 VL 26.816 GAL 2.40 AZL 95.15 HCA 152.34 SMA 128.34 ECC .18436 INC 5.1494 V1 29.428
RP 108.33 LAP -2.39 LOP 31.71 VP 37.632 GAP -5.71 AZP 85.44 TAL 169.25 TAP 321.60 RCA 104.68 APO 152.00 V2 34.983
RC 63.388 GL -40.13 GP 18.20 ZAL 77.86 ZAP 38.69 ETS 335.09 ZAE 143.75 ETE 41.89 ZAC 84.19 ETC 12.43 CLP -34.75

PLANETOCENTRIC CONIC

C3 13.920 VHL 3.731 DLA -30.92 RAL 149.52 RAO 6567.5 VEL 11.632 PTH 2.04 VHP 4.500 DPA 20.81 RAP 186.36 ECC 1.2291

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.04	9 43 13	1141.57	23.44	344.19	13.12	110.76	10 2 15	541.6	26.05	336.28
102.96	13 9 54	5765.09	23.45	273.07	13.12	110.75	14 45 59	5165.1	26.06	265.16
77.04	9 43 13	1141.57	23.44	344.19	13.12	110.76	10 2 15	541.6	26.05	336.28
102.96	13 9 54	5765.09	23.45	273.07	13.12	110.75	14 45 59	5165.1	26.06	265.16
110.00	12 3 55	683.82	14.72	306.34	8.63	121.21	12 15 19	83.8	18.75	299.54
110.00	15 48 23	5270.84	32.80	238.34	16.06	100.22	17 16 14	4670.8	33.86	229.26

DIFFERENTIAL CORRECTIONS
TOE .9264 TRA -.6928 TC3 .8702 BAU .2182
ROE .3526 RRA -.1897 RC3 .7855 FAU .08591
FOE-4.0214 FRA 1.5425 FC3-5.3434 BSP 7087
BOE .9913 BRA .7183 BC3 1.1723 FSP -2085

MID-COURSE EXECUTION ACCURACY
SGT 1995.9 SGR 867.3 SG3 678.5
RRT .9083 RRF -.9719 RTF -.9443
SGB 2176.2 R23 -.2126 R13 -.9597
SG1 2149.9 SG2 336.8 THA 22.11

ORBIT DETERMINATION ACCURACY
ST 1470.7 SR 551.3 SS 2423.2
CRT .9974 CRS .9985 CST .9925
LSA 2883.5 MSA 154.3 SSA 8.2
EL1 1570.2 EL2 37.3 ALF 20.51

LAUNCH DATE MAY 21 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 6 1967

HELIOCENTRIC CONIC DISTANCE 363.171

RL 151.40 LAL -.00 LOL 239.28 VL 26.858 GAL 2.31 AZL 95.44 HCA 155.54 SMA 128.62 ECC .18148 INC 5.4391 V1 29.428
RP 108.29 LAP -2.25 LOP 34.91 VP 37.675 GAP -5.18 AZP 85.05 TAL 169.48 TAP 325.02 RCA 105.28 APO 151.96 V2 34.996
RC 65.357 GL -42.14 GP 21.41 ZAL 78.71 ZAP 43.01 ETS 334.49 ZAE 142.60 ETE 46.12 ZAC 83.75 ETC 12.20 CLP -38.24

PLANETOCENTRIC CONIC

C3 14.372 VHL 3.791 DLA -32.49 RAL 147.94 RAO 6567.6 VEL 11.651 PTH 2.05 VHP 4.325 DPA 23.81 RAP 187.61 ECC 1.2365

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.35	9 11 38	1227.82	24.40	351.14	12.51	112.16	9 32 6	627.8	27.18	343.23
106.65	13 28 52	5692.92	24.41	268.01	12.52	112.14	15 3 45	5092.9	27.19	260.09
73.35	9 11 38	1227.82	24.40	351.14	12.51	112.16	9 32 6	627.8	27.18	343.23
106.65	13 28 52	5692.92	24.41	268.01	12.52	112.14	15 3 45	5092.9	27.19	260.09
110.00	12 28 48	5878.49	17.94	278.93	9.15	119.60	14 6 47	5278.5	21.74	271.86
110.00	15 10 52	5378.29	31.22	246.31	15.08	104.69	16 40 30	4778.3	32.92	237.50

DIFFERENTIAL CORRECTIONS
TOE .9304 TRA -.6491 TC3 .7919 BAU .2275
ROE .4931 RRA -.2114 RC3 .8806 FAU .09093
FOE-4.5238 FRA 1.5433 FC3-5.4776 BSP 7103
BOE 1.0530 BRA .6826 BC3 1.1843 FSP -2259

MID-COURSE EXECUTION ACCURACY
SGT 1921.1 SGR 1069.8 SG3 731.3
RRT .9192 RRF -.9845 RTF -.9424
SGB 2198.9 R23 -.2130 R13 -.9659
SG1 2167.0 SG2 373.4 THA 28.01

ORBIT DETERMINATION ACCURACY
ST 1449.0 SR 754.1 SS 2574.1
CRT .9957 CRS .9995 CST .9925
LSA 3044.7 MSA 154.6 SSA 7.2
EL1 1632.3 EL2 62.1 ALF 27.43

LAUNCH DATE MAY 21 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 8 1967

HELIOCENTRIC CONIC DISTANCE 369.715

RL 151.40 LAL -.00 LOL 239.28 VL 26.895 GAL 2.23 AZL 95.81 HCA 158.74 SMA 128.87 ECC .17896 INC 5.8101 V1 29.428
RP 108.25 LAP -2.10 LOP 38.11 VP 37.713 GAP -4.65 AZP 84.58 TAL 169.67 TAP 328.41 RCA 105.81 APO 151.94 V2 35.009
RC 67.365 GL -44.37 GP 25.45 ZAL 79.54 ZAP 47.83 ETS 333.81 ZAE 140.76 ETE 51.21 ZAC 83.33 ETC 11.96 CLP -41.97

PLANETOCENTRIC CONIC

C3 15.135 VHL 3.890 DLA -34.27 RAL 146.25 RAO 6567.6 VEL 11.684 PTH 2.05 VHP 4.202 DPA 27.64 RAP 189.16 ECC 1.2491

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.83	8 42 49	1307.25	25.34	357.73	12.20	113.89	9 4 36	707.2	28.35	349.83
110.17	13 44 12	5636.55	25.36	264.09	12.21	113.87	15 18 9	5036.6	28.36	256.20
69.83	8 42 49	1307.25	25.34	357.73	12.20	113.89	9 4 36	707.2	28.35	349.83
110.17	13 44 12	5636.55	25.36	264.09	12.21	113.87	15 18 9	5036.6	28.36	256.20
69.83	8 42 49	1307.25	25.34	357.73	12.20	113.89	9 4 36	707.2	28.35	349.83
110.17	13 44 12	5636.55	25.36	264.09	12.21	113.87	15 18 9	5036.6	28.36	256.20

DIFFERENTIAL CORRECTIONS
TOE .9337 TRA -.6025 TC3 .6918 BAU .2431
ROE .6856 RRA -.2358 RC3 .9825 FAU .09441
FOE-5.0554 FRA 1.4958 FC3-5.4001 BSP 7283
BOE 1.1584 BRA .6470 BC3 1.2016 FSP -2409

MID-COURSE EXECUTION ACCURACY
SGT 1825.9 SGR 1334.4 SG3 773.7
RRT .9240 RRF -.9917 RTF -.9396
SGB 2261.5 R23 -.1950 R13 -.9742
SG1 2222.3 SG2 419.2 THA 35.48

ORBIT DETERMINATION ACCURACY
ST 1412.5 SR 1017.9 SS 2718.8
CRT .9943 CRS .9998 CST .9924
LSA 3224.8 MSA 154.5 SSA 6.2
EL1 1738.8 EL2 87.9 ALF 35.73

LAUNCH DATE MAY 21 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 10 1967

HELIOCENTRIC CONIC DISTANCE 376.239

RL	151.40	LAL	-.00	LOL	239.28	VL	26.928	GAL	2.16	AZL	96.31	HCA	161.94	SMA	129.09	ECC	.17678	INC	6.3061	V1	29.428
RP	108.20	LAP	-1.95	LOP	41.31	VP	37.749	GAP	-4.14	AZP	84.00	TAL	169.83	TAP	331.76	RCA	106.27	APO	151.91	V2	35.023
RC	69.409	GL	-46.91	GP	30.61	ZAL	80.38	ZAP	53.23	ETS	333.13	ZAE	137.81	ETE	56.96	ZAC	82.87	ETC	11.70	CLP	-45.93

PLANETOCENTRIC CONIC

C3	16.381	VHL	4.047	DLA	-36.34	RAL	144.38	RAD	6567.7	VEL	11.737	PTH	2.07	VHP	4.154	DPA	32.50	RAP	191.27	ECC	1.2696

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.21	8 14 51	1386.79	26.24	4.49	12.29	116.09	8 37 58	786.8	29.52	356.65
113.79	13 57 15	5592.82	26.25	261.09	12.30	116.08	15 30 28	4992.8	29.53	253.25
66.21	8 14 51	1386.79	26.24	4.49	12.29	116.09	8 37 58	786.8	29.52	356.65
113.79	13 57 15	5592.82	26.25	261.09	12.30	116.08	15 30 28	4992.8	29.53	253.25
66.21	8 14 51	1386.79	26.24	4.49	12.29	116.09	8 37 58	786.8	29.52	356.65
113.79	13 57 15	5592.82	26.25	261.09	12.30	116.08	15 30 28	4992.8	29.53	253.25

DIFFERENTIAL CORRECTIONS

TDE	.9326	TRA	-.5588	TC3	.5588	BAU	.2651
RDE	.9556	RRA	-.2622	RC3	1.0739	FAU	.09423
FDE	-5.5553	FRA	1.3872	FC3	-4.9799	BSP	7628
BDE	1.3353	BRA	.6172	BC3	1.2106	FSP	-2479

MID-COURSE EXECUTION ACCURACY

SGT	1706.5	SGR	1672.7	SG3	792.1		
RRT	.9220	RRF	-.9955	RTF	-.9333		
SGB	2389.5	R23	-.1617	R13	-.9831		
SG1	2342.5	SG2	471.9	THA	44.38		

ORBIT DETERMINATION ACCURACY

ST	1352.8	SR	1360.0	SS	2835.3		
CRT	.9930	CRS	1.0000	CST	.9920		
LSA	3419.7	MSA	155.8	SSA	5.3		
EL1	1914.9	EL2	113.2	ALF	45.15		

LAUNCH DATE MAY 21 1967 FLIGHT TIME 144.00 ARRIVAL DATE OCT 12 1967

HELIOCENTRIC CONIC DISTANCE 382.743

RL	151.40	LAL	-.00	LOL	239.28	VL	26.955	GAL	2.11	AZL	97.01	HCA	165.14	SMA	129.28	ECC	.17492	INC	7.0078	V1	29.428
RP	108.16	LAP	-1.79	LOP	44.52	VP	37.781	GAP	-3.64	AZP	83.22	TAL	169.95	TAP	335.08	RCA	106.66	APO	151.89	V2	35.036
RC	71.485	GL	-49.89	GP	37.25	ZAL	81.26	ZAP	59.28	ETS	332.52	ZAE	133.21	ETE	62.97	ZAC	82.23	ETC	11.37	CLP	-50.08

PLANETOCENTRIC CONIC

C3	18.467	VHL	4.297	DLA	-38.78	RAL	142.19	RAD	6567.7	VEL	11.826	PTH	2.09	VHP	4.230	DPA	38.65	RAP	194.50	ECC	1.3039

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.31	7 46 14	1472.61	26.96	11.92	12.90	119.01	8 10 47	872.6	30.60	4.21
117.69	14 8 24	5562.50	26.97	259.04	12.91	118.99	15 41 7	4962.5	30.61	251.32
62.31	7 46 14	1472.61	26.96	11.92	12.90	119.01	8 10 47	872.6	30.60	4.21
117.69	14 8 24	5562.50	26.97	259.04	12.91	118.99	15 41 7	4962.5	30.61	251.32
62.31	7 46 14	1472.61	26.96	11.92	12.90	119.01	8 10 47	872.6	30.60	4.21
117.69	14 8 24	5562.50	26.97	259.04	12.91	118.99	15 41 7	4962.5	30.61	251.32

DIFFERENTIAL CORRECTIONS

TDE	.9422	TRA	-.5133	TC3	.4194	BAU	.2988
RDE	1.3516	RRA	-.2808	RC3	1.1352	FAU	.08900
FDE	-5.9442	FRA	1.1714	FC3	-4.1722	BSP	8445
BDE	1.6475	BRA	.5851	BC3	1.2102	FSP	-2446

MID-COURSE EXECUTION ACCURACY

SGT	1574.3	SGR	2104.7	SG3	771.3		
RRT	.9165	RRF	-.9976	RTF	-.9255		
SGB	2628.4	R23	-.1158	R13	-.9912		
SG1	2577.6	SG2	514.2	THA	53.91		

ORBIT DETERMINATION ACCURACY

ST	1283.5	SR	1808.0	SS	2905.2		
CRT	.9919	CRS	1.0000	CST	.9914		
LSA	3651.3	MSA	156.0	SSA	4.3		
EL1	2213.3	EL2	132.9	ALF	54.70		

LAUNCH DATE MAY 21 1967 FLIGHT TIME 146.00 ARRIVAL DATE OCT 14 1967

HELIOCENTRIC CONIC DISTANCE 389.223

RL	151.40	LAL	-.00	LOL	239.28	VL	26.979	GAL	2.07	AZL	98.08	HCA	168.33	SMA	129.44	ECC	.17338	INC	8.0844	V1	29.428
RP	108.12	LAP	-1.63	LOP	47.72	VP	37.810	GAP	-3.15	AZP	82.08	TAL	170.03	TAP	338.36	RCA	107.00	APO	151.88	V2	35.049
RC	73.590	GL	-53.49	GP	45.85	ZAL	82.25	ZAP	66.01	ETS	332.09	ZAE	126.31	ETE	68.62	ZAC	81.22	ETC	10.78	CLP	-54.30

PLANETOCENTRIC CONIC

C3	22.252	VHL	4.717	DLA	-41.74	RAL	139.45	RAD	6567.9	VEL	11.985	PTH	2.14	VHP	4.533	DPA	46.26	RAP	200.05	ECC	1.3662

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.95	7 15 31	1572.75	27.19	20.59	14.29	122.98	7 41 43	972.7	31.32	13.15
122.05	14 17 17	5551.31	27.20	258.24	14.29	122.97	15 49 48	4951.3	31.33	250.80
57.95	7 15 31	1572.75	27.19	20.59	14.29	122.98	7 41 43	972.7	31.32	13.15
122.05	14 17 17	5551.31	27.20	258.24	14.29	122.97	15 49 48	4951.3	31.33	250.80
57.95	7 15 31	1572.75	27.19	20.59	14.29	122.98	7 41 43	972.7	31.32	13.15
122.05	14 17 17	5551.31	27.20	258.24	14.29	122.97	15 49 48	4951.3	31.33	250.80

DIFFERENTIAL CORRECTIONS

TDE	.9802	TRA	-.4729	TC3	.2791	BAU	.3405
RDE	1.9543	RRA	-.2755	RC3	1.1100	FAU	.07552
FDE	-6.0313	FRA	.8387	FC3	-2.9383	BSP	9800
BDE	2.1863	BRA	.5473	BC3	1.1446	FSP	-2215

MID-COURSE EXECUTION ACCURACY

SGT	1441.9	SGR	2632.9	SG3	686.9		
RRT	.9079	RRF	-.9986	RTF	-.9161		
SGB	3001.9	R23	-.0718	R13	-.9963		
SG1	2953.2	SG2	538.9	THA	62.57		

ORBIT DETERMINATION ACCURACY

ST	1212.7	SR	2377.7	SS	2873.7		
CRT	.9909	CRS	1.0000	CST	.9908		
LSA	3919.0	MSA	156.0	SSA	3.5		
EL1	2665.2	EL2	145.8	ALF	63.10		

LAUNCH DATE MAY 21 1967 FLIGHT TIME 148.00 ARRIVAL DATE OCT 16 1967

HELIOCENTRIC CONIC DISTANCE 395.682

RL	151.40	LAL	-.00	LOL	239.28	VL	26.998	GAL	2.05	AZL	99.96	HCA	171.53	SMA	129.57	ECC	.17213	INC	9.9612	V1	29.428
RP	108.08	LAP	-1.46	LOP	50.93	VP	37.836	GAP	-2.68	AZP	80.15	TAL	170.05	TAP	341.58	RCA	107.27	APO	151.87	V2	35.062
RC	75.721	GL	-57.97	GP	56.97	ZAL	83.47	ZAP	73.28	ETS	331.73	ZAE	116.46	ETE	72.94	ZAC	79.54	ETC	9.29	CLP	-58.15

PLANETOCENTRIC CONIC

C3	30.310	VHL	5.505	DLA	-45.34	RAL	135.75	RAD	6568.2	VEL	12.316	PTH	2.22	VHP	5.330	DPA	55.08	RAP	210.83	ECC	1.4988

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
52.98	6 40 52	1702.24	26.06	31.29	16.84	128.52	7 9 14	1102.2	30.86	24.42
127.02	14 22 24	5574.58	26.07	259.42	16.85	128.51	15 55 19	4974.6	30.87	252.55
52.98	6 40 52	1702.24	26.06	31.29	16.84	128.52	7 9 14	1102.2	30.86	24.42
127.02	14 22 24	5574.58	26.07	259.42	16.85	128.51	15 55 19	4974.6	30.87	252.55
52.98	6 40 52	1702.24	26.06	31.29	16.84	128.52	7 9 14	1102.2	30.86	24.42
127.02	14 22 24	5574.58	26.07	259.42	16.85	128.51	15 55 19	4974.6	30.87	252.55

DIFFERENTIAL CORRECTIONS

TDE	1.0895	TRA	-.4812	TC3	.1122	BAU	.3522
RDE	2.8957	RRA	-.2432	RC3	.8619	FAU	.04860
FDE	-5.4880	FRA	.4920	FC3	-1.3882	BSP	10569
BDE	3.0939	BRA	.5392	BC3	.8691	FSP	-1565

MID-COURSE EXECUTION ACCURACY

SGT	1344.9	SGR	3179.9	SG3	514.7		
RRT	.8864	RRF	-.9990	RTF	-.8967		
SGB	3452.6	R23	-.0421	R13	-.9984		
SG1	3403.3	SG2	581.7	THA	68.80		

ORBIT DETERMINATION ACCURACY

ST	1153.9	SR	3015.7	SS	2632.3		
CRT	.9887	CRS	1.0000	CST	.9890		
LSA	4162.6	MSA	165.4	SSA	2.7		
EL1	3224.8	EL2	161.9	ALF	69.22		

LAUNCH DATE MAY 21 1967 FLIGHT TIME 150.00 ARRIVAL DATE OCT 18 1967

HELIOCENTRIC CONIC DISTANCE 402.095

RL	151.40	LAL	-.00	LOL	239.28	VL	27.014	GAL	2.05	AZL	104.08	HCA	174.70	SMA	129.68	ECC	.17116	INC	14.0785	V1	29.428
RP	108.04	LAP	-1.29	LOP	54.14	VP	37.859	GAP	-2.22	AZP	75.98	TAL	170.01	TAP	344.71	RCA	107.48	APO	151.87	V2	35.075
RC	77.874	GL	-63.32	GP	71.31	ZAL	85.13	ZAP	80.58	ETS	328.75	ZAE	102.87	ETE	72.57	ZAC	76.72	ETC	3.31	CLP	-59.28

PLANETOCENTRIC CONIC

C3	54.018	VHL	7.350	DLA	-49.39	RAL	130.46	RAD	6569.0	VEL	13.243	PTH	2.42	VHP	7.538	DPA	63.00	RAP	234.44	ECC	1.8890

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
47.68	6 1 13	1893.76	21.06	44.75	21.17	135.77	6 32 47	1293.8	26.68	38.93
132.32	14 19 51	5673.53	21.08	263.97	21.18	135.77	15 54 25	5073.5	26.69	258.15
47.68	6 1 13	1893.76	21.06	44.75	21.17	135.77	6 32 47	1293.8	26.68	38.93
132.32	14 19 51	5673.53	21.08	263.97	21.18	135.77	15 54 25	5073.5	26.69	258.15
47.68	6 1 13	1893.76	21.06	44.75	21.17	135.77	6 32 47	1293.8	26.68	38.93
132.32	14 19 51	5673.53	21.08	263.97	21.18	135.77	15 54 25	5073.5	26.69	258.15

DIFFERENTIAL CORRECTIONS

TDE	1.8775	TRA	-.5156	TC3	.0457	BAU	.2969
RDE	4.6020	RRA	-.0028	RC3	.4086	FAU	.01860
FDE	-4.3116	FRA	.0928	FC3	-.2981	BSP	12098
BDE	4.9703	BRA	.5156	BC3	.4111	FSP	-874

MID-COURSE EXECUTION ACCURACY

SGT	1590.0	SGR	3637.5	SG3	293.0		
RRT	.9152	RRF	-.9988	RTF	-.9305		
SGB	3969.8	R23	-.0215	R13	-.9994		
SG1	3925.2	SG2	593.8	THA	67.66		

ORBIT DETERMINATION ACCURACY

ST	1475.3	SR	3587.7	SS	2189.2		
CRT	.9921	CRS	1.0000	CST	.9933		
LSA	4450.9	MSA	172.0	SSA	1.7		
EL1	3875.4	EL2	171.2	ALF	67.76		

LAUNCH DATE MAY 21 1967 FLIGHT TIME 152.00 ARRIVAL DATE OCT 20 1967

HELIOCENTRIC CONIC DISTANCE 408.368

RL	151.40	LAL	-.00	LOL	239.28	VL	27.026	GAL	2.07	AZL	119.93	HCA	177.78	SMA	129.76	ECC	.17052	INC	29.9249	V1	29.428
RP	108.00	LAP	-1.11	LOP	57.35	VP	37.880	GAP	-1.80	AZP	60.09	TAL	169.82	TAP	347.60	RCA	107.64	APO	151.89	V2	35.088
RC	80.046	GL	-65.81	GP	84.67	ZAL	87.52	ZAP	86.78	ETS	195.69	ZAE	81.80	ETE	300.12	ZAC	70.94	ETC	223.21	CLP	52.73

PLANETOCENTRIC CONIC

C3	218.181	VHL	14.771	DLA	-50.25	RAL	125.61	RAD	6571.2	VEL	18.425	PTH	3.04	VHP	17.085	DPA	60.33	RAP	280.36	ECC	4.5907

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
46.58	5 38 19	2186.91	6.81	58.00	29.90	139.91	6 14 46	1586.9	12.89	53.14
133.42	14 4 4	661.74	6.83	297.60	29.91	139.91	14 15 6	61.7	12.91	292.75
46.58	5 38 19	2186.91	6.81	58.00	29.90	139.91	6 14 46	1586.9	12.89	53.14
133.42	14 4 4	661.74	6.83	297.60	29.91	139.91	14 15 6	61.7	12.91	292.75
46.58	5 38 19	2186.91	6.81	58.00	29.90	139.91	6 14 46	1586.9	12.89	53.14
133.42	14 4 4	661.74	6.83	297.60	29.91	139.91	14 15 6	61.7	12.91	292.75

DIFFERENTIAL CORRECTIONS

TDE	8.0620	TRA	1.0488	TC3	-.0893	BAU	.4909
RDE	-7.3005	RRA	.2053	RC3	.1427	FAU	-.01270
FDE	-3.1730	FRA	-.0724	FC3	.0504	BSP	12542
BDE	10.8763	BRA	1.0687	BC3	.1683	FSP	-305

MID-COURSE EXECUTION ACCURACY

SGT	3202.1	SGR	2865.7	SG3	107.2		
RRT	-.9685	RRF	.9965	RTF	-.9858		
SGB	4297.2	R23	-.0567	R13	.9984		
SG1	4263.7	SG2	535.8	THA	138.28		

ORBIT DETERMINATION ACCURACY

ST	3133.0	SR	2832.1	SS	1816.9		
CRT	-.9973	CRS	-.9997	CST	.9987		
LSA	4594.9	MSA	158.3	SSA	.7		
EL1	4220.5	EL2	155.8	ALF	137.90		

LAUNCH DATE MAY 21 1967 FLIGHT TIME 154.00 ARRIVAL DATE OCT 22 1967

HELIOCENTRIC CONIC DISTANCE 415.459

RL	151.40	LAL	-.00	LOL	239.28	VL	27.035	GAL	1.96	AZL	54.25	HCA	181.59	SMA	129.82	ECC	.16960	INC	35.7499	V1	29.428
RP	107.96	LAP	-.93	LOP	60.56	VP	37.898	GAP	-1.17	AZP	125.74	TAL	170.30	TAP	351.89	RCA	107.81	APO	151.84	V2	35.101
RC	82.236	GL	64.53	GP	-76.60	ZAL	88.08	ZAP	88.71	ETS	167.64	ZAE	81.84	ETE	65.13	ZAC	97.19	ETC	140.46	CLP	84.43

PLANETOCENTRIC CONIC

C3	305.800	VHL	17.487	DLA	64.68	RAL	205.58	RAD	6571.8	VEL	20.667	PTH	3.17	VHP	24.517	DPA	-71.83	RAP	64.66	ECC	6.0327

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
29.06	22 8 9	4970.01	-5.28	241.42	113.08	25.43	23 30 59	4370.0	-12.49	238.32
150.94	8 12 12	3255.99	-5.27	98.12	113.06	25.43	9 6 28	2656.0	-12.49	95.03
29.06	22 8 9	4970.01	-5.28	241.42	113.08	25.43	23 30 59	4370.0	-12.49	238.32
150.94	8 12 12	3255.99	-5.27	98.12	113.06	25.43	9 6 28	2656.0	-12.49	95.03
29.06	22 8 9	4970.01	-5.28	241.42	113.08	25.43	23 30 59	4370.0	-12.49	238.32
150.94	8 12 12	3255.99	-5.27	98.12	113.06	25.43	9 6 28	2656.0	-12.49	95.03

DIFFERENTIAL CORRECTIONS

TDE	-2.2106	TRA	-2.3677	TC3	-.1201	BAU	.9783
RDE	-.2783	RRA	-5.1548	RC3	-.2069	FAU	-.01770
FDE	.1754	FRA	1.2323	FC3	.0501	BSP	10453
BDE	2.2280	BRA	5.6726	BC3	.2393	FSP	-202

MID-COURSE EXECUTION ACCURACY

SGT	1998.0	SGR	4016.3	SG3	83.1		
RRT	.9390	RRF	-.9993	RTF	-.9511		
SGB	4485.9	R23	-.0298	R13	-.9996		
SG1	4442.6	SG2	621.4	THA	64.43		

ORBIT DETERMINATION ACCURACY

ST	906.1	SR	1188.6	SS	612.3		
CRT	.6604	CRS	.9924	CST	.7478		
LSA	1501.6	MSA	594.8	SSA	.3		
EL1	1373.7	EL2	588.7	ALF	56.29		

LAUNCH DATE MAY 21 1967 FLIGHT TIME 156.00 ARRIVAL DATE OCT 24 1967

HELIOCENTRIC CONIC DISTANCE 421.579

RL	151.40	LAL	-.00	LOL	239.28	VL	27.041	GAL	2.04	AZL	80.63	HCA	184.56	SMA	129.87	ECC	.16951	INC	9.3648	V1	29.428
RP	107.92	LAP	-.74	LOP	63.78	VP	37.914	GAP	-.80	AZP	99.34	TAL	169.91	TAP	354.48	RCA	107.85	APO	151.88	V2	35.113
RC	84.440	GL	57.22	GP	-77.09	ZAL	83.16	ZAP	87.91	ETS	9.83	ZAE	107.25	ETE	269.33	ZAC	106.59	ETC	351.93	CLP	-80.63

PLANETOCENTRIC CONIC

C3	27.359	VHL	5.231	DLA	56.93	RAL	199.35	RAD	6568.1	VEL	12.196	PTH	2.19	VHP	8.517	DPA	-58.15	RAP	120.71	ECC	1.4503

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
38.30	22 6 20	4428.32	-32.52	215.89	84.84	40.32	23 20 8	3828.3	-38.45	209.71
141.70	7 24 20	2797.31	-32.51	83.80	84.82	40.32	8 10 57	2197.3	-38.44	77.61
38.30	22 6 20	4428.32	-32.52	215.89	84.84	40.32	23 20 8	3828.3	-38.45	209.71
141.70	7 24 20	2797.31	-32.51	83.80	84.82	40.32	8 10 57	2197.3	-38.44	77.61
38.30	22 6 20	4428.32	-32.52	215.89	84.84	40.32	23 20 8	3828.3	-38.45	209.71
141.70	7 24 20	2797.31	-32.51	83.80	84.82	40.32	8 10 57	2197.3	-38.44	77.61

DIFFERENTIAL CORRECTIONS

TDE	.5724	TRA	.2827	TC3	-.2645	BAU	.4574
RDE	.4677	RRA	2.0852	RC3	-1.2221	FAU	.02569
FDE	.2518	FRA	1.3149	FC3	-.8129	BSP	13604
BDE	.7392	BRA	2.1043	BC3	1.2504	FSP	-754

MID-COURSE EXECUTION ACCURACY

SGT	889.8	SGR	4406.9	SG3	240.8		
RRT	.7780	RRF	.9997	RTF	.7687		
SGB	4495.8	R23	.0342	R13	.9993		
SG1	4461.7	SG2	552.2	THA	80.93		

ORBIT DETERMINATION ACCURACY

ST	649.8	SR	1356.9	SS	617.3		
CRT	.6072	CRS	-.9986	CST	-.5649		
LSA	1546.8	MSA	501.6	SSA	1.1		
EL1	1421.4	EL2	492.8	ALF	71.48		

LAUNCH DATE MAY 21 1967 FLIGHT TIME 158.00 ARRIVAL DATE OCT 26 1967

HELIOCENTRIC CONIC DISTANCE 427.906

RL 151.40 LAL -.00 LOL 239.28 VL 27.044 GAL 2.09 AZL 85.88 HCA 187.74 SMA 129.89 ECC .16949 INC 4.1208 V1 29.428
RP 107.89 LAP -.55 LOP 66.99 VP 37.927 GAP -.38 AZP 94.08 TAL 169.67 TAP 357.41 RCA 107.87 APO 151.90 V2 35.125
RC 86.655 GL 37.26 GP -63.15 ZAL 78.39 ZAP 89.64 ETS 1.72 ZAE 120.61 ETE 261.30 ZAC 110.59 ETC 351.74 CLP -89.20

PLANETOCENTRIC CONIC

C3 10.290 VHL 3.208 DLA 40.03 RAL 182.89 RAD 6567.4 VEL 11.475 PTH 1.99 VHP 5.499 DPA -46.06 RAP 132.48 ECC 1.1693

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.43	22 17 56	4013.58	-31.84	175.13	45.25	64.33	23 24 50	3413.6	-35.00	166.74
119.57	5 1 26	2765.91	-31.82	80.17	45.25	64.31	5 47 32	2165.9	-34.99	71.78
60.43	22 17 56	4013.58	-31.84	175.13	45.25	64.33	23 24 50	3413.6	-35.00	166.74
119.57	5 1 26	2765.91	-31.82	80.17	45.25	64.31	5 47 32	2165.9	-34.99	71.78
60.43	22 17 56	4013.58	-31.84	175.13	45.25	64.33	23 24 50	3413.6	-35.00	166.74
119.57	5 1 26	2765.91	-31.82	80.17	45.25	64.31	5 47 32	2165.9	-34.99	71.78

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .3368 TRA .3208 TC3-1.3567 BAU .5206 SGT 1295.9 SGR 4023.2 SG3 494.5 ST 642.6 SR 1127.5 SS 732.6
RDE .3062 RRA 1.4055 RC3-3.5331 FAU .06149 RRT .9121 RRF .9997 RTF .9095 CRT .7613 CRS -.9984 CST -.7241
FDE .3761 FRA 1.9782 FC3-5.1735 BSP 13026 SGB 4226.7 R23 .0418 R13 .9988 LSA 1435.8 MSA 399.0 SSA 2.4
BDE .4552 BRA 1.4416 BC3 3.7846 FSP -1573 SG1 4195.9 SG2 509.5 THA 73.38 EL1 1241.3 EL2 378.4 ALF 63.94

LAUNCH DATE MAY 21 1967 FLIGHT TIME 160.00 ARRIVAL DATE OCT 28 1967

HELIOCENTRIC CONIC DISTANCE 434.243

RL 151.40 LAL -.00 LOL 239.28 VL 27.045 GAL 2.14 AZL 88.08 HCA 190.94 SMA 129.89 ECC .16967 INC 1.9247 V1 29.428
RP 107.85 LAP -.37 LOP 70.21 VP 37.938 GAP .05 AZP 91.89 TAL 169.40 TAP .35 RCA 107.85 APO 151.93 V2 35.137
RC 88.880 GL 19.90 GP -52.69 ZAL 75.41 ZAP 93.16 ETS 356.88 ZAE 129.99 ETE 254.11 ZAC 113.60 ETC 353.51 CLP -95.21

PLANETOCENTRIC CONIC

C3 7.112 VHL 2.667 DLA 24.22 RAL 174.30 RAD 6567.2 VEL 11.336 PTH 1.95 VHP 4.377 DPA -36.15 RAP 137.37 ECC 1.1170

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 20 35	2877.34	-28.32	87.48	27.73	89.98	4 8 32	2277.3	-28.02	78.82
90.00	22 50 15	3762.39	-13.60	147.07	24.24	64.92	23 52 57	3162.4	-16.87	139.91
100.00	5 2 18	2549.37	-29.79	63.31	27.70	92.54	5 44 48	1949.4	-29.12	54.57
100.00	23 51 13	3565.59	-12.27	131.93	23.57	62.53	24 50 38	2965.6	-15.86	124.98
110.00	6 50 30	2210.85	-33.20	37.21	27.31	98.64	7 27 21	1610.9	-31.65	28.33
110.00	0 23 26	3476.87	-9.31	123.46	21.81	56.96	1 21 23	2876.9	-13.60	116.98

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .1450 TRA .3617 TC3-2.6355 BAU .5092 SGT 1673.1 SGR 3571.5 SG3 746.9 ST 405.2 SR 772.8 SS 700.6
RDE .0011 RRA 1.0883 RC3-4.6617 FAU .09430 RRT .9507 RRF .9995 RTF .9495 CRT .6402 CRS -.9920 CST -.5386
FDE -.1061 FRA 2.5884 FC-11.4788 BSP 12176 SGB 3944.0 R23 .0570 R13 .9979 LSA 1071.4 MSA 322.9 SSA 5.1
BDE .1450 BRA 1.1468 BC3 5.3551 FSP -2388 SG1 3915.4 SG2 473.5 THA 65.62 EL1 822.1 EL2 292.6 ALF 68.60

LAUNCH DATE MAY 21 1967 FLIGHT TIME 162.00 ARRIVAL DATE OCT 30 1967

HELIOCENTRIC CONIC DISTANCE 440.572

RL 151.40 LAL -.00 LOL 239.28 VL 27.043 GAL 2.21 AZL 89.28 HCA 194.16 SMA 129.88 ECC .17005 INC .7143 V1 29.428
RP 107.82 LAP -.17 LOP 73.43 VP 37.948 GAP .47 AZP 90.69 TAL 169.09 TAP 3.25 RCA 107.79 APO 151.96 V2 35.149
RC 91.113 GL 7.66 GP -44.49 ZAL 73.86 ZAP 97.66 ETS 353.48 ZAE 136.43 ETE 245.93 ZAC 116.07 ETC 355.49 CLP-100.77

PLANETOCENTRIC CONIC

C3 6.397 VHL 2.529 DLA 12.75 RAL 169.75 RAD 6567.2 VEL 11.304 PTH 1.94 VHP 3.856 DPA -28.04 RAP 139.67 ECC 1.1053

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 9 14	2386.58	-23.34	52.68	18.12	106.51	5 49 0	1786.6	-20.85	44.89
90.00	20 25 18	4216.35	.57	172.89	15.62	61.69	21 35 34	3616.3	-3.22	166.26
100.00	6 37 9	2103.02	-24.15	31.55	17.85	108.17	7 12 12	1503.0	-21.44	23.80
100.00	21 40 3	3975.14	1.31	154.74	15.21	60.13	22 46 18	3375.1	-2.67	148.22
110.00	8 0 14	1843.08	-26.29	10.93	16.97	112.68	8 30 57	1243.1	-22.99	3.33
110.00	22 33 28	3807.85	3.25	140.84	14.00	55.95	23 36 56	3207.9	-1.24	134.64

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.0301 TRA .4208 TC3-3.6030 BAU .4964 SGT 2069.2 SGR 3116.0 SG3 945.7 ST 305.9 SR 750.7 SS 947.0
RDE -.1862 RRA .8858 RC3-4.5508 FAU .11917 RRT .9670 RRF .9992 RTF .9664 CRT .9294 CRS -.9919 CST -.8759
FDE -.8315 FRA 3.0353 FC-16.1267 BSP 11513 SGB 3740.5 R23 .0771 R13 .9962 LSA 1237.4 MSA 150.5 SSA 11.8
BDE .1886 BRA .9806 BC3 5.8044 FSP -3038 SG1 3714.2 SG2 442.2 THA 56.76 EL1 803.8 EL2 105.5 ALF 68.88

LAUNCH DATE MAY 21 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 1 1967

HELIOCENTRIC CONIC DISTANCE 446.886

RL 151.40 LAL -.00 LOL 239.28 VL 27.038 GAL 2.29 AZL 90.05 HCA 197.38 SMA 129.85 ECC .17062 INC .0357 V1 29.428
RP 107.78 LAP .02 LOP 76.66 VP 37.955 GAP .89 AZP 89.95 TAL 168.74 TAP 6.12 RCA 107.69 APO 152.00 V2 35.160
RC 93.352 GL -.58 GP -37.96 ZAL 72.92 ZAP 102.58 ETS 351.09 ZAE 140.46 ETE 237.03 ZAC 118.13 ETC 357.47 CLP-106.04

PLANETOCENTRIC CONIC

C3 6.356 VHL 2.521 DLA 4.85 RAL 167.22 RAD 6567.2 VEL 11.303 PTH 1.94 VHP 3.598 DPA -21.40 RAP 140.77 ECC 1.1046

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 2 0	2129.22	-17.41	36.15	13.74	112.69	6 37 29	1529.2	-14.19	28.96
90.00	19 12 21	4471.49	8.69	187.25	12.75	62.94	20 26 52	3871.5	4.99	180.52
100.00	7 25 37	1859.49	-18.12	15.99	13.42	114.19	7 56 37	1259.5	-14.70	8.87
100.00	20 31 24	4216.45	9.37	168.13	12.39	61.48	21 41 41	3616.5	5.49	161.49
110.00	8 39 6	1629.53	-20.00	357.55	12.44	118.32	9 6 15	1029.5	-16.06	350.64
110.00	21 34 25	4019.18	11.17	152.07	11.31	57.48	22 41 24	3419.2	6.81	145.70

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.1965 TRA .4907 TC3-4.2606 BAU .4938 SGT 2463.2 SGR 2690.0 SG3 1076.7 ST 562.5 SR 808.3 SS 1300.7
RDE -.2752 RRA .7434 RC3-3.9519 FAU .13452 RRT .9746 RRF .9986 RTF .9745 CRT .9984 CRS -.9945 CST -.9966
FDE-1.5390 FRA 3.3306 FC-18.3237 BSP 11138 SGB 3647.4 R23 .0971 R13 .9939 LSA 1629.5 MSA 75.8 SSA 21.9
BDE .3381 BRA .8907 BC3 5.8113 FSP -3459 SG1 3624.3 SG2 409.5 THA 47.59 EL1 984.4 EL2 25.7 ALF 55.18

LAUNCH DATE MAY 21 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 3 1967

HELIOCENTRIC CONIC DISTANCE 453.183
RL 151.40 LAL -.00 LOL 239.28 VL 27.032 GAL 2.38 AZL 90.59 HCA 200.61 SMA 129.80 ECC .17137 INC .5882 V1 29.428
RP 107.75 LAP .21 LOP 79.88 VP 37.960 GAP 1.31 AZP 89.45 TAL 168.34 TAP 8.95 RCA 107.56 APO 152.05 V2 35.170
RC 95.596 GL -6.23 GP -32.67 ZAL 72.16 ZAP 107.57 ETS 349.45 ZAE 142.54 ETE 228.09 ZAC 119.81 ETC 359.40 CLP-111.02
PLANETOCENTRIC CONIC
C3 6.544 VHL 2.558 DLA -.69 RAL 165.82 RAD 6567.2 VEL 11.311 PTH 1.94 VHP 3.479 DPA -15.95 RAP 141.29 ECC 1.1077

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 37 42	1961.92	-12.75	26.08	11.93	115.50	7 10 24	1361.9	-9.21	19.19
90.00	18 25 30	4648.77	13.99	197.57	12.07	65.13	19 42 58	4048.8	10.52	190.61
100.00	7 58 43	1700.57	-13.43	6.51	11.58	116.96	8 27 4	1100.6	-9.71	359.70
100.00	19 47 9	4385.36	14.68	177.85	11.73	63.67	21 0 15	3785.4	11.02	170.97
110.00	9 6 14	1489.26	-15.27	349.43	10.53	120.96	9 31 3	889.3	-11.05	342.86
110.00	20 56 8	4169.44	16.52	160.43	10.70	59.64	22 5 38	3569.4	12.37	153.79

DIFFERENTIAL CORRECTIONS
TOE -.3589 TRA .5650 TC3-4.7244 BAU .5047
ROE -.3082 RRA .6337 RC3-3.3110 FAU .14255
FOE-2.1395 FRA 3.4818 FC-18.8579 BSP 11184
BOE .4731 BRA .8491 BC3 5.7691 FSP -3708

MID-COURSE EXECUTION ACCURACY
SGT 2844.4 SGR 2315.4 SG3 1149.1
RRT .9788 RRF .9977 RTF .9792
SGB 3667.7 R23 .1106 R13 .9916
SG1 3649.0 SG2 369.9 THA 39.02

ORBIT DETERMINATION ACCURACY
ST 892.0 SR 812.6 SS 1605.5
CRT .9936 CRS -.9951 CST -.9995
LSA 2006.8 MSA 76.0 SSA 21.2
EL1 1204.8 EL2 67.7 ALF 42.32

LAUNCH DATE MAY 21 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 5 1967

HELIOCENTRIC CONIC DISTANCE 459.462
RL 151.40 LAL -.00 LOL 239.28 VL 27.023 GAL 2.49 AZL 90.98 HCA 203.84 SMA 129.74 ECC .17232 INC .9844 V1 29.428
RP 107.72 LAP .40 LOP 83.11 VP 37.964 GAP 1.72 AZP 89.10 TAL 167.90 TAP 11.73 RCA 107.39 APO 152.10 V2 35.180
RC 97.843 GL -10.23 GP -28.36 ZAL 71.41 ZAP 112.43 ETS 348.34 ZAE 143.18 ETE 219.85 ZAC 121.12 ETC 1.24 CLP-115.70
PLANETOCENTRIC CONIC
C3 6.825 VHL 2.612 DLA -4.74 RAL 165.13 RAD 6567.2 VEL 11.323 PTH 1.95 VHP 3.444 DPA -11.46 RAP 141.54 ECC 1.1123

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 5 9	1843.22	-9.17	19.19	11.42	116.91	7 35 52	1243.2	-5.49	12.45
90.00	17 52 32	4782.03	17.64	205.64	12.45	67.48	19 12 14	4182.0	14.44	198.43
100.00	8 24 15	1588.01	-9.87	.05	11.05	118.36	8 50 43	988.0	-6.01	353.40
100.00	19 16 7	4512.48	18.37	185.49	12.12	65.99	20 31 19	3912.5	14.97	178.35
110.00	9 27 23	1390.35	-11.73	343.95	9.95	122.34	9 50 34	790.4	-7.38	337.56
110.00	20 29 28	4282.90	20.30	167.06	11.12	61.89	21 40 51	3682.9	16.38	160.13

DIFFERENTIAL CORRECTIONS
TOE -.5168 TRA .6433 TC3-5.0578 BAU .5249
ROE -.3079 RRA .5490 RC3-2.7413 FAU .14455
FOE-2.5939 FRA 3.5358 FC-18.3357 BSP 11529
BOE .6016 BRA .8457 BC3 5.7529 FSP -3810

MID-COURSE EXECUTION ACCURACY
SGT 3205.1 SGR 1991.8 SG3 1174.2
RRT .9807 RRF .9962 RTF .9822
SGB 3773.6 R23 .1149 R13 .9899
SG1 3759.0 SG2 331.7 THA 31.64

ORBIT DETERMINATION ACCURACY
ST 1213.0 SR 767.7 SS 1831.9
CRT .9910 CRS -.9947 CST -.9994
LSA 2325.6 MSA 87.2 SSA 18.7
EL1 1432.8 EL2 86.9 ALF 32.23

LAUNCH DATE MAY 21 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 7 1967

HELIOCENTRIC CONIC DISTANCE 465.723
RL 151.40 LAL -.00 LOL 239.28 VL 27.013 GAL 2.61 AZL 91.29 HCA 207.07 SMA 129.67 ECC .17344 INC 1.2905 V1 29.428
RP 107.69 LAP .59 LOP 86.34 VP 37.965 GAP 2.13 AZP 88.85 TAL 167.41 TAP 14.48 RCA 107.18 APO 152.16 V2 35.190
RC 100.092 GL -13.14 GP -24.79 ZAL 70.61 ZAP 117.06 ETS 347.61 ZAE 142.81 ETE 212.78 ZAC 122.09 ETC 2.97 CLP-120.07
PLANETOCENTRIC CONIC
C3 7.150 VHL 2.674 DLA -7.82 RAL 164.92 RAD 6567.2 VEL 11.338 PTH 1.95 VHP 3.464 DPA -7.76 RAP 141.72 ECC 1.1177

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 27 52	1754.05	-6.39	14.12	11.68	117.65	7 57 7	1154.0	-2.64	7.45
90.00	17 28 8	4887.60	20.26	212.28	13.40	69.79	18 49 36	4287.6	17.33	204.83
100.00	8 45 27	1503.78	-7.11	355.32	11.28	119.11	9 10 31	903.8	-3.18	348.75
100.00	18 53 15	4613.10	21.03	191.77	13.09	68.26	20 10 8	4013.1	17.90	184.39
110.00	9 45 6	1317.02	-9.03	339.98	10.12	123.11	10 7 3	717.0	-4.61	333.69
110.00	20 10 5	4372.63	23.08	172.54	12.11	64.05	21 22 58	3772.6	19.40	165.34

DIFFERENTIAL CORRECTIONS
TOE -.6694 TRA .7256 TC3-5.2931 BAU .5504
ROE -.2893 RRA .4828 RC3-2.2658 FAU .14207
FOE-2.9070 FRA 3.5252 FC-17.2009 BSP 12051
BOE .7292 BRA .8715 BC3 5.7577 FSP -3794

MID-COURSE EXECUTION ACCURACY
SGT 3540.2 SGR 1715.6 SG3 1164.2
RRT .9810 RRF .9937 RTF .9840
SGB 3934.0 R23 .1101 R13 .9887
SG1 3922.5 SG2 300.3 THA 25.59

ORBIT DETERMINATION ACCURACY
ST 1511.9 SR 695.5 SS 1987.6
CRT .9887 CRS -.9932 CST -.9993
LSA 2590.6 MSA 95.7 SSA 17.5
EL1 1661.5 EL2 95.0 ALF 24.54

LAUNCH DATE MAY 21 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 9 1967

HELIOCENTRIC CONIC DISTANCE 471.964
RL 151.40 LAL -.00 LOL 239.28 VL 27.001 GAL 2.74 AZL 91.54 HCA 210.30 SMA 129.59 ECC .17475 INC 1.5360 V1 29.428
RP 107.66 LAP .78 LOP 89.57 VP 37.965 GAP 2.53 AZP 88.67 TAL 166.88 TAP 17.18 RCA 106.95 APO 152.24 V2 35.199
RC 102.344 GL -15.30 GP -21.83 ZAL 69.72 ZAP 121.40 ETS 347.13 ZAE 141.84 ETE 206.99 ZAC 122.72 ETC 4.57 CLP-124.14
PLANETOCENTRIC CONIC
C3 7.503 VHL 2.739 DLA -10.24 RAL 165.06 RAD 6567.2 VEL 11.353 PTH 1.96 VHP 3.522 DPA -4.71 RAP 141.92 ECC 1.1235

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 47 39	1684.28	-4.17	10.19	12.42	118.03	8 15 44	1084.3	-.39	3.56
90.00	17 9 29	4974.62	22.20	217.92	14.73	71.96	18 32 24	4374.6	19.53	210.27
100.00	9 3 55	1438.23	-4.93	351.68	12.00	119.52	9 27 54	838.2	-.96	345.15
100.00	18 35 54	4695.91	23.03	197.12	14.43	70.39	19 54 10	4095.9	20.14	189.51
110.00	10 0 39	1260.61	-6.92	336.98	10.77	123.56	10 21 39	660.6	-2.46	330.73
110.00	19 55 40	4446.29	25.19	177.22	13.48	66.09	21 9 46	3846.3	21.74	169.76

DIFFERENTIAL CORRECTIONS
TOE -.8171 TRA .8111 TC3-5.4558 BAU .5789
ROE -.2612 RRA .4308 RC3-1.8808 FAU .13667
FOE-3.0998 FRA 3.4744 FC-15.7681 BSP 12684
BOE .8579 BRA .9184 BC3 5.7709 FSP -3695

MID-COURSE EXECUTION ACCURACY
SGT 3850.6 SGR 1482.8 SG3 1130.5
RRT .9794 RRF .9899 RTF .9851
SGB 4126.3 R23 .0987 R13 .9880
SG1 4116.8 SG2 279.8 THA 20.77

ORBIT DETERMINATION ACCURACY
ST 1787.9 SR 612.3 SS 2086.8
CRT .9853 CRS -.9906 CST -.9993
LSA 2813.5 MSA 102.2 SSA 17.1
EL1 1887.3 EL2 99.2 ALF 18.70

LAUNCH DATE MAY 21 1967 FLIGHT TIME 174.00 ARRIVAL DATE NOV 11 1967

HELIOCENTRIC CONIC DISTANCE 478.185
RL 151.40 LAL -.00 LOL 239.28 VL 26.988 GAL 2.88 AZL 91.74 HCA 213.54 SMA 129.50 ECC .17624 INC 1.7382 V1 29.428
RP 107.63 LAP .96 LOP 92.80 VP 37.963 GAP 2.94 AZP 88.55 TAL 166.30 TAP 19.84 RCA 106.68 APO 152.32 V2 35.208
RC 104.596 GL -16.93 GP -19.34 ZAL 68.76 ZAP 125.43 ETS 346.83 ZAE 140.53 ETE 202.37 ZAC 123.04 ETC 6.02 CLP-127.91
PLANETOCENTRIC CONIC
C3 7.880 VHL 2.807 DLA -12.19 RAL 165.47 RAD 6567.3 VEL 11.370 PTH 1.96 VHP 3.610 DPA -2.19 RAP 142.21 ECC 1.1297

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 5 28	1628.08	-2.36	7.05	13.50	118.23	8 32 36	1028.1	1.43	.42
90.00	16 54 56	5048.65	23.68	222.84	16.32	74.00	18 19 5	4448.7	21.26	215.01
100.00	9 20 35	1385.74	-3.16	348.79	13.06	119.74	9 43 41	785.7	.82	342.27
100.00	18 22 30	4766.22	24.55	201.78	16.03	72.39	19 41 57	4166.2	21.91	193.98
110.00	10 14 45	1216.08	-5.24	334.63	11.77	123.83	10 35 1	616.1	-.76	328.41
110.00	19 44 49	4508.65	26.85	181.31	15.11	68.00	20 59 58	3908.6	23.62	173.63

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TOE -.9596 TRA .9002 TC3-5.5563 BAU .6083 SGT 4135.4 SGR 1288.0 SG3 1081.8 ST 2040.5 SR 528.0 SS 2143.3
ROE -.2291 RRA .3894 RC3-1.5722 FAU .12950 RRT .9759 RRF .9842 RTF .9858 CRT .9800 CRS -.9862 CST -.9993
FOE-3.1994 FRA 3.3967 FC-14.2284 BSP 13371 SGB 4331.3 R23 .0828 R13 .9876 LSA 3004.1 MSA 107.2 SSA 16.9
BOE .9866 BRA .9808 BC3 5.7745 FSP -3549 SG1 4322.9 SG2 268.9 THA 16.97 EL1 2105.2 EL2 101.8 ALF 14.27

LAUNCH DATE MAY 21 1967 FLIGHT TIME 176.00 ARRIVAL DATE NOV 13 1967

HELIOCENTRIC CONIC DISTANCE 484.386
RL 151.40 LAL -.00 LOL 239.28 VL 26.973 GAL 3.04 AZL 91.91 HCA 216.78 SMA 129.40 ECC .17791 INC 1.9087 V1 29.428
RP 107.61 LAP 1.14 LOP 96.04 VP 37.960 GAP 3.34 AZP 88.47 TAL 165.69 TAP 22.46 RCA 106.38 APO 152.42 V2 35.216
RC 106.849 GL -18.17 GP -17.25 ZAL 67.72 ZAP 129.17 ETS 346.64 ZAE 139.07 ETE 198.74 ZAC 123.09 ETC 7.31 CLP-131.40
PLANETOCENTRIC CONIC
C3 8.279 VHL 2.877 DLA -13.81 RAL 166.10 RAD 6567.3 VEL 11.387 PTH 1.97 VHP 3.719 DPA -.13 RAP 142.62 ECC 1.1363

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 21 55	1581.82	-.87	4.47	14.85	118.30	8 48 17	981.8	2.92	357.84
90.00	16 43 27	5113.26	24.82	227.23	18.10	75.92	18 8 41	4513.3	22.64	219.24
100.00	9 35 59	1342.86	-1.71	346.43	14.39	119.85	9 58 21	742.9	2.27	339.91
100.00	18 12 5	4827.45	25.75	205.94	17.83	74.27	19 32 32	4227.4	23.34	197.97
110.00	10 27 53	1180.29	-3.88	332.75	13.04	123.99	10 47 33	580.3	.61	326.54
110.00	19 36 40	4562.78	28.18	184.96	16.95	69.79	20 52 43	3962.8	25.16	177.08

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TOE-1.0952 TRA .9960 TC3-5.5958 BAU .6364 SGT 4392.9 SGR 1125.2 SG3 1023.8 ST 2267.4 SR 446.8 SS 2163.6
ROE -.1950 RRA .3572 RC3-1.3218 FAU .12106 RRT .9696 RRF .9759 RTF .9861 CRT .9711 CRS -.9785 CST -.9994
FOE-3.2209 FRA 3.3147 FC-12.6587 BSP 14018 SGB 4534.7 R23 .0663 R13 .9872 LSA 3163.7 MSA 112.0 SSA 17.0
BOE 1.1125 BRA 1.0581 BC3 5.7498 FSP -3356 SG1 4526.8 SG2 267.2 THA 14.00 EL1 2308.6 EL2 104.7 ALF 10.85

LAUNCH DATE MAY 21 1967 FLIGHT TIME 178.00 ARRIVAL DATE NOV 15 1967

HELIOCENTRIC CONIC DISTANCE 490.567
RL 151.40 LAL -.00 LOL 239.28 VL 26.956 GAL 3.22 AZL 92.06 HCA 220.02 SMA 129.29 ECC .17976 INC 2.0553 V1 29.428
RP 107.59 LAP 1.32 LOP 99.27 VP 37.955 GAP 3.74 AZP 88.43 TAL 165.03 TAP 25.05 RCA 106.04 APO 152.53 V2 35.223
RC 109.101 GL -19.10 GP -15.48 ZAL 66.60 ZAP 132.62 ETS 346.52 ZAE 137.59 ETE 195.88 ZAC 122.88 ETC 8.44 CLP-134.64
PLANETOCENTRIC CONIC
C3 8.705 VHL 2.950 DLA -15.17 RAL 166.89 RAD 6567.3 VEL 11.406 PTH 1.97 VHP 3.846 DPA 1.56 RAP 143.17 ECC 1.1433

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 37 21	1543.21	.37	2.32	16.41	118.31	9 3 5	943.2	4.16	355.68
90.00	16 34 22	5170.81	25.72	231.21	20.04	77.72	18 0 33	4570.8	23.77	223.08
100.00	9 50 27	1307.39	-.51	344.49	15.92	119.89	10 12 14	707.4	3.47	337.96
100.00	18 3 58	4881.87	26.70	209.70	19.79	76.03	19 25 20	4281.9	24.52	201.58
110.00	10 40 17	1151.25	-2.77	331.23	14.51	124.08	10 59 28	551.3	1.72	325.03
110.00	19 30 37	4610.76	29.26	188.27	18.94	71.48	20 47 28	4010.8	26.45	180.21

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TOE-1.2275 TRA 1.0949 TC3-5.5957 BAU .6642 SGT 4630.1 SGR 990.9 SG3 962.8 ST 2475.5 SR 373.3 SS 2163.8
ROE -.1620 RRA .3311 RC3-1.1231 FAU .11252 RRT .9603 RRF .9642 RTF .9862 CRT .9567 CRS -.9655 CST -.9994
FOE-3.1988 FRA 3.2206 FC-11.1901 BSP 14689 SGB 4735.0 R23 .0498 R13 .9869 LSA 3307.0 MSA 115.9 SSA 17.1
BOE 1.2381 BRA 1.1439 BC3 5.7073 FSP -3166 SG1 4727.2 SG2 270.9 THA 11.65 EL1 2501.2 EL2 107.5 ALF 8.22

LAUNCH DATE MAY 21 1967 FLIGHT TIME 180.00 ARRIVAL DATE NOV 17 1967

HELIOCENTRIC CONIC DISTANCE 496.726
RL 151.40 LAL -.00 LOL 239.28 VL 26.939 GAL 3.40 AZL 92.18 HCA 223.26 SMA 129.17 ECC .18181 INC 2.1834 V1 29.428
RP 107.57 LAP 1.50 LOP 102.51 VP 37.949 GAP 4.15 AZP 88.41 TAL 164.34 TAP 27.60 RCA 105.68 APO 152.65 V2 35.230
RC 111.351 GL -19.78 GP -13.97 ZAL 65.42 ZAP 135.81 ETS 346.44 ZAE 136.14 ETE 193.63 ZAC 122.44 ETC 9.42 CLP-137.64
PLANETOCENTRIC CONIC
C3 9.162 VHL 3.027 DLA -16.33 RAL 167.83 RAD 6567.3 VEL 11.426 PTH 1.98 VHP 3.988 DPA 2.93 RAP 143.85 ECC 1.1508

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 52 2	1510.73	1.42	.50	18.14	118.28	9 17 13	910.7	5.19	353.85
90.00	16 27 12	5222.94	26.42	234.87	22.12	79.42	17 54 15	4622.9	24.69	226.62
100.00	10 4 12	1277.84	.49	342.87	17.62	119.89	10 25 30	677.8	4.47	336.33
100.00	17 57 43	4931.06	27.46	213.16	21.88	77.70	19 19 54	4331.1	25.49	204.91
110.00	10 52 9	1127.63	-1.87	330.00	16.15	124.14	11 10 57	527.6	2.62	323.79
110.00	19 26 15	4654.04	30.16	191.32	21.08	73.08	20 43 49	4054.0	27.55	183.10

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TOE-1.3558 TRA 1.1989 TC3-5.5574 BAU .6909 SGT 4847.4 SGR 880.3 SG3 901.4 ST 2664.4 SR 307.8 SS 2147.2
ROE -.1302 RRA .3102 RC3 -.9628 FAU .10404 RRT .9469 RRF .9483 RTF .9862 CRT .9322 CRS -.9430 CST -.9995
FOE-3.1426 FRA 3.1264 FC3-9.8309 BSP 15344 SGB 4926.7 R23 .0353 R13 .9866 LSA 3433.6 MSA 119.7 SSA 17.2
BOE 1.3620 BRA 1.2384 BC3 5.6402 FSP -2975 SG1 4918.8 SG2 278.9 THA 9.79 EL1 2679.9 EL2 110.8 ALF 6.16

LAUNCH DATE MAY 21 1967 FLIGHT TIME 182.00 ARRIVAL DATE NOV 19 1967

HELIOCENTRIC CONIC DISTANCE 502.863
RL 151.40 LAL -.00 LOL 239.28 VL 26.920 GAL 3.61 AZL 92.30 HCA 226.50 SMA 129.04 ECC .18404 INC 2.2969 V1 29.428
RP 107.55 LAP 1.67 LOP 105.75 VP 37.941 GAP 4.55 AZP 88.42 TAL 163.62 TAP 30.12 RCA 105.29 APO 152.79 V2 35.236
RC 113.598 GL -20.28 GP -12.67 ZAL 64.18 ZAP 138.76 ETS 346.37 ZAE 134.76 ETE 191.85 ZAC 121.81 ETC 10.26 CLP-140.42
PLANETOCENTRIC CONIC
C3 9.655 VHL 3.107 DLA -17.34 RAL 168.90 RAD 6567.3 VEL 11.447 PTH 1.99 VHP 4.142 DPA 4.02 RAP 144.68 ECC 1.1589

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 6 6	1483.34	2.31	358.98	20.02	118.23	9 30 49	883.3	6.06	352.31
90.00	16 21 38	5270.80	26.97	238.26	24.31	81.04	17 49 29	4670.8	25.46	229.92
100.00	10 17 24	1253.22	1.33	341.52	19.48	119.87	10 38 18	653.2	5.29	334.97
100.00	17 53 0	4976.15	28.07	216.37	24.10	79.29	19 15 56	4376.1	26.31	208.01
110.00	11 3 36	1108.51	-1.14	329.00	17.94	124.17	11 22 4	508.5	3.35	322.79
110.00	19 23 18	4693.63	30.91	194.16	23.35	74.61	20 41 32	4093.6	28.49	185.80

DIFFERENTIAL CORRECTIONS
TDE-1.4796 TRA 1.3093 TC3-5.4826 BAU .7158
RDE -.0997 RRA .2936 RC3 -.8318 FAU .09577
FDE-3.0610 FRA 3.0358 FC3-8.5875 BSP 15952
BDE 1.4830 BRA 1.3418 BC3 5.5453 FSP -2783

MID-COURSE EXECUTION ACCURACY
SGT 5044.7 SGR 789.1 SG3 840.9
RRT .9288 RRF .9273 RTF .9860
SGB 5106.0 R23 .0230 R13 .9863
SG1 5097.8 SG2 289.4 THA 8.29

ORBIT DETERMINATION ACCURACY
ST 2833.7 SR 250.9 SS 2116.5
CRT .8890 CRS -.9024 CST -.9995
LSA 3543.5 MSA 123.6 SSA 17.3
EL1 2842.4 EL2 114.6 ALF 4.51

LAUNCH DATE MAY 21 1967 FLIGHT TIME 184.00 ARRIVAL DATE NOV 21 1967

HELIOCENTRIC CONIC DISTANCE 508.977
RL 151.40 LAL -.00 LOL 239.28 VL 26.900 GAL 3.83 AZL 92.40 HCA 229.74 SMA 128.90 ECC .18647 INC 2.3990 V1 29.428
RP 107.53 LAP 1.83 LOP 108.99 VP 37.932 GAP 4.96 AZP 88.45 TAL 162.86 TAP 32.60 RCA 104.87 APO 152.94 V2 35.241
RC 115.842 GL -20.61 GP -11.56 ZAL 62.89 ZAP 141.49 ETS 346.30 ZAE 133.47 ETE 190.42 ZAC 121.00 ETC 10.97 CLP-143.01
PLANETOCENTRIC CONIC
C3 10.190 VHL 3.192 DLA -18.21 RAL 170.06 RAD 6567.4 VEL 11.471 PTH 1.99 VHP 4.307 DPA -4.88 RAP 145.64 ECC 1.1677

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 19 38	1460.33	3.05	357.69	22.04	118.17	9 43 59	860.3	6.79	351.01
90.00	16 17 24	5315.23	27.40	241.44	26.62	82.58	17 45 59	4715.2	26.09	233.02
100.00	10 30 8	1232.86	2.02	340.40	21.47	119.83	10 50 41	632.9	5.97	333.84
100.00	17 49 35	5017.93	28.57	219.38	26.43	80.80	19 13 13	4417.9	27.00	210.93
110.00	11 14 41	1093.27	-.55	328.21	19.86	124.18	11 32 54	493.3	3.93	322.00
110.00	19 21 31	4730.29	31.54	196.83	25.72	76.07	20 40 22	4130.3	29.30	188.34

DIFFERENTIAL CORRECTIONS
TDE-1.5979 TRA 1.4290 TC3-5.3691 BAU .7380
RDE -.0702 RRA .2808 RC3 -.7224 FAU .08766
FDE-2.9598 FRA 2.9564 FC3-7.4481 BSP 16474
BDE 1.5994 BRA 1.4564 BC3 5.4175 FSP -2590

MID-COURSE EXECUTION ACCURACY
SGT 5221.7 SGR 714.2 SG3 782.6
RRT .9050 RRF .9007 RTF .9857
SGB 5270.4 R23 .0133 R13 .9858
SG1 5261.7 SG2 301.6 THA 7.08

ORBIT DETERMINATION ACCURACY
ST 2982.0 SR 203.5 SS 2073.7
CRT .8104 CRS -.8274 CST -.9995
LSA 3635.5 MSA 128.0 SSA 17.3
EL1 2986.5 EL2 119.0 ALF 3.17

LAUNCH DATE MAY 21 1967 FLIGHT TIME 186.00 ARRIVAL DATE NOV 23 1967

HELIOCENTRIC CONIC DISTANCE 515.067
RL 151.40 LAL -.00 LOL 239.28 VL 26.879 GAL 4.06 AZL 92.49 HCA 232.99 SMA 128.76 ECC .18911 INC 2.4917 V1 29.428
RP 107.52 LAP 1.99 LOP 112.24 VP 37.922 GAP 5.37 AZP 88.50 TAL 162.07 TAP 35.06 RCA 104.41 APO 153.12 V2 35.246
RC 118.080 GL -20.80 GP -10.59 ZAL 61.56 ZAP 144.03 ETS 346.21 ZAE 132.29 ETE 189.27 ZAC 120.03 ETC 11.55 CLP-145.43
PLANETOCENTRIC CONIC
C3 10.772 VHL 3.282 DLA -18.98 RAL 171.32 RAD 6567.4 VEL 11.496 PTH 2.00 VHP 4.482 DPA 5.54 RAP 146.72 ECC 1.1773

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 32 43	1441.23	3.66	356.62	24.17	118.10	9 56 44	841.2	7.39	349.93
90.00	16 14 19	5356.82	27.73	244.44	29.02	84.04	17 43 36	4756.8	26.62	235.95
100.00	10 42 26	1216.28	2.58	339.49	23.57	119.79	11 2 42	616.3	6.53	332.92
100.00	17 47 18	5057.00	28.96	222.22	28.85	82.24	19 11 35	4457.0	27.58	213.68
110.00	11 25 27	1081.48	-.10	327.59	21.89	124.18	11 43 28	481.5	4.38	321.38
110.00	19 20 46	4764.57	32.07	199.36	28.21	77.48	20 40 11	4164.6	30.02	190.75

DIFFERENTIAL CORRECTIONS
TDE-1.7150 TRA 1.5538 TC3-5.2376 BAU .7598
RDE -.0424 RRA .2702 RC3 -.6328 FAU .08029
FDE-2.8556 FRA 2.8773 FC3-6.4524 BSP 17013
BDE 1.7155 BRA 1.5771 BC3 5.2757 FSP -2418

MID-COURSE EXECUTION ACCURACY
SGT 5386.2 SGR 653.4 SG3 728.0
RRT .8754 RRF .8679 RTF .9854
SGB 5425.7 R23 .0049 R13 .9854
SG1 5416.6 SG2 314.0 THA 6.08

ORBIT DETERMINATION ACCURACY
ST 3116.8 SR 167.4 SS 2027.4
CRT .6741 CRS -.6951 CST -.9995
LSA 3719.5 MSA 132.2 SSA 17.3
EL1 3118.8 EL2 123.6 ALF 2.08

LAUNCH DATE MAY 21 1967 FLIGHT TIME 188.00 ARRIVAL DATE NOV 25 1967

HELIOCENTRIC CONIC DISTANCE 521.132
RL 151.40 LAL -.00 LOL 239.28 VL 26.857 GAL 4.31 AZL 92.58 HCA 236.23 SMA 128.62 ECC .19196 INC 2.5769 V1 29.428
RP 107.50 LAP 2.14 LOP 115.48 VP 37.910 GAP 5.79 AZP 88.57 TAL 161.25 TAP 37.48 RCA 103.93 APO 153.31 V2 35.250
RC 120.312 GL -20.88 GP -9.76 ZAL 60.19 ZAP 146.40 ETS 346.09 ZAE 131.20 ETE 188.34 ZAC 118.92 ETC 12.03 CLP-147.69
PLANETOCENTRIC CONIC
C3 11.410 VHL 3.378 DLA -19.65 RAL 172.65 RAD 6567.4 VEL 11.524 PTH 2.01 VHP 4.667 DPA 6.03 RAP 147.91 ECC 1.1878

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 45 21	1425.70	4.16	355.75	26.40	118.04	10 9 7	825.7	7.87	349.04
90.00	16 12 16	5396.01	27.98	247.28	31.51	85.45	17 42 12	4796.0	27.05	238.74
100.00	10 54 19	1203.16	3.02	338.77	25.77	119.75	11 14 22	603.2	6.96	332.19
100.00	17 46 0	5093.79	29.27	224.91	31.37	83.62	19 10 53	4493.8	28.08	216.31
110.00	11 35 54	1072.82	.23	327.14	24.03	124.18	11 53 47	472.8	4.71	320.92
110.00	19 20 54	4796.88	32.52	201.77	30.79	78.84	20 40 50	4196.9	30.64	193.06

DIFFERENTIAL CORRECTIONS
TDE-1.8302 TRA 1.6860 TC3-5.0850 BAU .7803
RDE -.0159 RRA .2617 RC3 -.5574 FAU .07345
FDE-2.7490 FRA 2.8038 FC3-5.5732 BSP 17519
BDE 1.8303 BRA 1.7062 BC3 5.1154 FSP -2258

MID-COURSE EXECUTION ACCURACY
SGT 5537.2 SGR 603.9 SG3 677.1
RRT .8399 RRF .8290 RTF .9850
SGB 5570.0 R23 -.0022 R13 .9850
SG1 5560.4 SG2 326.4 THA 5.25

ORBIT DETERMINATION ACCURACY
ST 3237.0 SR 144.4 SS 1977.5
CRT .4569 CRS -.4816 CST -.9995
LSA 3793.5 MSA 136.5 SSA 17.2
EL1 3237.7 EL2 128.4 ALF 1.17

LAUNCH DATE MAY 21 1967 FLIGHT TIME 190.00 ARRIVAL DATE NOV 27 1967

HELIOCENTRIC CONIC DISTANCE 527.171
RL 151.40 LAL -.00 LOL 239.28 VL 26.835 GAL 4.58 AZL 92.66 HCA 239.48 SMA 128.47 ECC .19504 INC 2.6558 V1 29.428
RP 107.49 LAP 2.29 LOP 118.73 VP 37.897 GAP 6.21 AZP 88.65 TAL 160.40 TAP 39.88 RCA 103.41 APO 153.52 V2 35.253
RC 122.538 GL -20.87 GP -9.02 ZAL 58.79 ZAP 148.61 ETS 345.93 ZAE 130.21 ETE 187.57 ZAC 117.69 ETC 12.42 CLP-149.81
PLANETOCENTRIC CONIC
C3 12.110 VHL 3.480 DLA -20.24 RAL 174.03 RAD 6567.5 VEL 11.554 PTH 2.02 VHP 4.860 DPA 6.36 RAP 149.20 ECC 1.1993

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 57 34	1413.51	4.55	355.07	28.73	117.98	10 21 7	813.5	8.25	348.35
90.00	16 11 8	5433.15	28.15	249.98	34.09	86.79	17 41 41	4833.2	27.41	241.40
100.00	11 5 49	1193.26	3.36	338.22	28.07	119.72	11 25 42	593.3	7.29	331.64
100.00	17 45 34	5128.63	29.50	227.47	33.97	84.95	19 11 3	4528.6	28.49	218.81
110.00	11 46 4	1067.09	.45	326.84	26.25	124.18	12 3 51	467.1	4.93	320.62
110.00	19 21 48	4827.57	32.90	204.09	33.45	80.16	20 42 16	4227.6	31.20	195.28

DIFFERENTIAL CORRECTIONS
TDE-1.9428 TRA 1.8274 TC3-4.9100 BAU .7989
RDE .0099 RRA .2549 RC3 -.4926 FAU .06704
FDE-2.6406 FRA 2.7381 FC3-4.7924 BSP 17983
BDE 1.9428 BRA 1.8451 BC3 4.9346 FSP -2107

MID-COURSE EXECUTION ACCURACY
SGT 5673.9 SGR 563.8 SG3 629.7
RRT .7984 RRF .7841 RTF .9846
SGB 5701.8 R23 -.0078 R13 .9846
SG1 5691.8 SG2 338.4 THA 4.55

ORBIT DETERMINATION ACCURACY
ST 3341.8 SR 135.6 SS 1923.9
CRT .1724 CRS -.1992 CST -.9996
LSA 3855.8 MSA 141.0 SSA 17.1
EL1 3341.9 EL2 133.5 ALF .40

LAUNCH DATE MAY 21 1967 FLIGHT TIME 192.00 ARRIVAL DATE NOV 29 1967

HELIOCENTRIC CONIC DISTANCE 533.182
RL 151.40 LAL -.00 LOL 239.28 VL 26.812 GAL 4.87 AZL 92.73 HCA 242.73 SMA 128.31 ECC .19835 INC 2.7296 V1 29.428
RP 107.49 LAP 2.43 LOP 121.97 VP 37.883 GAP 6.63 AZP 88.75 TAL 159.53 TAP 42.26 RCA 102.86 APO 153.76 V2 35.256
RC 124.755 GL -20.76 GP -8.38 ZAL 57.37 ZAP 150.68 ETS 345.74 ZAE 129.30 ETE 186.93 ZAC 116.35 ETC 12.73 CLP-151.81
PLANETOCENTRIC CONIC
C3 12.882 VHL 3.589 DLA -20.75 RAL 175.47 RAD 6567.5 VEL 11.587 PTH 2.03 VHP 5.063 DPA 6.56 RAP 150.59 ECC 1.2120

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 9 20	1404.52	4.83	354.56	31.13	117.94	10 32 45	804.5	8.53	347.84
90.00	16 10 50	5468.47	28.26	252.56	36.73	88.08	17 41 58	4868.5	27.69	243.94
100.00	11 16 55	1186.43	3.59	337.85	30.45	119.70	11 36 41	586.4	7.52	331.26
100.00	17 45 56	5161.79	29.68	229.92	36.65	86.23	19 11 58	4561.8	28.84	221.22
110.00	11 55 56	1064.12	.56	326.69	28.56	124.18	12 13 40	464.1	5.04	320.47
110.00	19 23 24	4856.87	33.22	206.31	36.21	81.45	20 44 21	4256.9	31.68	197.42

DIFFERENTIAL CORRECTIONS
TDE-2.0534 TRA 1.9784 TC3-4.7179 BAU .8160
RDE .0349 RRA .2494 RC3 -.4365 FAU .06109
FDE-2.5338 FRA 2.6794 FC3-4.1053 BSP 18408
BDE 2.0537 BRA 1.9941 BC3 4.7380 FSP -1967

MID-COURSE EXECUTION ACCURACY
SGT 5798.4 SGR 531.5 SG3 585.8
RRT .7515 RRF .7340 RTF .9841
SGB 5822.7 R23 -.0125 R13 .9841
SG1 5812.2 SG2 349.8 THA 3.95

ORBIT DETERMINATION ACCURACY
ST 3432.6 SR 139.7 SS 1868.8
CRT -.1094 CRS .0829 CST -.9996
LSA 3908.0 MSA 145.7 SSA 16.9
EL1 3432.6 EL2 138.8 ALF 179.74

LAUNCH DATE MAY 21 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 1 1967

HELIOCENTRIC CONIC DISTANCE 539.163
RL 151.40 LAL -.00 LOL 239.28 VL 26.788 GAL 5.18 AZL 92.80 HCA 245.97 SMA 128.15 ECC .20192 INC 2.7993 V1 29.428
RP 107.48 LAP 2.56 LOP 125.22 VP 37.868 GAP 7.07 AZP 88.86 TAL 158.64 TAP 44.61 RCA 102.28 APO 154.03 V2 35.258
RC 126.964 GL -20.58 GP -7.82 ZAL 55.93 ZAP 152.63 ETS 345.49 ZAE 128.48 ETE 186.40 ZAC 114.91 ETC 12.98 CLP-153.69
PLANETOCENTRIC CONIC
C3 13.735 VHL 3.706 DLA -21.20 RAL 176.95 RAD 6567.5 VEL 11.624 PTH 2.04 VHP 5.274 DPA 6.64 RAP 152.06 ECC 1.2260

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 20 39	1398.62	5.02	354.23	33.61	117.90	10 43 58	798.6	8.72	347.50
90.00	16 11 17	5502.17	28.31	255.03	39.45	89.32	17 42 59	4902.2	27.91	246.38
100.00	11 27 36	1182.56	3.72	337.63	32.90	119.68	11 47 18	582.6	7.64	331.04
100.00	17 47 2	5193.46	29.79	232.27	39.41	87.46	19 13 35	4593.5	29.12	223.53
110.00	12 5 29	1063.79	.57	326.67	30.94	124.18	12 23 13	463.8	5.05	320.45
110.00	19 25 37	4884.99	33.49	208.47	39.03	82.69	20 47 2	4285.0	32.11	199.51

DIFFERENTIAL CORRECTIONS
TDE-2.1603 TRA 2.1417 TC3-4.5049 BAU .8302
RDE .0597 RRA .2449 RC3 -.3867 FAU .05541
FDE-2.4258 FRA 2.6298 FC3-3.4927 BSP 18740
BDE 2.1611 BRA 2.1557 BC3 4.5214 FSP -1829

MID-COURSE EXECUTION ACCURACY
SGT 5909.1 SGR 505.6 SG3 545.0
RRT .6999 RRF .6794 RTF .9835
SGB 5930.6 R23 -.0161 R13 .9835
SG1 5919.7 SG2 360.5 THA 3.44

ORBIT DETERMINATION ACCURACY
ST 3507.1 SR 153.1 SS 1810.2
CRT -.3311 CRS .3063 CST -.9996
LSA 3946.8 MSA 150.8 SSA 16.7
EL1 3507.5 EL2 144.5 ALF 179.17

LAUNCH DATE MAY 21 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 3 1967

HELIOCENTRIC CONIC DISTANCE 545.112
RL 151.40 LAL -.00 LOL 239.28 VL 26.763 GAL 5.50 AZL 92.87 HCA 249.22 SMA 127.99 ECC .20575 INC 2.8655 V1 29.428
RP 107.48 LAP 2.68 LOP 128.47 VP 37.852 GAP 7.51 AZP 88.98 TAL 157.73 TAP 46.95 RCA 101.66 APO 154.33 V2 35.259
RC 129.165 GL -20.34 GP -7.32 ZAL 54.48 ZAP 154.48 ETS 345.19 ZAE 127.73 ETE 185.95 ZAC 113.39 ETC 13.17 CLP-155.48
PLANETOCENTRIC CONIC
C3 14.679 VHL 3.831 DLA -21.59 RAL 178.45 RAD 6567.6 VEL 11.665 PTH 2.05 VHP 5.494 DPA 6.62 RAP 153.60 ECC 1.2416

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 31 29	1395.76	5.11	354.07	36.16	117.89	10 54 45	795.8	8.80	347.34
90.00	16 12 27	5534.38	28.31	257.38	42.24	90.50	17 44 42	4934.4	28.08	248.73
100.00	11 37 51	1181.58	3.75	337.58	35.41	119.68	11 57 33	581.6	7.68	330.99
100.00	17 48 47	5223.79	29.86	234.52	42.22	88.64	19 15 50	4623.8	29.36	225.75
110.00	12 14 43	1066.03	.49	326.79	33.37	124.18	12 32 29	466.0	4.97	320.57
110.00	19 28 24	4912.11	33.70	210.55	41.93	83.91	20 50 16	4312.1	32.49	201.53

DIFFERENTIAL CORRECTIONS
TDE-2.2693 TRA 2.3123 TC3-4.2903 BAU .8446
RDE .0839 RRA .2408 RC3 -.3433 FAU .05038
FDE-2.3269 FRA 2.5818 FC3-2.9710 BSP 19119
BDE 2.2708 BRA 2.3248 BC3 4.3040 FSP -1711

MID-COURSE EXECUTION ACCURACY
SGT 6012.8 SGR 484.7 SG3 507.7
RRT .6447 RRF .6214 RTF .9830
SGB 6032.3 R23 -.0193 R13 .9830
SG1 6021.0 SG2 370.0 THA 2.99

ORBIT DETERMINATION ACCURACY
ST 3573.6 SR 171.2 SS 1754.7
CRT -.4831 CRS .4607 CST -.9996
LSA 3981.8 MSA 155.6 SSA 16.5
EL1 3574.6 EL2 149.9 ALF 178.67

```
LAUNCH DATE  MAY 21 1967                          FLIGHT TIME 198.00                          ARRIVAL DATE  DEC  5 1967

  HELIOCENTRIC CONIC                                DISTANCE 551.028
   RL  151.40 LAL   -.00 LOL 239.28 VL  26.738 GAL   5.85 AZL  92.93 HCA 252.47 SMA 127.83 ECC .20987 INC 2.9289 V1  29.428
   RP  107.48 LAP   2.79 LOP 131.72 VP  37.834 GAP   7.96 AZP  89.12 TAL 156.79 TAP  49.26 RCA 101.00 APO 154.65 V2  35.259
   RC 131.355 GL  -20.04 GP   -6.87 ZAL  53.03 ZAP 156.22 ETS 344.82 ZAE 127.05 ETE 185.56 ZAC 111.79 ETC  13.31 CLP-157.18
  PLANETOCENTRIC CONIC
   C3  15.728 VHL  3.966 DLA -21.92 RAL 179.98 RAD 6567.6 VEL 11.709 PTH   2.06 VHP  5.724 DPA   6.50 RAP 155.21 ECC 1.2588
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     10 41 50   1395.90      5.11     354.08      38.76      117.89   11  5  5     795.9       8.80      347.34
      90.00     16 14 17   5565.22     28.27     259.64      45.08       91.63   17 47  2    4965.2      28.20      250.97
     100.00     11 47 39   1183.43      3.69     337.68      37.98      119.68   12  7 23     583.4       7.61      331.09
     100.00     17 51  8   5252.91     29.89     236.69      45.10       89.78   19 18 41    4652.9      29.54      227.90
     110.00     12 23 36   1070.76       .31     327.03      35.87      124.18   12 41 27     470.8       4.79      320.82
     110.00     19 31 41   4938.36     33.87     212.59      44.89       85.10   20 53 59    4338.4      32.82      203.51
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TOE-2.5975 TRA 2.4943 TC3-4.0666 BAU  .8575      SGT 6106.6 SGR  468.0 SG3  473.4         ST  3628.4 SR   191.5 SS  1699.6
   ROE  .1080 RRA  .2370 RC3 -.3046 FAU .04572      RRT  .5868 RRF  .5611 RTF  .9826         CRT -.5848 CRS  .5645 CST -.9996
   FOE-2.2320 FRA 2.5397 FC3-2.5166 BSP  19469      SGB 6124.6 R23 -.0219 R13  .9825         LSA 4008.0 MSA  160.5 SSA   16.2
   BOE 2.3799 BRA 2.5055 BC3 4.0780 FSP  -1602      SG1 6112.8 SG2  378.5 THA   2.58        EL1 3630.1 EL2  155.3 ALF 178.23

LAUNCH DATE  MAY 21 1967                          FLIGHT TIME 200.00                          ARRIVAL DATE  DEC  7 1967

  HELIOCENTRIC CONIC                                DISTANCE 556.906
   RL  151.40 LAL   -.00 LOL 239.28 VL  26.713 GAL   6.22 AZL  92.99 HCA 255.71 SMA 127.66 ECC .21430 INC 2.9901 V1  29.428
   RP  107.48 LAP   2.90 LOP 134.97 VP  37.816 GAP   8.43 AZP  89.26 TAL 155.85 TAP  51.56 RCA 100.30 APO 155.02 V2  35.259
   RC 133.537 GL  -19.70 GP   -6.48 ZAL  51.58 ZAP 157.88 ETS 344.38 ZAE 126.43 ETE 185.23 ZAC 110.13 ETC  13.41 CLP-158.80
  PLANETOCENTRIC CONIC
   C3  16.895 VHL  4.110 DLA -22.21 RAL 181.51 RAD 6567.7 VEL 11.759 PTH   2.08 VHP  5.964 DPA   6.30 RAP 156.87 ECC 1.2780
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     10 51 38   1399.00      5.01     354.25      41.40      117.91   11 14 57     799.0       8.70      347.52
      90.00     16 16 44   5594.78     28.20     261.80      47.98       92.71   17 49 58    4994.8      28.28      253.13
     100.00     11 56 59   1188.07      3.53     337.94      40.59      119.70   12 16 48     588.1       7.46      331.35
     100.00     17 54  3   5280.95     29.88     238.77      48.04       90.88   19 22  4    4680.9      29.68      229.97
     110.00     12 32  8   1077.92       .03     327.41      38.41      124.18   12 50  6     477.9       4.52      321.19
     110.00     19 35 25   4963.86     34.00     214.57      47.91       86.27   20 58  8    4363.9      33.11      205.44
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TOE-2.4855 TRA 2.6880 TC3-3.8363 BAU  .8686      SGT 6191.0 SGR  454.4 SG3  441.8         ST  3672.5 SR   212.3 SS  1645.3
   ROE  .1322 RRA  .2333 RC3 -.2697 FAU .04139      RRT  .5270 RRF  .4992 RTF  .9821         CRT -.6536 CRS  .6350 CST -.9996
   FOE-2.1421 FRA 2.5025 FC3-2.1211 BSP  19786      SGB 6207.7 R23 -.0239 R13  .9820         LSA 4026.4 MSA  165.3 SSA   16.0
   BOE 2.4890 BRA 2.6981 BC3 3.8457 FSP  -1501      SG1 6195.7 SG2  385.9 THA   2.22        EL1 3675.1 EL2  160.6 ALF 177.83

LAUNCH DATE  MAY 21 1967                          FLIGHT TIME 202.00                          ARRIVAL DATE  DEC  9 1967

  HELIOCENTRIC CONIC                                DISTANCE 562.744
   RL  151.40 LAL   -.00 LOL 239.28 VL  26.687 GAL   6.62 AZL  93.05 HCA 258.96 SMA 127.49 ECC .21905 INC 3.0496 V1  29.428
   RP  107.48 LAP   2.99 LOP 138.22 VP  37.796 GAP   8.90 AZP  89.42 TAL 154.89 TAP  53.85 RCA  99.56 APO 155.42 V2  35.257
   RC 135.709 GL  -19.31 GP   -6.13 ZAL  50.14 ZAP 159.45 ETS 343.86 ZAE 125.86 ETE 184.94 ZAC 108.41 ETC  13.49 CLP-160.35
  PLANETOCENTRIC CONIC
   C3  18.196 VHL  4.266 DLA -22.44 RAL 183.05 RAD 6567.7 VEL 11.814 PTH   2.09 VHP  6.214 DPA   6.02 RAP 158.58 ECC 1.2995
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     11  0 54   1405.05      4.82     354.59      44.09      117.94   11 24 19     805.0       8.52      347.87
      90.00     16 19 45   5623.15     28.09     263.87      50.92       93.74   17 53 28    5023.2      28.31      255.21
     100.00     12  5 50   1195.45      3.28     338.34      43.25      119.73   12 25 46     595.4       7.22      331.76
     100.00     17 57 30   5307.99     29.84     240.78      51.02       91.94   19 25 58    4708.0      29.79      231.97
     110.00     12 40 17   1087.47      -.33     327.90      40.99      124.18   12 58 24     487.5       4.15      321.69
     110.00     19 39 33   4988.73     34.10     216.50      50.99       87.41   21  2 41    4388.7      33.36      207.34
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TOE-2.5900 TRA 2.8978 TC3-3.5940 BAU  .8762      SGT 6264.0 SGR  443.6 SG3  412.6         ST  3702.3 SR   233.0 SS  1589.9
   ROE  .1566 RRA  .2297 RC3 -.2377 FAU .03720      RRT  .4663 RRF  .4372 RTF  .9815         CRT -.7008 CRS  .6835 CST -.9997
   FOE-2.0529 FRA 2.4737 FC3-1.7701 BSP  19989      SGB 6279.7 R23 -.0252 R13  .9815         LSA 4032.4 MSA  170.3 SSA   15.7
   BOE 2.5948 BRA 2.9069 BC3 3.6019 FSP  -1399      SG1 6267.5 SG2  392.2 THA   1.90        EL1 3705.9 EL2  166.1 ALF 177.47

LAUNCH DATE  MAY 21 1967                          FLIGHT TIME 204.00                          ARRIVAL DATE  DEC 11 1967

  HELIOCENTRIC CONIC                                DISTANCE 568.538
   RL  151.40 LAL   -.00 LOL 239.28 VL  26.660 GAL   7.04 AZL  93.11 HCA 262.21 SMA 127.32 ECC .22417 INC 3.1077 V1  29.428
   RP  107.49 LAP   3.08 LOP 141.47 VP  37.776 GAP   9.39 AZP  89.58 TAL 153.91 TAP  56.12 RCA  98.78 APO 155.86 V2  35.255
   RC 137.871 GL  -18.88 GP   -5.81 ZAL  48.71 ZAP 160.97 ETS 343.24 ZAE 125.33 ETE 184.68 ZAC 106.64 ETC  13.54 CLP-161.84
  PLANETOCENTRIC CONIC
   C3  19.650 VHL  4.433 DLA -22.63 RAL 184.59 RAD 6567.8 VEL 11.876 PTH   2.11 VHP  6.477 DPA   5.67 RAP 160.33 ECC 1.3234
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     11  9 35   1414.01      4.53     355.09      46.81      117.98   11 33  9     814.0       8.24      348.38
      90.00     16 23 19   5650.40     27.95     265.85      53.91       94.72   17 57 30    5050.4      28.31      257.20
     100.00     12 14 11   1205.53      2.94     338.90      45.94      119.76   12 34 17     605.5       6.88      332.33
     100.00     18  1 25   5334.12     29.76     242.72      54.05       92.96   19 30 19    4734.1      29.85      233.91
     110.00     12 48  3   1099.35      -.79     328.52      43.61      124.18   13  6 22     499.4       3.70      322.32
     110.00     19 44  2   5013.06     34.16     218.40      54.12       88.53   21  7 35    4413.1      33.57      209.21
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TOE-2.6996 TRA 3.1168 TC3-3.3596 BAU  .8843      SGT 6332.1 SGR  434.6 SG3  385.9         ST  3727.9 SR   252.5 SS  1539.3
   ROE  .1810 RRA  .2255 RC3 -.2092 FAU .03352      RRT  .4050 RRF  .3747 RTF  .9811         CRT -.7350 CRS  .7190 CST -.9997
   FOE-1.9739 FRA 2.4452 FC3-1.4767 BSP  20272      SGB 6347.0 R23 -.0264 R13  .9810         LSA 4037.3 MSA  174.8 SSA   15.4
   BOE 2.7057 BRA 3.1250 BC3 3.3661 FSP  -1314      SG1 6334.6 SG2  397.2 THA   1.60        EL1 3732.6 EL2  171.0 ALF 177.14
```

LAUNCH DATE MAY 21 1967 FLIGHT TIME 206.00 ARRIVAL DATE DEC 13 1967

HELIOCENTRIC CONIC DISTANCE 574.284

```
RL  151.40 LAL   -.00 LOL 239.28 VL  26.634 GAL   7.48 AZL  93.16 HCA 265.46 SMA 127.14 ECC .22967 INC 3.1650 VI  29.428
RP  107.50 LAP   3.16 LOP 144.72 VP  37.754 GAP   9.90 AZP  89.75 TAL 152.93 TAP  58.39 RCA  97.94 APO 156.34 V2  35.253
RC 140.023 GL  -18.42 GP   -5.53 ZAL  47.29 ZAP 162.41 ETS 342.51 ZAE 124.85 ETE 184.45 ZAC 104.82 ETC  13.57 CLP-163.28
```

PLANETOCENTRIC CONIC

```
C3  21.279 VHL  4.613 DLA -22.77 RAL 186.12 RAO 6567.9 VEL 11.944 PTH   2.13 VHP  6.752 DPA   5.27 RAP 162.11 ECC 1.3502
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 17 42	1425.86	4.15	355.76	49.56	118.04	11 41 28	825.9	7.87	349.05
90.00	16 27 24	5676.61	27.79	267.75	56.94	95.66	18 2 0	5076.6	28.29	259.12
100.00	12 22 1	1218.28	2.51	339.60	48.65	119.80	12 42 19	618.3	6.46	333.03
100.00	18 5 46	5359.42	29.66	244.59	57.12	93.94	19 35 5	4759.4	29.89	235.79
110.00	12 55 25	1113.53	-1.33	329.26	46.25	124.16	13 13 59	513.5	3.16	323.06
110.00	19 48 51	5036.94	34.18	220.26	57.29	89.64	21 12 48	4436.9	33.75	211.05

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE-2.8099 TRA 3.3502 TC3-3.1242 BAU  .8903   SGT 6391.9 SGR  427.1 SG3  361.2   ST  3744.6 SR   270.8 SS  1490.1
 ROE  .2058 RRA  .2208 RC3 -.1832 FAU .03007   RRT  .3435 RRF  .3127 RTF  .9807   CRT -.7602 CRS  .7453 CST -.9997
 FOE-1.8992 FRA 2.4216 FC3-1.2234 BSP  20520   SGB 6406.2 R23 -.0272 R13  .9807   LSA 4035.2 MSA  179.1 SSA   15.1
 BOE 2.8174 BRA 3.3575 BC3 3.1296 FSP  -1234   SG1 6393.6 SG2  401.0 THA   1.32   EL1 3750.2 EL2  175.6 ALF 176.85
```

LAUNCH DATE MAY 21 1967 FLIGHT TIME 208.00 ARRIVAL DATE DEC 15 1967

HELIOCENTRIC CONIC DISTANCE 579.975

```
RL  151.40 LAL   -.00 LOL 239.28 VL  26.607 GAL   7.96 AZL  93.22 HCA 268.70 SMA 126.97 ECC .23560 INC 3.2217 VI  29.428
RP  107.51 LAP   3.22 LOP 147.97 VP  37.732 GAP  10.43 AZP  89.93 TAL 151.95 TAP  60.65 RCA  97.06 APO 156.88 V2  35.249
RC 142.165 GL  -17.94 GP   -5.27 ZAL  45.90 ZAP 163.81 ETS 341.65 ZAE 124.39 ETE 184.25 ZAC 102.96 ETC  13.60 CLP-164.67
```

PLANETOCENTRIC CONIC

```
C3  23.106 VHL  4.807 DLA -22.88 RAL 187.63 RAO 6567.9 VEL 12.020 PTH   2.15 VHP  7.042 DPA   4.81 RAP 163.93 ECC 1.3803
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 25 13	1440.53	3.68	356.58	52.32	118.10	11 49 13	840.5	7.41	349.89
90.00	16 31 56	5701.85	27.61	269.57	60.01	96.56	18 6 58	5101.9	28.23	260.96
100.00	12 29 19	1233.63	1.99	340.44	51.39	119.83	12 49 52	633.6	5.95	333.89
100.00	18 10 31	5383.99	29.53	246.41	60.23	94.88	19 40 15	4784.0	29.89	237.62
110.00	13 2 23	1129.94	-1.96	330.12	48.92	124.13	13 21 13	529.9	2.54	323.92
110.00	19 53 56	5060.44	34.18	222.10	60.50	90.72	21 18 16	4460.4	33.90	212.87

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE-2.9215 TRA 3.5989 TC3-2.8902 BAU  .8942   SGT 6444.0 SGR  420.7 SG3  338.5   ST  3752.9 SR   287.7 SS  1442.9
 ROE  .2309 RRA  .2154 RC3 -.1595 FAU .02685   RRT  .2823 RRF  .2514 RTF  .9804   CRT -.7792 CRS  .7652 CST -.9997
 FOE-1.8293 FRA 2.4022 FC3-1.0060 BSP  20742   SGB 6457.7 R23 -.0276 R13  .9804   LSA 4026.8 MSA  183.1 SSA   14.8
 BOE 2.9306 BRA 3.6054 BC3 2.8946 FSP  -1160   SG1 6445.1 SG2  403.5 THA   1.06   EL1 3759.6 EL2  180.0 ALF 176.57
```

LAUNCH DATE MAY 21 1967 FLIGHT TIME 210.00 ARRIVAL DATE DEC 17 1967

HELIOCENTRIC CONIC DISTANCE 585.607

```
RL  151.40 LAL   -.00 LOL 239.28 VL  26.579 GAL   8.47 AZL  93.28 HCA 271.95 SMA 126.79 ECC .24199 INC 3.2782 VI  29.428
RP  107.52 LAP   3.28 LOP 151.23 VP  37.709 GAP  10.98 AZP  90.11 TAL 150.96 TAP  62.91 RCA  96.11 APO 157.48 V2  35.245
RC 144.295 GL  -17.44 GP   -5.04 ZAL  44.53 ZAP 165.16 ETS 340.62 ZAE 123.97 ETE 184.06 ZAC 101.07 ETC  13.61 CLP-166.02
```

PLANETOCENTRIC CONIC

```
C3  25.163 VHL  5.016 DLA -22.95 RAL 189.11 RAO 6568.0 VEL 12.105 PTH   2.17 VHP  7.347 DPA   4.30 RAP 165.77 ECC 1.4141
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 32 7	1457.98	3.12	357.56	55.11	118.16	11 56 25	858.0	6.86	350.88
90.00	16 36 54	5726.20	27.41	271.33	63.11	97.42	18 12 20	5126.2	28.15	262.74
100.00	12 36 5	1251.52	1.39	341.42	54.14	119.86	12 56 57	651.5	5.35	334.88
100.00	18 15 37	5407.89	29.38	248.17	63.37	95.80	19 45 45	4807.9	29.87	239.40
110.00	13 8 56	1148.53	-2.67	331.09	51.61	124.09	13 28 4	548.5	1.83	324.89
110.00	19 59 15	5083.65	34.14	223.91	63.74	91.79	21 23 59	4483.6	34.01	214.67

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE-3.0314 TRA 3.8678 TC3-2.6530 BAU  .8937   SGT 6487.6 SGR  415.2 SG3  317.5   ST  3750.5 SR   303.3 SS  1396.2
 ROE  .2566 RRA  .2092 RC3 -.1380 FAU .02370   RRT  .2221 RRF  .1918 RTF  .9800   CRT -.7934 CRS  .7799 CST -.9997
 FOE-1.7612 FRA 2.3898 FC3 -.8155 BSP  20845   SGB 6500.9 R23 -.0274 R13  .9800   LSA 4009.1 MSA  187.1 SSA   14.5
 BOE 3.0422 BRA 3.8735 BC3 2.6565 FSP  -1085   SG1 6488.3 SG2  404.8 THA    .82   EL1 3758.3 EL2  184.2 ALF 176.32
```

LAUNCH DATE MAY 21 1967 FLIGHT TIME 212.00 ARRIVAL DATE DEC 19 1967

HELIOCENTRIC CONIC DISTANCE 591.170

```
RL  151.40 LAL   -.00 LOL 239.28 VL  26.552 GAL   9.02 AZL  93.34 HCA 275.19 SMA 126.62 ECC .24889 INC 3.3350 VI  29.428
RP  107.53 LAP   3.32 LOP 154.48 VP  37.685 GAP  11.56 AZP  90.30 TAL 149.98 TAP  65.17 RCA  95.10 APO 158.13 V2  35.240
RC 146.414 GL  -16.92 GP   -4.83 ZAL  43.18 ZAP 166.46 ETS 339.40 ZAE 123.57 ETE 183.89 ZAC  99.15 ETC  13.61 CLP-167.34
```

PLANETOCENTRIC CONIC

```
C3  27.482 VHL  5.242 DLA -22.98 RAL 190.57 RAO 6568.1 VEL 12.201 PTH   2.19 VHP  7.669 DPA   3.75 RAP 167.62 ECC 1.4523
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 38 25	1478.13	2.47	358.68	57.90	118.22	12 3 3	878.1	6.23	352.02
90.00	16 42 15	5749.72	27.19	273.01	66.24	98.24	18 18 4	5149.7	28.05	264.45
100.00	12 42 19	1271.89	.70	342.54	56.91	119.89	13 3 31	671.9	4.67	336.01
100.00	18 21 2	5431.20	29.20	249.88	66.54	96.68	19 51 33	4831.2	29.82	241.13
110.00	13 15 3	1169.24	-3.46	332.17	54.32	124.03	13 34 33	569.2	1.03	325.97
110.00	20 4 47	5106.61	34.08	225.70	67.01	92.85	21 29 54	4506.6	34.10	216.46

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE-3.1490 TRA 4.1489 TC3-2.4286 BAU  .8934   SGT 6526.1 SGR  410.2 SG3  298.1   ST  3746.3 SR   317.2 SS  1354.3
 ROE  .2827 RRA  .2017 RC3 -.1187 FAU .02093   RRT  .1617 RRF  .1323 RTF  .9799   CRT -.8052 CRS  .7924 CST -.9997
 FOE-1.7019 FRA 2.3777 FC3 -.6592 BSP  21053   SGB 6539.0 R23 -.0271 R13  .9799   LSA 3991.6 MSA  190.3 SSA   14.2
 BOE 3.1617 BRA 4.1538 BC3 2.4315 FSP  -1023   SG1 6526.5 SG2  404.8 THA    .58   EL1 3755.0 EL2  187.7 ALF 176.09
```

LAUNCH DATE MAY 21 1967 FLIGHT TIME 214.00 ARRIVAL DATE DEC 21 1967

HELIOCENTRIC CONIC DISTANCE 596.657

RL 151.40 LAL -.00 LOL 239.28 VL 26.525 GAL 9.61 AZL 93.39 HCA 278.44 SMA 126.44 ECC .25635 INC 3.3923 V1 29.428
RP 107.55 LAP 3.36 LOP 157.72 VP 37.661 GAP 12.16 AZP 90.50 TAL 149.00 TAP 67.43 RCA 94.03 APO 158.86 V2 35.234
RC 148.521 GL -16.38 GP -4.65 ZAL 41.87 ZAP 167.72 ETS 337.91 ZAE 123.19 ETE 183.73 ZAC 97.21 ETC 13.62 CLP-168.62

PLANETOCENTRIC CONIC

C3 30.104 VHL 5.487 DLA -22.98 RAL 192.00 RAD 6568.2 VEL 12.308 PTH 2.22 VHP 8.011 DPA 3.15 RAP 169.50 ECC 1.4954

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 44 7	1500.90	1.74	359.96	60.69	118.27	12 9 8	900.9	5.51	353.30
90.00	16 47 57	5772.50	26.96	274.64	69.39	99.02	18 24 9	5172.5	27.93	266.11
100.00	12 48 1	1294.66	-.08	343.79	59.68	119.89	13 9 36	694.7	3.90	337.26
100.00	18 26 44	5453.97	29.01	251.54	69.72	97.54	19 57 38	4854.0	29.75	242.82
110.00	13 20 45	1192.01	-4.32	333.37	57.04	123.94	13 40 37	592.0	.16	327.15
110.00	20 10 29	5129.38	33.99	227.48	70.31	93.90	21 35 58	4529.4	34.15	218.23

DIFFERENTIAL CORRECTIONS
TDE-3.2692 TRA 4.4495 TC3-2.2083 BAU .8897
RDE .3093 RRA .1929 RC3 -.1013 FAU .01828
FDE-1.6466 FRA 2.3702 FC3 -.5258 BSP 21217
BDE 3.2838 BRA 4.4537 BC3 2.2106 FSP -963

MID-COURSE EXECUTION ACCURACY
SGT 6557.5 SGR 405.6 SG3 280.2
RRT .1020 RRF .0738 RTF .9798
SGB 6570.1 R23 -.0266 R13 .9798
SG1 6557.6 SG2 403.5 THA .36

ORBIT DETERMINATION ACCURACY
ST 3735.4 SR 329.6 SS 1314.7
CRT -.8147 CRS .8024 CST -.9997
LSA 3968.9 MSA 193.0 SSA 13.8
EL1 3745.0 EL2 190.6 ALF 175.88

LAUNCH DATE MAY 21 1967 FLIGHT TIME 216.00 ARRIVAL DATE DEC 23 1967

HELIOCENTRIC CONIC DISTANCE 602.057

RL 151.40 LAL -.00 LOL 239.28 VL 26.497 GAL 10.23 AZL 93.45 HCA 281.68 SMA 126.27 ECC .26444 INC 3.4506 V1 29.428
RP 107.59 LAP 3.38 LOP 160.97 VP 37.635 GAP 12.80 AZP 90.70 TAL 148.03 TAP 69.70 RCA 92.88 APO 159.66 V2 35.228
RC 150.615 GL -15.84 GP -4.48 ZAL 40.60 ZAP 168.95 ETS 336.10 ZAE 122.82 ETE 183.58 ZAC 95.26 ETC 13.63 CLP-169.88

PLANETOCENTRIC CONIC

C3 33.078 VHL 5.751 DLA -22.95 RAL 193.39 RAD 6568.3 VEL 12.428 PTH 2.25 VHP 8.375 DPA 2.53 RAP 171.38 ECC 1.5444

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 49 13	1526.20	.92	1.37	63.49	118.30	12 14 39	926.2	4.70	354.72
90.00	16 53 57	5794.59	26.71	276.21	72.55	99.77	18 30 31	5194.6	27.79	267.71
100.00	12 53 11	1319.75	-.93	345.17	62.46	119.88	13 15 11	719.7	3.05	338.64
100.00	18 32 40	5476.27	28.80	253.17	72.93	98.37	20 3 56	4876.3	29.66	244.47
110.00	13 26 1	1216.78	-5.26	334.67	59.76	123.82	13 46 18	616.8	-.78	328.45
110.00	20 16 19	5152.01	33.87	229.23	73.62	94.93	21 42 11	4552.0	34.18	220.00

DIFFERENTIAL CORRECTIONS
TDE-3.3938 TRA 4.7704 TC3-1.9949 BAU .8830
RDE .3364 RRA .1827 RC3 -.0857 FAU .01580
FDE-1.5959 FRA 2.3670 FC3 -.4135 BSP 21366
BDE 3.4105 BRA 4.7739 BC3 1.9968 FSP -908

MID-COURSE EXECUTION ACCURACY
SGT 6582.6 SGR 401.4 SG3 263.6
RRT .0428 RRF .0164 RTF .9799
SGB 6594.9 R23 -.0257 R13 .9799
SG1 6582.7 SG2 401.0 THA .15

ORBIT DETERMINATION ACCURACY
ST 3719.3 SR 340.4 SS 1277.6
CRT -.8225 CRS .8107 CST -.9997
LSA 3942.4 MSA 195.3 SSA 13.5
EL1 3729.8 EL2 193.1 ALF 175.68

LAUNCH DATE MAY 21 1967 FLIGHT TIME 218.00 ARRIVAL DATE DEC 25 1967

HELIOCENTRIC CONIC DISTANCE 607.357

RL 151.40 LAL -.00 LOL 239.28 VL 26.470 GAL 10.91 AZL 93.51 HCA 284.92 SMA 126.09 ECC .27321 INC 3.5102 V1 29.428
RP 107.59 LAP 3.39 LOP 164.22 VP 37.610 GAP 13.47 AZP 90.90 TAL 147.07 TAP 71.99 RCA 91.64 APO 160.54 V2 35.221
RC 152.696 GL -15.28 GP -4.32 ZAL 39.36 ZAP 170.14 ETS 333.85 ZAE 122.46 ETE 183.44 ZAC 93.28 ETC 13.64 CLP-171.13

PLANETOCENTRIC CONIC

C3 36.462 VHL 6.038 DLA -22.89 RAL 194.74 RAD 6568.4 VEL 12.563 PTH 2.28 VHP 8.762 DPA 1.88 RAP 173.27 ECC 1.6001

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 53 43	1553.91	.03	2.91	66.28	118.32	12 19 37	953.9	3.81	356.28
90.00	17 0 13	5816.05	26.45	277.73	75.73	100.49	18 37 9	5216.1	27.63	269.26
100.00	12 57 49	1347.05	-1.85	346.66	65.23	119.84	13 20 16	747.1	2.13	340.14
100.00	18 38 49	5498.14	28.57	254.75	76.15	99.18	20 10 27	4898.1	29.55	246.09
110.00	13 30 51	1243.45	-6.27	336.07	62.49	123.67	13 51 35	643.5	-1.80	329.84
110.00	20 22 15	5174.51	33.72	230.97	76.95	95.95	21 48 30	4574.5	34.18	221.76

DIFFERENTIAL CORRECTIONS
TDE-3.5235 TRA 5.1131 TC3-1.7886 BAU .8726
RDE .3642 RRA .1707 RC3 -.0720 FAU .01344
FDE-1.5497 FRA 2.3680 FC3 -.3191 BSP 21490
BDE 3.5423 BRA 5.1160 BC3 1.7901 FSP -856

MID-COURSE EXECUTION ACCURACY
SGT 6601.3 SGR 397.3 SG3 248.3
RRT -.0159 RRF -.0401 RTF .9800
SGB 6613.3 R23 .0245 R13 -.9800
SG1 6601.3 SG2 397.3 THA 179.95

ORBIT DETERMINATION ACCURACY
ST 3698.4 SR 349.6 SS 1243.4
CRT -.8290 CRS .8177 CST -.9997
LSA 3912.5 MSA 196.9 SSA 13.2
EL1 3709.7 EL2 194.9 ALF 175.51

LAUNCH DATE MAY 21 1967 FLIGHT TIME 220.00 ARRIVAL DATE DEC 27 1967

HELIOCENTRIC CONIC DISTANCE 612.542

RL 151.40 LAL -.00 LOL 239.28 VL 26.443 GAL 11.63 AZL 93.57 HCA 288.16 SMA 125.92 ECC .28276 INC 3.5717 V1 29.428
RP 107.62 LAP 3.39 LOP 167.47 VP 37.583 GAP 14.19 AZP 91.11 TAL 146.14 TAP 74.30 RCA 90.32 APO 161.53 V2 35.214
RC 154.762 GL -14.72 GP -4.18 ZAL 38.17 ZAP 171.30 ETS 330.99 ZAE 122.10 ETE 183.30 ZAC 91.31 ETC 13.66 CLP-172.36

PLANETOCENTRIC CONIC

C3 40.325 VHL 6.350 DLA -22.80 RAL 196.05 RAD 6568.6 VEL 12.716 PTH 2.31 VHP 9.178 DPA 1.20 RAP 175.16 ECC 1.6636

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 57 38	1583.92	-.94	4.59	69.06	118.30	12 24 2	983.9	2.85	357.96
90.00	17 6 42	5836.93	26.19	279.20	78.92	101.18	18 43 59	5236.9	27.46	270.77
100.00	13 1 55	1376.48	-2.85	348.28	68.00	119.77	13 24 51	776.5	1.13	341.76
100.00	18 45 7	5519.61	28.33	256.30	79.37	99.96	20 17 7	4919.6	29.41	247.67
110.00	13 35 15	1271.96	-7.34	337.58	65.22	123.48	13 56 27	672.0	-2.89	331.33
110.00	20 28 16	5196.89	33.55	232.70	80.27	96.96	21 54 53	4596.9	34.15	223.51

DIFFERENTIAL CORRECTIONS
TDE-3.6552 TRA 5.4838 TC3-1.5864 BAU .8559
RDE .3925 RRA .1568 RC3 -.0599 FAU .01110
FDE-1.5059 FRA 2.3753 FC3 -.2383 BSP 21503
BDE 3.6762 BRA 5.4861 BC3 1.5875 FSP -804

MID-COURSE EXECUTION ACCURACY
SGT 6613.8 SGR 393.4 SG3 234.1
RRT -.0734 RRF -.0951 RTF .9803
SGB 6625.5 R23 .0229 R13 -.9803
SG1 6613.8 SG2 392.4 THA 179.75

ORBIT DETERMINATION ACCURACY
ST 3670.5 SR 357.2 SS 1211.1
CRT -.8343 CRS .8233 CST -.9997
LSA 3876.5 MSA 198.2 SSA 12.8
EL1 3682.6 EL2 196.2 ALF 175.35

LAUNCH DATE MAY 22 1967 FLIGHT TIME 70.00 ARRIVAL DATE JUL 31 1967

HELIOCENTRIC CONIC DISTANCE 140.745

RL 151.43 LAL -.00 LOL 240.24 VL 18.543 GAL 13.25 AZL 92.42 HCA 48.33 SMA 94.19 ECC .63435 INC 2.4205 V1 29.423
RP 108.89 LAP -1.81 LOP 288.55 VP 32.073 GAP -38.50 AZP 91.61 TAL 172.07 TAP 220.40 RCA 34.44 APO 153.94 V2 34.802
RC 59.876 GL -3.62 GP 1.42 ZAL 71.06 ZAP 25.86 ETS 184.74 ZAE 150.78 ETE 165.38 ZAC 129.00 ETC 21.46 CLP 25.83

PLANETOCENTRIC CONIC

C3 145.590 VHL 12.066 DLA .94 RAL 168.67 RAD 6570.6 VEL 16.338 PTH 2.86 VHP 22.288 DPA 20.65 RAP 138.13 ECC 3.3961

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 33 3	2708.60	-27.70	75.18	63.97	96.11	7 18 12	2108.6	-26.57	66.70
90.00	18 44 58	5294.60	27.21	239.96	63.03	81.86	20 13 12	4694.6	25.81	231.58
100.00	7 54 50	2444.82	-29.23	55.59	63.78	96.56	8 35 35	1844.8	-28.01	47.00
100.00	20 5 52	5033.62	28.73	220.52	62.78	81.37	21 29 46	4433.6	27.24	212.03
110.00	9 4 4	2228.08	-33.37	38.53	63.16	97.88	9 41 13	1628.1	-31.92	29.60
110.00	21 13 7	4823.12	32.85	203.75	61.99	79.97	22 33 30	4223.1	31.12	194.96

DIFFERENTIAL CORRECTIONS
TDE .6127 TRA-1.4979 TC3 -.1029 BAU .2055
RDE -.8353 RRA -.4371 RC3 .0236 FAU .01412
FDE -.3223 FRA .5778 FC3 -.0840 BSP 2077
BDE 1.0359 BRA 1.5604 BC3 .1056 FSP -67

MID-COURSE EXECUTION ACCURACY
SGT 807.7 SGR 451.3 SG3 32.3
RRT .0497 RRF -.0463 RTF -.6273
SGB 925.2 R23 -.0010 R13 -.6274
SG1 808.2 SG2 450.5 THA 2.31

ORBIT DETERMINATION ACCURACY
ST 360.9 SR 401.5 SS 334.8
CRT -.7047 CRS -.7959 CST .9888
LSA 595.1 MSA 221.9 SSA 13.9
EL1 499.0 EL2 206.0 ALF 130.69

LAUNCH DATE MAY 22 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 2 1967

HELIOCENTRIC CONIC DISTANCE 146.786

RL 151.43 LAL -.00 LOL 240.24 VL 19.184 GAL 12.73 AZL 92.51 HCA 51.50 SMA 95.84 ECC .60719 INC 2.5096 V1 29.423
RP 108.90 LAP -1.96 LOP 291.71 VP 32.442 GAP -36.67 AZP 91.56 TAL 171.45 TAP 222.95 RCA 37.65 APO 154.03 V2 34.797
RC 57.979 GL -4.11 GP 1.47 ZAL 70.11 ZAP 24.34 ETS 184.97 ZAE 151.70 ETE 163.80 ZAC 127.45 ETC 20.94 CLP 24.30

PLANETOCENTRIC CONIC

C3 130.866 VHL 11.440 DLA .11 RAL 169.37 RAD 6570.4 VEL 15.881 PTH 2.81 VHP 21.353 DPA 20.25 RAP 139.82 ECC 3.1537

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 41 57	2663.06	-27.33	71.90	62.73	97.71	7 26 20	2063.1	-25.98	63.50
90.00	18 41 38	5300.14	27.27	240.36	62.62	82.05	20 9 59	4700.1	25.89	231.96
100.00	8 3 21	2400.51	-28.84	52.36	62.49	98.22	8 43 21	1800.5	-27.40	43.85
100.00	20 2 56	5037.93	28.77	220.83	62.37	81.53	21 26 54	4437.9	27.30	212.34
110.00	9 11 42	2186.52	-32.94	35.36	61.74	99.71	9 48 9	1586.5	-31.25	26.54
110.00	21 11 3	4824.68	32.87	203.87	61.60	80.04	22 31 28	4224.7	31.15	195.07

DIFFERENTIAL CORRECTIONS
TDE .6133 TRA-1.4932 TC3 -.1067 BAU .1926
RDE -.7978 RRA -.4210 RC3 .0273 FAU .01440
FDE -.3380 FRA .5967 FC3 -.0952 BSP 2230
BDE 1.0063 BRA 1.5514 BC3 .1101 FSP -74

MID-COURSE EXECUTION ACCURACY
SGT 844.5 SGR 456.1 SG3 35.1
RRT .0512 RRF -.0484 RTF -.6473
SGB 959.8 R23 -.0017 R13 -.6474
SG1 845.0 SG2 455.3 THA 2.23

ORBIT DETERMINATION ACCURACY
ST 380.5 SR 404.6 SS 353.7
CRT -.7053 CRS -.7990 CST .9883
LSA 617.9 MSA 226.8 SSA 14.1
EL1 513.0 EL2 212.7 ALF 132.51

LAUNCH DATE MAY 22 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 4 1967

HELIOCENTRIC CONIC DISTANCE 152.905

RL 151.43 LAL -.00 LOL 240.24 VL 19.782 GAL 12.20 AZL 92.59 HCA 54.66 SMA 97.48 ECC .58083 INC 2.5912 V1 29.423
RP 108.92 LAP -2.11 LOP 294.87 VP 32.795 GAP -34.95 AZP 91.50 TAL 170.86 TAP 225.52 RCA 40.86 APO 154.09 V2 34.793
RC 56.154 GL -4.62 GP 1.52 ZAL 69.23 ZAP 22.83 ETS 185.25 ZAE 152.74 ETE 161.99 ZAC 125.87 ETC 20.45 CLP 22.78

PLANETOCENTRIC CONIC

C3 117.699 VHL 10.849 DLA -.71 RAL 169.99 RAD 6570.2 VEL 15.461 PTH 2.76 VHP 20.454 DPA 19.84 RAP 141.52 ECC 2.9370

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 50 32	2616.67	-26.86	68.59	61.37	99.31	7 34 9	2016.7	-25.30	60.27
90.00	18 38 1	5304.84	27.31	240.69	62.07	82.21	20 6 26	4704.8	25.95	232.29
100.00	8 11 33	2355.35	-28.36	49.09	61.09	99.88	8 50 48	1755.4	-26.70	40.68
100.00	19 59 42	5041.39	28.81	221.08	61.83	81.66	21 23 43	4441.4	27.36	212.58
110.00	9 19 2	2144.11	-32.41	32.16	60.20	101.53	9 54 46	1544.1	-30.48	23.48
110.00	21 8 42	4825.40	32.88	203.92	61.06	80.07	22 29 7	4225.4	31.16	195.12

DIFFERENTIAL CORRECTIONS
TDE .6143 TRA-1.4877 TC3 -.1096 BAU .1794
RDE -.7608 RRA -.4047 RC3 .0315 FAU .01470
FDE -.3545 FRA .6157 FC3 -.1082 BSP 2393
BDE .9778 BRA 1.5418 BC3 .1140 FSP -83

MID-COURSE EXECUTION ACCURACY
SGT 882.7 SGR 460.2 SG3 38.2
RRT .0527 RRF -.0506 RTF -.6667
SGB 995.5 R23 -.0025 R13 -.6669
SG1 883.2 SG2 459.4 THA 2.16

ORBIT DETERMINATION ACCURACY
ST 401.1 SR 406.9 SS 373.3
CRT -.7062 CRS -.8023 CST .9878
LSA 642.0 MSA 231.2 SSA 14.3
EL1 527.7 EL2 219.0 ALF 134.41

LAUNCH DATE MAY 22 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 6 1967

HELIOCENTRIC CONIC DISTANCE 159.098

RL 151.43 LAL -.00 LOL 240.24 VL 20.339 GAL 11.69 AZL 92.67 HCA 57.82 SMA 99.10 ECC .55531 INC 2.6666 V1 29.423
RP 108.93 LAP -2.26 LOP 298.03 VP 33.131 GAP -33.31 AZP 91.42 TAL 170.29 TAP 228.12 RCA 44.07 APO 154.14 V2 34.790
RC 54.407 GL -5.17 GP 1.58 ZAL 68.42 ZAP 21.33 ETS 185.59 ZAE 153.88 ETE 159.90 ZAC 124.28 ETC 19.99 CLP 21.28

PLANETOCENTRIC CONIC

C3 105.916 VHL 10.292 DLA -1.54 RAL 170.53 RAD 6570.0 VEL 15.075 PTH 2.71 VHP 19.588 DPA 19.41 RAP 143.22 ECC 2.7431

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 58 50	2569.43	-26.30	65.24	59.91	100.89	7 41 40	1969.4	-24.53	57.02
90.00	18 34 5	5308.78	27.35	240.98	61.38	82.35	20 2 33	4708.8	26.00	232.57
100.00	8 19 28	2309.35	-27.77	45.79	59.59	101.52	8 57 57	1709.3	-25.90	37.49
100.00	19 56 8	5044.10	28.84	221.28	61.14	81.76	21 20 12	4444.1	27.40	212.77
110.00	9 26 4	2100.86	-31.77	28.95	58.57	103.33	10 1 5	1500.9	-29.61	20.41
110.00	21 6 1	4825.35	32.88	203.92	60.39	80.07	22 26 26	4225.4	31.16	195.12

DIFFERENTIAL CORRECTIONS
TDE .6129 TRA-1.4839 TC3 -.1125 BAU .1673
RDE -.7245 RRA -.3883 RC3 .0361 FAU .01503
FDE -.3714 FRA .6351 FC3 -.1229 BSP 2501
BDE .9490 BRA 1.5339 BC3 .1181 FSP -91

MID-COURSE EXECUTION ACCURACY
SGT 923.6 SGR 463.7 SG3 41.6
RRT .0558 RRF -.0533 RTF -.6844
SGB 1033.4 R23 -.0024 R13 -.6845
SG1 924.1 SG2 462.7 THA 2.14

ORBIT DETERMINATION ACCURACY
ST 421.8 SR 408.5 SS 393.6
CRT -.7054 CRS -.8053 CST .9869
LSA 666.4 MSA 235.5 SSA 14.6
EL1 542.3 EL2 225.3 ALF 136.30

LAUNCH DATE MAY 22 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 8 1967

HELIOCENTRIC CONIC DISTANCE 165.358

```
RL  151.43 LAL   -.00 LOL 240.24 VL  20.858 GAL  11.17 AZL  92.74 HCA  60.98 SMA 100.71 ECC .53068 INC 2.7370 V1  29.423
RP  108.93 LAP  -2.39 LOP 301.19 VP  33.449 GAP -31.74 AZP  91.33 TAL 169.76 TAP 230.74 RCA  47.27 APO 154.16 V2  34.787
RC  52.748 GL   -5.74 GP    1.64 ZAL  67.69 ZAP  19.85 ETS 186.00 ZAE 155.13 ETE 157.46 ZAC 122.68 ETC  19.54 CLP  19.79
```

PLANETOCENTRIC CONIC

```
C3  95.364 VHL  9.765 DLA  -2.37 RAL 171.00 RAD 6569.9 VEL 14.721 PTH   2.66 VHP 18.754 DPA  18.97 RAP 144.93 ECC 2.5694
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 6 51	2521.35	-25.64	61.88	58.36	102.45	7 48 52	1921.4	-23.67	53.77
90.00	18 29 47	5312.08	27.38	241.21	60.55	82.47	19 58 19	4712.1	26.05	232.80
100.00	8 27 5	2262.51	-27.09	42.48	57.99	103.14	9 4 48	1662.5	-25.01	34.29
100.00	19 52 14	5046.15	28.86	221.43	60.32	81.84	21 16 20	4446.2	27.43	212.92
110.00	9 32 48	2056.80	-31.03	25.73	56.85	105.11	10 7 5	1456.8	-28.65	17.34
110.00	21 3 0	4824.63	32.87	203.87	59.58	80.04	22 23 25	4224.6	31.15	195.07

DIFFERENTIAL CORRECTIONS

```
TDE  .6140 TRA-1.4767 TC3 -.1134 BAU  .1539
RDE -.6888 RRA -.3718 RC3  .0414 FAU .01541
FDE -.3895 FRA  .6544 FC3 -.1399 BSP   2672
BDE  .9227 BRA 1.5228 BC3  .1207 FSP   -101
```

MID-COURSE EXECUTION ACCURACY

```
SGT  964.8 SGR  466.4 SG3   45.3
RRT  .0574 RRF -.0557 RTF -.7024
SGB 1071.6 R23 -.0031 R13 -.7025
SG1  965.3 SG2  465.4 THA   2.07
```

ORBIT DETERMINATION ACCURACY

```
ST   444.4 SR   409.4 SS   414.9
CRT -.7066 CRS -.8087 CST  .9864
LSA  692.9 MSA  238.7 SSA   14.8
EL1  558.6 EL2  230.5 ALF 138.32
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 10 1967

HELIOCENTRIC CONIC DISTANCE 171.680

```
RL  151.43 LAL   -.00 LOL 240.24 VL  21.343 GAL  10.67 AZL  92.80 HCA  64.14 SMA 102.30 ECC .50697 INC 2.8031 V1  29.423
RP  108.94 LAP  -2.52 LOP 304.35 VP  33.752 GAP -30.26 AZP  91.22 TAL 169.25 TAP 233.40 RCA  50.44 APO 154.16 V2  34.786
RC  51.183 GL   -6.35 GP    1.70 ZAL  67.03 ZAP  18.38 ETS 186.50 ZAE 156.48 ETE 154.60 ZAC 121.06 ETC  19.12 CLP  18.31
```

PLANETOCENTRIC CONIC

```
C3  85.912 VHL  9.269 DLA  -3.20 RAL 171.39 RAD 6569.7 VEL 14.396 PTH   2.62 VHP 17.950 DPA  18.52 RAP 146.64 ECC 2.4139
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 14 35	2472.46	-24.88	58.50	56.71	103.98	7 55 47	1872.5	-22.71	50.50
90.00	18 25 8	5314.87	27.40	241.42	59.60	82.56	19 53 43	4714.9	26.09	232.99
100.00	8 34 26	2214.88	-26.31	39.15	56.31	104.72	9 11 21	1614.9	-24.03	31.10
100.00	19 47 58	5047.68	28.87	221.54	59.37	81.89	21 12 6	4447.7	27.45	213.02
110.00	9 39 15	2011.96	-30.19	22.51	55.06	106.84	10 12 47	1412.0	-27.59	14.28
110.00	20 59 39	4823.36	32.85	203.77	58.63	79.98	22 20 2	4223.4	31.12	194.97

DIFFERENTIAL CORRECTIONS

```
TDE  .6153 TRA-1.4686 TC3 -.1130 BAU  .1406
RDE -.6537 RRA -.3553 RC3  .0472 FAU .01582
FDE -.4086 FRA  .6738 FC3 -.1594 BSP   2839
BDE  .8977 BRA 1.5110 BC3  .1225 FSP   -112
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1007.6 SGR  468.3 SG3   49.3
RRT  .0593 RRF -.0583 RTF -.7196
SGB 1111.1 R23 -.0040 R13 -.7198
SG1 1008.1 SG2  467.3 THA   2.01
```

ORBIT DETERMINATION ACCURACY

```
ST   468.1 SR   409.5 SS   437.3
CRT -.7081 CRS -.8121 CST  .9859
LSA  720.8 MSA  241.4 SSA   15.0
EL1  575.8 EL2  235.1 ALF 140.37
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 12 1967

HELIOCENTRIC CONIC DISTANCE 178.060

```
RL  151.43 LAL   -.00 LOL 240.24 VL  21.794 GAL  10.17 AZL  92.87 HCA  67.31 SMA 103.86 ECC .48419 INC 2.8658 V1  29.423
RP  108.94 LAP  -2.64 LOP 307.52 VP  34.038 GAP -28.84 AZP  91.11 TAL 168.78 TAP 236.08 RCA  53.57 APO 154.15 V2  34.784
RC  49.723 GL   -7.00 GP    1.78 ZAL  66.46 ZAP  16.93 ETS 187.13 ZAE 157.90 ETE 151.20 ZAC 119.43 ETC  18.72 CLP  16.83
```

PLANETOCENTRIC CONIC

```
C3  77.443 VHL  8.800 DLA  -4.03 RAL 171.69 RAD 6569.5 VEL 14.099 PTH   2.57 VHP 17.175 DPA  18.05 RAP 148.35 ECC 2.2745
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 22 3	2422.79	-24.02	55.12	54.99	105.47	8 2 25	1822.8	-21.66	47.24
90.00	18 20 6	5317.29	27.42	241.59	58.52	82.65	19 48 43	4717.3	26.12	233.16
100.00	8 41 30	2166.49	-25.43	35.83	54.55	106.26	9 17 36	1566.5	-22.96	27.90
100.00	19 43 20	5048.82	28.88	221.62	58.30	81.94	21 7 28	4448.8	27.46	213.11
110.00	9 45 24	1966.41	-29.25	19.29	53.20	108.53	10 18 11	1366.4	-26.44	11.24
110.00	20 55 54	4821.67	32.83	203.64	57.56	79.91	22 16 16	4221.7	31.09	194.85

DIFFERENTIAL CORRECTIONS

```
TDE  .6169 TRA-1.4591 TC3 -.1108 BAU  .1274
RDE -.6193 RRA -.3389 RC3  .0537 FAU .01628
FDE -.4288 FRA  .6934 FC3 -.1820 BSP   3015
BDE  .8742 BRA 1.4980 BC3  .1231 FSP   -124
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1051.8 SGR  469.5 SG3   53.6
RRT  .0612 RRF -.0611 RTF -.7362
SGB 1151.9 R23 -.0049 R13 -.7363
SG1 1052.3 SG2  468.4 THA   1.95
```

ORBIT DETERMINATION ACCURACY

```
ST   492.9 SR   408.7 SS   460.9
CRT -.7100 CRS -.8157 CST  .9854
LSA  750.3 MSA  243.4 SSA   15.1
EL1  594.1 EL2  238.8 ALF 142.44
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 84.00 ARRIVAL DATE AUG 14 1967

HELIOCENTRIC CONIC DISTANCE 184.492

```
RL  151.43 LAL   -.00 LOL 240.24 VL  22.215 GAL   9.69 AZL  92.93 HCA  70.47 SMA 105.39 ECC .46237 INC 2.9256 V1  29.423
RP  108.94 LAP  -2.76 LOP 310.68 VP  34.309 GAP -27.48 AZP  90.98 TAL 168.34 TAP 238.81 RCA  56.66 APO 154.11 V2  34.784
RC  48.377 GL   -7.69 GP    1.86 ZAL  65.96 ZAP  15.47 ETS 187.91 ZAE 159.37 ETE 147.11 ZAC 117.79 ETC  18.34 CLP  15.37
```

PLANETOCENTRIC CONIC

```
C3  69.857 VHL  8.358 DLA  -4.87 RAL 171.91 RAD 6569.3 VEL 13.828 PTH   2.53 VHP 16.427 DPA  17.58 RAP 150.06 ECC 2.1497
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 29 15	2372.39	-23.06	51.73	53.20	106.91	8 8 47	1772.4	-20.53	43.98
90.00	18 14 39	5319.49	27.44	241.75	57.32	82.72	19 43 18	4719.5	26.15	233.32
100.00	8 48 18	2117.38	-24.45	32.51	52.73	107.75	9 23 35	1517.4	-21.80	24.72
100.00	19 38 17	5049.73	28.89	221.69	57.10	81.97	21 2 26	4449.7	27.48	213.17
110.00	9 51 17	1920.18	-28.21	16.10	51.29	110.16	10 23 17	1320.2	-25.20	8.22
110.00	20 51 47	4819.69	32.81	203.49	56.37	79.82	22 12 6	4219.7	31.06	194.71

DIFFERENTIAL CORRECTIONS

```
TDE  .6188 TRA-1.4484 TC3 -.1064 BAU  .1146
RDE -.5857 RRA -.3226 RC3  .0610 FAU .01679
FDE -.4504 FRA  .7132 FC3 -.2081 BSP   3198
BDE  .8520 BRA 1.4839 BC3  .1227 FSP   -137
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1097.5 SGR  470.0 SG3   58.4
RRT  .0634 RRF -.0642 RTF -.7521
SGB 1193.9 R23 -.0058 R13 -.7522
SG1 1098.0 SG2  468.8 THA   1.90
```

ORBIT DETERMINATION ACCURACY

```
ST   519.0 SR   407.0 SS   485.7
CRT -.7122 CRS -.8195 CST  .9849
LSA  781.5 MSA  244.7 SSA   15.3
EL1  613.7 EL2  241.6 ALF 144.51
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 86.00 ARRIVAL DATE AUG 16 1967

HELIOCENTRIC CONIC DISTANCE 190.972

RL	151.43	LAL	-.00	LOL	240.24	VL	22.608	GAL	9.22	AZL	92.98	HCA	73.63	SMA	106.88	ECC	.44151	INC	2.9832	V1	29.423
RP	108.94	LAP	-2.86	LOP	313.84	VP	34.564	GAP	-26.18	AZP	90.84	TAL	167.95	TAP	241.57	RCA	59.69	APO	154.07	V2	34.784
RC	47.155	GL	-8.41	GP	1.94	ZAL	65.55	ZAP	14.03	ETS	188.89	ZAE	160.86	ETE	142.15	ZAC	116.15	ETC	17.98	CLP	13.90

PLANETOCENTRIC CONIC

C3	63.062	VHL	7.941	DLA	-5.72	RAL	172.04	RAD	6569.2	VEL	13.580	PTH	2.48	VHP	15.706	DPA	17.11	RAP	151.76	ECC	2.0378

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 36 12	2321.30	-22.01	48.36	51.35	108.28	8 14 53	1721.3	-19.31	40.73
90.00	18 8 45	5321.66	27.46	241.90	56.01	82.80	19 37 27	4721.7	26.18	233.47
100.00	8 54 50	2067.62	-23.38	29.20	50.85	109.18	9 29 17	1467.6	-20.55	21.55
100.00	19 32 48	5050.57	28.90	221.75	55.79	82.00	20 56 59	4450.6	27.49	213.23
110.00	9 56 53	1873.37	-27.07	12.94	49.33	111.72	10 28 6	1273.4	-23.88	5.23
110.00	20 47 15	4817.59	32.78	203.33	55.06	79.73	22 7 32	4217.6	31.02	194.56

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY			ORBIT DETERMINATION ACCURACY		
TDE	.6189	TRA	-1.4386	TC3	-.1011	BAU	.1032	SGT 1146.0 SGR 469.6 SG3 63.6	ST	545.3	SR 404.4 SS 511.7
RDE	-.5529	RRA	-.3066	RC3	.0690	FAU	.01734	RRT .0673 RRF -.0679 RTF -.7661	CRT	-.7131	CRS -.8231 CST .9841
FDE	-.4733	FRA	.7336	FC3	-.2380	BSP	3327	SGB 1238.5 R23 -.0060 R13 -.7663	LSA	813.7	MSA 245.8 SSA 15.5
BDE	.8298	BRA	1.4709	BC3	.1224	FSP	-151	SG1 1146.5 SG2 468.3 THA 1.90	EL1	633.5	EL2 244.1 ALF 146.52

LAUNCH DATE MAY 22 1967 FLIGHT TIME 88.00 ARRIVAL DATE AUG 18 1967

HELIOCENTRIC CONIC DISTANCE 197.494

RL	151.43	LAL	-.00	LOL	240.24	VL	22.974	GAL	8.76	AZL	93.04	HCA	76.79	SMA	108.33	ECC	.42161	INC	3.0389	V1	29.423
RP	108.94	LAP	-2.96	LOP	317.01	VP	34.806	GAP	-24.93	AZP	90.70	TAL	167.59	TAP	244.38	RCA	62.66	APO	154.01	V2	34.785
RC	46.068	GL	-9.18	GP	2.04	ZAL	65.22	ZAP	12.59	ETS	190.17	ZAE	162.30	ETE	136.11	ZAC	114.50	ETC	17.64	CLP	12.43

PLANETOCENTRIC CONIC

C3	56.978	VHL	7.548	DLA	-6.58	RAL	172.09	RAD	6569.0	VEL	13.354	PTH	2.44	VHP	15.010	DPA	16.63	RAP	153.46	ECC	1.9377

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 42 54	2269.58	-20.86	45.00	49.46	109.59	8 20 44	1669.6	-18.00	37.49
90.00	18 2 24	5323.98	27.48	242.07	54.59	82.88	19 31 8	4724.0	26.21	233.63
100.00	9 1 7	2017.28	-22.22	25.91	48.93	110.53	9 34 44	1417.3	-19.22	18.40
100.00	19 26 52	5051.52	28.91	221.82	54.38	82.04	20 51 4	4451.5	27.50	213.30
110.00	10 2 12	1826.03	-25.84	9.81	47.34	113.20	10 32 38	1226.0	-22.47	2.27
110.00	20 42 17	4815.52	32.76	203.18	53.65	79.64	22 2 32	4215.5	30.98	194.41

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY			ORBIT DETERMINATION ACCURACY		
TDE	.6213	TRA	-1.4251	TC3	-.0919	BAU	.0917	SGT 1194.7 SGR 468.4 SG3 69.4	ST	573.7	SR 400.9 SS 539.5
RDE	-.5208	RRA	-.2909	RC3	.0778	FAU	.01796	RRT .0702 RRF -.0716 RTF -.7803	CRT	-.7159	CRS -.8271 CST .9837
FDE	-.4983	FRA	.7541	FC3	-.2729	BSP	3508	SGB 1283.3 R23 -.0070 R13 -.7805	LSA	848.7	MSA 245.7 SSA 15.7
BDE	.8107	BRA	1.4545	BC3	.1204	FSP	-167	SG1 1195.3 SG2 467.1 THA 1.86	EL1	655.7	EL2 244.9 ALF 148.55

LAUNCH DATE MAY 22 1967 FLIGHT TIME 90.00 ARRIVAL DATE AUG 20 1967

HELIOCENTRIC CONIC DISTANCE 204.054

RL	151.43	LAL	-.00	LOL	240.24	VL	23.314	GAL	8.31	AZL	93.09	HCA	79.95	SMA	109.75	ECC	.40265	INC	3.0932	V1	29.423
RP	108.93	LAP	-3.05	LOP	320.17	VP	35.033	GAP	-23.74	AZP	90.54	TAL	167.27	TAP	247.22	RCA	65.56	APO	153.94	V2	34.787
RC	45.125	GL	-9.99	GP	2.15	ZAL	64.99	ZAP	11.16	ETS	191.84	ZAE	163.62	ETE	128.75	ZAC	112.85	ETC	17.31	CLP	10.96

PLANETOCENTRIC CONIC

C3	51.534	VHL	7.179	DLA	-7.44	RAL	172.04	RAD	6568.9	VEL	13.149	PTH	2.40	VHP	14.338	DPA	16.14	RAP	155.15	ECC	1.8481

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 49 23	2217.31	-19.63	41.65	47.52	110.82	8 26 20	1617.3	-16.63	34.27
90.00	17 55 33	5326.64	27.50	242.26	53.08	82.98	19 24 19	4726.6	26.24	233.82
100.00	9 7 9	1966.42	-20.97	22.65	46.97	111.81	9 39 56	1366.4	-17.82	15.27
100.00	19 20 27	5052.76	28.92	221.91	52.87	82.08	20 44 40	4452.8	27.52	213.38
110.00	10 7 15	1778.27	-24.52	6.72	45.32	114.60	10 36 53	1178.3	-20.99	359.35
110.00	20 36 51	4813.67	32.74	203.04	52.15	79.56	21 57 5	4213.7	30.95	194.27

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY			ORBIT DETERMINATION ACCURACY		
TDE	.6246	TRA	-1.4100	TC3	-.0793	BAU	.0814	SGT 1244.8 SGR 466.5 SG3 75.7	ST	603.7	SR 396.3 SS 569.1
RDE	-.4895	RRA	-.2755	RC3	.0875	FAU	.01865	RRT .0734 RRF -.0759 RTF -.7940	CRT	-.7194	CRS -.8312 CST .9833
FDE	-.5254	FRA	.7749	FC3	-.3133	BSP	3696	SGB 1329.3 R23 -.0082 R13 -.7941	LSA	886.1	MSA 244.8 SSA 15.8
BDE	.7935	BRA	1.4367	BC3	.1181	FSP	-185	SG1 1245.3 SG2 465.0 THA 1.83	EL1	679.5	EL2 244.6 ALF 150.53

LAUNCH DATE MAY 22 1967 FLIGHT TIME 92.00 ARRIVAL DATE AUG 22 1967

HELIOCENTRIC CONIC DISTANCE 210.648

RL	151.43	LAL	-.00	LOL	240.24	VL	23.631	GAL	7.88	AZL	93.15	HCA	83.11	SMA	111.11	ECC	.38465	INC	3.1464	V1	29.423
RP	108.93	LAP	-3.12	LOP	323.34	VP	35.247	GAP	-22.60	AZP	90.38	TAL	167.00	TAP	250.11	RCA	68.37	APO	153.85	V2	34.790
RC	44.335	GL	-10.84	GP	2.26	ZAL	64.84	ZAP	9.74	ETS	194.10	ZAE	164.72	ETE	119.92	ZAC	111.20	ETC	17.01	CLP	9.48

PLANETOCENTRIC CONIC

C3	46.666	VHL	6.831	DLA	-8.31	RAL	171.90	RAD	6568.7	VEL	12.963	PTH	2.36	VHP	13.690	DPA	15.66	RAP	156.83	ECC	1.7680

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 55 39	2164.56	-18.32	38.34	45.56	111.97	8 31 43	1564.6	-15.18	31.07
90.00	17 48 10	5329.84	27.53	242.49	51.47	83.09	19 17 0	4729.8	26.29	234.05
100.00	9 12 58	1915.13	-19.63	19.42	44.98	113.00	9 44 53	1315.1	-16.35	12.17
100.00	19 13 32	5054.50	28.93	222.04	51.27	82.15	20 37 47	4454.5	27.55	213.51
110.00	10 12 2	1730.18	-23.12	3.69	43.28	115.91	10 40 52	1130.2	-19.45	356.48
110.00	20 30 58	4812.21	32.72	202.93	50.55	79.50	21 51 10	4212.2	30.93	194.17

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY			ORBIT DETERMINATION ACCURACY		
TDE	.6286	TRA	-1.3930	TC3	-.0627	BAU	.0727	SGT 1296.0 SGR 463.7 SG3 82.6	ST	635.2	SR 390.7 SS 600.6
RDE	-.4590	RRA	-.2605	RC3	.0982	FAU	.01942	RRT .0770 RRF -.0807 RTF -.8069	CRT	-.7235	CRS -.8355 CST .9830
FDE	-.5550	FRA	.7960	FC3	-.3603	BSP	3894	SGB 1376.4 R23 -.0096 R13 -.8071	LSA	926.1	MSA 243.0 SSA 16.0
BDE	.7784	BRA	1.4172	BC3	.1165	FSP	-205	SG1 1296.5 SG2 462.1 THA 1.81	EL1	705.0	EL2 243.0 ALF 152.47

LAUNCH DATE MAY 22 1967 FLIGHT TIME 94.00 ARRIVAL DATE AUG 24 1967

HELIOCENTRIC CONIC DISTANCE 217.270

RL 151.43 LAL -.00 LOL 240.24 VL 23.926 GAL 7.46 AZL 93.20 HCA 86.27 SMA 112.43 ECC .36757 INC 3.1990 V1 29.423
RP 108.92 LAP -3.19 LOP 326.50 VP 35.449 GAP -21.49 AZP 90.21 TAL 166.78 TAP 253.05 RCA 71.11 APO 153.76 V2 34.793
RC 43.707 GL -11.74 GP 2.39 ZAL 64.78 ZAP 8.33 ETS 197.25 ZAE 165.47 ETE 109.68 ZAC 109.56 ETC 16.71 CLP 7.99

PLANETOCENTRIC CONIC

C3 42.317 VHL 6.505 DLA -9.20 RAL 171.67 RAD 6568.6 VEL 12.794 PTH 2.33 VHP 13.064 DPA 15.18 RAP 158.49 ECC 1.6964

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 1 43	2111.40	-16.94	35.05	43.57	113.04	8 36 54	1511.4	-13.67	27.90
90.00	17 40 15	5333.79	27.56	242.78	49.79	83.23	19 9 9	4733.8	26.34	234.32
100.00	9 18 33	1863.49	-18.23	16.23	42.98	114.11	9 49 37	1263.5	-14.82	9.10
100.00	19 6 6	5056.93	28.96	222.21	49.59	82.24	20 30 23	4456.9	27.58	213.68
110.00	10 16 34	1681.86	-21.65	.70	41.23	117.12	10 44 35	1081.9	-17.85	353.65
110.00	20 24 35	4811.33	32.71	202.86	48.88	79.46	21 44 46	4211.3	30.91	194.10

DIFFERENTIAL CORRECTIONS
TOE .6332 TRA-1.3745 TC3 -.0419 BAU .0665
RDE -.4294 RRA -.2461 RC3 .1098 FAU .02028
FDE -.5874 FRA .8176 FC3 -.4148 BSP 4089
BDE .7651 BRA 1.3964 BC3 .1175 FSP -226

MID-COURSE EXECUTION ACCURACY
SGT 1348.4 SGR 460.1 SG3 90.3
RRT .0815 RRF -.0865 RTF -.8192
SGB 1424.7 R23 -.0110 R13 -.8194
SG1 1348.9 SG2 458.4 THA 1.80

ORBIT DETERMINATION ACCURACY
ST 668.1 SR 384.0 SS 634.4
CRT -.7278 CRS -.8398 CST .9828
LSA 968.5 MSA 240.6 SSA 16.1
EL1 732.2 EL2 240.3 ALF 154.34

LAUNCH DATE MAY 22 1967 FLIGHT TIME 96.00 ARRIVAL DATE AUG 26 1967

HELIOCENTRIC CONIC DISTANCE 223.918

RL 151.43 LAL -.00 LOL 240.24 VL 24.201 GAL 7.06 AZL 93.25 HCA 89.43 SMA 113.71 ECC .35141 INC 3.2512 V1 29.423
RP 108.90 LAP -3.25 LOP 329.67 VP 35.638 GAP -20.44 AZP 90.03 TAL 166.59 TAP 256.03 RCA 73.75 APO 153.66 V2 34.797
RC 43.245 GL -12.69 GP 2.53 ZAL 64.81 ZAP 6.96 ETS 201.84 ZAE 165.76 ETE 98.43 ZAC 107.93 ETC 16.44 CLP 6.48

PLANETOCENTRIC CONIC

C3 38.436 VHL 6.200 DLA -10.09 RAL 171.34 RAD 6568.5 VEL 12.641 PTH 2.29 VHP 12.460 DPA 14.71 RAP 160.15 ECC 1.6326

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 7 35	2057.91	-15.48	31.80	41.57	114.01	8 41 53	1457.9	-12.11	24.75
90.00	17 31 46	5338.71	27.60	243.13	48.04	83.40	19 0 45	4738.7	26.40	234.67
100.00	9 23 56	1811.59	-16.76	13.08	40.96	115.12	9 54 8	1211.6	-13.23	6.06
100.00	18 58 6	5060.26	28.99	222.46	47.84	82.36	20 22 26	4460.3	27.63	213.92
110.00	10 20 50	1633.40	-20.12	357.78	39.18	118.23	10 48 4	1033.4	-16.19	350.86
110.00	20 17 41	4811.21	32.71	202.85	47.15	79.46	21 37 53	4211.2	30.91	194.09

DIFFERENTIAL CORRECTIONS
TOE .6384 TRA-1.3545 TC3 -.0165 BAU .0635
RDE -.4007 RRA -.2322 RC3 .1224 FAU .02122
FDE -.6231 FRA .8399 FC3 -.4780 BSP 4282
BDE .7537 BRA 1.3742 BC3 .1235 FSP -251

MID-COURSE EXECUTION ACCURACY
SGT 1401.8 SGR 455.7 SG3 98.7
RRT .0869 RRF -.0933 RTF -.8307
SGB 1474.0 R23 -.0127 R13 -.8309
SG1 1402.4 SG2 453.8 THA 1.81

ORBIT DETERMINATION ACCURACY
ST 702.6 SR 376.1 SS 670.4
CRT -.7326 CRS -.8441 CST .9827
LSA 1013.8 MSA 237.5 SSA 16.3
EL1 761.0 EL2 236.3 ALF 156.15

LAUNCH DATE MAY 22 1967 FLIGHT TIME 98.00 ARRIVAL DATE AUG 28 1967

HELIOCENTRIC CONIC DISTANCE 230.586

RL 151.43 LAL -.00 LOL 240.24 VL 24.456 GAL 6.67 AZL 93.30 HCA 92.60 SMA 114.93 ECC .33614 INC 3.3033 V1 29.423
RP 108.89 LAP -3.30 LOP 332.84 VP 35.816 GAP -19.42 AZP 89.85 TAL 166.46 TAP 259.06 RCA 76.30 APO 153.56 V2 34.801
RC 42.956 GL -13.69 GP 2.69 ZAL 64.93 ZAP 5.64 ETS 208.89 ZAE 165.54 ETE 86.97 ZAC 106.31 ETC 16.18 CLP 4.96

PLANETOCENTRIC CONIC

C3 34.978 VHL 5.914 DLA -11.00 RAL 170.92 RAD 6568.4 VEL 12.504 PTH 2.26 VHP 11.877 DPA 14.25 RAP 161.78 ECC 1.5756

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 13 18	2004.17	-13.97	28.58	39.55	114.88	8 46 42	1404.2	-10.50	21.62
90.00	17 22 41	5344.80	27.65	243.57	46.22	83.62	18 51 45	4744.8	26.47	235.10
100.00	9 29 8	1759.52	-15.23	9.97	38.94	116.04	9 58 27	1159.5	-11.60	3.06
100.00	18 49 32	5064.68	29.03	222.78	46.03	82.53	20 13 56	4464.7	27.69	214.23
110.00	10 24 53	1584.93	-18.54	354.92	37.12	119.25	10 51 18	984.9	-14.50	348.13
110.00	20 10 16	4812.03	32.72	202.91	45.35	79.49	21 30 28	4212.0	30.92	194.15

DIFFERENTIAL CORRECTIONS
TOE .6448 TRA-1.3325 TC3 .0143 BAU .0640
RDE -.3727 RRA -.2189 RC3 .1360 FAU .02228
FDE -.6627 FRA .8627 FC3 -.5514 BSP 4487
BDE .7448 BRA 1.3503 BC3 .1368 FSP -278

MID-COURSE EXECUTION ACCURACY
SGT 1456.0 SGR 450.5 SG3 108.0
RRT .0933 RRF -.1012 RTF -.8417
SGB 1524.1 R23 -.0146 R13 -.8418
SG1 1456.6 SG2 448.3 THA 1.83

ORBIT DETERMINATION ACCURACY
ST 738.8 SR 366.9 SS 709.3
CRT -.7378 CRS -.8485 CST .9826
LSA 1062.5 MSA 233.6 SSA 16.4
EL1 791.9 EL2 231.1 ALF 157.90

LAUNCH DATE MAY 22 1967 FLIGHT TIME 100.00 ARRIVAL DATE AUG 30 1967

HELIOCENTRIC CONIC DISTANCE 237.272

RL 151.43 LAL -.00 LOL 240.24 VL 24.692 GAL 6.30 AZL 93.36 HCA 95.76 SMA 116.10 ECC .32175 INC 3.3557 V1 29.423
RP 108.87 LAP -3.34 LOP 336.01 VP 35.984 GAP -18.44 AZP 89.66 TAL 166.37 TAP 262.13 RCA 78.74 APO 153.45 V2 34.806
RC 42.841 GL -14.74 GP 2.86 ZAL 65.15 ZAP 4.46 ETS 220.29 ZAE 164.82 ETE 76.17 ZAC 104.70 ETC 15.93 CLP 3.42

PLANETOCENTRIC CONIC

C3 31.900 VHL 5.648 DLA -11.92 RAL 170.40 RAD 6568.3 VEL 12.380 PTH 2.23 VHP 11.315 DPA 13.81 RAP 163.40 ECC 1.5250

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 18 52	1950.24	-12.40	25.40	37.54	115.66	8 51 22	1350.2	-8.85	18.52
90.00	17 12 57	5352.28	27.70	244.11	44.36	83.88	18 42 10	4752.3	26.57	235.63
100.00	9 34 8	1707.36	-13.64	6.91	36.91	116.86	10 2 36	1107.4	-9.93	.09
100.00	18 40 22	5070.39	29.08	223.19	44.17	82.74	20 4 52	4470.4	27.77	214.64
110.00	10 28 41	1536.54	-16.90	352.12	35.08	120.16	10 54 18	936.5	-12.77	345.45
110.00	20 2 18	4813.97	32.74	203.06	43.51	79.58	21 22 32	4214.0	30.96	194.29

DIFFERENTIAL CORRECTIONS
TOE .6521 TRA-1.3090 TC3 .0506 BAU .0678
RDE -.3456 RRA -.2062 RC3 .1507 FAU .02345
FDE -.7067 FRA .8864 FC3 -.6363 BSP 4680
BDE .7381 BRA 1.3251 BC3 .1589 FSP -308

MID-COURSE EXECUTION ACCURACY
SGT 1510.9 SGR 444.5 SG3 118.3
RRT .1012 RRF -.1109 RTF -.8519
SGB 1574.9 R23 -.0167 R13 -.8521
SG1 1511.6 SG2 442.0 THA 1.86

ORBIT DETERMINATION ACCURACY
ST 776.8 SR 356.4 SS 751.2
CRT -.7433 CRS -.8527 CST .9827
LSA 1114.5 MSA 229.1 SSA 16.5
EL1 824.6 EL2 224.6 ALF 159.59

LAUNCH DATE MAY 22 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 1 1967

HELIOCENTRIC CONIC DISTANCE 243.971

```
RL  151.43 LAL   -.00 LOL 240.24 VL  24.912 GAL   5.94 AZL  93.41 HCA  98.93 SMA 117.21 ECC .30821 INC 3.4087 V1  29.423
RP  108.86 LAP  -3.37 LOP 339.18 VP  36.140 GAP -17.49 AZP  89.47 TAL 166.33 TAP 265.25 RCA  81.09 APO 153.34 V2  34.812
RC  42.900 GL  -15.83 GP    3.06 ZAL  65.46 ZAP   3.58 ETS 239.07 ZAE 163.66 ETE  66.67 ZAC 103.11 ETC  15.69 CLP   1.86
```

PLANETOCENTRIC CONIC

```
C3  29.165 VHL  5.400 DLA -12.85 RAL 169.78 RAD 6568.2 VEL 12.269 PTH   2.21 VHP 10.773 DPA  13.38 RAP 165.00 ECC 1.4800
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 24 18	1896.19	-10.79	22.25	35.53	116.34	8 55 55	1296.2	-7.16	15.44
90.00	17 2 35	5361.35	27.77	244.77	42.45	84.21	18 31 57	4761.3	26.67	236.27
100.00	9 39 0	1655.19	-12.02	3.89	34.89	117.58	10 6 35	1055.2	-8.23	357.15
100.00	18 30 34	5077.58	29.14	223.72	42.28	83.01	19 55 12	4477.6	27.86	215.15
110.00	10 32 17	1488.34	-15.23	349.38	33.04	120.98	10 57 5	888.3	-11.02	342.81
110.00	19 53 47	4817.19	32.78	203.30	41.63	79.72	21 14 5	4217.2	31.01	194.53

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .6606 TRA-1.2837 TC3  .0932 BAU  .0744   SGT 1566.1 SGR  437.8 SG3  129.8     ST   816.6 SR   344.6 SS   796.5
RDE -.3192 RRA -.1943 RC3  .1664 FAU .02476   RRT  .1109 RRF -.1225 RTF -.8616    CRT -.7490 CRS -.8567 CST  .9829
FDE -.7560 FRA  .9108 FC3 -.7349 BSP   4884   SGB 1626.1 R23 -.0191 R13 -.8618    LSA 1170.3 MSA  224.1 SSA   16.6
BDE  .7337 BRA 1.2983 BC3  .1907 FSP   -341   SGI 1566.9 SG2  434.9 THA   1.92    EL1  859.4 EL2  217.0 ALF 161.22
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 3 1967

HELIOCENTRIC CONIC DISTANCE 250.680

```
RL  151.43 LAL   -.00 LOL 240.24 VL  25.115 GAL   5.60 AZL  93.46 HCA 102.09 SMA 118.28 ECC .29550 INC 3.4627 V1  29.423
RP  108.84 LAP  -3.39 LOP 342.35 VP  36.287 GAP -16.58 AZP  89.27 TAL 166.33 TAP 268.42 RCA  83.33 APO 153.23 V2  34.819
RC  43.133 GL  -16.97 GP    3.28 ZAL  65.86 ZAP   3.29 ETS 265.74 ZAE 162.19 ETE  58.69 ZAC 101.54 ETC  15.47 CLP    .26
```

PLANETOCENTRIC CONIC

```
C3  20.741 VHL  5.171 DLA -13.79 RAL 169.07 RAD 6568.1 VEL 12.170 PTH   2.18 VHP 10.251 DPA  12.98 RAP 166.57 ECC 1.4401
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 29 40	1842.08	-9.14	19.13	33.53	116.92	9 0 22	1242.1	-5.45	12.38
90.00	16 51 32	5372.21	27.84	245.55	40.51	84.59	18 21 5	4772.2	26.80	237.04
100.00	9 43 44	1603.08	-10.36	.91	32.88	118.20	10 10 27	1003.1	-6.51	354.24
100.00	18 20 9	5086.43	29.21	224.37	40.35	83.35	19 44 56	4486.4	27.98	215.78
110.00	10 35 40	1440.43	-13.54	346.70	31.01	121.69	10 59 41	840.4	-9.25	340.23
110.00	19 44 43	4821.85	32.84	203.65	39.73	79.92	21 5 4	4221.9	31.10	194.86

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .6694 TRA-1.2573 TC3  .1415 BAU  .0827   SGT 1621.4 SGR  430.4 SG3  142.5     ST   857.5 SR   331.2 SS   845.2
RDE -.2935 RRA -.1831 RC3  .1831 FAU .02621   RRT  .1235 RRF -.1369 RTF -.8704    CRT -.7542 CRS -.8604 CST  .9830
FDE -.8110 FRA  .9363 FC3 -.8486 BSP   5071   SGB 1677.6 R23 -.0216 R13 -.8707    LSA 1229.4 MSA  218.9 SSA   16.6
BDE  .7309 BRA 1.2706 BC3  .2314 FSP   -379   SGI 1622.4 SG2  426.9 THA   2.02    EL1  895.4 EL2  208.3 ALF 162.80
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 5 1967

HELIOCENTRIC CONIC DISTANCE 257.395

```
RL  151.43 LAL   -.00 LOL 240.24 VL  25.304 GAL   5.27 AZL  93.52 HCA 105.26 SMA 119.29 ECC .28359 INC 3.5180 V1  29.423
RP  108.81 LAP  -3.39 LOP 345.53 VP  36.425 GAP -15.71 AZP  89.07 TAL 166.37 TAP 271.63 RCA  85.46 APO 153.12 V2  34.826
RC  43.534 GL  -18.16 GP    3.52 ZAL  66.35 ZAP   3.78 ETS 291.49 ZAE 160.52 ETE  52.18 ZAC 100.00 ETC  15.25 CLP  -1.38
```

PLANETOCENTRIC CONIC

```
C3  24.597 VHL  4.960 DLA -14.74 RAL 168.26 RAD 6568.0 VEL 12.082 PTH   2.16 VHP  9.747 DPA  12.61 RAP 168.11 ECC 1.4048
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 34 59	1787.93	-7.45	16.04	31.54	117.40	9 4 47	1187.9	-3.72	9.34
90.00	16 39 48	5385.06	27.92	246.49	38.56	85.05	18 9 33	4785.1	26.94	237.96
100.00	9 48 23	1551.09	-8.67	357.97	30.89	118.72	10 14 14	951.1	-4.77	351.35
100.00	18 9 5	5097.13	29.29	225.15	38.40	83.75	19 34 2	4497.1	28.12	216.55
110.00	10 38 53	1392.89	-11.82	344.09	29.00	122.31	11 2 6	792.9	-7.47	337.69
110.00	19 35 4	4828.10	32.91	204.13	37.81	80.19	20 55 32	4228.1	31.21	195.32

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .6808 TRA-1.2277 TC3  .1978 BAU  .0927   SGT 1675.7 SGR  422.5 SG3  156.6     ST   901.3 SR   316.3 SS   898.2
RDE -.2684 RRA -.1728 RC3  .2010 FAU .02785   RRT  .1383 RRF -.1545 RTF -.8793    CRT -.7600 CRS -.8635 CST  .9835
FDE -.8733 FRA  .9628 FC3 -.9801 BSP   5285   SGB 1728.2 R23 -.0251 R13 -.8796    LSA 1293.7 MSA  212.8 SSA   16.6
BDE  .7318 BRA 1.2398 BC3  .2820 FSP   -421   SGI 1676.8 SG2  418.2 THA   2.13    EL1  934.3 EL2  198.3 ALF 164.34
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 7 1967

HELIOCENTRIC CONIC DISTANCE 264.115

```
RL  151.43 LAL   -.00 LOL 240.24 VL  25.478 GAL   4.96 AZL  93.57 HCA 108.43 SMA 120.24 ECC .27246 INC 3.5750 V1  29.423
RP  108.79 LAP  -3.39 LOP 348.70 VP  36.553 GAP -14.86 AZP  88.87 TAL 166.46 TAP 274.89 RCA  87.48 APO 153.00 V2  34.834
RC  44.099 GL  -19.40 GP    3.80 ZAL  66.92 ZAP   4.87 ETS 308.87 ZAE 158.75 ETE  46.93 ZAC  98.48 ETC  15.05 CLP  -3.05
```

PLANETOCENTRIC CONIC

```
C3  22.706 VHL  4.765 DLA -15.71 RAL 167.36 RAD 6567.9 VEL 12.004 PTH   2.14 VHP  9.262 DPA  12.28 RAP 169.63 ECC 1.3737
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 40 17	1733.77	-5.75	12.98	29.59	117.78	9 9 11	1133.8	-1.98	6.32
90.00	16 27 20	5400.11	28.00	247.58	36.59	85.60	17 57 20	4800.1	27.10	239.03
100.00	9 52 58	1499.26	-6.97	355.07	28.92	119.14	10 17 57	899.3	-3.03	348.50
100.00	17 57 20	5109.84	29.38	226.09	36.45	84.23	19 22 30	4509.8	28.27	217.46
110.00	10 41 57	1345.81	-10.10	341.53	27.02	122.83	11 4 23	745.8	-5.70	335.20
110.00	19 24 50	4836.06	33.00	204.73	35.88	80.53	20 45 27	4236.1	31.34	195.90

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .6925 TRA-1.1981 TC3  .2586 BAU  .1030   SGT 1730.2 SGR  414.1 SG3  172.4     ST   946.0 SR   299.6 SS   955.4
RDE -.2438 RRA -.1633 RC3  .2199 FAU .02966   RRT  .1574 RRF -.1764 RTF -.8871    CRT -.7643 CRS -.8657 CST  .9840
FDE -.9434 FRA  .9907 FC3-1.1309 BSP   5474   SGB 1779.0 R23 -.0288 R13 -.8874    LSA 1361.8 MSA  206.9 SSA   16.6
BDE  .7341 BRA 1.2092 BC3  .3395 FSP   -467   SGI 1731.5 SG2  408.6 THA   2.29    EL1  974.4 EL2  187.5 ALF 165.86
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 9 1967

DISTANCE 270.835

HELIOCENTRIC CONIC
RL 151.43 LAL -.00 LOL 240.24 VL 25.639 GAL 4.66 AZL 93.63 HCA 111.60 SMA 121.15 ECC .26208 INC 3.6342 V1 29.423
RP 108.76 LAP -3.38 LOP 351.88 VP 36.673 GAP -14.04 AZP 88.66 TAL 166.59 TAP 278.19 RCA 89.40 APO 152.90 V2 34.842
RC 44.820 GL -20.68 GP 4.11 ZAL 67.57 ZAP 6.30 ETS 319.33 ZAE 156.97 ETE 42.73 ZAC 97.01 ETC 14.85 CLP -4.78

PLANETOCENTRIC CONIC
C3 21.044 VHL 4.587 DLA -16.68 RAL 166.38 RAD 6567.9 VEL 11.934 PTH 2.12 VHP 8.795 DPA 12.00 RAP 171.11 ECC 1.3463

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 45 39	1679.58	-4.02	9.93	27.66	118.05	9 13 38	1079.6	-.24	3.29
90.00	16 14 7	5417.55	28.09	248.85	34.62	86.23	17 44 25	4817.5	27.27	240.28
100.00	9 57 32	1447.62	-5.24	352.20	26.98	119.47	10 21 39	847.6	-1.28	345.66
100.00	17 44 55	5124.74	29.48	227.18	34.49	84.80	19 10 20	4524.7	28.45	218.53
110.00	10 44 53	1299.27	-8.37	339.04	25.07	123.26	11 6 32	699.3	-3.93	332.76
110.00	19 14 3	4845.86	33.11	205.48	33.96	80.96	20 34 49	4245.9	31.51	196.62

DIFFERENTIAL CORRECTIONS
TOE .7058 TRA-1.1663 TC3 .3260 BAU .1139
ROE -.2195 RRA -.1548 RC3 .2399 FAU .03170
FOE-1.0235 FRA 1.0197 FC3-1.3040 BSP 5660
BOE .7391 BRA 1.1765 BC3 .4048 FSP -520

MID-COURSE EXECUTION ACCURACY
SGT 1783.0 SGR 405.4 SG3 189.9
RRT .1812 RRF -.2032 RTF -.8946
SGB 1828.5 R23 -.0331 R13 -.8950
SG1 1784.6 SG2 398.3 THA 2.48

ORBIT DETERMINATION ACCURACY
ST 992.6 SR 280.9 SS 1017.9
CRT -.7677 CRS -.8668 CST .9846
LSA 1435.2 MSA 200.7 SSA 16.5
EL1 1016.5 EL2 175.8 ALF 167.36

LAUNCH DATE MAY 22 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 11 1967

DISTANCE 277.555

HELIOCENTRIC CONIC
RL 151.43 LAL -.00 LOL 240.24 VL 25.787 GAL 4.38 AZL 93.70 HCA 114.77 SMA 121.99 ECC .25243 INC 3.6960 V1 29.423
RP 108.74 LAP -3.36 LOP 355.06 VP 36.786 GAP -13.25 AZP 88.45 TAL 166.75 TAP 281.53 RCA 91.20 APO 152.79 V2 34.851
RC 45.690 GL -21.99 GP 4.47 ZAL 68.29 ZAP 7.93 ETS 325.76 ZAE 155.22 ETE 39.38 ZAC 95.58 ETC 14.67 CLP -6.56

PLANETOCENTRIC CONIC
C3 19.588 VHL 4.426 DLA -17.66 RAL 165.31 RAD 6567.8 VEL 11.873 PTH 2.11 VHP 8.346 DPA 11.77 RAP 172.56 ECC 1.3224

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 51 8	1625.31	-2.28	6.90	25.77	118.23	9 18 13	1025.3	1.52	.27
90.00	16 0 8	5437.61	28.17	250.31	32.66	86.96	17 30 46	4837.6	27.45	241.72
100.00	10 2 9	1396.15	-3.51	349.36	25.08	119.70	10 25 25	796.2	.47	342.84
100.00	17 31 48	5142.00	29.58	228.46	32.55	85.47	18 57 30	4542.0	28.64	219.78
110.00	10 47 44	1253.30	-6.64	336.59	23.15	123.61	11 8 38	653.3	-2.18	330.35
110.00	19 2 42	4857.61	33.23	206.37	32.06	81.48	20 23 40	4257.6	31.70	197.48

DIFFERENTIAL CORRECTIONS
TOE .7197 TRA-1.1337 TC3 .3978 BAU .1246
ROE -.1954 RRA -.1472 RC3 .2611 FAU .03397
FOE-1.1141 FRA 1.0506 FC3-1.5013 BSP 5840
BOE .7457 BRA 1.1432 BC3 .4758 FSP -580

MID-COURSE EXECUTION ACCURACY
SGT 1834.2 SGR 396.7 SG3 209.6
RRT .2113 RRF -.2368 RTF -.9013
SGB 1876.6 R23 -.0383 R13 -.9018
SG1 1836.2 SG2 387.4 THA 2.74

ORBIT DETERMINATION ACCURACY
ST 1040.0 SR 260.1 SS 1085.3
CRT -.7685 CRS -.8657 CST .9852
LSA 1512.9 MSA 194.8 SSA 16.4
EL1 1059.5 EL2 163.3 ALF 168.85

LAUNCH DATE MAY 22 1967 FLIGHT TIME 114.00 ARRIVAL DATE SEP 13 1967

DISTANCE 284.270

HELIOCENTRIC CONIC
RL 151.43 LAL -.00 LOL 240.24 VL 25.923 GAL 4.12 AZL 93.76 HCA 117.95 SMA 122.79 ECC .24347 INC 3.7611 V1 29.423
RP 108.71 LAP -3.32 LOP 358.23 VP 36.890 GAP -12.49 AZP 88.24 TAL 166.95 TAP 284.90 RCA 92.90 APO 152.69 V2 34.860
RC 46.700 GL -23.34 GP 4.87 ZAL 69.07 ZAP 9.70 ETS 329.90 ZAE 153.56 ETE 36.73 ZAC 94.19 ETC 14.48 CLP -8.40

PLANETOCENTRIC CONIC
C3 18.320 VHL 4.280 DLA -18.65 RAL 164.17 RAD 6567.7 VEL 11.820 PTH 2.09 VHP 7.914 DPA 11.61 RAP 173.96 ECC 1.3015

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 56 49	1570.85	-.52	3.86	23.93	118.31	9 23 0	970.9	3.27	357.23
90.00	15 45 20	5460.53	28.24	251.98	30.72	87.79	17 16 21	4860.5	27.63	243.37
100.00	10 6 52	1344.81	-1.78	346.54	23.23	119.84	10 29 17	744.8	2.21	340.02
100.00	17 17 59	5161.81	29.68	229.92	30.63	86.23	18 44 0	4561.8	28.84	221.22
110.00	10 50 33	1207.94	-4.93	334.20	21.27	123.87	11 10 41	607.9	-.45	327.98
110.00	18 50 47	4871.44	33.36	207.43	30.19	82.09	20 11 58	4271.4	31.91	198.50

DIFFERENTIAL CORRECTIONS
TOE .7350 TRA-1.0993 TC3 .4738 BAU .1353
ROE -.1711 RRA -.1407 RC3 .2837 FAU .03652
FOE-1.2179 FRA 1.0831 FC3-1.7259 BSP 6016
BOE .7547 BRA 1.1083 BC3 .5523 FSP -647

MID-COURSE EXECUTION ACCURACY
SGT 1882.8 SGR 388.6 SG3 231.6
RRT .2487 RRF -.2782 RTF -.9077
SGB 1922.5 R23 -.0445 R13 -.9082
SG1 1885.4 SG2 375.8 THA 3.06

ORBIT DETERMINATION ACCURACY
ST 1088.7 SR 236.8 SS 1158.5
CRT -.7660 CRS -.8617 CST .9858
LSA 1596.1 MSA 188.9 SSA 16.1
EL1 1104.0 EL2 150.1 ALF 170.36

LAUNCH DATE MAY 22 1967 FLIGHT TIME 116.00 ARRIVAL DATE SEP 15 1967

DISTANCE 290.979

HELIOCENTRIC CONIC
RL 151.43 LAL -.00 LOL 240.24 VL 26.049 GAL 3.87 AZL 93.83 HCA 121.12 SMA 123.54 ECC .23518 INC 3.8303 V1 29.423
RP 108.68 LAP -3.28 LOP 1.42 VP 36.988 GAP -11.75 AZP 88.02 TAL 167.18 TAP 288.31 RCA 94.48 APO 152.59 V2 34.870
RC 47.841 GL -24.73 GP 5.33 ZAL 69.92 ZAP 11.60 ETS 332.67 ZAE 152.03 ETE 34.67 ZAC 92.86 ETC 14.30 CLP -10.31

PLANETOCENTRIC CONIC
C3 17.223 VHL 4.150 DLA -19.65 RAL 162.96 RAD 6567.7 VEL 11.773 PTH 2.08 VHP 7.500 DPA 11.52 RAP 175.33 ECC 1.2834

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 2 51	1516.02	1.25	.80	22.15	118.29	9 28 7	916.0	5.02	354.15
90.00	15 29 40	5486.64	28.29	253.89	28.81	88.75	17 1 7	4886.6	27.82	245.26
100.00	10 11 48	1293.49	-.04	343.73	21.44	119.89	10 33 21	693.5	3.94	337.20
100.00	17 3 24	5184.40	29.77	231.60	28.75	87.11	18 29 49	4584.4	29.05	222.87
110.00	10 53 23	1163.18	-3.22	331.86	19.45	124.05	11 12 46	563.2	1.27	325.65
110.00	18 38 19	4887.47	33.51	208.66	28.36	82.81	19 59 46	4287.5	32.15	199.69

DIFFERENTIAL CORRECTIONS
TOE .7535 TRA-1.0616 TC3 .5574 BAU .1466
ROE -.1463 RRA -.1353 RC3 .3079 FAU .03945
FOE-1.3383 FRA 1.1160 FC3-1.9829 BSP 6228
BOE .7676 BRA 1.0702 BC3 .6368 FSP -724

MID-COURSE EXECUTION ACCURACY
SGT 1928.3 SGR 381.4 SG3 256.3
RRT .2949 RRF -.3289 RTF -.9143
SGB 1965.6 R23 -.0516 R13 -.9149
SG1 1931.7 SG2 363.8 THA 3.46

ORBIT DETERMINATION ACCURACY
ST 1140.4 SR 210.7 SS 1239.2
CRT -.7584 CRS -.8527 CST .9868
LSA 1687.2 MSA 182.5 SSA 15.8
EL1 1151.7 EL2 136.0 ALF 171.91

LAUNCH DATE MAY 22 1967 FLIGHT TIME 118.00 ARRIVAL DATE SEP 17 1967

HELIOCENTRIC CONIC DISTANCE 297.681

RL 151.43 LAL -.00 LOL 240.24 VL 26.164 GAL 3.64 AZL 93.90 HCA 124.30 SMA 124.23 ECC .22753 INC 3.9042 V1 29.423
RP 108.64 LAP -3.22 LOP 4.60 VP 37.079 GAP -11.03 AZP 87.80 TAL 167.44 TAP 291.19 RCA 95.96 APO 152.50 V2 34.881
RC 49.103 GL -26.14 GP 5.86 ZAL 70.80 ZAP 13.62 ETS 334.55 ZAE 150.65 ETE 33.13 ZAC 91.59 ETC 14.12 CLP -12.31

PLANETOCENTRIC CONIC

C3 16.281 VHL 4.035 DLA -20.66 RAL 161.70 RAD 6567.7 VEL 11.733 PTH 2.07 VHP 7.103 DPA 11.53 RAP 176.64 ECC 1.2680

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 9 21	1460.51	3.04	357.70	20.45	118.17	9 33 41	860.5	6.78	351.02
90.00	15 13 3	5516.33	28.32	256.06	26.94	89.84	16 45 0	4916.3	27.99	247.41
100.00	10 17 3	1242.02	1.71	340.90	19.71	119.85	10 37 45	642.0	5.67	334.35
100.00	16 48 2	5210.06	29.84	233.50	26.91	88.11	18 14 53	4610.1	29.26	224.74
110.00	10 56 18	1118.99	-1.54	329.55	17.69	124.15	11 14 57	519.0	2.95	323.34
110.00	18 25 17	4905.85	33.66	210.07	26.58	83.63	19 47 2	4305.8	32.41	201.06

DIFFERENTIAL CORRECTIONS
TDE .7704 TRA-1.0249 TC3 .6358 BAU .1563
RDE -.1206 RRA -.1312 RC3 .3340 FAU .04265
FDE-1.4749 FRA 1.1521 FC3-2.2678 BSP 6378
BDE .7798 BRA 1.0332 BC3 .7182 FSP -809

MID-COURSE EXECUTION ACCURACY
SGT 1969.5 SGR 376.4 SG3 283.8
RRT .3517 RRF -.3905 RTF -.9195
SGB 2005.1 R23 -.0604 R13 -.9203
SG1 1974.1 SG2 351.5 THA 3.97

ORBIT DETERMINATION ACCURACY
ST 1189.4 SR 181.6 SS 1325.3
CRT -.7379 CRS -.8337 CST .9875
LSA 1781.1 MSA 177.4 SSA 15.4
EL1 1197.0 EL2 121.7 ALF 173.51

LAUNCH DATE MAY 22 1967 FLIGHT TIME 120.00 ARRIVAL DATE SEP 19 1967

HELIOCENTRIC CONIC DISTANCE 304.373

RL 151.43 LAL -.00 LOL 240.24 VL 26.269 GAL 3.42 AZL 93.98 HCA 127.48 SMA 124.88 ECC .22049 INC 3.9840 V1 29.423
RP 108.61 LAP -3.16 LOP 7.78 VP 37.163 GAP -10.34 AZP 87.57 TAL 167.72 TAP 295.19 RCA 97.34 APO 152.41 V2 34.891
RC 50.476 GL -27.58 GP 6.48 ZAL 71.73 ZAP 15.76 ETS 335.85 ZAE 149.43 ETE 32.05 ZAC 90.38 ETC 13.95 CLP -14.40

PLANETOCENTRIC CONIC

C3 15.483 VHL 3.935 DLA -21.68 RAL 160.38 RAD 6567.6 VEL 11.699 PTH 2.06 VHP 6.723 DPA 11.65 RAP 177.91 ECC 1.2548

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 16 32	1403.84	4.85	354.52	18.84	117.93	9 39 56	803.8	8.55	347.80
90.00	14 55 22	5550.18	28.30	258.54	25.12	91.08	16 27 52	4950.2	28.15	249.88
100.00	10 22 46	1190.09	3.46	338.05	18.07	119.71	10 42 36	590.1	7.39	331.46
100.00	16 31 49	5239.17	29.88	235.66	25.12	89.25	17 59 8	4639.2	29.46	226.88
110.00	10 59 24	1075.25	.14	327.27	16.00	124.18	11 17 19	475.3	4.62	321.05
110.00	18 11 40	4926.77	33.80	211.69	24.87	84.58	19 33 47	4326.8	32.68	202.63

DIFFERENTIAL CORRECTIONS
TDE .7880 TRA -.9875 TC3 .7133 BAU .1656
RDE -.0934 RRA -.1285 RC3 .3626 FAU .04625
FDE-1.6324 FRA 1.1909 FC3-2.5863 BSP 6512
BDE .7935 BRA .9958 BC3 .8002 FSP -905

MID-COURSE EXECUTION ACCURACY
SGT 2006.4 SGR 374.7 SG3 314.8
RRT .4197 RRF -.4636 RTF -.9243
SGB 2041.1 R23 -.0709 R13 -.9254
SG1 2012.8 SG2 339.1 THA 4.61

ORBIT DETERMINATION ACCURACY
ST 1237.9 SR 149.1 SS 1418.9
CRT -.6931 CRS -.7936 CST .9882
LSA 1880.9 MSA 172.8 SSA 14.9
EL1 1242.2 EL2 107.1 ALF 175.19

LAUNCH DATE MAY 22 1967 FLIGHT TIME 122.00 ARRIVAL DATE SEP 21 1967

HELIOCENTRIC CONIC DISTANCE 311.055

RL 151.43 LAL -.00 LOL 240.24 VL 26.365 GAL 3.22 AZL 94.07 HCA 130.66 SMA 125.47 ECC .21404 INC 4.0710 V1 29.423
RP 108.58 LAP -3.09 LOP 10.97 VP 37.242 GAP -9.67 AZP 87.34 TAL 168.01 TAP 298.67 RCA 98.62 APO 152.33 V2 34.903
RC 51.950 GL -29.05 GP 7.20 ZAL 72.67 ZAP 18.05 ETS 336.71 ZAE 148.38 ETE 31.41 ZAC 89.26 ETC 13.77 CLP -16.59

PLANETOCENTRIC CONIC

C3 14.817 VHL 3.849 DLA -22.70 RAL 159.02 RAD 6567.6 VEL 11.671 PTH 2.05 VHP 6.360 DPA 11.90 RAP 179.12 ECC 1.2438

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 24 42	1345.28	6.71	351.22	17.34	117.57	9 47 7	745.3	10.35	344.44
90.00	14 36 22	5589.02	28.22	261.38	23.36	92.50	16 9 31	4989.0	28.26	252.71
100.00	10 29 9	1137.25	5.24	335.13	16.54	119.47	10 48 6	537.3	9.13	328.50
100.00	16 14 36	5272.27	29.89	238.12	23.41	90.54	17 42 28	4672.3	29.64	229.33
110.00	11 2 47	1031.81	1.80	325.00	14.40	124.14	11 19 59	431.8	6.26	318.76
110.00	17 57 27	4950.49	33.94	213.53	23.25	85.66	19 19 58	4350.5	32.97	204.42

DIFFERENTIAL CORRECTIONS
TDE .8053 TRA -.9490 TC3 .7847 BAU .1739
RDE -.0640 RRA -.1272 RC3 .3942 FAU .05025
FDE-1.8134 FRA 1.2318 FC3-2.9360 BSP 6624
BDE .8079 BRA .9575 BC3 .8782 FSP -1012

MID-COURSE EXECUTION ACCURACY
SGT 2036.3 SGR 378.5 SG3 349.3
RRT .4973 RRF -.5467 RTF -.9286
SGB 2071.2 R23 -.0837 R13 -.9299
SG1 2045.2 SG2 327.0 THA 5.42

ORBIT DETERMINATION ACCURACY
ST 1283.9 SR 113.8 SS 1519.6
CRT -.5871 CRS -.6987 CST .9889
LSA 1985.4 MSA 168.7 SSA 14.3
EL1 1285.6 EL2 92.0 ALF 177.01

LAUNCH DATE MAY 22 1967 FLIGHT TIME 124.00 ARRIVAL DATE SEP 23 1967

HELIOCENTRIC CONIC DISTANCE 317.723

RL 151.43 LAL -.00 LOL 240.24 VL 26.453 GAL 3.03 AZL 94.17 HCA 133.84 SMA 126.02 ECC .20815 INC 4.1668 V1 29.423
RP 108.54 LAP -3.00 LOP 14.15 VP 37.314 GAP -9.01 AZP 87.11 TAL 168.31 TAP 302.15 RCA 99.79 APO 152.25 V2 34.914
RC 53.515 GL -30.53 GP 8.04 ZAL 73.63 ZAP 20.49 ETS 337.25 ZAE 147.50 ETE 31.21 ZAC 88.22 ETC 13.59 CLP -18.91

PLANETOCENTRIC CONIC

C3 14.274 VHL 3.778 DLA -23.74 RAL 157.63 RAD 6567.6 VEL 11.647 PTH 2.04 VHP 6.016 DPA 12.32 RAP 180.28 ECC 1.2349

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 34 17	1283.59	8.64	347.72	15.98	117.07	9 55 40	683.6	12.20	340.85
90.00	14 15 42	5634.16	28.04	264.67	21.65	94.14	15 49 36	5034.2	28.32	256.01
100.00	10 36 29	1082.79	7.06	332.11	15.12	119.12	10 54 32	482.8	10.89	325.41
100.00	15 56 11	5310.18	29.83	240.94	21.76	92.02	17 24 41	4710.2	29.79	232.14
110.00	11 6 35	988.38	3.45	322.73	12.90	124.03	11 23 4	388.4	7.90	316.46
110.00	17 42 33	4977.36	34.06	215.62	21.72	86.89	19 5 31	4377.4	33.25	206.47

DIFFERENTIAL CORRECTIONS
TDE .8254 TRA -.9071 TC3 .8554 BAU .1827
RDE -.0313 RRA -.1274 RC3 .4301 FAU .05483
FDE-2.0256 FRA 1.2720 FC3-3.3252 BSP 6773
BDE .8260 BRA .9160 BC3 .9575 FSP -1138

MID-COURSE EXECUTION ACCURACY
SGT 2059.8 SGR 390.5 SG3 388.2
RRT .5819 RRF -.6361 RTF -.9331
SGB 2096.5 R23 -.0984 R13 -.9349
SG1 2072.6 SG2 315.6 THA 6.44

ORBIT DETERMINATION ACCURACY
ST 1330.6 SR 79.7 SS 1630.5
CRT -.2884 CRS -.4192 CST .9898
LSA 2099.5 MSA 164.3 SSA 13.6
EL1 1330.8 EL2 76.3 ALF 179.01

LAUNCH DATE MAY 22 1967 FLIGHT TIME 126.00 ARRIVAL DATE SEP 25 1967

HELIOCENTRIC CONIC DISTANCE 324.378

RL 151.43 LAL -.00 LOL 240.24 VL 26.532 GAL 2.86 AZL 94.27 HCA 137.03 SMA 126.53 ECC .20278 INC 4.2734 V1 29.423
RP 108.50 LAP -2.91 LOP 17.34 VP 37.382 GAP -8.38 AZP 86.87 TAL 168.62 TAP 305.65 RCA 100.87 APO 152.19 V2 34.926
RC 55.163 GL -32.04 GP 9.04 ZAL 74.59 ZAP 23.11 ETS 337.54 ZAE 146.78 ETE 31.47 ZAC 87.27 ETC 13.40 CLP -21.36

PLANETOCENTRIC CONIC

C3 13.851 VHL 3.722 DLA -24.81 RAL 156.22 RAD 6567.5 VEL 11.629 PTH 2.04 VHP 5.689 DPA 12.92 RAP 181.39 ECC 1.2280

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 46 0	1216.65	10.69	343.87	14.79	116.38	10 6 17	616.7	14.15	336.90
90.00	13 52 43	5687.84	27.71	268.56	20.01	96.06	15 27 30	5087.8	28.26	259.94
100.00	10 45 11	1025.56	8.94	328.90	13.86	118.64	11 2 17	425.6	12.70	322.13
100.00	15 36 12	5354.16	29.68	244.20	20.20	93.73	17 5 26	4754.2	29.88	235.40
110.00	11 11 1	944.55	5.12	320.43	11.53	123.84	11 26 46	344.6	9.53	314.12
110.00	17 26 52	5007.94	34.15	218.00	20.30	88.30	18 50 20	4407.9	33.53	208.81

DIFFERENTIAL CORRECTIONS
TDE .8417 TRA -.8667 TC3 .9078 BAU .1894
RDE .0059 RRA -.1296 RC3 .4710 FAU .05978
FDE-2.2674 FRA 1.3160 FC3-3.7364 BSP 6840
BDE .8418 BRA .8764 BC3 1.0228 FSP -1274

MID-COURSE EXECUTION ACCURACY
SGT 2072.9 SGR 414.0 SG3 431.2
RRT .6666 RRF -.7250 RTF -.9362
SGB 2113.8 R23 -.1169 R13 -.9387
SG1 2091.6 SG2 305.8 THA 7.75

ORBIT DETERMINATION ACCURACY
ST 1369.0 SR 67.4 SS 1747.6
CRT .4456 CRS .3209 CST .9904
LSA 2215.1 MSA 161.5 SSA 12.8
EL1 1369.3 EL2 60.3 ALF 1.26

LAUNCH DATE MAY 22 1967 FLIGHT TIME 128.00 ARRIVAL DATE SEP 27 1967

HELIOCENTRIC CONIC DISTANCE 331.019

RL 151.43 LAL -.00 LOL 240.24 VL 26.604 GAL 2.70 AZL 94.39 HCA 140.21 SMA 126.99 ECC .19792 INC 4.3937 V1 29.423
RP 108.46 LAP -2.81 LOP 20.53 VP 37.444 GAP -7.77 AZP 86.62 TAL 168.93 TAP 309.14 RCA 101.86 APO 152.12 V2 34.938
RC 56.885 GL -33.59 GP 10.22 ZAL 75.54 ZAP 25.93 ETS 337.62 ZAE 146.21 ETE 32.24 ZAC 86.42 ETC 13.21 CLP -23.96

PLANETOCENTRIC CONIC

C3 13.544 VHL 3.680 DLA -25.90 RAL 154.79 RAD 6567.5 VEL 11.616 PTH 2.04 VHP 5.382 DPA 13.75 RAP 182.44 ECC 1.2229

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 1 14	1140.29	12.96	339.41	13.83	115.40	10 20 15	540.3	16.28	332.30
90.00	13 26 6	5754.40	27.14	273.35	18.40	98.40	15 2 0	5154.4	28.02	264.79
100.00	10 55 57	963.61	10.94	325.39	12.79	117.99	11 12 1	363.6	14.60	318.51
100.00	15 14 4	5406.31	29.39	248.05	18.72	95.74	16 44 10	4806.3	29.87	239.28
110.00	11 16 19	899.71	6.81	318.07	10.31	123.58	11 31 19	299.7	11.18	311.70
110.00	17 10 11	5042.97	34.18	220.74	19.00	89.91	18 34 14	4443.0	33.79	211.51

DIFFERENTIAL CORRECTIONS
TDE .8572 TRA -.8254 TC3 .9458 BAU .1953
RDE .0495 RRA -.1339 RC3 .5186 FAU .06523
FDE-2.5474 FRA 1.3605 FC3-4.1697 BSP 6885
BDE .8586 BRA .8362 BC3 1.0787 FSP -1425

MID-COURSE EXECUTION ACCURACY
SGT 2075.2 SGR 453.2 SG3 478.7
RRT .7440 RRF -.8057 RTF -.9388
SGB 2124.1 R23 -.1383 R13 -.9423
SG1 2103.0 SG2 298.8 THA 9.42

ORBIT DETERMINATION ACCURACY
ST 1401.8 SR 104.4 SS 1873.6
CRT .9077 CRS .8455 CST .9909
LSA 2336.9 MSA 159.1 SSA 11.9
EL1 1405.0 EL2 43.7 ALF 3.87

LAUNCH DATE MAY 22 1967 FLIGHT TIME 130.00 ARRIVAL DATE SEP 29 1967

HELIOCENTRIC CONIC DISTANCE 337.644

RL 151.43 LAL -.00 LOL 240.24 VL 26.668 GAL 2.56 AZL 94.53 HCA 143.40 SMA 127.41 ECC .19353 INC 4.5313 V1 29.423
RP 108.43 LAP -2.70 LOP 23.73 VP 37.502 GAP -7.17 AZP 86.36 TAL 169.23 TAP 312.63 RCA 102.75 APO 152.07 V2 34.951
RC 58.673 GL -35.17 GP 11.64 ZAL 76.46 ZAP 28.98 ETS 337.52 ZAE 145.75 ETE 33.57 ZAC 85.68 ETC 13.01 CLP -26.72

PLANETOCENTRIC CONIC

C3 13.355 VHL 3.654 DLA -27.04 RAL 153.36 RAD 6567.5 VEL 11.608 PTH 2.03 VHP 5.095 DPA 14.86 RAP 183.44 ECC 1.2198

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 23 20	1044.06	15.70	333.66	13.22	113.87	10 40 44	444.0	18.79	326.35
90.00	12 52 32	5844.55	26.08	279.73	16.75	101.43	14 29 57	5244.6	27.40	271.31
100.00	11 10 0	893.28	13.15	321.34	11.97	117.09	11 24 53	293.3	16.68	314.33
100.00	14 48 34	5470.52	28.86	252.75	17.29	98.16	16 19 44	4870.5	29.68	244.04
110.00	11 22 51	852.92	8.57	315.58	9.26	123.22	11 37 4	252.9	12.88	309.14
110.00	16 52 12	5083.64	34.14	223.91	17.83	91.79	18 16 56	4483.6	34.01	214.67

DIFFERENTIAL CORRECTIONS
TDE .8703 TRA -.7842 TC3 .9633 BAU .2002
RDE .1018 RRA -.1407 RC3 .5744 FAU .07110
FDE-2.8695 FRA 1.4057 FC3-4.6094 BSP 6887
BDE .8762 BRA .7967 BC3 1.1216 FSP -1590

MID-COURSE EXECUTION ACCURACY
SGT 2064.7 SGR 512.9 SG3 530.6
RRT .8077 RRF -.8716 RTF -.9406
SGB 2127.4 R23 -.1626 R13 -.9457
SG1 2106.7 SG2 296.4 THA 11.58

ORBIT DETERMINATION ACCURACY
ST 1426.1 SR 176.5 SS 2007.8
CRT .9885 CRS .9621 CST .9914
LSA 2464.0 MSA 157.5 SSA 11.0
EL1 1436.7 EL2 26.5 ALF 6.98

LAUNCH DATE MAY 22 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 1 1967

HELIOCENTRIC CONIC DISTANCE 344.252

RL 151.43 LAL -.00 LOL 240.24 VL 26.727 GAL 2.43 AZL 94.69 HCA 146.59 SMA 127.79 ECC .18960 INC 4.6914 V1 29.423
RP 108.39 LAP -2.58 LOP 26.92 VP 37.555 GAP -6.60 AZP 86.08 TAL 169.52 TAP 316.11 RCA 103.56 APO 152.02 V2 34.964
RC 60.521 GL -36.80 GP 13.36 ZAL 77.36 ZAP 32.29 ETS 337.27 ZAE 145.34 ETE 35.56 ZAC 85.05 ETC 12.81 CLP -29.68

PLANETOCENTRIC CONIC

C3 13.290 VHL 3.646 DLA -28.24 RAL 151.91 RAD 6567.5 VEL 11.605 PTH 2.03 VHP 4.831 DPA 16.32 RAP 184.41 ECC 1.2187

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 13 18	860.38	20.39	322.24	13.56	110.08	11 27 39	260.4	22.95	314.49
90.00	11 51 1	738.04	23.04	314.25	14.51	106.93	12 3 19	138.0	25.14	306.21
100.00	11 30 6	806.02	15.80	316.21	11.52	115.71	11 43 32	206.0	19.13	309.00
100.00	14 16 55	5555.67	27.88	258.89	15.85	101.25	15 49 31	4955.7	29.15	250.32
110.00	11 31 9	802.70	10.43	312.88	8.43	122.74	11 44 32	202.7	14.67	306.35
110.00	16 32 21	5131.76	33.98	227.66	16.81	94.01	17 57 53	4531.8	34.16	218.42

DIFFERENTIAL CORRECTIONS
TDE .8836 TRA -.7395 TC3 .9671 BAU .2062
RDE .1667 RRA -.1500 RC3 .6412 FAU .07758
FDE-3.2446 FRA 1.4424 FC3-5.0534 BSP 6924
BDE .8992 BRA .7545 BC3 1.1604 FSP -1779

MID-COURSE EXECUTION ACCURACY
SGT 2041.0 SGR 599.0 SG3 587.3
RRT .8560 RRF -.9204 RTF -.9424
SGB 2127.1 R23 -.1853 R13 -.9498
SG1 2105.8 SG2 300.2 THA 14.40

ORBIT DETERMINATION ACCURACY
ST 1444.1 SR 274.4 SS 2153.1
CRT .9991 CRS .9888 CST .9919
LSA 2602.4 MSA 155.5 SSA 10.1
EL1 1469.9 EL2 11.2 ALF 10.75

LAUNCH DATE MAY 22 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 3 1967

HELIOCENTRIC CONIC DISTANCE 350.843

RL 151.43 LAL -.00 LOL 240.24 VL 26.778 GAL 2.31 AZL 94.88 HCA 149.79 SMA 128.13 ECC .18609 INC 4.8812 V1 29.423
RP 108.35 LAP -2.45 LOP 30.11 VP 37.604 GAP -6.03 AZP 85.78 TAL 169.79 TAP 319.58 RCA 104.29 APO 151.98 V2 34.977
RC 62.420 GL -38.52 GP 15.46 ZAL 78.22 ZAP 35.92 ETS 336.88 ZAE 144.87 ETE 38.32 ZAC 84.53 ETC 12.60 CLP -32.83

PLANETOCENTRIC CONIC

C3 13.366 VHL 3.656 DLA -29.52 RAL 150.45 RAD 6567.5 VEL 11.608 PTH 2.03 VHP 4.592 DPA 18.20 RAP 185.39 ECC 1.2200

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.30	10 14 58	1030.91	22.62	335.62	13.02	109.48	10 32 9	430.9	25.07	327.70
98.70	12 37 42	5858.01	22.64	279.67	13.03	109.46	14 15 20	5258.0	25.08	271.76
100.00	12 7 50	665.55	19.74	307.65	11.83	112.91	12 18 56	65.6	22.68	300.08
100.00	13 27 31	5698.60	25.58	268.88	14.06	106.02	15 2 29	5098.6	27.53	260.62
110.00	11 42 10	746.48	12.48	309.82	7.90	122.08	11 54 36	146.5	16.63	303.17
110.00	16 9 41	5190.44	33.60	232.20	15.91	96.67	17 36 11	4590.4	34.16	223.00

DIFFERENTIAL CORRECTIONS
TDE .8902 TRA -.6970 TC3 .9360 BAU .2109
RDE .2486 RRA -.1627 RC3 .7185 FAU .08397
FDE-3.6655 FRA 1.4764 FC3-5.4392 BSP 6889
BDE .9242 BRA .7157 BC3 1.1800 FSP -1970

MID-COURSE EXECUTION ACCURACY
SGT 1997.6 SGR 716.7 SG3 645.9
RRT .8877 RRF -.9531 RTF -.9424
SGB 2122.2 R23 -.2067 R13 -.9537
SG1 2098.9 SG2 314.0 THA 18.08

ORBIT DETERMINATION ACCURACY
ST 1445.2 SR 399.7 SS 2301.7
CRT .9988 CRS .9963 CST .9921
LSA 2742.6 MSA 155.0 SSA 9.1
EL1 1499.3 EL2 18.8 ALF 15.44

LAUNCH DATE MAY 22 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 5 1967

HELIOCENTRIC CONIC DISTANCE 357.417

RL 151.43 LAL -.00 LOL 240.24 VL 26.824 GAL 2.21 AZL 95.11 HCA 152.98 SMA 128.44 ECC .18298 INC 5.1114 V1 29.423
RP 108.31 LAP -2.32 LOP 33.31 VP 37.649 GAP -5.49 AZP 85.44 TAL 170.04 TAP 323.02 RCA 104.94 APO 151.94 V2 34.990
RC 64.367 GL -40.34 GP 18.05 ZAL 79.05 ZAP 39.91 ETS 336.39 ZAE 144.22 ETE 41.94 ZAC 84.11 ETC 12.40 CLP -36.21

PLANETOCENTRIC CONIC

C3 13.610 VHL 3.689 DLA -30.91 RAL 148.96 RAD 6567.5 VEL 11.619 PTH 2.04 VHP 4.385 DPA 20.62 RAP 186.41 ECC 1.2240

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.05	9 37 10	1136.29	23.55	343.84	12.21	110.62	9 56 6	536.3	26.15	335.92
102.95	13 3 37	5760.51	23.57	272.77	12.22	110.60	14 39 37	5160.5	26.16	264.84
77.05	9 37 10	1136.29	23.55	343.84	12.21	110.62	9 56 6	536.3	26.15	335.92
102.95	13 3 37	5760.51	23.57	272.77	12.22	110.60	14 39 37	5160.5	26.16	264.84
110.00	11 57 38	679.26	14.88	306.09	7.76	121.13	12 8 57	79.3	18.90	299.27
110.00	15 42 19	5265.54	32.86	237.94	15.10	99.99	17 10 5	4665.5	33.89	228.85

DIFFERENTIAL CORRECTIONS
TDE .8931 TRA -.6534 TC3 .8763 BAU .2169
RDE .3551 RRA -.1788 RC3 .8081 FAU .09016
FDE-4.1397 FRA 1.4938 FC3-5.7349 BSP 6869
BDE .9611 BRA .6774 BC3 1.1921 FSP -2166

MID-COURSE EXECUTION ACCURACY
SGT 1934.2 SGR 874.4 SG3 704.9
RRT .9067 RRF -.9735 RTF -.9413
SGB 2122.7 R23 -.2195 R13 -.9586
SG1 2095.2 SG2 340.4 THA 22.93

ORBIT DETERMINATION ACCURACY
ST 1431.9 SR 560.3 SS 2455.9
CRT .9969 CRS .9987 CST .9922
LSA 2893.1 MSA 154.8 SSA 8.0
EL1 1537.1 EL2 40.8 ALF 21.33

LAUNCH DATE MAY 22 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 7 1967

HELIOCENTRIC CONIC DISTANCE 363.972

RL 151.43 LAL -.00 LOL 240.24 VL 26.865 GAL 2.12 AZL 95.40 HCA 156.18 SMA 128.71 ECC .18025 INC 5.3985 V1 29.423
RP 108.27 LAP -2.18 LOP 36.51 VP 37.690 GAP -4.95 AZP 85.06 TAL 170.26 TAP 326.44 RCA 105.51 APO 151.91 V2 35.003
RC 66.356 GL -42.32 GP 21.30 ZAL 79.84 ZAP 44.32 ETS 335.81 ZAE 143.14 ETE 46.51 ZAC 83.76 ETC 12.20 CLP -39.83

PLANETOCENTRIC CONIC

C3 14.073 VHL 3.751 DLA -32.47 RAL 147.41 RAD 6567.6 VEL 11.639 PTH 2.04 VHP 4.216 DPA 23.71 RAP 187.57 ECC 1.2316

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.41	9 5 59	1221.99	24.50	350.74	11.65	112.00	9 26 21	622.0	27.26	342.81
106.59	13 22 27	5689.48	24.51	267.79	11.66	111.99	14 57 16	5089.5	27.27	259.86
73.41	9 5 59	1221.99	24.50	350.74	11.65	112.00	9 26 21	622.0	27.26	342.81
106.59	13 22 27	5689.48	24.51	267.79	11.66	111.99	14 57 16	5089.5	27.27	259.86
110.00	12 22 6	5875.97	18.02	278.78	8.30	119.55	14 0 2	5276.0	21.82	271.71
110.00	15 5 30	5371.54	31.33	245.82	14.20	104.42	16 35 2	4771.5	33.00	236.99

DIFFERENTIAL CORRECTIONS
TDE .8928 TRA -.6077 TC3 .7952 BAU .2275
RDE .4976 RRA -.1981 RC3 .9108 FAU .09575
FDE-4.6609 FRA 1.4809 FC3-5.8906 BSP 6938
BDE 1.0221 BRA .6392 BC3 1.2091 FSP -2358

MID-COURSE EXECUTION ACCURACY
SGT 1850.9 SGR 1083.2 SG3 760.1
RRT .9171 RRF -.9856 RTF -.9392
SGB 2144.5 R23 -.2162 R13 -.9657
SG1 2110.8 SG2 378.6 THA 29.26

ORBIT DETERMINATION ACCURACY
ST 1403.1 SR 767.9 SS 2610.0
CRT .9952 CRS .9996 CST .9922
LSA 3057.2 MSA 154.4 SSA 7.0
EL1 1598.1 EL2 65.9 ALF 28.63

LAUNCH DATE MAY 22 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 9 1967

HELIOCENTRIC CONIC DISTANCE 370.509

RL 151.43 LAL -.00 LOL 240.24 VL 26.900 GAL 2.05 AZL 95.77 HCA 159.38 SMA 128.95 ECC .17788 INC 5.7689 V1 29.423
RP 108.22 LAP -2.03 LOP 39.71 VP 37.727 GAP -4.43 AZP 84.60 TAL 170.44 TAP 329.82 RCA 106.01 APO 151.88 V2 35.016
RC 68.382 GL -44.53 GP 25.40 ZAL 80.61 ZAP 49.22 ETS 335.18 ZAE 141.32 ETE 51.96 ZAC 83.45 ETC 12.02 CLP -43.70

PLANETOCENTRIC CONIC

C3 14.848 VHL 3.853 DLA -34.24 RAL 145.76 RAD 6567.6 VEL 11.672 PTH 2.05 VHP 4.100 DPA 27.65 RAP 189.02 ECC 1.2444

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.90	8 37 21	1301.69	25.44	357.34	11.41	113.73	8 59 3	701.7	28.42	349.43
110.10	13 37 54	5633.56	25.45	263.90	11.41	113.72	15 11 47	5033.6	28.43	255.99
69.90	8 37 21	1301.69	25.44	357.34	11.41	113.73	8 59 3	701.7	28.42	349.43
110.10	13 37 54	5633.56	25.45	263.90	11.41	113.72	15 11 47	5033.6	28.43	255.99
69.90	8 37 21	1301.69	25.44	357.34	11.41	113.73	8 59 3	701.7	28.42	349.43
110.10	13 37 54	5633.56	25.45	263.90	11.41	113.72	15 11 47	5033.6	28.43	255.99

DIFFERENTIAL CORRECTIONS
TDE .8859 TRA -.5645 TC3 .6769 BAU .2425
RDE .6927 RRA -.2211 RC3 1.0167 FAU .09903
FDE-5.1985 FRA 1.4312 FC3-5.7738 BSP 7077
BDE 1.1246 BRA .6062 BC3 1.2214 FSP -2500

MID-COURSE EXECUTION ACCURACY
SGT 1743.1 SGR 1353.9 SG3 802.0
RRT .9193 RRF -.9923 RTF -.9343
SGB 2207.1 R23 -.1962 R13 -.9744
SG1 2165.0 SG2 429.1 THA 37.24

ORBIT DETERMINATION ACCURACY
ST 1352.2 SR 1037.2 SS 2752.0
CRT .9937 CRS .9999 CST .9919
LSA 3233.2 MSA 155.1 SSA 6.0
EL1 1701.6 EL2 92.5 ALF 37.44

```
LAUNCH DATE  MAY 22 1967                          FLIGHT TIME 142.00                          ARRIVAL DATE  OCT 11 1967

 HELIOCENTRIC CONIC                                DISTANCE 377.025
  RL  151.43 LAL   -.00 LOL 240.24 VL  26.931 GAL   1.99 AZL  96.27 HCA 162.58 SMA 129.15 ECC .17584 INC 6.2692 V1  29.423
  RP  108.18 LAP  -1.87 LOP  42.91 VP  37.762 GAP  -3.92 AZP  84.02 TAL 170.59 TAP 333.17 RCA 106.44 APO 151.86 V2  35.029
  RC  70.443 GL  -47.06 GP   30.68 ZAL  81.38 ZAP  54.71 ETS 334.55 ZAE 138.29 ETE  58.08 ZAC  83.07 ETC  11.84 CLP -47.79
 PLANETOCENTRIC CONIC
  C3  16.115 VHL  4.014 DLA -36.31 RAL 143.92 RAD 6567.6 VEL 11.726 PTH   2.07 VHP  4.062 DPA  32.67 RAP 191.08 ECC 1.2652
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     66.25     8  9 17   1382.50      26.33      4.20      11.57      115.96    8 32 19     782.5      29.60      356.34
    113.75    13 51 18   5589.67      26.35    260.89      11.58      115.95   15 24 27    4989.7      29.61      253.03
     66.25     8  9 17   1382.50      26.33      4.20      11.57      115.96    8 32 19     782.5      29.60      356.34
    113.75    13 51 18   5589.67      26.35    260.89      11.58      115.95   15 24 27    4989.7      29.61      253.03
     66.25     8  9 17   1382.50      26.33      4.20      11.57      115.96    8 32 19     782.5      29.60      356.34
    113.75    13 51 18   5589.67      26.35    260.89      11.58      115.95   15 24 27    4989.7      29.61      253.03
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TOE  .8771 TRA -.5214 TC3  .5383 BAU  .2669      SGT 1614.5 SGR 1704.5 SG3  819.2       ST  1282.2 SR  1390.4 SS  2868.9
  RDE  .9697 RRA -.2441 RC3 1.1159 FAU .09882      RRT  .9154 RRF -.9960 RTF -.9264       CRT  .9922 CRS 1.0000 CST  .9912
  FDE-5.7067 FRA 1.3100 FC3-5.3089 BSP   7499      SGB 2347.8 R23 -.1574 R13 -.9841       LSA 3432.7 MSA  156.0 SSA    5.1
  BDE 1.3075 BRA  .5757 BC3 1.2390 FSP  -2575      SG1 2297.7 SG2  482.1 THA  46.70       EL1 1887.7 EL2  117.4 ALF  47.34

LAUNCH DATE  MAY 22 1967                          FLIGHT TIME 144.00                          ARRIVAL DATE  OCT 13 1967

 HELIOCENTRIC CONIC                                DISTANCE 383.521
  RL  151.43 LAL   -.00 LOL 240.24 VL  26.957 GAL   1.95 AZL  96.99 HCA 165.78 SMA 129.33 ECC .17412 INC 6.9869 V1  29.423
  RP  108.14 LAP  -1.71 LOP  46.12 VP  37.792 GAP  -3.43 AZP  83.23 TAL 170.70 TAP 336.48 RCA 106.81 APO 151.85 V2  35.042
  RC  72.534 GL  -50.08 GP   37.52 ZAL  82.18 ZAP  60.83 ETS 334.03 ZAE 133.47 ETE  64.40 ZAC  82.49 ETC  11.60 CLP -52.09
 PLANETOCENTRIC CONIC
  C3  18.259 VHL  4.273 DLA -38.81 RAL 141.75 RAD 6567.7 VEL 11.817 PTH   2.09 VHP  4.152 DPA  39.05 RAP 194.34 ECC 1.3005
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     62.27     7 40 19   1470.58      27.06      11.82      12.29      118.95    8  4 50     870.6      30.70        4.09
    117.73    14  2 55   5559.24      27.08     258.83      12.30      118.94   15 35 34    4959.2      30.71      251.10
     62.27     7 40 19   1470.58      27.06      11.82      12.29      118.95    8  4 50     870.6      30.70        4.09
    117.73    14  2 55   5559.24      27.08     258.83      12.30      118.94   15 35 34    4959.2      30.71      251.10
     62.27     7 40 19   1470.58      27.06      11.82      12.29      118.95    8  4 50     870.6      30.70        4.09
    117.73    14  2 55   5559.24      27.08     258.83      12.30      118.94   15 35 34    4959.2      30.71      251.10
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TOE  .8740 TRA -.4791 TC3  .3885 BAU  .3029      SGT 1470.8 SGR 2151.5 SG3  791.8       ST  1197.8 SR  1853.5 SS  2931.1
  RDE 1.3786 RRA -.2587 RC3 1.1783 FAU .09263      RRT  .9062 RRF -.9978 RTF -.9151       CRT  .9908 CRS 1.0000 CST  .9903
  FDE-6.0785 FRA 1.0841 FC3-4.3918 BSP   8358      SGB 2606.2 R23 -.1081 R13 -.9923       LSA 3665.7 MSA  156.6 SSA    4.2
  BDE 1.6323 BRA  .5445 BC3 1.2407 FSP  -2516      SG1 2552.9 SG2  524.2 THA  56.63       EL1 2202.6 EL2  136.8 ALF  57.23

LAUNCH DATE  MAY 22 1967                          FLIGHT TIME 146.00                          ARRIVAL DATE  OCT 15 1967

 HELIOCENTRIC CONIC                                DISTANCE 389.993
  RL  151.43 LAL   -.00 LOL 240.24 VL  26.979 GAL   1.91 AZL  98.11 HCA 168.98 SMA 129.48 ECC .17270 INC 8.1118 V1  29.423
  RP  108.10 LAP  -1.55 LOP  49.33 VP  37.820 GAP  -2.95 AZP  82.04 TAL 170.76 TAP 339.75 RCA 107.12 APO 151.84 V2  35.056
  RC  74.652 GL  -53.79 GP   46.48 ZAL  83.10 ZAP  67.63 ETS 333.72 ZAE 126.15 ETE  70.25 ZAC  81.46 ETC  11.11 CLP -56.44
 PLANETOCENTRIC CONIC
  C3  22.235 VHL  4.715 DLA -41.88 RAL 138.98 RAD 6567.9 VEL 11.984 PTH   2.14 VHP  4.487 DPA  46.99 RAP 200.15 ECC 1.3659
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     57.75     7  8 50   1574.89      27.27      20.84      13.86      123.10    7 35  5     974.9      31.42       13.40
    122.25    14 12 18   5548.82      27.29     258.09      13.87      123.09   15 44 47    4948.8      31.44      250.65
     57.75     7  8 50   1574.89      27.27      20.84      13.86      123.10    7 35  5     974.9      31.42       13.40
    122.25    14 12 18   5548.82      27.29     258.09      13.87      123.09   15 44 47    4948.8      31.44      250.65
     57.75     7  8 50   1574.89      27.27      20.84      13.86      123.10    7 35  5     974.9      31.42       13.40
    122.25    14 12 18   5548.82      27.29     258.09      13.87      123.09   15 44 47    4948.8      31.44      250.65
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TOE  .9003 TRA -.4411 TC3  .2466 BAU  .3487      SGT 1330.0 SGR 2702.6 SG3  695.3       ST  1115.0 SR  2447.8 SS  2884.6
  RDE 2.0120 RRA -.2434 RC3 1.1467 FAU .07757      RRT  .8935 RRF -.9988 RTF -.9018       CRT  .9893 CRS 1.0000 CST  .9893
  FDE-6.1158 FRA  .7331 FC3-3.0201 BSP   9864      SGB 3012.1 R23 -.0630 R13 -.9970       LSA 3941.0 MSA  156.4 SSA    3.4
  BDE 2.2042 BRA  .5038 BC3 1.1729 FSP  -2253      SG1 2962.4 SG2  544.8 THA  65.38       EL1 2685.7 EL2  148.2 ALF  65.66

LAUNCH DATE  MAY 22 1967                          FLIGHT TIME 148.00                          ARRIVAL DATE  OCT 17 1967

 HELIOCENTRIC CONIC                                DISTANCE 396.445
  RL  151.43 LAL   -.00 LOL 240.24 VL  26.996 GAL   1.90 AZL 100.14 HCA 172.18 SMA 129.60 ECC .17156 INC10.1437 V1  29.423
  RP  108.06 LAP  -1.37 LOP  52.53 VP  37.845 GAP  -2.48 AZP  79.95 TAL 170.77 TAP 342.94 RCA 107.37 APO 151.84 V2  35.069
  RC  76.795 GL  -58.47 GP   58.20 ZAL  84.23 ZAP  74.90 ETS 333.48 ZAE 115.60 ETE  74.60 ZAC  79.64 ETC   9.62 CLP -60.36
 PLANETOCENTRIC CONIC
  C3  31.081 VHL  5.575 DLA -45.67 RAL 135.15 RAD 6568.2 VEL 12.347 PTH   2.23 VHP  5.381 DPA  56.18 RAP 211.98 ECC 1.5115
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     52.54     6 32 55   1712.71      25.95      32.16      16.75      129.00    7  1 27    1112.7      30.80       25.35
    127.46    14 17 41   5576.73      25.96     259.52      16.76      129.00   15 50 37    4976.7      30.81      252.70
     52.54     6 32 55   1712.71      25.95      32.16      16.75      129.00    7  1 27    1112.7      30.80       25.35
    127.46    14 17 41   5576.73      25.96     259.52      16.76      129.00   15 50 37    4976.7      30.81      252.70
     52.54     6 32 55   1712.71      25.95      32.16      16.75      129.00    7  1 27    1112.7      30.80       25.35
    127.46    14 17 41   5576.73      25.96     259.52      16.76      129.00   15 50 37    4976.7      30.81      252.70
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TOE  .9881 TRA -.4696 TC3  .0669 BAU  .3487      SGT 1230.4 SGR 3242.5 SG3  499.3       ST  1036.5 SR  3090.8 SS  2588.3
  RDE 3.0058 RRA -.2158 RC3  .8364 FAU .04614      RRT  .8587 RRF -.9991 RTF -.8701       CRT  .9855 CRS 1.0000 CST  .9859
  FDE-5.4141 FRA  .4229 FC3-1.2851 BSP  10170      SGB 3468.1 R23 -.0353 R13 -.9988       LSA 4159.1 MSA  169.5 SSA    2.5
  BDE 3.1641 BRA  .5168 BC3  .8391 FSP  -1458      SG1 3416.0 SG2  598.5 THA  71.36       EL1 3255.6 EL2  167.1 ALF  71.66
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 150.00 ARRIVAL DATE OCT 19 1967

HELIOCENTRIC CONIC DISTANCE 402.844

RL	151.43	LAL	-.00	LOL	240.24	VL	27.011	GAL	1.90	AZL	104.94	HCA	175.35	SMA	129.70	ECC	.17071	INC	14.9423	V1	29.423		
RP	108.02	LAP	-1.20	LOP	55.74	VP	37.867	GAP	-2.02	AZP	75.10	TAL	170.71	TAP	346.06	RCA	107.56	APO	151.84	V2	35.082		
RC	78.958	GL	-64.07	GP	73.60	ZAL	85.85	ZAP	82.07	ETS	329.51	ZAE	100.86	ETE	72.96	ZAC	76.49	ETC	2.27	CLP	-60.75		

PLANETOCENTRIC CONIC

C3	59.911	VHL	7.740	DLA	-49.90	RAL	129.57	RAD	6569.1	VEL	13.464	PTH	2.46	VHP	8.013	DPA	63.93	RAP	239.12	ECC	1.9860		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
47.03	5 51 36	1924.24	19.97	46.61	21.73	136.74	6 23 41	1324.2	25.69	40.96
132.97	14 14 30	5693.86	19.99	264.81	21.75	136.73	15 49 24	5093.9	25.71	259.15
47.03	5 51 36	1924.24	19.97	46.61	21.73	136.74	6 23 41	1324.2	25.69	40.96
132.97	14 14 30	5693.86	19.99	264.81	21.75	136.73	15 49 24	5093.9	25.71	259.15
47.03	5 51 36	1924.24	19.97	46.61	21.73	136.74	6 23 41	1324.2	25.69	40.96
132.97	14 14 30	5693.86	19.99	264.81	21.75	136.73	15 49 24	5093.9	25.71	259.15

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TOE	2.0046	TRA	-.5088	TC3	.0334	BAU	.2797	SGT	1595.8	SGR	3693.9	SG3	265.0	ST	1494.2	SR	3652.7	SS	2109.8
ROE	4.9343	RRA	.1053	RC3	.3476	FAU	.01539	RRT	.9122	RRF	-.9987	RTF	-.9294	CRT	.9919	CRS	.9999	CST	.9932
FOE	-4.1168	FRA	.0127	FC3	-.2224	BSP	12237	SGB	4023.9	R23	-.0169	R13	-.9996	LSA	4471.6	MSA	176.7	SSA	1.4
BOE	5.3259	BRA	.5196	BC3	.3492	FSP	-788	SG1	3977.8	SG2	607.4	THA	67.95	EL1	3942.6	EL2	176.3	ALF	67.87

LAUNCH DATE MAY 22 1967 FLIGHT TIME 152.00 ARRIVAL DATE OCT 21 1967

HELIOCENTRIC CONIC DISTANCE 409.040

RL	151.43	LAL	-.00	LOL	240.24	VL	27.021	GAL	1.95	AZL	128.47	HCA	178.36	SMA	129.77	ECC	.17021	INC	38.4671	V1	29.423		
RP	107.98	LAP	-1.02	LOP	58.96	VP	37.887	GAP	-1.62	AZP	51.54	TAL	170.43	TAP	348.80	RCA	107.68	APO	151.86	V2	35.094		
RC	81.139	GL	-63.72	GP	79.02	ZAL	88.21	ZAP	87.82	ETS	184.53	ZAE	75.30	ETE	288.56	ZAC	69.21	ETC	208.42	CLP	78.47		

PLANETOCENTRIC CONIC

C3	351.065	VHL	18.737	DLA	-48.26	RAL	126.81	RAD	6571.9	VEL	21.734	PTH	3.22	VHP	22.248	DPA	56.44	RAP	290.82	ECC	6.7776		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
49.14	5 47 36	2226.79	3.56	58.23	33.61	138.16	6 24 43	1626.8	9.50	53.25
130.86	13 56 28	742.21	3.58	301.90	33.63	138.16	14 8 50	142.2	9.51	296.92
49.14	5 47 36	2226.79	3.56	58.23	33.61	138.16	6 24 43	1626.8	9.50	53.25
130.86	13 56 28	742.21	3.58	301.90	33.63	138.16	14 8 50	142.2	9.51	296.92
49.14	5 47 36	2226.79	3.56	58.23	33.61	138.16	6 24 43	1626.8	9.50	53.25
130.86	13 56 28	742.21	3.58	301.90	33.63	138.16	14 8 50	142.2	9.51	296.92

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TOE	6.7340	TRA	1.4072	TC3	-.0945	BAU	1.1147	SGT	2187.1	SGR	3654.3	SG3	87.6	ST	2068.3	SR	3562.0	SS	1906.5
RO	-11.6481	RRA	-.0134	RC3	.2179	FAU	-.02254	RRT	-.9544	RRF	.9995	RTF	-.9625	CRT	-.9956	CRS	-1.0000	CST	.9964
FOE	-3.2433	FRA	-.0610	FC3	.0556	BSP	12491	SGB	4258.8	R23	-.0494	R13	.9987	LSA	4535.7	MSA	169.1	SSA	1.0
BOE	13.4546	BRA	1.4073	BC3	.2375	FSP	-253	SG1	4221.1	SG2	565.4	THA	120.34	EL1	4115.6	EL2	166.9	ALF	120.09

LAUNCH DATE MAY 22 1967 FLIGHT TIME 154.00 ARRIVAL DATE OCT 23 1967

HELIOCENTRIC CONIC DISTANCE 416.044

RL	151.43	LAL	-.00	LOL	240.24	VL	27.029	GAL	1.86	AZL	66.64	HCA	182.11	SMA	129.82	ECC	.16945	INC	23.3561	V1	29.423		
RP	107.94	LAP	-.83	LOP	62.17	VP	37.904	GAP	-1.02	AZP	113.34	TAL	170.83	TAP	352.94	RCA	107.83	APO	151.82	V2	35.107		
RC	83.336	GL	66.53	GP	-85.59	ZAL	87.34	ZAP	88.47	ETS	109.78	ZAE	90.72	ETE	8.38	ZAC	101.17	ETC	85.75	CLP	69.74		

PLANETOCENTRIC CONIC

C3	136.338	VHL	11.676	DLA	64.64	RAL	211.17	RAD	6570.5	VEL	16.052	PTH	2.83	VHP	17.039	DPA	-69.04	RAP	90.98	ECC	3.2438		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
29.11	22 26 38	4846.23	-12.86	238.20	114.97	26.06	23 47 24	4246.2	-20.02	234.89
150.89	8 30 28	3132.57	-12.85	94.96	114.95	26.06	9 22 40	2532.6	-20.01	91.64
29.11	22 26 38	4846.23	-12.86	238.20	114.97	26.06	23 47 24	4246.2	-20.02	234.89
150.89	8 30 28	3132.57	-12.85	94.96	114.95	26.06	9 22 40	2532.6	-20.01	91.64
29.11	22 26 38	4846.23	-12.86	238.20	114.97	26.06	23 47 24	4246.2	-20.02	234.89
150.89	8 30 28	3132.57	-12.85	94.96	114.95	26.06	9 22 40	2532.6	-20.01	91.64

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TOE	-.3182	TRA	-3.7261	TC3	-.0426	BAU	.0823	SGT	4273.0	SGR	1350.2	SG3	103.6	ST	1290.2	SR	684.7	SS	530.2
ROE	1.1796	RRA	-1.0643	RC3	-.0150	FAU	-.00127	RRT	.8872	RRF	-.9095	RTF	-.9987	CRT	.4280	CRS	.5746	CST	.9856
FOE	-.0355	FRA	1.0466	FC3	.0081	BSP	13724	SGB	4481.3	R23	-.0124	R13	-.9999	LSA	1433.5	MSA	599.8	SSA	.4
BOE	1.2218	BRA	3.8751	BC3	.0451	FSP	-329	SG1	4441.0	SG2	599.5	THA	15.96	EL1	1332.0	EL2	599.4	ALF	16.16

LAUNCH DATE MAY 22 1967 FLIGHT TIME 156.00 ARRIVAL DATE OCT 25 1967

HELIOCENTRIC CONIC DISTANCE 422.277

RL	151.43	LAL	-.00	LOL	240.24	VL	27.034	GAL	1.92	AZL	82.81	HCA	185.19	SMA	129.86	ECC	.16937	INC	7.1863	V1	29.423		
RP	107.91	LAP	-.65	LOP	65.39	VP	37.919	GAP	-.62	AZP	97.16	TAL	170.53	TAP	355.72	RCA	107.86	APO	151.85	V2	35.119		
RC	85.546	GL	51.63	GP	-72.53	ZAL	82.40	ZAP	88.46	ETS	5.86	ZAE	111.62	ETE	265.84	ZAC	108.02	ETC	351.04	CLP	-84.88		

PLANETOCENTRIC CONIC

C3	18.586	VHL	4.311	DLA	52.51	RAL	193.40	RAD	6567.8	VEL	11.831	PTH	2.10	VHP	7.237	DPA	-34.31	RAP	125.33	ECC	1.3059		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
43.74	21 54 8	4301.63	-34.99	204.59	70.93	47.99	23 5 50	3701.6	-40.11	197.24
136.26	6 41 12	2736.51	-34.98	79.98	70.92	47.98	7 26 48	2136.5	-40.10	72.63
43.74	21 54 8	4301.63	-34.99	204.59	70.93	47.99	23 5 50	3701.6	-40.11	197.24
136.26	6 41 12	2736.51	-34.98	79.98	70.92	47.98	7 26 48	2136.5	-40.10	72.63
43.74	21 54 8	4301.63	-34.99	204.59	70.93	47.99	23 5 50	3701.6	-40.11	197.24
136.26	6 41 12	2736.51	-34.98	79.98	70.92	47.98	7 26 48	2136.5	-40.10	72.63

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TOE	.5097	TRA	.3222	TC3	-.5499	BAU	.5018	SGT	1085.7	SGR	4266.2	SG3	307.5	ST	709.7	SR	1354.5	SS	687.9
ROE	.5271	RRA	1.7680	RC3	-1.9431	FAU	.03621	RRT	.8604	RRF	.9998	RTF	.8553	CRT	.7488	CRS	-.9993	CST	-.7232
FOE	.4011	FRA	1.4678	FC3	-1.6867	BSP	13459	SGB	4402.2	R23	.0370	R13	.9991	LSA	1616.2	MSA	446.6	SSA	1.3
BOE	.7333	BRA	1.7971	BC3	2.0194	FSP	-972	SG1	4368.9	SG2	540.3	THA	77.46	EL1	1466.1	EL2	434.6	ALF	66.38

LAUNCH DATE MAY 22 1967 FLIGHT TIME 158.00 ARRIVAL DATE OCT 27 1967

HELIOCENTRIC CONIC DISTANCE 428.610

RL	151.43	LAL	-.00	LOL	240.24	VL	27.036	GAL	1.97	AZL	86.84	HCA	188.38	SMA	129.87	ECC	.16943	INC	3.1589	V1	29.423
RP	107.87	LAP	-.46	LOP	68.60	VP	37.931	GAP	-.20	AZP	93.13	TAL	170.27	TAP	358.65	RCA	107.86	APO	151.87	V2	35.131
RC	87.767	GL	30.64	GP	-59.17	ZAL	78.26	ZAP	90.93	ETS	359.44	ZAE	124.23	ETE	258.61	ZAC	111.70	ETC	352.35	CLP	-91.82

PLANETOCENTRIC CONIC

C3	8.535	VHL	2.921	DLA	34.22	RAL	178.90	RAD	6567.3	VEL	11.398	PTH	1.97	VHP	4.992	DPA	-42.36	RAP	134.68	ECC	1.1405		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.93	22 47 56	3830.29	-28.34	158.59	36.44	69.97	23 51 46	3230.3	-30.80	150.25
110.07	3 51 43	2876.23	-28.33	87.40	36.44	69.95	4 39 39	2276.2	-30.79	79.06
69.93	22 47 56	3830.29	-28.34	158.59	36.44	69.97	23 51 46	3230.3	-30.80	150.25
110.07	3 51 43	2876.23	-28.33	87.40	36.44	69.95	4 39 39	2276.2	-30.79	79.06
69.93	22 47 56	3830.29	-28.34	158.59	36.44	69.97	23 51 46	3230.3	-30.80	150.25
110.07	3 51 43	2876.23	-28.33	87.40	36.44	69.95	4 39 39	2276.2	-30.79	79.06

DIFFERENTIAL CORRECTIONS

TDE	.2755	TRA	.3273	TC3	-1.8825	BAU	.5232
RDE	.2091	RRA	1.2325	RC3	-4.1806	FAU	.07412
FDE	.2977	FRA	2.1393	FC3	-7.5181	BSP	12700
BDE	.3459	BRA	1.2752	BC3	4.5849	FSP	-1863

MID-COURSE EXECUTION ACCURACY

SGT	1450.6	SGR	3831.5	SG3	582.1		
RRT	.9315	RRF	.9996	RTF	.9297		
SGB	4096.9	R23	.0478	R13	.9985		
SG1	4066.6	SG2	497.0	THA	70.27		

ORBIT DETERMINATION ACCURACY

ST	589.3	SR	970.9	SS	705.4		
CRT	.7485	CRS	-.9975	CST	-.6995		
LSA	1282.5	MSA	377.6	SSA	2.9		
EL1	1080.0	EL2	351.3	ALF	62.40		

LAUNCH DATE MAY 22 1967 FLIGHT TIME 160.00 ARRIVAL DATE OCT 29 1967

HELIOCENTRIC CONIC DISTANCE 434.944

RL	151.43	LAL	-.00	LOL	240.24	VL	27.035	GAL	2.03	AZL	88.65	HCA	191.59	SMA	129.86	ECC	.16969	INC	1.3445	V1	29.423		
RP	107.83	LAP	-.27	LOP	71.82	VP	37.941	GAP	.23	AZP	91.32	TAL	169.98	TAP	1.57	RCA	107.83	APO	151.90	V2	35.143		
RC	89.996	GL	14.29	GP	-49.09	ZAL	75.96	ZAP	94.96	ETS	355.28	ZAE	132.95	ETE	250.96	ZAC	114.51	ETC	354.49	CLP	-97.58		

PLANETOCENTRIC CONIC

C3	6.601	VHL	2.569	DLA	19.15	RAL	171.73	RAD	6567.2	VEL	11.313	PTH	1.95	VHP	4.115	DPA	-32.69	RAP	138.68	ECC	1.1086		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 12 9	2627.48	-26.98	69.36	22.48	98.94	4 55 57	2027.5	-25.47	61.02
90.00	21 30 18	3986.18	-6.81	160.00	19.05	62.45	22 36 44	3386.2	-10.45	153.21
100.00	5 45 19	2327.07	-28.01	47.06	22.28	100.89	6 24 6	1727.1	-26.22	38.71
100.00	22 39 49	3761.83	-5.89	143.01	18.55	60.64	23 42 31	3161.8	-9.76	136.35
110.00	7 19 8	2033.53	-30.61	24.05	21.57	106.02	7 53 2	1433.5	-28.11	15.74
110.00	23 22 29	3628.13	-3.62	131.46	17.14	55.99	24 22 57	3028.1	-8.06	125.19

DIFFERENTIAL CORRECTIONS

TDE	.0802	TRA	.3662	TC3	-3.1191	BAU	.5043
RDE	-.0743	RRA	.9609	RC3	-4.7891	FAU	.10592
FDE	-.3397	FRA	2.6978	FC	-13.8922	BSP	11763
BDE	.1093	BRA	1.0283	BC3	5.7153	FSP	-2652

MID-COURSE EXECUTION ACCURACY

SGT	1829.7	SGR	3350.9	SG3	829.1		
RRT	.9582	RRF	.9994	RTF	.9574		
SGB	3817.9	R23	.0660	R13	.9973		
SG1	3789.8	SG2	462.7	THA	61.92		

ORBIT DETERMINATION ACCURACY

ST	318.6	SR	704.3	SS	734.7		
CRT	.6701	CRS	-.9905	CST	-.5623		
LSA	1035.2	MSA	256.0	SSA	6.8		
EL1	739.5	EL2	225.3	ALF	71.34		

LAUNCH DATE MAY 22 1967 FLIGHT TIME 162.00 ARRIVAL DATE OCT 31 1967

HELIOCENTRIC CONIC DISTANCE 441.266

RL	151.43	LAL	-.00	LOL	240.24	VL	27.032	GAL	2.10	AZL	89.69	HCA	194.81	SMA	129.84	ECC	.17014	INC	.3096	V1	29.423		
RP	107.80	LAP	-.08	LOP	75.05	VP	37.949	GAP	.65	AZP	90.30	TAL	169.65	TAP	4.46	RCA	107.75	APO	151.93	V2	35.154		
RC	92.232	GL	3.36	GP	-41.27	ZAL	74.76	ZAP	99.73	ETS	352.41	ZAE	138.69	ETE	242.25	ZAC	116.80	ETC	356.65	CLP	-103.00		

PLANETOCENTRIC CONIC

C3	6.251	VHL	2.500	DLA	8.81	RAL	167.97	RAD	6567.2	VEL	11.298	PTH	1.94	VHP	3.707	DPA	-24.89	RAP	140.57	ECC	1.1029		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 30 31	2252.27	-20.46	43.88	15.09	110.01	6 8 4	1652.3	-17.55	36.42
90.00	19 41 57	4342.80	4.63	179.96	13.34	62.03	20 54 19	3742.8	.86	173.32
100.00	6 56 9	1976.08	-21.21	23.27	14.79	111.57	7 29 5	1376.1	-18.09	15.86
100.00	20 59 0	4094.22	5.33	161.30	12.96	60.54	22 7 14	3494.2	1.37	154.76
110.00	8 14 10	1731.93	-23.18	3.80	13.85	115.86	8 43 2	1131.9	-19.51	356.58
110.00	21 57 28	3911.14	7.16	146.28	11.83	56.49	23 2 39	3311.1	2.71	140.03

DIFFERENTIAL CORRECTIONS

TDE	-.0986	TRA	.4211	TC3	-3.9705	BAU	.4939
RDE	-.2269	RRA	.7818	RC3	-4.3778	FAU	.12834
FDE	-1.1201	FRA	3.0717	FC	-17.7755	BSP	11200
BDE	.2474	BRA	.8880	BC3	5.9102	FSP	-3245

MID-COURSE EXECUTION ACCURACY

SGT	2224.0	SGR	2889.6	SG3	1008.8		
RRT	.9701	RRF	.9990	RTF	.9698		
SGB	3646.4	R23	.0879	R13	.9952		
SG1	3620.8	SG2	431.1	THA	52.63		

ORBIT DETERMINATION ACCURACY

ST	374.8	SR	755.4	SS	1073.1		
CRT	.9919	CRS	-.9936	CST	-.9732		
LSA	1361.2	MSA	97.8	SSA	17.2		
EL1	842.2	EL2	42.8	ALF	63.72		

LAUNCH DATE MAY 22 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 2 1967

HELIOCENTRIC CONIC DISTANCE 447.573

RL	151.43	LAL	-.00	LOL	240.24	VL	27.026	GAL	2.19	AZL	90.36	HCA	198.03	SMA	129.81	ECC	.17078	INC	.3602	V1	29.423		
RP	107.77	LAP	.11	LOP	78.27	VP	37.956	GAP	1.06	AZP	89.66	TAL	169.28	TAP	7.31	RCA	107.64	APO	151.97	V2	35.165		
RC	94.474	GL	-3.87	GP	-35.09	ZAL	73.94	ZAP	104.76	ETS	350.45	ZAE	142.00	ETE	233.01	ZAC	118.67	ETC	358.72	CLP	-108.14		

PLANETOCENTRIC CONIC

C3	6.346	VHL	2.519	DLA	1.82	RAL	165.92	RAD	6567.2	VEL	11.302	PTH	1.94	VHP	3.512	DPA	-18.58	RAP	141.45	ECC	1.1044		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 15 33	2034.53	-14.83	30.39	11.98	114.40	6 49 27	1434.5	-11.42	23.38
90.00	18 40 35	4565.65	11.55	192.68	11.60	63.97	19 56 41	3965.7	7.96	185.84
100.00	7 37 44	1769.42	-15.52	10.56	11.64	115.87	8 7 14	1169.4	-11.92	3.63
100.00	20 1 5	4305.99	12.23	173.23	11.25	62.51	21 12 51	3706.0	8.46	166.48
110.00	8 47 56	1549.73	-17.35	352.87	10.63	119.92	9 13 45	949.7	-13.24	346.17
110.00	21 7 23	4098.45	14.04	156.43	10.21	58.51	22 15 41	3498.5	9.77	149.93

DIFFERENTIAL CORRECTIONS

TDE	-.2676	TRA	.4861	TC3	-4.5380	BAU	.4968
RDE	-.2921	RRA	.6541	RC3	-3.7021	FAU	.14135
FDE	-1.8257	FRA	3.2911	FC	-19.2841	BSP	11024
BDE	.3962	BRA	.8150	BC3	5.8565	FSP	-3617

MID-COURSE EXECUTION ACCURACY

SGT	2611.8	SGR	2477.1	SG3	1119.0		
RRT	.9762	RRF	.9984	RTF	.9764		
SGB	3599.7	R23	.1066	R13	.9927		
SG1	3578.2	SG2	392.5	THA	43.45		

ORBIT DETERMINATION ACCURACY

ST	696.6	SR	802.5	SS	1435.3		
CRT	.9953	CRS	-.9954	CST	-.9993		
LSA	1784.5	MSA	68.1	SSA	23.1		
EL1	1061.5	EL2	50.8	ALF	49.06		

LAUNCH DATE MAY 22 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 4 1967

HELIOCENTRIC CONIC DISTANCE 453.863

RL	151.43	LAL	-.00	LOL	240.24	VL	27.019	GAL	2.28	AZL	90.83	HCA	201.26	SMA	129.75	ECC	.17160	INC	.8348	V1	29.423
RP	107.73	LAP	.30	LOP	81.50	VP	37.960	GAP	1.48	AZP	89.22	TAL	168.85	TAP	10.11	RCA	107.49	APO	152.02	V2	35.175
RC	96.719	GL	-8.81	GP	-30.13	ZAL	73.19	ZAP	109.74	ETS	349.15	ZAE	143.46	ETE	224.08	ZAC	120.16	ETC	.67	CLP	-112.98

PLANETOCENTRIC CONIC

C3	6.593	VHL	2.568	DLA	-3.08	RAL	164.85	RAD	6567.2	VEL	11.313	PTH	1.95	VHP	3.433	DPA	-13.46	RAP	141.87	ECC	1.1085

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 47 40	1888.95	-10.57	21.83	10.85	116.42	7 19 9	1289.0	-6.94	15.03
90.00	17 59 55	4724.33	16.10	202.11	11.50	66.39	19 18 39	4124.3	12.77	195.01
100.00	8 7 34	1631.20	-11.26	2.51	10.49	117.87	8 34 45	1031.2	-7.44	355.80
100.00	19 22 41	4457.31	16.81	182.14	11.17	64.91	20 36 58	3857.3	13.29	175.12
110.00	9 12 31	1427.90	-13.09	346.01	9.42	121.86	9 36 19	827.9	-8.78	339.56
110.00	20 34 14	4233.38	18.68	164.13	10.16	60.84	21 44 48	3633.4	14.65	157.33

DIFFERENTIAL CORRECTIONS

TDE	-.4291	TRA	.5580	TC3	-4.9304	BAU	.5110
RDE	-.3067	RRA	.5595	RC3	-3.0484	FAU	.14635
FDE	-2.3741	FRA	3.3994	FC	-19.2169	BSP	11157
BDE	.5274	BRA	.7902	BC3	5.7967	FSP	-3782

MID-COURSE EXECUTION ACCURACY

SGT	2980.3	SGR	2117.2	SG3	1169.3		
RRT	.9791	RRF	.9972	RTF	.9801		
SGB	3655.8	R23	.1176	R13	.9904		
SG1	3638.8	SG2	352.7	THA	35.20		

ORBIT DETERMINATION ACCURACY

ST	1030.7	SR	781.9	SS	1712.7		
CRT	.9917	CRS	-.9955	CST	-.9992		
LSA	2144.7	MSA	81.4	SSA	19.3		
EL1	1291.2	EL2	80.5	ALF	37.12		

LAUNCH DATE MAY 22 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 6 1967

HELIOCENTRIC CONIC DISTANCE 460.134

RL	151.43	LAL	-.00	LOL	240.24	VL	27.009	GAL	2.39	AZL	91.19	HCA	204.49	SMA	129.69	ECC	.17261	INC	1.1886	V1	29.423
RP	107.70	LAP	.49	LOP	84.72	VP	37.962	GAP	1.89	AZP	88.92	TAL	168.39	TAP	12.88	RCA	107.30	APO	152.08	V2	35.185
RC	98.967	GL	-12.30	GP	-26.11	ZAL	72.40	ZAP	114.52	ETS	348.29	ZAE	143.60	ETE	216.17	ZAC	121.28	ETC	2.49	CLP	-117.53

PLANETOCENTRIC CONIC

C3	6.902	VHL	2.627	DLA	-6.69	RAL	164.40	RAD	6567.2	VEL	11.327	PTH	1.95	VHP	3.425	DPA	-9.28	RAP	142.10	ECC	1.1136

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 13 7	1783.80	-7.32	15.81	10.77	117.43	7 42 50	1183.8	-3.59	9.11
90.00	17 30 52	4845.37	19.25	209.60	12.22	68.82	18 51 37	4245.4	16.20	202.25
100.00	8 31 16	1531.68	-8.04	356.88	10.39	118.89	8 56 48	931.7	-4.12	350.28
100.00	18 55 24	4572.73	19.99	189.23	11.90	67.30	20 11 36	3972.7	16.75	181.94
110.00	9 32 13	1340.84	-9.91	341.26	9.25	122.88	9 54 34	740.8	-5.51	334.94
110.00	20 10 56	4336.33	21.98	170.30	10.91	63.14	21 23 12	3736.3	18.20	163.21

DIFFERENTIAL CORRECTIONS

TDE	-.5849	TRA	.6341	TC3	-5.2136	BAU	.5337
RDE	-.2957	RRA	.4866	RC3	-2.5050	FAU	.14608
FDE	-2.7693	FRA	3.4234	FC	-18.3236	BSP	11579
BDE	.6554	BRA	.7993	BC3	5.7842	FSP	-3820

MID-COURSE EXECUTION ACCURACY

SGT	3327.2	SGR	1813.8	SG3	1177.3		
RRT	.9803	RRF	.9953	RTF	.9825		
SGB	3789.4	R23	.1182	R13	.9888		
SG1	3776.3	SG2	315.7	THA	28.34		

ORBIT DETERMINATION ACCURACY

ST	1344.7	SR	721.3	SS	1909.5		
CRT	.9895	CRS	-.9946	CST	-.9990		
LSA	2442.5	MSA	92.5	SSA	17.4		
EL1	1523.2	EL2	91.8	ALF	28.07		

LAUNCH DATE MAY 22 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 8 1967

HELIOCENTRIC CONIC DISTANCE 466.386

RL	151.43	LAL	-.00	LOL	240.24	VL	26.998	GAL	2.52	AZL	91.46	HCA	207.72	SMA	129.61	ECC	.17380	INC	1.4648	V1	29.423
RP	107.67	LAP	.68	LOP	87.95	VP	37.963	GAP	2.29	AZP	88.70	TAL	167.87	TAP	15.60	RCA	107.09	APO	152.14	V2	35.195
RC	101.218	GL	-14.85	GP	-22.81	ZAL	71.54	ZAP	119.03	ETS	347.74	ZAE	142.89	ETE	209.57	ZAC	122.07	ETC	4.17	CLP	-121.76

PLANETOCENTRIC CONIC

C3	7.241	VHL	2.691	DLA	-9.45	RAL	164.38	RAD	6567.2	VEL	11.342	PTH	1.95	VHP	3.464	DPA	-5.86	RAP	142.28	ECC	1.1192

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 34 37	1703.74	-4.79	11.29	11.31	117.94	8 3 1	1103.7	-1.02	4.64
90.00	17 9 11	4942.38	21.51	215.81	13.40	71.13	18 31 33	4342.4	18.74	208.24
100.00	8 51 20	1456.27	-5.53	352.68	10.90	119.42	9 15 36	856.3	-1.57	346.14
100.00	18 35 9	4665.09	22.31	195.11	13.09	69.57	19 52 54	4065.1	19.32	187.58
110.00	9 49 2	1275.59	-7.48	337.78	9.70	123.45	10 10 17	675.6	-3.03	331.52
110.00	19 53 56	4418.53	24.41	175.44	12.14	65.30	21 7 35	3818.5	20.88	168.08

DIFFERENTIAL CORRECTIONS

TDE	-.7356	TRA	.7134	TC3	-5.4169	BAU	.5613
RDE	-.2715	RRA	.4296	RC3	-2.0670	FAU	.14208
FDE	-3.0295	FRA	3.3920	FC	-16.9869	BSP	12167
BDE	.7841	BRA	.8328	BC3	5.7979	FSP	-3761

MID-COURSE EXECUTION ACCURACY

SGT	3650.2	SGR	1559.4	SG3	1155.3		
RRT	.9797	RRF	.9922	RTF	.9841		
SGB	3969.3	R23	.1100	R13	.9879		
SG1	3958.8	SG2	288.0	THA	22.84		

ORBIT DETERMINATION ACCURACY

ST	1635.4	SR	642.4	SS	2040.9		
CRT	.9870	CRS	-.9927	CST	-.9991		
LSA	2691.2	MSA	100.0	SSA	16.7		
EL1	1754.4	EL2	96.3	ALF	21.26		

LAUNCH DATE MAY 22 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 10 1967

HELIOCENTRIC CONIC DISTANCE 472.619

RL	151.43	LAL	-.00	LOL	240.24	VL	26.985	GAL	2.66	AZL	91.69	HCA	210.96	SMA	129.53	ECC	.17516	INC	1.6874	V1	29.423
RP	107.65	LAP	.87	LOP	91.19	VP	37.962	GAP	2.70	AZP	88.55	TAL	167.32	TAP	18.28	RCA	106.84	APO	152.21	V2	35.204
RC	103.470	GL	-16.73	GP	-20.08	ZAL	70.59	ZAP	123.23	ETS	347.41	ZAE	141.70	ETE	204.29	ZAC	122.55	ETC	5.69	CLP	-125.70

PLANETOCENTRIC CONIC

C3	7.601	VHL	2.757	DLA	-11.63	RAL	164.67	RAD	6567.2	VEL	11.357	PTH	1.96	VHP	3.537	DPA	-3.06	RAP	142.52	ECC	1.1251

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 53 37	1640.42	-2.76	7.74	12.26	118.19	8 20 58	1040.4	1.03	1.11
90.00	16 52 32	5023.16	23.19	221.14	14.89	73.28	18 16 15	4423.2	20.68	213.36
100.00	9 9 4	1396.98	-3.54	349.41	11.83	119.70	9 32 21	797.0	.44	342.88
100.00	18 19 45	4741.83	24.04	200.15	14.59	71.68	19 38 47	4141.8	21.31	192.42
110.00	10 4 0	1224.96	-5.57	335.10	10.57	123.78	10 24 25	625.0	-1.10	328.87
110.00	19 41 19	4486.61	26.28	179.85	13.67	67.31	20 56 6	3886.6	22.97	172.25

DIFFERENTIAL CORRECTIONS

TDE	-.8806	TRA	.7967	TC3	-5.5529	BAU	.5906
RDE	-.2408	RRA	.3850	RC3	-1.7172	FAU	.13560
FDE	-3.1773	FRA	3.3289	FC	-15.4446	BSP	12835
BDE	.9129	BRA	.8849	BC3	5.8124	FSP	-3636

MID-COURSE EXECUTION ACCURACY

SGT	3947.4	SGR	1347.0	SG3	1113.2		
RRT	.9772	RRF	.9875	RTF	.9850		
SGB	4170.8	R23	.0957	R13	.9874		
SG1	4162.0	SG2	271.0	THA	18.52		

ORBIT DETERMINATION ACCURACY

ST	1901.2	SR	557.9	SS	2120.5		
CRT	.9830	CRS	-.9894	CST	-.9991		
LSA	2900.1	MSA	105.4	SSA	16.5		
EL1	1978.9	EL2	98.5	ALF	16.13		

LAUNCH DATE MAY 22 1967 FLIGHT TIME 174.00 ARRIVAL DATE NOV 12 1967

HELIOCENTRIC CONIC DISTANCE 478.832
RL 151.43 LAL -.00 LOL 240.24 VL 26.971 GAL 2.81 AZL 91.87 HCA 214.20 SMA 129.43 ECC .17671 INC 1.8718 V1 29.423
RP 107.62 LAP 1.05 LOP 94.42 VP 37.960 GAP 3.10 AZP 88.45 TAL 166.72 TAP 20.91 RCA 106.56 APO 152.30 V2 35.212
RC 105.723 GL -18.15 GP -17.80 ZAL 69.56 ZAP 127.13 ETS 347.21 ZAE 140.27 ETE 200.14 ZAC 122.73 ETC 7.04 CLP-129.35
PLANETOCENTRIC CONIC
C3 7.981 VHL 2.825 DLA -13.41 RAL 165.21 RAD 6567.3 VEL 11.374 PTH 1.96 VHP 3.635 DPA -.77 RAP 142.85 ECC 1.1313

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 10 56	1588.92	-1.10	4.86	13.51	118.30	8 37 25	988.9	2.69	358.24
90.00	16 39 32	5092.50	24.47	225.81	16.60	75.29	18 4 24	4492.5	22.21	217.87
100.00	9 25 16	1349.10	-1.92	346.78	13.05	119.84	9 47 45	749.1	2.06	340.26
100.00	18 7 53	4807.56	25.38	204.58	16.32	73.65	19 28 0	4207.6	22.89	196.66
110.00	10 17 45	1184.72	-4.04	332.98	11.73	123.97	10 37 30	584.7	.44	326.77
110.00	19 31 53	4544.71	27.74	183.73	15.43	69.18	20 47 38	3944.7	24.66	175.92

DIFFERENTIAL CORRECTIONS
TDE-1.0201 TRA .8846 TC3-5.6331 BAU .6203
RDE -.2078 RRA .3501 RC3-1.4391 FAU .12774
FDE-3.2404 FRA 3.2499 FC-13.8574 BSP 13537
BDE 1.0410 BRA .9514 BC3 5.8141 FSP -3473

MID-COURSE EXECUTION ACCURACY
SGT 4220.4 SGR 1171.1 SG3 1059.6
RRT .9724 RRF .9804 RTF .9856
SGB 4379.9 R23 .0785 R13 .9870
SG1 4371.9 SG2 264.0 THA 15.16

ORBIT DETERMINATION ACCURACY
ST 2143.8 SR 475.5 SS 2161.6
CRT .9764 CRS -.9839 CST -.9992
LSA 3079.3 MSA 109.7 SSA 16.6
EL1 2193.6 EL2 100.4 ALF 12.25

LAUNCH DATE MAY 22 1967 FLIGHT TIME 176.00 ARRIVAL DATE NOV 14 1967

HELIOCENTRIC CONIC DISTANCE 485.025
RL 151.43 LAL -.00 LOL 240.24 VL 26.955 GAL 2.97 AZL 92.03 HCA 217.44 SMA 129.32 ECC .17844 INC 2.0279 V1 29.423
RP 107.60 LAP 1.23 LOP 97.65 VP 37.956 GAP 3.50 AZP 88.39 TAL 166.08 TAP 23.52 RCA 106.24 APO 152.39 V2 35.220
RC 107.975 GL -19.21 GP -15.88 ZAL 68.45 ZAP 130.74 ETS 347.09 ZAE 138.75 ETE 196.90 ZAC 122.65 ETC 8.23 CLP-132.72
PLANETOCENTRIC CONIC
C3 8.383 VHL 2.895 DLA -14.88 RAL 165.95 RAD 6567.3 VEL 11.392 PTH 1.97 VHP 3.752 DPA 1.10 RAP 143.31 ECC 1.1380

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 27 4	1546.23	.28	2.48	14.99	118.32	8 52 50	946.2	4.06	355.85
90.00	16 29 17	5153.50	25.46	230.01	18.48	77.17	17 55 11	4553.5	23.44	221.92
100.00	9 40 21	1309.73	-.59	344.62	14.51	119.89	10 2 11	709.7	3.39	338.09
100.00	17 58 40	4865.23	26.42	208.55	18.22	75.48	19 19 46	4265.2	24.17	200.47
110.00	10 30 39	1152.21	-2.81	331.28	13.13	124.08	10 49 51	552.2	1.69	325.08
110.00	19 24 52	4595.51	28.92	187.21	17.36	70.93	20 41 28	3995.5	26.05	179.21

DIFFERENTIAL CORRECTIONS
TDE-1.1525 TRA .9790 TC3-5.6565 BAU .6484
RDE -.1739 RRA .3231 RC3-1.2147 FAU .11892
FDE-3.2332 FRA 3.1687 FC-12.2822 BSP 14185
BDE 1.1656 BRA 1.0309 BC3 5.7855 FSP -3272

MID-COURSE EXECUTION ACCURACY
SGT 4466.4 SGR 1025.1 SG3 998.7
RRT .9643 RRF .9702 RTF .9858
SGB 4582.5 R23 .0616 R13 .9867
SG1 4574.9 SG2 265.1 THA 12.52

ORBIT DETERMINATION ACCURACY
ST 2360.8 SR 397.8 SS 2169.4
CRT .9650 CRS -.9740 CST -.9992
LSA 3228.7 MSA 113.9 SSA 16.8
EL1 2391.8 EL2 102.9 ALF 9.25

LAUNCH DATE MAY 22 1967 FLIGHT TIME 178.00 ARRIVAL DATE NOV 16 1967

HELIOCENTRIC CONIC DISTANCE 491.196
RL 151.43 LAL -.00 LOL 240.24 VL 26.938 GAL 3.15 AZL 92.16 HCA 220.68 SMA 129.20 ECC .18034 INC 2.1625 V1 29.423
RP 107.58 LAP 1.41 LOP 100.89 VP 37.950 GAP 3.90 AZP 88.36 TAL 165.40 TAP 26.08 RCA 105.90 APO 152.50 V2 35.227
RC 110.226 GL -20.00 GP -14.25 ZAL 67.28 ZAP 134.06 ETS 347.02 ZAE 137.25 ETE 194.36 ZAC 122.33 ETC 9.26 CLP-135.85
PLANETOCENTRIC CONIC
C3 8.811 VHL 2.968 DLA -16.14 RAL 166.85 RAD 6567.3 VEL 11.411 PTH 1.98 VHP 3.886 DPA 2.61 RAP 143.91 ECC 1.1450

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 42 18	1510.39	1.43	.49	16.67	118.28	9 7 29	910.4	5.20	353.83
90.00	16 21 13	5208.21	26.23	233.83	20.50	78.93	17 48 1	4608.2	24.44	225.62
100.00	9 54 39	1276.99	.52	342.82	16.16	119.89	10 15 56	677.0	4.50	336.29
100.00	17 51 34	4916.84	27.25	212.16	20.26	77.21	19 13 31	4316.8	25.22	203.95
110.00	10 42 55	1125.76	-1.80	329.90	14.71	124.14	11 1 41	525.8	2.70	323.70
110.00	19 19 47	4640.84	29.89	190.39	19.45	72.59	20 37 8	4040.8	27.22	182.21

DIFFERENTIAL CORRECTIONS
TDE-1.2817 TRA 1.0771 TC3-5.6452 BAU .6761
RDE -.1416 RRA .3013 RC3-1.0372 FAU .11025
FDE-3.1898 FRA 3.0799 FC-10.8331 BSP 14848
BDE 1.2895 BRA 1.1184 BC3 5.7397 FSP -3077

MID-COURSE EXECUTION ACCURACY
SGT 4694.3 SGR 905.8 SG3 936.8
RRT .9525 RRF .9561 RTF .9859
SGB 4780.8 R23 .0455 R13 .9864
SG1 4773.1 SG2 271.1 THA 10.45

ORBIT DETERMINATION ACCURACY
ST 2559.8 SR 328.7 SS 2160.3
CRT .9461 CRS -.9569 CST -.9993
LSA 3363.5 MSA 117.5 SSA 17.0
EL1 2578.6 EL2 105.7 ALF 6.94

LAUNCH DATE MAY 22 1967 FLIGHT TIME 180.00 ARRIVAL DATE NOV 18 1967

HELIOCENTRIC CONIC DISTANCE 497.346
RL 151.43 LAL -.00 LOL 240.24 VL 26.920 GAL 3.35 AZL 92.28 HCA 223.92 SMA 129.08 ECC .18244 INC 2.2806 V1 29.423
RP 107.56 LAP 1.58 LOP 104.13 VP 37.943 GAP 4.31 AZP 88.36 TAL 164.69 TAP 28.61 RCA 105.53 APO 152.63 V2 35.233
RC 112.475 GL -20.56 GP -12.87 ZAL 66.03 ZAP 137.14 ETS 346.97 ZAE 135.80 ETE 192.37 ZAC 121.80 ETC 10.14 CLP-138.76
PLANETOCENTRIC CONIC
C3 9.269 VHL 3.045 DLA -17.21 RAL 167.89 RAD 6567.3 VEL 11.431 PTH 1.98 VHP 4.033 DPA 3.82 RAP 144.66 ECC 1.1526

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 56 53	1480.11	2.41	358.79	18.50	118.22	9 21 33	880.1	6.16	352.13
90.00	16 14 54	5258.07	26.83	237.35	22.66	80.60	17 42 33	4658.1	25.26	229.04
100.00	10 8 18	1249.63	1.45	341.32	17.97	119.86	10 29 8	649.6	5.41	334.77
100.00	17 46 10	4963.78	27.91	215.49	22.44	78.85	19 8 54	4363.8	26.09	207.16
110.00	10 54 43	1104.21	-.97	328.78	16.46	124.17	11 13 8	504.2	3.52	322.57
110.00	19 16 14	4681.97	30.69	193.32	21.67	74.15	20 34 16	4082.0	28.22	185.00

DIFFERENTIAL CORRECTIONS
TDE-1.4071 TRA 1.1807 TC3-5.5976 BAU .7025
RDE -.1109 RRA .2840 RC3 -.8942 FAU .10180
FDE-3.1191 FRA 2.9920 FC3-9.5076 BSP 15496
BDE 1.4114 BRA 1.2144 BC3 5.6686 FSP -2888

MID-COURSE EXECUTION ACCURACY
SGT 4903.1 SGR 808.1 SG3 875.7
RRT .9363 RRF .9371 RTF .9858
SGB 4969.3 R23 .0315 R13 .9861
SG1 4961.4 SG2 280.5 THA 8.80

ORBIT DETERMINATION ACCURACY
ST 2740.2 SR 268.3 SS 2137.2
CRT .9131 CRS -.9265 CST -.9994
LSA 3483.3 MSA 120.9 SSA 17.1
EL1 2751.2 EL2 108.9 ALF 5.12

LAUNCH DATE MAY 22 1967 FLIGHT TIME 182.00 ARRIVAL DATE NOV 20 1967

HELIOCENTRIC CONIC DISTANCE 503.474
RL 151.43 LAL -.00 LOL 240.24 VL 26.900 GAL 3.55 AZL 92.39 HCA 227.16 SMA 128.95 ECC .18473 INC 2.3855 V1 29.423
RP 107.54 LAP 1.75 LOP 107.37 VP 37.934 GAP 4.71 AZP 88.38 TAL 163.94 TAP 31.10 RCA 105.13 APO 152.77 V2 35.239
RC 114.720 GL -20.95 GP -11.69 ZAL 64.74 ZAP 139.99 ETS 346.93 ZAE 134.45 ETE 190.79 ZAC 121.08 ETC 10.88 CLP-141.45
PLANETOCENTRIC CONIC
C3 9.765 VHL 3.125 DLA -18.15 RAL 169.04 RAD 6567.4 VEL 11.452 PTH 1.99 VHP 4.192 DPA 4.78 RAP 145.53 ECC 1.1607

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 10 54	1454.49	3.23	357.36	20.48	118.15	9 35 9	854.5	6.97	350.68
90.00	16 10 4	5304.11	27.30	240.64	24.92	82.19	17 38 28	4704.1	25.94	232.24
100.00	10 21 28	1226.81	2.22	340.07	19.92	119.82	10 41 55	626.8	6.18	333.51
100.00	17 42 11	5007.02	28.44	218.59	24.72	80.40	19 5 38	4407.0	26.82	210.16
110.00	11 6 9	1086.81	-.31	327.87	18.34	124.18	11 24 16	486.8	4.18	321.66
110.00	19 14 0	4719.79	31.36	196.06	24.01	75.65	20 32 39	4119.8	29.07	187.61

DIFFERENTIAL CORRECTIONS
TDE-1.5280 TRA 1.2915 TC3-5.5142 BAU .7270
RDE -.0815 RRA .2705 RC3 -.7766 FAU .09359
FDE-3.0275 FRA 2.9100 FC3-8.2973 BSP 16091
BDE 1.5302 BRA 1.3195 BC3 5.5686 FSP -2700

MID-COURSE EXECUTION ACCURACY
SGT 5092.7 SGR 728.2 SG3 816.1
RRT .9146 RRF .9125 RTF .9856
SGB 5144.5 R23 .0199 R13 .9858
SG1 5136.2 SG2 291.9 THA 7.47

ORBIT DETERMINATION ACCURACY
ST 2901.6 SR 216.9 SS 2101.8
CRT .8535 CRS -.8702 CST -.9994
LSA 3587.2 MSA 124.6 SSA 17.2
EL1 2907.5 EL2 112.8 ALF 3.66

LAUNCH DATE MAY 22 1967 FLIGHT TIME 184.00 ARRIVAL DATE NOV 22 1967

HELIOCENTRIC CONIC DISTANCE 509.580
RL 151.43 LAL -.00 LOL 240.24 VL 26.880 GAL 3.78 AZL 92.48 HCA 230.40 SMA 128.81 ECC .18721 INC 2.4801 V1 29.423
RP 107.52 LAP 1.91 LOP 110.61 VP 37.925 GAP 5.12 AZP 88.42 TAL 163.16 TAP 33.57 RCA 104.69 APO 152.92 V2 35.244
RC 116.961 GL -21.20 GP -10.67 ZAL 63.39 ZAP 142.62 ETS 346.87 ZAE 133.19 ETE 189.53 ZAC 120.20 ETC 11.50 CLP-143.97
PLANETOCENTRIC CONIC
C3 10.303 VHL 3.210 DLA -18.96 RAL 170.28 RAD 6567.4 VEL 11.476 PTH 1.99 VHP 4.361 DPA 5.52 RAP 146.54 ECC 1.1696

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 24 27	1432.96	3.92	356.16	22.58	118.07	9 48 20	833.0	7.65	349.46
90.00	16 6 28	5347.03	27.66	243.73	27.29	83.70	17 35 35	4747.0	26.50	235.26
100.00	10 34 11	1207.95	2.86	339.03	22.00	119.77	10 54 19	607.9	6.80	332.46
100.00	17 39 25	5047.28	28.87	221.51	27.12	81.88	19 3 33	4447.3	27.44	213.00
110.00	11 17 15	1073.02	.22	327.15	20.35	124.18	11 35 8	473.0	4.70	320.93
110.00	19 12 51	4754.97	31.93	198.65	26.46	77.09	20 32 6	4155.0	29.82	190.07

DIFFERENTIAL CORRECTIONS
TDE-1.6428 TRA 1.4123 TC3-5.3915 BAU .7485
RDE -.0530 RRA .2602 RC3 -.6776 FAU .08553
FDE-2.9176 FRA 2.8396 FC3-7.1865 BSP 16583
BDE 1.6437 BRA 1.4360 BC3 5.4339 FSP -2507

MID-COURSE EXECUTION ACCURACY
SGT 5261.5 SGR 662.9 SG3 758.8
RRT .8866 RRF .8816 RTF .9852
SGB 5303.1 R23 .0110 R13 .9853
SG1 5294.3 SG2 304.7 THA 6.40

ORBIT DETERMINATION ACCURACY
ST 3041.3 SR 175.6 SS 2054.3
CRT .7429 CRS -.7642 CST -.9994
LSA 3672.0 MSA 128.9 SSA 17.3
EL1 3044.1 EL2 117.5 ALF 2.46

LAUNCH DATE MAY 22 1967 FLIGHT TIME 186.00 ARRIVAL DATE NOV 24 1967

HELIOCENTRIC CONIC DISTANCE 515.660
RL 151.43 LAL -.00 LOL 240.24 VL 26.858 GAL 4.02 AZL 92.57 HCA 233.65 SMA 128.67 ECC .18990 INC 2.5661 V1 29.423
RP 107.51 LAP 2.07 LOP 113.86 VP 37.913 GAP 5.53 AZP 88.48 TAL 162.35 TAP 36.00 RCA 104.23 APO 153.10 V2 35.248
RC 119.197 GL -21.32 GP -9.79 ZAL 62.01 ZAP 145.08 ETS 346.79 ZAE 132.04 ETE 188.51 ZAC 119.16 ETC 12.01 CLP-146.31
PLANETOCENTRIC CONIC
C3 10.890 VHL 3.300 DLA -19.67 RAL 171.61 RAD 6567.4 VEL 11.501 PTH 2.00 VHP 4.539 DPA 6.07 RAP 147.66 ECC 1.1792

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 37 34	1415.11	4.49	355.16	24.79	117.99	10 1 9	815.1	8.20	348.44
90.00	16 3 57	5387.37	27.93	246.65	29.75	85.14	17 33 45	4787.4	26.96	238.12
100.00	10 46 30	1192.66	3.38	338.19	24.18	119.72	11 6 23	592.7	7.31	331.61
100.00	17 37 43	5085.06	29.20	224.27	29.60	83.29	19 2 28	4485.1	27.96	215.68
110.00	11 28 2	1062.49	.62	326.60	22.46	124.18	11 45 45	462.5	5.10	320.38
110.00	19 12 40	4787.99	32.40	201.11	29.00	78.47	20 32 28	4188.0	30.48	192.42

DIFFERENTIAL CORRECTIONS
TDE-1.7577 TRA 1.5376 TC3-5.2545 BAU .7699
RDE -.0264 RRA .2517 RC3 -.5966 FAU .07831
FDE-2.8104 FRA 2.7681 FC3-6.2253 BSP 17113
BDE 1.7579 BRA 1.5581 BC3 5.2882 FSP -2342

MID-COURSE EXECUTION ACCURACY
SGT 5420.1 SGR 610.3 SG3 705.8
RRT .8528 RRF .8444 RTF .9849
SGB 5454.4 R23 .0030 R13 .9849
SG1 5445.2 SG2 317.3 THA 5.50

ORBIT DETERMINATION ACCURACY
ST 3169.8 SR 147.1 SS 2006.3
CRT .5569 CRS -.5828 CST -.9994
LSA 3751.9 MSA 132.8 SSA 17.3
EL1 3170.8 EL2 122.1 ALF 1.48

LAUNCH DATE MAY 22 1967 FLIGHT TIME 188.00 ARRIVAL DATE NOV 26 1967

HELIOCENTRIC CONIC DISTANCE 521.716
RL 151.43 LAL -.00 LOL 240.24 VL 26.836 GAL 4.28 AZL 92.65 HCA 236.90 SMA 128.52 ECC .19281 INC 2.6453 V1 29.423
RP 107.50 LAP 2.22 LOP 117.10 VP 37.901 GAP 5.94 AZP 88.55 TAL 161.52 TAP 38.41 RCA 103.74 APO 153.29 V2 35.252
RC 121.426 GL -21.33 GP -9.03 ZAL 60.59 ZAP 147.37 ETS 346.67 ZAE 130.99 ETE 187.68 ZAC 118.00 ETC 12.42 CLP-148.51
PLANETOCENTRIC CONIC
C3 11.533 VHL 3.396 DLA -20.30 RAL 173.01 RAD 6567.4 VEL 11.529 PTH 2.01 VHP 4.726 DPA 6.46 RAP 148.90 ECC 1.1898

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 50 15	1400.67	4.96	354.35	27.10	117.92	10 13 36	800.7	8.65	347.62
90.00	16 2 25	5425.51	28.12	249.43	32.30	86.52	17 32 50	4825.5	27.34	240.85
100.00	10 58 26	1180.67	3.78	337.53	26.46	119.67	11 18 6	580.7	7.71	330.94
100.00	17 36 56	5120.74	29.45	226.89	32.18	84.65	19 2 16	4520.7	28.40	218.24
110.00	11 38 33	1054.95	.91	326.21	24.67	124.17	11 56 8	455.0	5.39	319.98
110.00	19 13 18	4819.23	32.80	203.46	31.64	79.80	20 33 37	4219.2	31.05	194.67

DIFFERENTIAL CORRECTIONS
TDE-1.8704 TRA 1.6712 TC3-5.0957 BAU .7899
RDE -.0008 RRA .2449 RC3 -.5278 FAU .07163
FDE-2.7018 FRA 2.7026 FC3-5.3765 BSP 17610
BDE 1.8704 BRA 1.6890 BC3 5.1230 FSP -2189

MID-COURSE EXECUTION ACCURACY
SGT 5565.4 SGR 568.0 SG3 656.6
RRT .8129 RRF .8010 RTF .9845
SGB 5594.3 R23 -.0036 R13 .9845
SG1 5584.6 SG2 329.7 THA 4.76

ORBIT DETERMINATION ACCURACY
ST 3283.5 SR 132.6 SS 1954.9
CRT .2865 CRS -.3156 CST -.9995
LSA 3821.2 MSA 136.9 SSA 17.2
EL1 3283.7 EL2 127.1 ALF .66

LAUNCH DATE MAY 22 1967 FLIGHT TIME 190.00 ARRIVAL DATE NOV 28 1967

HELIOCENTRIC CONIC DISTANCE 527.745

```
RL  151.43 LAL   -.00 LOL 240.24 VL  26.813 GAL   4.55 AZL  92.72 HCA 240.14 SMA 128.36 ECC .19594 INC 2.7189 V1  29.423
RP  107.49 LAP   2.36 LOP 120.35 VP  37.887 GAP   6.36 AZP  88.65 TAL 160.65 TAP  40.79 RCA 103.21 APO 153.51 V2  35.255
RC 123.648 GL  -21.25 GP   -8.36 ZAL  59.14 ZAP 149.51 ETS 346.52 ZAE 130.03 ETE 187.00 ZAC 116.72 ETC  12.75 CLP-150.57
```

PLANETOCENTRIC CONIC

```
C3  12.241 VHL  3.499 DLA -20.85 RAL 174.46 RAD 6567.5 VEL 11.560 PTH   2.02 VHP  4.922 DPA   6.71 RAP 150.23 ECC 1.2015
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 2 32	1389.47	5.31	353.72	29.50	117.85	10 25 41	789.5	9.00	346.98
90.00	16 1 45	5461.73	28.24	252.07	34.92	87.84	17 32 47	4861.7	27.64	243.46
100.00	11 9 58	1171.80	4.08	337.04	28.83	119.64	11 29 30	571.8	8.00	330.44
100.00	17 36 59	5154.63	29.64	229.39	34.84	85.95	19 2 54	4554.6	28.77	220.70
110.00	11 48 46	1050.23	1.09	325.96	26.96	124.17	12 6 16	450.2	5.57	319.74
110.00	19 14 41	4848.97	33.14	205.71	34.37	81.10	20 35 30	4249.0	31.56	196.84

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.9802 TRA 1.8142 TC3-4.9161 BAU  .8082   SGT 5697.1 SGR  534.1 SG3  610.7      ST  3381.8 SR   132.4 SS  1899.9
RDE  .0241 RRA  .2396 RC3 -.4683 FAU .06536   RRT  .7671 RRF  .7520 RTF  .9841     CRT -.0152 CRS -.0146 CST -.9995
FDE-2.5918 FRA 2.6450 FC3-4.6228 BSP  18059   SGB 5722.1 R23 -.0088 R13  .9840     LSA 3878.6 MSA  141.4 SSA   17.3
BDE 1.9804 BRA 1.8300 BC3 4.9383 FSP  -2043   SG1 5711.9 SG2  341.7 THA   4.13     EL1 3381.8 EL2  132.4 ALF 179.97
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 192.00 ARRIVAL DATE NOV 30 1967

HELIOCENTRIC CONIC DISTANCE 533.745

```
RL  151.43 LAL   -.00 LOL 240.24 VL  26.789 GAL   4.85 AZL  92.79 HCA 243.39 SMA 128.20 ECC .19931 INC 2.7878 V1  29.423
RP  107.48 LAP   2.49 LOP 123.60 VP  37.873 GAP   6.79 AZP  88.75 TAL 159.76 TAP  43.15 RCA 102.65 APO 153.76 V2  35.257
RC 125.861 GL  -21.09 GP   -7.77 ZAL  57.68 ZAP 151.53 ETS 346.32 ZAE 129.15 ETE 186.43 ZAC 115.34 ETC  13.01 CLP-152.52
```

PLANETOCENTRIC CONIC

```
C3  13.022 VHL  3.609 DLA -21.33 RAL 175.96 RAD 6567.5 VEL 11.593 PTH   2.03 VHP  5.127 DPA   6.84 RAP 151.65 ECC 1.2143
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 14 21	1381.39	5.57	353.26	31.98	117.81	10 37 23	781.4	9.25	346.51
90.00	16 1 53	5496.24	28.30	254.59	37.62	89.10	17 33 29	4896.2	27.88	245.95
100.00	11 21 7	1165.93	4.28	336.72	31.27	119.61	11 40 33	565.9	8.19	330.11
100.00	17 37 48	5186.93	29.77	231.78	37.57	87.21	19 4 15	4586.9	29.07	223.05
110.00	11 58 41	1048.19	1.17	325.86	29.33	124.17	12 16 9	448.2	5.64	319.63
110.00	19 16 44	4877.44	33.42	207.89	37.18	82.36	20 38 1	4277.4	32.00	198.94

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.0887 TRA 1.9669 TC3-4.7203 BAU  .8249   SGT 5817.6 SGR  507.0 SG3  568.4      ST  3467.1 SR   143.0 SS  1844.0
RDE  .0484 RRA  .2353 RC3 -.4164 FAU .05958   RRT  .7165 RRF  .6981 RTF  .9836     CRT -.2681 CRS  .2400 CST -.9995
FDE-2.4849 FRA 2.5931 FC3-3.9613 BSP  18472   SGB 5839.6 R23 -.0132 R13  .9835     LSA 3926.8 MSA  146.0 SSA   17.0
BDE 2.0893 BRA 1.9809 BC3 4.7386 FSP  -1907   SG1 5829.0 SG2  353.0 THA   3.59     EL1 3467.3 EL2  137.8 ALF 179.37
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 2 1967

HELIOCENTRIC CONIC DISTANCE 539.717

```
RL  151.43 LAL   -.00 LOL 240.24 VL  26.765 GAL   5.16 AZL  92.85 HCA 246.64 SMA 128.04 ECC .20293 INC 2.8529 V1  29.423
RP  107.48 LAP   2.62 LOP 126.85 VP  37.857 GAP   7.22 AZP  88.87 TAL 158.85 TAP  45.49 RCA 102.06 APO 154.03 V2  35.258
RC 128.066 GL  -20.86 GP   -7.25 ZAL  56.20 ZAP 153.42 ETS 346.08 ZAE 128.36 ETE 185.96 ZAC 113.87 ETC  13.20 CLP-154.36
```

PLANETOCENTRIC CONIC

```
C3  13.885 VHL  3.726 DLA -21.75 RAL 177.50 RAD 6567.5 VEL 11.631 PTH   2.04 VHP  5.340 DPA   6.85 RAP 153.15 ECC 1.2285
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 25 43	1376.37	5.73	352.98	34.52	117.78	10 48 40	776.4	9.40	346.23
90.00	16 2 45	5529.20	28.32	257.00	40.39	90.31	17 34 54	4929.2	28.06	248.35
100.00	11 31 50	1162.98	4.38	336.55	33.78	119.60	11 51 13	563.0	8.29	329.95
100.00	17 39 19	5217.83	29.85	234.08	40.37	88.41	19 6 17	4617.8	29.31	225.31
110.00	12 8 17	1048.75	1.15	325.88	31.77	124.17	12 25 45	448.7	5.62	319.66
110.00	19 19 22	4904.82	33.65	209.99	40.06	83.58	20 41 7	4304.8	32.39	200.98

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.1930 TRA 2.1321 TC3-4.5036 BAU  .8388   SGT 5923.9 SGR  485.5 SG3  529.0      ST  3535.8 SR   160.5 SS  1785.0
RDE  .0726 RRA  .2318 RC3 -.3700 FAU .05407   RRT  .6618 RRF  .6406 RTF  .9830     CRT -.4468 CRS  .4211 CST -.9995
FDE-2.3773 FRA 2.5499 FC3-3.3710 BSP  18797   SGB 5943.8 R23 -.0165 R13  .9830     LSA 3961.2 MSA  151.1 SSA   16.8
BDE 2.1942 BRA 2.1447 BC3 4.5187 FSP  -1775   SG1 5932.7 SG2  363.4 THA   3.12     EL1 3536.5 EL2  143.6 ALF 178.84
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 4 1967

HELIOCENTRIC CONIC DISTANCE 545.655

```
RL  151.43 LAL   -.00 LOL 240.24 VL  26.740 GAL   5.49 AZL  92.91 HCA 249.88 SMA 127.88 ECC .20682 INC 2.9149 V1  29.423
RP  107.48 LAP   2.74 LOP 130.10 VP  37.839 GAP   7.66 AZP  89.00 TAL 157.92 TAP  47.80 RCA 101.43 APO 154.32 V2  35.259
RC 130.261 GL  -20.57 GP   -6.80 ZAL  54.71 ZAP 155.21 ETS 345.77 ZAE 127.64 ETE 185.55 ZAC 112.31 ETC  13.35 CLP-156.11
```

PLANETOCENTRIC CONIC

```
C3  14.843 VHL  3.853 DLA -22.11 RAL 179.06 RAD 6567.6 VEL 11.672 PTH   2.05 VHP  5.562 DPA   6.76 RAP 154.72 ECC 1.2443
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 36 36	1374.37	5.79	352.87	37.13	117.77	10 59 30	774.4	9.46	346.11
90.00	16 4 19	5560.73	28.28	259.31	43.22	91.46	17 36 59	4960.7	28.19	250.65
100.00	11 42 7	1162.88	4.38	336.55	36.36	119.60	12 1 30	562.9	8.29	329.94
100.00	17 41 28	5247.44	29.89	236.28	43.24	89.57	19 8 56	4647.4	29.51	227.49
110.00	12 17 33	1051.83	1.03	326.05	34.27	124.17	12 35 5	451.8	5.51	319.82
110.00	19 22 32	4931.26	33.83	212.04	43.01	84.78	20 44 43	4331.3	32.74	202.97

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.2997 TRA 2.3052 TC3-4.2851 BAU  .8528   SGT 6024.2 SGR  468.4 SG3  493.2      ST  3597.0 SR   180.7 SS  1729.4
RDE  .0963 RRA  .2285 RC3 -.3293 FAU .04916   RRT  .6043 RRF  .5805 RTF  .9825     CRT -.5642 CRS  .5410 CST -.9996
FDE-2.2792 FRA 2.5084 FC3-2.8673 BSP  19159   SGB 6042.3 R23 -.0195 R13  .9825     LSA 3992.2 MSA  155.9 SSA   16.5
BDE 2.3017 BRA 2.3165 BC3 4.2978 FSP  -1662   SG1 6030.8 SG2  372.8 THA   2.70     EL1 3598.5 EL2  149.2 ALF 178.37
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 6 1967

HELIOCENTRIC CONIC DISTANCE 551.559

```
RL  151.43 LAL   -.00 LOL 240.24 VL  26.714 GAL   5.85 AZL  92.97 HCA 253.13 SMA 127.71 ECC .21100 INC 2.9744 V1  29.423
RP  107.48 LAP   2.85 LOP 133.35 VP  37.821 GAP   8.11 AZP  89.14 TAL 156.97 TAP  50.10 RCA 100.76 APO 154.66 V2  35.259
RC 132.447 GL  -20.23 GP   -6.39 ZAL  53.22 ZAP 156.91 ETS 345.40 ZAE 126.98 ETE 185.20 ZAC 110.69 ETC  13.46 CLP-157.77
```

PLANETOCENTRIC CONIC

```
C3  15.908 VHL  3.988 DLA -22.41 RAL 180.63 RAO 6567.6 VEL 11.717 PTH   2.06 VHP  5.793 DPA   6.59 RAP 156.34 ECC 1.2618
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 46 57	1375.37	5.76	352.92	39.79	117.77	11 9 52	775.4	9.43	346.17
90.00	16 6 31	5590.90	28.21	261.51	46.10	92.57	17 39 42	4990.9	28.27	252.85
100.00	11 51 56	1165.62	4.29	336.70	38.98	119.61	12 11 22	565.6	8.20	330.09
100.00	17 44 13	5275.89	29.89	238.39	46.16	90.68	19 12 9	4675.9	29.66	229.60
110.00	12 26 28	1057.39	.82	326.33	36.82	124.17	12 44 5	457.4	5.30	320.11
110.00	19 26 11	4956.89	33.97	214.02	46.02	85.95	20 48 48	4356.9	33.04	204.91

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE-2.4056 TRA 2.4894 TC3-4.0581 BAU  .8653   SGT 6114.3 SGR  454.7 SG3  460.1      ST  3646.7 SR   201.9 SS  1674.2
 RDE  .1199 RRA  .2254 RC3 -.2926 FAU .04462   RRT  .5448 RRF  .5187 RTF  .9821     CRT -.6421 CRS  .6211 CST -.9996
 FDE-2.1855 FRA 2.4714 FC3-2.4281 BSP  19494   SGB 6131.2 R23 -.0220 R13  .9820     LSA 4014.4 MSA  160.7 SSA   16.3
 BDE 2.4086 BRA 2.4996 BC3 4.0686 FSP  -1556   SG1 6119.4 SG2  381.0 THA   2.33     EL1 3649.0 EL2  154.7 ALF 177.96
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 8 1967

HELIOCENTRIC CONIC DISTANCE 557.425

```
RL  151.43 LAL   -.00 LOL 240.24 VL  26.688 GAL   6.23 AZL  93.03 HCA 256.38 SMA 127.54 ECC .21550 INC 3.0319 V1  29.423
RP  107.48 LAP   2.95 LOP 136.60 VP  37.802 GAP   8.58 AZP  89.29 TAL 156.01 TAP  52.39 RCA 100.05 APO 155.02 V2  35.258
RC 134.624 GL  -19.84 GP   -6.03 ZAL  51.74 ZAP 158.53 ETS 344.96 ZAE 126.38 ETE 184.90 ZAC 109.00 ETC  13.54 CLP-159.36
```

PLANETOCENTRIC CONIC

```
C3  17.094 VHL  4.134 DLA -22.67 RAL 182.22 RAO 6567.7 VEL 11.768 PTH   2.08 VHP  6.035 DPA   6.34 RAP 158.03 ECC 1.2813
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 56 46	1379.37	5.63	353.15	42.49	117.80	11 19 45	779.4	9.31	346.40
90.00	16 9 21	5619.82	28.10	263.62	49.04	93.62	17 43 1	5019.8	28.31	254.96
100.00	12 1 16	1171.14	4.10	337.00	41.65	119.64	12 20 47	571.1	8.02	330.40
100.00	17 47 31	5303.28	29.85	240.43	49.13	91.75	19 15 54	4703.3	29.77	231.62
110.00	12 35 1	1065.36	.51	326.75	39.41	124.18	12 52 46	465.4	4.99	320.53
110.00	19 30 16	4981.82	34.07	215.96	49.08	87.09	20 53 18	4381.8	33.30	206.81

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE-2.5111 TRA 2.6861 TC3-3.8240 BAU  .8759   SGT 6195.3 SGR  443.9 SG3  429.6      ST  3685.5 SR   223.0 SS  1619.8
 RDE  .1437 RRA  .2222 RC3 -.2593 FAU .04037   RRT  .4841 RRF  .4562 RTF  .9816     CRT -.6951 CRS  .6759 CST -.9996
 FDE-2.0963 FRA 2.4399 FC3-2.0447 BSP  19796   SGB 6211.2 R23 -.0239 R13  .9815     LSA 4028.5 MSA  165.6 SSA   16.0
 BDE 2.5152 BRA 2.6953 BC3 3.8328 FSP  -1458   SG1 6199.0 SG2  388.2 THA   1.99     EL1 3688.7 EL2  160.2 ALF 177.59
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 10 1967

HELIOCENTRIC CONIC DISTANCE 563.251

```
RL  151.43 LAL   -.00 LOL 240.24 VL  26.662 GAL   6.63 AZL  93.09 HCA 259.63 SMA 127.37 ECC .22033 INC 3.0878 V1  29.423
RP  107.48 LAP   3.04 LOP 139.85 VP  37.782 GAP   9.06 AZP  89.44 TAL 155.03 TAP  54.66 RCA  99.30 APO 155.43 V2  35.256
RC 136.791 GL  -19.42 GP   -5.71 ZAL  50.26 ZAP 160.08 ETS 344.43 ZAE 125.83 ETE 184.64 ZAC 107.25 ETC  13.59 CLP-160.88
```

PLANETOCENTRIC CONIC

```
C3  18.418 VHL  4.292 DLA -22.88 RAL 183.80 RAO 6567.7 VEL 11.824 PTH   2.09 VHP  6.288 DPA   6.01 RAP 159.75 ECC 1.3031
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 6 0	1386.33	5.41	353.54	45.22	117.84	11 29 6	786.3	9.10	346.80
90.00	16 12 45	5647.54	27.97	265.64	52.03	94.62	17 46 52	5047.5	28.32	256.99
100.00	12 10 6	1179.42	3.82	337.46	44.35	119.67	12 29 46	579.4	7.75	330.87
100.00	17 51 20	5329.69	29.77	242.39	52.16	92.78	19 20 9	4729.7	29.84	233.58
110.00	12 43 11	1075.72	.12	327.29	42.04	124.18	13 1 6	475.7	4.60	321.08
110.00	19 34 44	5006.15	34.14	217.86	52.20	88.21	20 58 11	4406.2	33.52	208.67

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE-2.6141 TRA 2.8982 TC3-3.5808 BAU  .8835   SGT 6266.1 SGR  435.2 SG3  401.5      ST  3711.6 SR   243.5 SS  1565.3
 RDE  .1678 RRA  .2189 RC3 -.2288 FAU .03633   RRT  .4232 RRF  .3941 RTF  .9810     CRT -.7319 CRS  .7140 CST -.9996
 FDE-2.0095 FRA 2.4152 FC3-1.7077 BSP  20007   SGB 6281.2 R23 -.0250 R13  .9810     LSA 4031.9 MSA  170.6 SSA   15.7
 BDE 2.6195 BRA 2.9065 BC3 3.5882 FSP  -1362   SG1 6268.9 SG2  394.1 THA   1.69     EL1 3715.9 EL2  165.7 ALF 177.25
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 204.00 ARRIVAL DATE DEC 12 1967

HELIOCENTRIC CONIC DISTANCE 569.032

```
RL  151.43 LAL   -.00 LOL 240.24 VL  26.635 GAL   7.06 AZL  93.14 HCA 262.87 SMA 127.19 ECC .22552 INC 3.1426 V1  29.423
RP  107.49 LAP   3.12 LOP 143.10 VP  37.761 GAP   9.55 AZP  89.61 TAL 154.05 TAP  56.92 RCA  98.51 APO 155.88 V2  35.254
RC 138.949 GL  -18.96 GP   -5.42 ZAL  48.80 ZAP 161.56 ETS 343.81 ZAE 125.32 ETE 184.41 ZAC 105.46 ETC  13.62 CLP-162.34
```

PLANETOCENTRIC CONIC

```
C3  19.899 VHL  4.461 DLA -23.05 RAL 185.38 RAO 6567.8 VEL 11.886 PTH   2.11 VHP  6.552 DPA   5.63 RAP 161.52 ECC 1.3275
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 14 38	1396.25	5.10	354.10	47.99	117.89	11 37 55	796.2	8.79	347.36
90.00	16 16 41	5674.14	27.81	267.57	55.05	95.58	17 51 15	5074.1	28.29	258.94
100.00	12 18 24	1190.42	3.45	338.07	47.08	119.71	12 38 15	590.4	7.38	331.48
100.00	17 55 36	5355.20	29.68	244.28	55.23	93.77	19 24 51	4755.2	29.88	235.48
110.00	12 50 56	1088.41	-.37	327.95	44.70	124.18	13 9 5	488.4	4.12	321.74
110.00	19 39 33	5029.97	34.18	219.72	55.37	89.31	21 3 23	4430.0	33.70	210.51

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE-2.7213 TRA 3.1204 TC3-3.3439 BAU  .8912   SGT 6331.5 SGR  428.0 SG3  375.7      ST  3732.6 SR   262.6 SS  1514.8
 RDE  .1920 RRA  .2150 RC3 -.2014 FAU .03272   RRT  .3620 RRF  .3321 RTF  .9806     CRT -.7589 CRS  .7422 CST -.9996
 FDE-1.9316 FRA 2.3915 FC3-1.4237 BSP  20273   SGB 6346.0 R23 -.0261 R13  .9806     LSA 4033.0 MSA  175.2 SSA   15.4
 BDE 2.7281 BRA 3.1278 BC3 3.3499 FSP  -1279   SG1 6333.4 SG2  398.9 THA   1.41     EL1 3738.0 EL2  170.8 ALF 176.94
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 206.00 ARRIVAL DATE DEC 14 1967

HELIOCENTRIC CONIC DISTANCE 574.762

```
RL  151.43 LAL   -.00 LOL 240.24 VL  26.608 GAL   7.51 AZL  93.20 HCA 266.12 SMA 127.02 ECC .23110 INC 3.1965 V1  29.423
RP  107.50 LAP   3.19 LOP 146.35 VP  37.739 GAP  10.06 AZP  89.78 TAL 153.05 TAP  59.17 RCA  97.66 APO 156.37 V2  35.251
RC 141.095 GL  -18.47 GP   -5.16 ZAL  47.36 ZAP 162.98 ETS 343.08 ZAE 124.85 ETE 184.20 ZAC 103.62 ETC  13.64 CLP-163.76
```

PLANETOCENTRIC CONIC

```
C3  21.558 VHL  4.643 DLA -23.17 RAL 186.94 RAD 6567.9 VEL 11.956 PTH   2.13 VHP  6.830 DPA   5.18 RAP 163.31 ECC 1.3548
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 22 40	1409.08	4.69	354.82	50.78	117.96	11 46 9	809.1	8.39	348.10
90.00	16 21 8	5699.68	27.62	269.42	58.12	96.48	17 56 7	5099.7	28.24	260.80
100.00	12 26 11	1204.09	2.99	338.82	49.84	119.76	12 46 15	604.1	6.93	332.25
100.00	18 0 18	5379.90	29.55	246.10	58.34	94.73	19 29 58	4779.9	29.89	237.32
110.00	12 58 18	1103.39	-.94	328.73	47.39	124.17	13 16 41	503.4	3.55	322.53
110.00	19 44 41	5053.37	34.18	221.55	58.58	90.40	21 8 54	4453.4	33.86	212.32

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-2.8292 TRA 3.3572 TC3-3.1061 BAU  .8967    SGT 6388.7 SGR  422.0 SG3  351.9     ST  3744.9 SR   280.5 SS  1466.0
RDE  .2166 RRA  .2105 RC3 -.1763 FAU .02935    RRT  .3013 RRF  .2709 RTF  .9802    CRT -.7790 CRS  .7633 CST -.9996
FDE-1.8583 FRA 2.3719 FC3-1.1784 BSP  20513    SGB 6402.6 R23 -.0268 R13  .9802    LSA 4027.3 MSA  179.5 SSA   15.1
BDE 2.8375 BRA 3.3638 BC3 3.1111 FSP  -1202    SG1 6390.0 SG2  402.3 THA   1.14    EL1 3751.2 EL2  175.6 ALF 176.65
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 208.00 ARRIVAL DATE DEC 16 1967

HELIOCENTRIC CONIC DISTANCE 580.438

```
RL  151.43 LAL   -.00 LOL 240.24 VL  26.580 GAL   8.00 AZL  93.25 HCA 269.36 SMA 126.84 ECC .23712 INC 3.2501 V1  29.423
RP  107.51 LAP   3.25 LOP 149.60 VP  37.716 GAP  10.59 AZP  89.96 TAL 152.06 TAP  61.42 RCA  96.76 APO 156.92 V2  35.247
RC 143.232 GL  -17.96 GP   -4.92 ZAL  45.94 ZAP 164.35 ETS 342.21 ZAE 124.42 ETE 184.01 ZAC 101.75 ETC  13.65 CLP-165.13
```

PLANETOCENTRIC CONIC

```
C3  23.423 VHL  4.840 DLA -23.26 RAL 188.48 RAD 6568.0 VEL 12.033 PTH   2.15 VHP  7.122 DPA   4.69 RAP 165.14 ECC 1.3855
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 30 5	1424.79	4.19	355.70	53.58	118.03	11 53 50	824.8	7.90	348.99
90.00	16 26 2	5724.23	27.42	271.18	61.22	97.35	18 1 26	5124.2	28.16	262.59
100.00	12 33 24	1220.40	2.44	339.71	52.62	119.80	12 53 45	620.4	6.39	333.15
100.00	18 5 24	5403.86	29.40	247.87	61.48	95.64	19 35 28	4803.9	29.87	239.10
110.00	13 5 14	1120.60	-1.60	329.63	50.10	124.15	13 23 54	520.6	2.89	323.43
110.00	19 50 4	5076.41	34.16	223.35	61.83	91.46	21 14 40	4476.4	33.98	214.11

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-2.9391 TRA 3.6092 TC3-2.8710 BAU  .9003    SGT 6438.8 SGR  416.9 SG3  330.0     ST  3749.7 SR   296.9 SS  1419.6
RDE  .2416 RRA  .2052 RC3 -.1535 FAU .02621    RRT  .2410 RRF  .2108 RTF  .9800    CRT -.7944 CRS  .7796 CST -.9996
FDE-1.7903 FRA 2.3561 FC3 -.9688 BSP  20733    SGB 6452.3 R23 -.0272 R13  .9799    LSA 4016.2 MSA  183.5 SSA   14.8
BDE 2.9490 BRA 3.6150 BC3 2.8751 FSP  -1131    SG1 6439.6 SG2  404.6 THA    .90    EL1 3757.1 EL2  180.0 ALF 176.39
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 210.00 ARRIVAL DATE DEC 18 1967

HELIOCENTRIC CONIC DISTANCE 586.053

```
RL  151.43 LAL   -.00 LOL 240.24 VL  26.553 GAL   8.52 AZL  93.30 HCA 272.61 SMA 126.66 ECC .24361 INC 3.3036 V1  29.423
RP  107.53 LAP   3.30 LOP 152.85 VP  37.692 GAP  11.15 AZP  90.15 TAL 151.06 TAP  63.67 RCA  95.81 APO 157.52 V2  35.243
RC 145.356 GL  -17.43 GP   -4.71 ZAL  44.55 ZAP 165.68 ETS 341.17 ZAE 124.01 ETE 183.84 ZAC  99.84 ETC  13.65 CLP-166.46
```

PLANETOCENTRIC CONIC

```
C3  25.522 VHL  5.052 DLA -23.31 RAL 190.00 RAD 6568.0 VEL 12.120 PTH   2.17 VHP  7.430 DPA   4.15 RAP 166.99 ECC 1.4200
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 36 52	1443.30	3.59	356.74	56.40	118.11	12 0 55	843.3	7.32	350.04
90.00	16 31 22	5747.88	27.21	272.88	64.35	98.17	18 7 10	5147.9	28.06	264.32
100.00	12 40 5	1239.25	1.80	340.75	55.41	119.84	13 0 44	639.3	5.76	334.20
100.00	18 10 50	5427.16	29.23	249.58	64.65	96.53	19 41 17	4827.2	29.83	240.83
110.00	13 11 44	1139.99	-2.34	330.64	52.82	124.11	13 30 44	540.0	2.15	324.44
110.00	19 55 40	5099.19	34.10	225.12	65.10	92.51	21 20 39	4499.2	34.07	215.88

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-3.0465 TRA 3.8819 TC3-2.6320 BAU  .8992    SGT 6480.0 SGR  412.5 SG3  309.7     ST  3743.4 SR   311.9 SS  1373.4
RDE  .2672 RRA  .1989 RC3 -.1326 FAU .02312    RRT  .1821 RRF  .1527 RTF  .9796    CRT -.8058 CRS  .7915 CST -.9997
FDE-1.7235 FRA 2.3472 FC3 -.7843 BSP  20828    SGB 6493.2 R23 -.0268 R13  .9796    LSA 3995.1 MSA  187.6 SSA   14.5
BDE 3.0582 BRA 3.8870 BC3 2.6354 FSP  -1058    SG1 6480.5 SG2  405.6 THA    .67    EL1 3751.8 EL2  184.3 ALF 176.15
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 212.00 ARRIVAL DATE DEC 20 1967

HELIOCENTRIC CONIC DISTANCE 591.598

```
RL  151.43 LAL   -.00 LOL 240.24 VL  26.525 GAL   9.08 AZL  93.36 HCA 275.85 SMA 126.49 ECC .25062 INC 3.3573 V1  29.423
RP  107.54 LAP   3.34 LOP 156.10 VP  37.668 GAP  11.73 AZP  90.34 TAL 150.06 TAP  65.92 RCA  94.79 APO 158.19 V2  35.237
RC 147.469 GL  -16.88 GP   -4.52 ZAL  43.19 ZAP 166.96 ETS 339.93 ZAE 123.62 ETE 183.68 ZAC  97.91 ETC  13.64 CLP-167.75
```

PLANETOCENTRIC CONIC

```
C3  27.892 VHL  5.281 DLA -23.32 RAL 191.49 RAD 6568.1 VEL 12.217 PTH   2.20 VHP  7.755 DPA   3.57 RAP 168.85 ECC 1.4590
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 43 2	1464.54	2.91	357.92	59.22	118.18	12 7 26	864.5	6.66	351.25
90.00	16 37 5	5770.70	26.97	274.51	67.51	98.96	18 13 15	5170.7	27.94	265.98
100.00	12 46 13	1260.60	1.08	341.92	58.20	119.87	13 7 13	660.6	5.05	335.38
100.00	18 16 35	5449.87	29.05	251.24	67.85	97.39	19 47 25	4849.9	29.77	242.51
110.00	13 17 49	1161.50	-3.16	331.77	55.56	124.05	13 37 10	561.5	1.33	325.56
110.00	20 1 28	5121.73	34.02	226.88	68.41	93.55	21 26 50	4521.7	34.14	217.64

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-3.1619 TRA 4.1673 TC3-2.4063 BAU  .8983    SGT 6516.6 SGR  408.4 SG3  291.0     ST  3735.6 SR   325.3 SS  1332.1
RDE  .2932 RRA  .1914 RC3 -.1139 FAU .02039    RRT  .1231 RRF  .0947 RTF  .9795    CRT -.8154 CRS  .8018 CST -.9997
FDE-1.6655 FRA 2.3387 FC3 -.6330 BSP  21024    SGB 6529.4 R23 -.0265 R13  .9795    LSA 3974.7 MSA  190.8 SSA   14.1
BDE 3.1755 BRA 4.1717 BC3 2.4090 FSP   -998    SG1 6516.8 SG2  405.3 THA    .44    EL1 3745.0 EL2  187.8 ALF 175.93
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 214.00 ARRIVAL DATE DEC 22 1967

HELIOCENTRIC CONIC DISTANCE 597.065

```
RL  151.43 LAL   -.00 LOL 240.24 VL  26.498 GAL   9.67 AZL  93.41 HCA 279.10 SMA 126.31 ECC .25820 INC 3.4117 V1  29.423
RP  107.56 LAP   3.37 LOP 159.35 VP  37.643 GAP  12.34 AZP  90.54 TAL 149.07 TAP  68.17 RCA  93.70 APO 158.92 V2  35.231
RC 149.570 GL  -16.33 GP   -4.35 ZAL  41.86 ZAP 168.21 ETS 338.42 ZAE 123.24 ETE 183.53 ZAC  95.96 ETC  13.64 CLP-169.03
```

PLANETOCENTRIC CONIC

```
C3  30.574 VHL  5.529 DLA -23.31 RAL 192.94 RAD 6568.2 VEL 12.327 PTH   2.22 VHP  8.101 DPA   2.95 RAP 170.73 ECC 1.5032
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 48 34	1488.41	2.14	359.26	62.04	118.24	12 13 22	888.4	5.90	352.60
90.00	16 43 8	5792.76	26.73	276.08	70.69	99.71	18 19 41	5192.8	27.80	267.58
100.00	12 51 47	1284.36	.27	343.22	61.00	119.89	13 13 11	684.4	4.25	336.69
100.00	18 22 36	5472.05	28.84	252.86	71.07	98.21	19 53 48	4872.1	29.68	244.16
110.00	13 23 27	1185.07	-4.06	333.00	58.30	123.97	13 43 12	585.1	.43	326.79
110.00	20 7 25	5144.10	33.91	228.62	71.73	94.57	21 33 9	4544.1	34.17	219.38

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-3.2806 TRA 4.4716 TC3-2.1860 BAU  .8944   SGT 6546.2 SGR  404.6 SG3  273.7     ST  3721.8 SR   337.1 SS  1293.2
RDE  .3198 RRA  .1824 RC3 -.0971 FAU .01782   RRT  .0649 RRF  .0379 RTF  .9795     CRT -.8232 CRS  .8102 CST -.9997
FDE-1.6118 FRA 2.3342 FC3 -.5045 BSP  21193   SGB 6558.7 R23 -.0259 R13  .9795     LSA 3949.7 MSA  193.5 SSA   13.8
BDE 3.2961 BRA 4.4753 BC3 2.1882 FSP   -941   SG1 6546.3 SG2  403.7 THA   .23     EL1 3732.1 EL2  190.8 ALF 175.73
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 216.00 ARRIVAL DATE DEC 24 1967

HELIOCENTRIC CONIC DISTANCE 602.442

```
RL  151.43 LAL   -.00 LOL 240.24 VL  26.470 GAL  10.31 AZL  93.47 HCA 282.34 SMA 126.13 ECC .26642 INC 3.4670 V1  29.423
RP  107.58 LAP   3.39 LOP 162.60 VP  37.617 GAP  12.98 AZP  90.74 TAL 148.09 TAP  70.43 RCA  92.53 APO 159.74 V2  35.225
RC 151.657 GL  -15.76 GP   -4.19 ZAL  40.57 ZAP 169.42 ETS 336.57 ZAE 122.88 ETE 183.39 ZAC  94.00 ETC  13.65 CLP-170.27
```

PLANETOCENTRIC CONIC

```
C3  33.618 VHL  5.798 DLA -23.26 RAL 194.36 RAD 6568.3 VEL 12.449 PTH   2.25 VHP  8.468 DPA   2.30 RAP 172.62 ECC 1.5533
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 53 29	1514.82	1.29	.73	64.86	118.29	12 18 44	914.8	5.06	354.08
90.00	16 49 29	5814.14	26.48	277.59	73.88	100.43	18 26 23	5214.1	27.65	269.12
100.00	12 56 49	1310.42	-.61	344.65	63.80	119.89	13 18 39	710.4	3.37	338.13
100.00	18 28 50	5493.77	28.62	254.44	74.30	99.02	20 0 24	4893.8	29.57	245.76
110.00	13 28 39	1210.61	-5.03	334.34	61.05	123.86	13 48 49	610.6	-.55	328.12
110.00	20 13 30	5166.34	33.78	230.34	75.07	95.58	21 39 36	4566.3	34.18	221.12

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-3.4032 TRA 4.7971 TC3-1.9719 BAU  .8870   SGT 6569.6 SGR  400.9 SG3  257.7     ST  3702.7 SR   347.2 SS  1257.0
RDE  .3469 RRA  .1720 RC3 -.0821 FAU .01537   RRT  .0073 RRF -.0178 RTF  .9796     CRT -.8296 CRS  .8171 CST -.9997
FDE-1.5627 FRA 2.3339 FC3 -.3959 BSP  21333   SGB 6581.8 R23 -.0250 R13  .9796     LSA 3920.7 MSA  195.8 SSA   13.5
BDE 3.4208 BRA 4.8002 BC3 1.9736 FSP   -888   SG1 6569.6 SG2  400.9 THA   .03     EL1 3713.9 EL2  193.3 ALF 175.54
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 218.00 ARRIVAL DATE DEC 26 1967

HELIOCENTRIC CONIC DISTANCE 607.716

```
RL  151.43 LAL   -.00 LOL 240.24 VL  26.442 GAL  11.00 AZL  93.52 HCA 285.58 SMA 125.96 ECC .27534 INC 3.5236 V1  29.423
RP  107.60 LAP   3.39 LOP 165.84 VP  37.591 GAP  13.66 AZP  90.95 TAL 147.13 TAP  72.71 RCA  91.28 APO 160.64 V2  35.217
RC 153.730 GL  -15.19 GP   -4.05 ZAL  39.32 ZAP 170.60 ETS 334.25 ZAE 122.53 ETE 183.25 ZAC  92.02 ETC  13.65 CLP-171.51
```

PLANETOCENTRIC CONIC

```
C3  37.085 VHL  6.090 DLA -23.18 RAL 195.73 RAD 6568.4 VEL 12.588 PTH   2.28 VHP  8.860 DPA   1.63 RAP 174.51 ECC 1.6103
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 57 49	1543.64	.36	2.34	67.67	118.31	12 23 32	943.6	4.14	355.70
90.00	16 56 5	5834.89	26.21	279.06	77.09	101.11	18 33 20	5234.9	27.48	270.62
100.00	13 1 18	1338.70	-1.57	346.21	66.60	119.85	13 23 37	738.7	2.41	339.68
100.00	18 35 16	5515.07	28.38	255.98	77.54	99.79	20 7 11	4915.1	29.44	247.33
110.00	13 33 24	1238.06	-6.07	335.79	63.81	123.71	13 54 2	638.1	-1.60	329.56
110.00	20 19 40	5188.47	33.62	232.05	78.42	96.58	21 46 8	4588.5	34.16	222.85

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-3.5304 TRA 5.1449 TC3-1.7651 BAU  .8758   SGT 6586.4 SGR  397.4 SG3  242.9     ST  3678.7 SR   355.8 SS  1223.4
RDE  .3746 RRA  .1597 RC3 -.0688 FAU .01305   RRT -.0496 RRF -.0725 RTF  .9798     CRT -.8350 CRS  .8229 CST -.9997
FDE-1.5175 FRA 2.3378 FC3 -.3046 BSP  21449   SGB 6598.4 R23  .0238 R13 -.9798     LSA 3888.0 MSA  197.5 SSA   13.1
BDE 3.5502 BRA 5.1474 BC3 1.7664 FSP   -837   SG1 6586.5 SG2  396.9 THA 179.83     EL1 3690.7 EL2  195.2 ALF 175.37
```

LAUNCH DATE MAY 22 1967 FLIGHT TIME 220.00 ARRIVAL DATE DEC 28 1967

HELIOCENTRIC CONIC DISTANCE 612.873

```
RL  151.43 LAL   -.00 LOL 240.24 VL  26.415 GAL  11.74 AZL  93.58 HCA 288.82 SMA 125.78 ECC .28505 INC 3.5821 V1  29.423
RP  107.63 LAP   3.39 LOP 169.09 VP  37.564 GAP  14.38 AZP  91.16 TAL 146.19 TAP  75.01 RCA  89.93 APO 161.64 V2  35.210
RC 155.789 GL  -14.61 GP   -3.91 ZAL  38.11 ZAP 171.75 ETS 331.27 ZAE 122.17 ETE 183.13 ZAC  90.03 ETC  13.67 CLP-172.73
```

PLANETOCENTRIC CONIC

```
C3  41.047 VHL  6.407 DLA -23.07 RAL 197.05 RAD 6568.6 VEL 12.744 PTH   2.32 VHP  9.281 DPA    .93 RAP 176.41 ECC 1.6755
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 1 32	1574.75	-.64	4.07	70.47	118.31	12 27 47	974.8	3.14	357.44
90.00	17 2 54	5855.06	25.94	280.47	80.29	101.77	18 40 29	5255.1	27.30	272.07
100.00	13 5 15	1369.08	-2.60	347.87	69.38	119.79	13 28 4	769.1	1.38	341.35
100.00	18 41 52	5535.97	28.13	257.48	80.78	100.54	20 14 8	4936.0	29.30	248.87
110.00	13 37 42	1267.32	-7.17	337.34	66.56	123.51	13 58 50	667.3	-2.71	331.08
110.00	20 25 54	5210.49	33.43	233.74	81.76	97.57	21 52 44	4610.5	34.12	224.57

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-3.6607 TRA 5.5207 TC3-1.5633 BAU  .8585   SGT 6597.5 SGR  393.9 SG3  229.1     ST  3648.7 SR   362.8 SS  1192.0
RDE  .4029 RRA  .1455 RC3 -.0571 FAU .01076   RRT -.1054 RRF -.1257 RTF  .9801     CRT -.8394 CRS  .8276 CST -.9997
FDE-1.4753 FRA 2.3477 FC3 -.2269 BSP  21468   SGB 6609.3 R23  .0222 R13 -.9801     LSA 3850.4 MSA  198.7 SSA   12.8
BDE 3.6828 BRA 5.5226 BC3 1.5644 FSP   -787   SG1 6597.6 SG2  391.7 THA 179.64     EL1 3661.4 EL2  196.5 ALF 175.21
```

LAUNCH DATE MAY 23 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 1 1967

HELIOCENTRIC CONIC DISTANCE 141.408

```
RL  151.46 LAL   -.00 LOL 241.20 VL  18.700 GAL  12.69 AZL  92.50 HCA  48.96 SMA  94.61 ECC .62603 INC 2.5018 V1  29.417
RP  108.90 LAP  -1.89 LOP 290.13 VP  32.166 GAP -37.92 AZP  91.64 TAL 172.15 TAP 221.11 RCA  35.38 APO 153.83 V2  34.800
RC  58.919 GL   -3.86 GP    1.36 ZAL  71.38 ZAP  25.44 ETS 184.61 ZAE 151.58 ETE 164.55 ZAC 127.93 ETC  21.02 CLP  25.41
```

PLANETOCENTRIC CONIC

```
C3 140.106 VHL 11.837 DLA    .47 RAL 169.17 RAD 6570.5 VEL 16.169 PTH   2.84 VHP 21.986 DPA  20.27 RAP 139.30 ECC 3.3058
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 34 35	2687.01	-27.54	73.62	63.69	96.87	7 19 22	2087.0	-26.30	65.18
90.00	18 39 33	5302.02	27.28	240.49	63.22	82.11	20 7 55	4702.0	25.91	232.09
100.00	7 56 9	2423.92	-29.06	54.06	63.48	97.35	8 36 32	1823.9	-27.73	45.51
100.00	20 0 41	5040.33	28.80	221.00	62.98	81.62	21 24 41	4440.3	27.34	212.51
110.00	9 4 53	2208.75	-33.18	37.05	62.80	98.73	9 41 42	1608.7	-31.62	28.17
110.00	21 8 25	4828.28	32.91	204.14	62.21	80.20	22 28 54	4228.3	31.21	195.33

DIFFERENTIAL CORRECTIONS

```
TDE  .6041 TRA-1.4726 TC3 -.1016 BAU  .1959
RDE -.8184 RRA -.4272 RC3  .0249 FAU .01424
FDE -.3221 FRA  .5712 FC3 -.0880 BSP   2093
BDE 1.0172 BRA 1.5333 BC3  .1046 FSP    -68
```

MID-COURSE EXECUTION ACCURACY

```
SGT  807.1 SGR  450.7 SG3   32.8
RRT  .0479 RRF -.0449 RTF -.6285
SGB  924.5 R23 -.0012 R13 -.6286
SG1  807.6 SG2  450.0 THA   2.22
```

ORBIT DETERMINATION ACCURACY

```
ST   362.4 SR   401.0 SS   335.7
CRT -.7061 CRS -.7989 CST  .9883
LSA  596.4 MSA  221.2 SSA   13.9
EL1  499.7 EL2  205.9 ALF 130.91
```

LAUNCH DATE MAY 23 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 3 1967

HELIOCENTRIC CONIC DISTANCE 147.473

```
RL  151.46 LAL   -.00 LOL 241.20 VL  19.333 GAL  12.18 AZL  92.58 HCA  52.12 SMA  96.26 ECC .59896 INC 2.5842 V1  29.417
RP  108.91 LAP  -2.04 LOP 293.29 VP  32.533 GAP -36.12 AZP  91.59 TAL 171.55 TAP 223.67 RCA  38.60 APO 153.91 V2  34.795
RC  57.057 GL   -4.36 GP    1.41 ZAL  70.46 ZAP  23.91 ETS 184.83 ZAE 152.55 ETE 162.85 ZAC 126.37 ETC  20.53 CLP  23.87
```

PLANETOCENTRIC CONIC

```
C3 125.840 VHL 11.218 DLA   -.36 RAL 169.83 RAD 6570.3 VEL 15.722 PTH   2.79 VHP 21.058 DPA  19.86 RAP 140.98 ECC 3.0710
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 43 22	2640.90	-27.12	70.32	62.39	98.48	7 27 23	2040.9	-25.67	61.95
90.00	18 36 6	5307.13	27.33	240.86	62.74	82.29	20 4 33	4707.1	25.98	232.45
100.00	8 4 33	2379.05	-28.62	50.80	62.13	99.02	8 44 12	1779.0	-27.08	42.34
100.00	19 57 36	5044.21	28.84	221.29	62.51	81.76	21 21 41	4444.2	27.40	212.78
110.00	9 12 25	2166.62	-32.70	33.86	61.31	100.57	9 48 31	1566.6	-30.90	25.10
110.00	21 6 14	4829.40	32.92	204.23	61.75	80.24	22 26 43	4229.4	31.23	195.41

DIFFERENTIAL CORRECTIONS

```
TDE  .6047 TRA-1.4670 TC3 -.1048 BAU  .1829
RDE -.7813 RRA -.4110 RC3  .0287 FAU .01453
FDE -.3380 FRA  .5897 FC3 -.1000 BSP   2248
BDE  .9879 BRA 1.5235 BC3  .1087 FSP    -76
```

MID-COURSE EXECUTION ACCURACY

```
SGT  843.9 SGR  455.5 SG3   35.7
RRT  .0492 RRF -.0469 RTF -.6486
SGB  959.0 R23 -.0019 R13 -.6488
SG1  844.3 SG2  454.7 THA   2.14
```

ORBIT DETERMINATION ACCURACY

```
ST   382.1 SR   404.0 SS   354.7
CRT -.7068 CRS -.8022 CST  .9878
LSA  619.4 MSA  226.0 SSA   14.1
EL1  513.8 EL2  212.5 ALF 132.74
```

LAUNCH DATE MAY 23 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 5 1967

HELIOCENTRIC CONIC DISTANCE 153.615

```
RL  151.46 LAL   -.00 LOL 241.20 VL  19.923 GAL  11.68 AZL  92.66 HCA  55.28 SMA  97.90 ECC .57270 INC 2.6598 V1  29.417
RP  108.92 LAP  -2.19 LOP 296.45 VP  32.883 GAP -34.41 AZP  91.52 TAL 170.98 TAP 226.26 RCA  41.83 APO 153.97 V2  34.792
RC  55.270 GL   -4.88 GP    1.46 ZAL  69.60 ZAP  22.40 ETS 185.11 ZAE 153.63 ETE 160.90 ZAC 124.80 ETC  20.06 CLP  22.36
```

PLANETOCENTRIC CONIC

```
C3 113.094 VHL 10.635 DLA  -1.19 RAL 170.43 RAD 6570.1 VEL 15.311 PTH   2.74 VHP 20.165 DPA  19.44 RAP 142.67 ECC 2.8612
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 51 52	2593.93	-26.60	66.97	60.98	100.08	7 35 6	1993.9	-24.94	58.70
90.00	18 32 20	5311.40	27.37	241.17	62.13	82.44	20 0 51	4711.4	26.04	232.75
100.00	8 12 39	2333.32	-28.09	47.50	60.68	100.67	8 51 32	1733.3	-26.33	39.14
100.00	19 54 14	5047.25	28.87	221.51	61.89	81.88	21 18 21	4447.2	27.44	212.99
110.00	9 19 38	2123.65	-32.12	30.64	59.73	102.39	9 55 2	1523.7	-30.08	22.02
110.00	21 3 44	4829.68	32.93	204.25	61.15	80.26	22 24 14	4229.7	31.23	195.43

DIFFERENTIAL CORRECTIONS

```
TDE  .6032 TRA-1.4629 TC3 -.1081 BAU  .1709
RDE -.7448 RRA -.3947 RC3  .0331 FAU .01484
FDE -.3542 FRA  .6086 FC3 -.1136 BSP   2355
BDE  .9584 BRA 1.5152 BC3  .1130 FSP    -84
```

MID-COURSE EXECUTION ACCURACY

```
SGT  883.1 SGR  459.6 SG3   38.9
RRT  .0520 RRF -.0493 RTF -.6670
SGB  995.6 R23 -.0018 R13 -.6672
SG1  883.6 SG2  458.7 THA   2.12
```

ORBIT DETERMINATION ACCURACY

```
ST   402.0 SR   406.3 SS   374.3
CRT -.7061 CRS -.8052 CST  .9870
LSA  642.9 MSA  230.7 SSA   14.4
EL1  527.9 EL2  219.1 ALF 134.57
```

LAUNCH DATE MAY 23 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 7 1967

HELIOCENTRIC CONIC DISTANCE 159.828

```
RL  151.46 LAL   -.00 LOL 241.20 VL  20.472 GAL  11.18 AZL  92.73 HCA  58.44 SMA  99.53 ECC .54732 INC 2.7298 V1  29.417
RP  108.93 LAP  -2.33 LOP 299.61 VP  33.216 GAP -32.79 AZP  91.43 TAL 170.43 TAP 228.87 RCA  45.06 APO 154.01 V2  34.789
RC  53.566 GL   -5.44 GP    1.51 ZAL  68.83 ZAP  20.90 ETS 185.44 ZAE 154.82 ETE 158.63 ZAC 123.21 ETC  19.61 CLP  20.85
```

PLANETOCENTRIC CONIC

```
C3 101.697 VHL 10.084 DLA  -2.01 RAL 170.94 RAD 6570.0 VEL 14.934 PTH   2.69 VHP 19.305 DPA  19.00 RAP 144.36 ECC 2.6737
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 0 3	2546.12	-25.99	63.61	59.47	101.66	7 42 29	1946.1	-24.12	55.44
90.00	18 28 14	5314.94	27.40	241.42	61.37	82.57	19 56 49	4714.9	26.09	233.00
100.00	8 20 27	2286.75	-27.46	44.19	59.12	102.31	8 58 34	1686.8	-25.48	35.94
100.00	19 50 31	5049.54	28.89	221.67	61.14	81.96	21 14 40	4449.5	27.47	213.16
110.00	9 26 33	2079.85	-31.43	27.41	58.05	104.19	10 1 13	1479.9	-29.16	18.94
110.00	21 0 55	4829.21	32.92	204.21	60.40	80.24	22 21 24	4229.2	31.23	195.40

DIFFERENTIAL CORRECTIONS

```
TDE  .6039 TRA-1.4561 TC3 -.1097 BAU  .1578
RDE -.7088 RRA -.3782 RC3  .0380 FAU .01520
FDE -.3714 FRA  .6274 FC3 -.1294 BSP   2515
BDE  .9312 BRA 1.5044 BC3  .1160 FSP    -93
```

MID-COURSE EXECUTION ACCURACY

```
SGT  923.0 SGR  462.9 SG3   42.3
RRT  .0536 RRF -.0515 RTF -.6857
SGB 1032.5 R23 -.0025 R13 -.6858
SG1  923.4 SG2  462.0 THA   2.05
```

ORBIT DETERMINATION ACCURACY

```
ST   423.6 SR   407.9 SS   394.9
CRT -.7071 CRS -.8085 CST  .9865
LSA  668.2 MSA  234.5 SSA   14.6
EL1  543.4 EL2  224.8 ALF 136.53
```

LAUNCH DATE MAY 23 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 9 1967

HELIOCENTRIC CONIC DISTANCE 166.107

RL 151.46 LAL -.00 LOL 241.20 VL 20.984 GAL 10.69 AZL 92.80 HCA 61.60 SMA 101.14 ECC .52285 INC 2.7952 VI 29.417
RP 108.94 LAP -2.46 LOP 302.77 VP 33.532 GAP -31.24 AZP 91.33 TAL 169.91 TAP 231.52 RCA 48.26 APO 154.02 V2 34.786
RC 51.953 GL -6.03 GP 1.57 ZAL 68.13 ZAP 19.42 ETS 185.85 ZAE 156.11 ETE 155.98 ZAC 121.61 ETC 19.18 CLP 19.36

PLANETOCENTRIC CONIC

C3 91.501 VHL 9.566 DLA -2.84 RAL 171.37 RAD 6569.8 VEL 14.589 PTH 2.64 VHP 18.478 DPA 18.55 RAP 146.06 ECC 2.5059

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 7 57	2497.49	-25.28	60.23	57.86	103.21	7 49 34	1897.5	-23.21	52.17
90.00	18 23 47	5317.86	27.43	241.63	60.47	82.67	19 52 25	4717.9	26.13	233.20
100.00	8 27 58	2239.37	-26.72	40.86	57.47	103.92	9 5 17	1639.4	-24.55	32.73
100.00	19 46 27	5051.21	28.90	221.80	60.25	82.02	21 10 38	4451.2	27.50	213.27
110.00	9 33 10	2035.26	-30.64	24.17	56.28	105.95	10 7 5	1435.3	-28.15	15.86
110.00	20 57 44	4828.09	32.91	204.13	59.52	80.19	22 18 12	4228.1	31.21	195.32

DIFFERENTIAL CORRECTIONS
TDE .6049 TRA-1.4481 TC3 -.1099 BAU .1445
RDE -.6735 RRA -.3617 RC3 .0434 FAU .01559
FDE -.3896 FRA .6461 FC3 -.1475 BSP 2684
BDE .9053 BRA 1.4925 BC3 .1181 FSP -103

MID-COURSE EXECUTION ACCURACY
SGT 964.2 SGR 465.5 SG3 46.1
RRT .0551 RRF -.0538 RTF -.7037
SGB 1070.7 R23 -.0033 R13 -.7039
SG1 964.6 SG2 464.6 THA 1.98

ORBIT DETERMINATION ACCURACY
ST 446.3 SR 408.6 SS 416.5
CRT -.7086 CRS -.8120 CST .9860
LSA 694.9 MSA 237.6 SSA 14.8
EL1 559.8 EL2 229.9 ALF 138.55

LAUNCH DATE MAY 23 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 11 1967

HELIOCENTRIC CONIC DISTANCE 172.447

RL 151.46 LAL -.00 LOL 241.20 VL 21.462 GAL 10.20 AZL 92.86 HCA 64.76 SMA 102.73 ECC .49931 INC 2.8569 VI 29.417
RP 108.94 LAP -2.58 LOP 305.94 VP 33.831 GAP -29.77 AZP 91.22 TAL 169.43 TAP 234.19 RCA 51.43 APO 154.02 V2 34.785
RC 50.440 GL -6.66 GP 1.63 ZAL 67.51 ZAP 17.94 ETS 186.36 ZAE 157.49 ETE 152.83 ZAC 119.99 ETC 18.78 CLP 17.87

PLANETOCENTRIC CONIC

C3 82.376 VHL 9.076 DLA -3.68 RAL 171.72 RAD 6569.6 VEL 14.273 PTH 2.60 VHP 17.680 DPA 18.09 RAP 147.76 ECC 2.3557

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 15 33	2448.07	-24.46	56.83	56.17	104.72	7 56 21	1848.1	-22.20	48.89
90.00	18 18 58	5320.29	27.45	241.81	59.45	82.75	19 47 38	4720.3	26.16	233.37
100.00	8 35 11	2191.22	-25.89	37.52	55.75	105.48	9 11 42	1591.2	-23.52	29.53
100.00	19 42 1	5052.38	28.91	221.88	59.23	82.07	21 6 14	4452.4	27.52	213.36
110.00	9 39 29	1989.92	-29.75	20.94	54.45	107.67	10 12 39	1389.9	-27.05	12.80
110.00	20 54 13	4826.44	32.89	204.00	58.50	80.12	22 14 39	4226.4	31.18	195.20

DIFFERENTIAL CORRECTIONS
TDE .6060 TRA-1.4391 TC3 -.1086 BAU .1315
RDE -.6389 RRA -.3452 RC3 .0495 FAU .01603
FDE -.4089 FRA .6651 FC3 -.1684 BSP 2851
BDE .8806 BRA 1.4799 BC3 .1194 FSP -114

MID-COURSE EXECUTION ACCURACY
SGT 1007.0 SGR 467.4 SG3 50.2
RRT .0569 RRF -.0563 RTF -.7209
SGB 1110.1 R23 -.0041 R13 -.7210
SG1 1007.4 SG2 466.4 THA 1.93

ORBIT DETERMINATION ACCURACY
ST 470.1 SR 408.6 SS 439.1
CRT -.7102 CRS -.8156 CST .9854
LSA 723.1 MSA 240.2 SSA 15.0
EL1 577.1 EL2 234.3 ALF 140.60

LAUNCH DATE MAY 23 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 13 1967

HELIOCENTRIC CONIC DISTANCE 178.843

RL 151.46 LAL -.00 LOL 241.20 VL 21.907 GAL 9.72 AZL 92.92 HCA 67.93 SMA 104.29 ECC .47674 INC 2.9153 VI 29.417
RP 108.94 LAP -2.70 LOP 309.10 VP 34.114 GAP -28.37 AZP 91.10 TAL 168.98 TAP 236.90 RCA 54.57 APO 154.00 V2 34.784
RC 49.035 GL -7.32 GP 1.70 ZAL 66.97 ZAP 16.48 ETS 186.98 ZAE 158.94 ETE 149.07 ZAC 118.36 ETC 18.40 CLP 16.39

PLANETOCENTRIC CONIC

C3 74.210 VHL 8.615 DLA -4.51 RAL 171.99 RAD 6569.4 VEL 13.984 PTH 2.55 VHP 16.911 DPA 17.62 RAP 149.46 ECC 2.2213

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 22 54	2397.89	-23.55	53.44	54.41	106.19	8 2 52	1797.9	-21.11	45.62
90.00	18 13 44	5322.40	27.47	241.96	58.30	82.83	19 42 26	4722.4	26.19	233.52
100.00	8 42 7	2142.32	-24.96	34.19	53.95	107.00	9 17 50	1542.3	-22.40	26.33
100.00	19 37 12	5053.20	28.92	221.94	58.08	82.10	21 1 25	4453.2	27.53	213.41
110.00	9 45 30	1943.88	-28.75	17.73	52.55	109.33	10 17 54	1343.9	-25.85	9.76
110.00	20 50 18	4824.40	32.87	203.85	57.36	80.03	22 10 42	4224.4	31.14	195.05

DIFFERENTIAL CORRECTIONS
TDE .6054 TRA-1.4310 TC3 -.1066 BAU .1196
RDE -.6050 RRA -.3289 RC3 .0563 FAU .01649
FDE -.4290 FRA .6845 FC3 -.1924 BSP 2972
BDE .8559 BRA 1.4683 BC3 .1205 FSP -126

MID-COURSE EXECUTION ACCURACY
SGT 1052.3 SGR 468.5 SG3 54.6
RRT .0601 RRF -.0592 RTF -.7364
SGB 1151.9 R23 -.0041 R13 -.7366
SG1 1052.7 SG2 467.4 THA 1.91

ORBIT DETERMINATION ACCURACY
ST 494.2 SR 407.8 SS 462.7
CRT -.7106 CRS -.8191 CST .9846
LSA 752.0 MSA 242.5 SSA 15.2
EL1 594.7 EL2 238.4 ALF 142.61

LAUNCH DATE MAY 23 1967 FLIGHT TIME 84.00 ARRIVAL DATE AUG 15 1967

HELIOCENTRIC CONIC DISTANCE 185.290

RL 151.46 LAL -.00 LOL 241.20 VL 22.321 GAL 9.25 AZL 92.97 HCA 71.09 SMA 105.81 ECC .45513 INC 2.9712 VI 29.417
RP 108.94 LAP -2.81 LOP 312.26 VP 34.382 GAP -27.02 AZP 90.96 TAL 168.57 TAP 239.65 RCA 57.65 APO 153.97 V2 34.784
RC 47.750 GL -8.03 GP 1.78 ZAL 66.51 ZAP 15.02 ETS 187.77 ZAE 160.42 ETE 144.52 ZAC 116.73 ETC 18.03 CLP 14.92

PLANETOCENTRIC CONIC

C3 66.902 VHL 8.179 DLA -5.35 RAL 172.16 RAD 6569.3 VEL 13.721 PTH 2.51 VHP 16.169 DPA 17.14 RAP 151.15 ECC 2.1010

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 29 58	2347.01	-22.55	50.05	52.58	107.60	8 9 5	1747.0	-19.93	42.35
90.00	18 8 5	5324.33	27.48	242.10	57.03	82.89	19 36 49	4724.3	26.21	233.66
100.00	8 48 47	2092.76	-23.93	30.86	52.09	108.47	9 23 40	1492.8	-21.19	23.14
100.00	19 31 57	5053.81	28.93	221.99	56.82	82.12	20 56 11	4453.8	27.54	213.46
110.00	9 51 14	1897.23	-27.66	14.54	50.61	110.93	10 22 51	1297.2	-24.56	6.74
110.00	20 45 59	4822.11	32.84	203.67	56.10	79.93	22 6 21	4222.1	31.10	194.88

DIFFERENTIAL CORRECTIONS
TDE .6074 TRA-1.4191 TC3 -.1012 BAU .1070
RDE -.5719 RRA -.3127 RC3 .0638 FAU .01703
FDE -.4509 FRA .7037 FC3 -.2203 BSP 3155
BDE .8342 BRA 1.4532 BC3 .1196 FSP -139

MID-COURSE EXECUTION ACCURACY
SGT 1097.9 SGR 468.8 SG3 59.5
RRT .0621 RRF -.0620 RTF -.7523
SGB 1193.8 R23 -.0050 R13 -.7524
SG1 1098.3 SG2 467.7 THA 1.85

ORBIT DETERMINATION ACCURACY
ST 520.4 SR 406.0 SS 487.9
CRT -.7132 CRS -.8231 CST .9841
LSA 783.6 MSA 243.7 SSA 15.4
EL1 614.4 EL2 241.0 ALF 144.68

LAUNCH DATE MAY 23 1967 FLIGHT TIME 86.00 ARRIVAL DATE AUG 17 1967

HELIOCENTRIC CONIC DISTANCE 191.783

RL	151.46	LAL	-.00	LOL	241.20	VL	22.708	GAL	8.79	AZL	93.03	HCA	74.25	SMA	107.30	ECC	.43449	INC	3.0251	V1	29.417
RP	108.94	LAP	-2.91	LOP	315.42	VP	34.635	GAP	-25.74	AZP	90.82	TAL	168.19	TAP	242.44	RCA	60.68	APO	153.92	V2	34.785
RC	46.594	GL	-8.77	GP	1.87	ZAL	66.14	ZAP	13.57	ETS	188.78	ZAE	161.88	ETE	138.97	ZAC	84.84	ETC	260.22	CLP	13.44

PLANETOCENTRIC CONIC

C3	60.363	VHL	7.769	DLA	-6.20	RAL	172.25	RAD	6569.1	VEL	13.480	PTH	2.46	VHP	15.454	DPA	16.65	RAP	152.84	ECC	1.9934

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 36 47	2295.49	-21.45	46.67	50.70	108.95	8 15 2	1695.5	-18.66	39.10
90.00	18 1 59	5326.27	27.50	242.24	55.65	82.96	19 30 46	4726.3	26.24	233.79
100.00	8 55 11	2042.58	-22.81	27.56	50.18	109.86	9 29 13	1442.6	-19.90	19.97
100.00	19 26 17	5054.41	28.93	222.03	55.44	82.14	20 50 31	4454.4	27.54	213.50
110.00	9 56 41	1850.02	-26.47	11.38	48.62	112.46	10 27 31	1250.0	-23.19	3.76
110.00	20 41 16	4819.74	32.81	203.50	54.72	79.83	22 1 35	4219.7	31.06	194.71

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.6073	TRA	-1.4086	TC3	-.0948	BAU	.0962	SGT	1146.3	SGR	468.4	SG3	64.9	ST	546.7	SR	403.3	SS	514.1
RDE	-.5395	RRA	-.2968	RC3	.0722	FAU	.01760	RRT	.0659	RRF	-.0657	RTF	-.7662	CRT	-.7143	CRS	-.8267	CST	.9833
FDE	-.4740	FRA	.7237	FC3	-.2524	BSP	3278	SGB	1238.3	R23	-.0052	R13	-.7664	LSA	815.9	MSA	244.7	SSA	15.6
BDE	.8123	BRA	1.4395	BC3	.1192	FSP	-153	SG1	1146.8	SG2	467.1	THA	1.85	EL1	634.3	EL2	243.3	ALF	146.69

LAUNCH DATE MAY 23 1967 FLIGHT TIME 88.00 ARRIVAL DATE AUG 19 1967

HELIOCENTRIC CONIC DISTANCE 198.317

RL	151.46	LAL	-.00	LOL	241.20	VL	23.067	GAL	8.35	AZL	93.08	HCA	77.41	SMA	108.75	ECC	.41481	INC	3.0772	V1	29.417
RP	108.94	LAP	-3.00	LOP	318.59	VP	34.873	GAP	-24.51	AZP	90.67	TAL	167.86	TAP	245.27	RCA	63.64	APO	153.86	V2	34.786
RC	45.578	GL	-9.55	GP	1.96	ZAL	65.85	ZAP	12.12	ETS	190.09	ZAE	163.26	ETE	132.20	ZAC	85.25	ETC	259.93	CLP	11.96

PLANETOCENTRIC CONIC

C3	54.515	VHL	7.383	DLA	-7.06	RAL	172.25	RAD	6569.0	VEL	13.262	PTH	2.42	VHP	14.764	DPA	16.17	RAP	154.52	ECC	1.8972

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 43 21	2243.40	-20.26	43.31	48.77	110.22	8 20 44	1643.4	-17.32	35.87
90.00	17 55 25	5328.41	27.52	242.39	54.17	83.04	19 24 13	4728.4	26.27	233.95
100.00	9 1 19	1991.87	-21.60	24.28	48.22	111.18	9 34 31	1391.9	-18.53	16.83
100.00	19 20 8	5055.17	28.94	222.08	53.96	82.17	20 44 23	4455.2	27.56	213.55
110.00	10 1 51	1802.35	-25.19	8.27	46.60	113.91	10 31 53	1202.4	-21.75	.81
110.00	20 36 5	4817.45	32.78	203.32	53.24	79.73	21 56 23	4217.5	31.02	194.55

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.6099	TRA	-1.3943	TC3	-.0842	BAU	.0853	SGT	1195.0	SGR	467.1	SG3	70.8	ST	575.3	SR	399.7	SS	542.3
RDE	-.5080	RRA	-.2812	RC3	.0813	FAU	.01825	RRT	.0686	RRF	-.0693	RTF	-.7804	CRT	-.7175	CRS	-.8309	CST	.9829
FDE	-.4993	FRA	.7436	FC3	-.2897	BSP	3457	SGB	1283.0	R23	-.0062	R13	-.7806	LSA	851.3	MSA	244.4	SSA	15.7
BDE	.7937	BRA	1.4224	BC3	.1170	FSP	-170	SG1	1195.5	SG2	465.8	THA	1.81	EL1	656.7	EL2	243.9	ALF	148.71

LAUNCH DATE MAY 23 1967 FLIGHT TIME 90.00 ARRIVAL DATE AUG 21 1967

HELIOCENTRIC CONIC DISTANCE 204.888

RL	151.46	LAL	-.00	LOL	241.20	VL	23.402	GAL	7.91	AZL	93.13	HCA	80.57	SMA	110.15	ECC	.39610	INC	3.1282	V1	29.417
RP	108.93	LAP	-3.09	LOP	321.75	VP	35.098	GAP	-23.33	AZP	90.51	TAL	167.58	TAP	248.15	RCA	66.52	APO	153.78	V2	34.788
RC	44.711	GL	-10.38	GP	2.06	ZAL	65.66	ZAP	10.68	ETS	191.83	ZAE	164.47	ETE	123.98	ZAC	85.67	ETC	259.64	CLP	10.48

PLANETOCENTRIC CONIC

C3	49.288	VHL	7.021	DLA	-7.92	RAL	172.16	RAD	6568.8	VEL	13.063	PTH	2.38	VHP	14.098	DPA	15.68	RAP	156.19	ECC	1.8112

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 49 41	2190.81	-18.98	39.98	46.80	111.41	8 26 12	1590.8	-15.91	32.66
90.00	17 48 20	5330.94	27.54	242.57	52.58	83.13	19 17 11	4730.9	26.30	234.12
100.00	9 7 12	1940.71	-20.31	21.03	46.24	112.42	9 39 33	1340.7	-17.09	13.71
100.00	19 13 30	5056.27	28.95	222.16	52.38	82.21	20 37 46	4456.3	27.57	213.63
110.00	10 6 44	1754.33	-23.83	5.20	44.55	115.26	10 35 58	1154.3	-20.23	357.91
110.00	20 30 28	4815.42	32.76	203.17	51.67	79.64	21 50 43	4215.4	30.98	194.40

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.6132	TRA	-1.3782	TC3	-.0698	BAU	.0758	SGT	1244.8	SGR	465.0	SG3	77.3	ST	605.4	SR	395.0	SS	572.3
RDE	-.4772	RRA	-.2660	RC3	.0914	FAU	.01897	RRT	.0715	RRF	-.0733	RTF	-.7940	CRT	-.7215	CRS	-.8353	CST	.9825
FDE	-.5270	FRA	.7637	FC3	-.3332	BSP	3645	SGB	1328.8	R23	-.0074	R13	-.7942	LSA	889.2	MSA	243.3	SSA	15.9
BDE	.7771	BRA	1.4036	BC3	.1150	FSP	-188	SG1	1245.4	SG2	463.6	THA	1.78	EL1	680.7	EL2	243.3	ALF	150.69

LAUNCH DATE MAY 23 1967 FLIGHT TIME 92.00 ARRIVAL DATE AUG 23 1967

HELIOCENTRIC CONIC DISTANCE 211.491

RL	151.46	LAL	-.00	LOL	241.20	VL	23.714	GAL	7.49	AZL	93.18	HCA	83.73	SMA	111.51	ECC	.37834	INC	3.1782	V1	29.417
RP	108.92	LAP	-3.16	LOP	324.92	VP	35.309	GAP	-22.19	AZP	90.35	TAL	167.33	TAP	251.06	RCA	69.32	APO	153.70	V2	34.791
RC	44.000	GL	-11.25	GP	2.17	ZAL	65.56	ZAP	9.25	ETS	194.22	ZAE	165.38	ETE	114.26	ZAC	86.11	ETC	259.37	CLP	8.99

PLANETOCENTRIC CONIC

C3	44.620	VHL	6.680	DLA	-8.79	RAL	171.97	RAD	6568.7	VEL	12.884	PTH	2.35	VHP	13.455	DPA	15.19	RAP	157.86	ECC	1.7343

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 55 47	2137.81	-17.63	36.68	44.81	112.52	8 31 25	1537.8	-14.43	29.47
90.00	17 40 44	5334.07	27.56	242.80	50.92	83.24	19 9 38	4734.1	26.34	234.34
100.00	9 12 51	1889.19	-18.94	17.82	44.22	113.57	9 44 20	1289.2	-15.59	10.62
100.00	19 6 21	5057.91	28.97	222.28	50.71	82.27	20 30 39	4457.9	27.59	213.75
110.00	10 11 20	1706.04	-22.40	2.19	42.49	116.52	10 39 46	1106.0	-18.65	355.05
110.00	20 24 21	4813.83	32.74	203.05	50.01	79.57	21 44 35	4213.8	30.95	194.28

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.6170	TRA	-1.3608	TC3	-.0516	BAU	.0684	SGT	1296.1	SGR	462.1	SG3	84.4	ST	636.9	SR	389.3	SS	604.3
RDE	-.4474	RRA	-.2513	RC3	.1024	FAU	.01977	RRT	.0752	RRF	-.0781	RTF	-.8068	CRT	-.7256	CRS	-.8397	CST	.9822
FDE	-.5570	FRA	.7843	FC3	-.3836	BSP	3829	SGB	1376.0	R23	-.0086	R13	-.8069	LSA	929.4	MSA	241.6	SSA	16.1
BDE	.7621	BRA	1.3838	BC3	.1147	FSP	-208	SG1	1296.6	SG2	460.6	THA	1.76	EL1	706.3	EL2	241.5	ALF	152.62

LAUNCH DATE MAY 23 1967 FLIGHT TIME 94.00 ARRIVAL DATE AUG 25 1967

HELIOCENTRIC CONIC DISTANCE 218.121

RL	151.46	LAL	-.00	LOL	241.20	VL	24.004	GAL	7.09	AZL	93.23	HCA	86.89	SMA	112.82	ECC	.36151	INC	3.2276	V1	29.417
RP	108.91	LAP	-3.22	LOP	328.09	VP	35.508	GAP	-21.10	AZP	90.18	TAL	167.14	TAP	254.03	RCA	72.04	APO	153.61	V2	34.795
RC	43.455	GL	-12.17	GP	2.30	ZAL	65.55	ZAP	7.83	ETS	197.61	ZAE	165.89	ETE	103.28	ZAC	108.54	ETC	16.47	CLP	7.49

PLANETOCENTRIC CONIC

C3	40.454	VHL	6.360	DLA	-9.67	RAL	171.69	RAD	6568.6	VEL	12.721	PTH	2.31	VHP	12.835	DPA	14.71	RAP	159.51	ECC	1.6658

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 1 41	2084.47	-16.21	33.41	42.79	113.54	8 36 25	1484.5	-12.89	26.30
90.00	17 32 34	5338.00	27.59	243.08	49.17	83.38	19 1 32	4738.0	26.39	234.62
100.00	9 18 16	1837.40	-17.50	14.64	42.19	114.63	9 48 53	1237.4	-14.03	7.57
100.00	18 58 41	5060.30	28.99	222.46	48.97	82.36	20 23 1	4460.3	27.63	213.92
110.00	10 15 41	1657.60	-20.89	359.23	40.42	117.69	10 43 18	1057.6	-17.02	352.25
110.00	20 17 45	4812.86	32.73	202.98	48.28	79.53	21 37 58	4212.9	30.94	194.21

DIFFERENTIAL CORRECTIONS

TDE	.6247	TRA	-1.3384	TC3	-.0259	BAU	.0634
RDE	-.4183	RRA	-.2370	RC3	.1144	FAU	.02069
FDE	-.5908	FRA	.8046	FC3	-.4428	BSP	4091
BDE	.7518	BRA	1.3592	BC3	.1173	FSP	-232

MID-COURSE EXECUTION ACCURACY

SGT	1346.7	SGR	458.3	SG3	92.3		
RRT	.0778	RRF	-.0831	RTF	-.8204		
SGB	1422.6	R23	-.0110	R13	-.8205		
SG1	1347.3	SG2	456.8	THA	1.71		

ORBIT DETERMINATION ACCURACY

ST	671.8	SR	382.4	SS	639.2
CRT	-.7327	CRS	-.8445	CST	.9825
LSA	974.2	MSA	238.2	SSA	16.2
EL1	735.5	EL2	237.7	ALF	154.51

LAUNCH DATE MAY 23 1967 FLIGHT TIME 96.00 ARRIVAL DATE AUG 27 1967

HELIOCENTRIC CONIC DISTANCE 224.775

RL	151.46	LAL	-.00	LOL	241.20	VL	24.274	GAL	6.69	AZL	93.28	HCA	90.06	SMA	114.08	ECC	.34560	INC	3.2767	V1	29.417
RP	108.90	LAP	-3.28	LOP	331.25	VP	35.695	GAP	-20.06	AZP	90.00	TAL	166.98	TAP	257.04	RCA	74.66	APO	153.51	V2	34.799
RC	43.079	GL	-13.14	GP	2.44	ZAL	65.63	ZAP	6.45	ETS	202.66	ZAE	165.90	ETE	91.68	ZAC	106.92	ETC	16.21	CLP	5.98

PLANETOCENTRIC CONIC

C3	36.742	VHL	6.062	DLA	-10.57	RAL	171.31	RAD	6568.4	VEL	12.574	PTH	2.28	VHP	12.237	DPA	14.23	RAP	161.14	ECC	1.6047

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 7 22	2030.89	-14.73	30.17	40.76	114.46	8 41 13	1430.9	-11.31	23.17
90.00	17 23 50	5342.94	27.63	243.44	47.36	83.55	18 52 53	4742.9	26.45	234.97
100.00	9 23 27	1785.44	-15.99	11.52	40.15	115.59	9 53 13	1185.4	-12.42	4.55
100.00	18 50 26	5063.62	29.02	222.70	47.16	82.49	20 14 50	4463.6	27.67	214.16
110.00	10 19 46	1608.90	-19.33	356.34	38.35	118.75	10 46 34	1008.9	-15.35	349.49
110.00	20 10 38	4812.71	32.73	202.96	46.48	79.52	21 30 50	4212.7	30.93	194.20

DIFFERENTIAL CORRECTIONS

TDE	.6305	TRA	-1.3171	TC3	.0027	BAU	.0626
RDE	-.3901	RRA	-.2233	RC3	.1274	FAU	.02169
FDE	-.6274	FRA	.8260	FC3	-.5111	BSP	4289
BDE	.7415	BRA	1.3359	BC3	.1274	FSP	-257

MID-COURSE EXECUTION ACCURACY

SGT	1399.7	SGR	453.8	SG3	101.0		
RRT	.0828	RRF	-.0895	RTF	-.8320		
SGB	1471.4	R23	-.0126	R13	-.8322		
SG1	1400.2	SG2	452.0	THA	1.72		

ORBIT DETERMINATION ACCURACY

ST	706.8	SR	374.4	SS	676.1
CRT	-.7381	CRS	-.8492	CST	.9824
LSA	1020.5	MSA	234.8	SSA	16.3
EL1	765.0	EL2	233.3	ALF	156.31

LAUNCH DATE MAY 23 1967 FLIGHT TIME 98.00 ARRIVAL DATE AUG 29 1967

HELIOCENTRIC CONIC DISTANCE 231.449

RL	151.46	LAL	-.00	LOL	241.20	VL	24.524	GAL	6.32	AZL	93.33	HCA	93.22	SMA	115.29	ECC	.33059	INC	3.3258	V1	29.417
RP	108.88	LAP	-3.32	LOP	334.42	VP	35.870	GAP	-19.05	AZP	89.81	TAL	166.88	TAP	260.10	RCA	77.18	APO	153.41	V2	34.804
RC	42.876	GL	-14.15	GP	2.59	ZAL	65.81	ZAP	5.14	ETS	210.65	ZAE	165.38	ETE	80.38	ZAC	105.31	ETC	15.96	CLP	4.44

PLANETOCENTRIC CONIC

C3	33.438	VHL	5.783	DLA	-11.47	RAL	170.83	RAD	6568.3	VEL	12.442	PTH	2.25	VHP	11.660	DPA	13.77	RAP	162.76	ECC	1.5503

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 12 54	1977.15	-13.19	26.98	38.73	115.29	8 45 51	1377.1	-9.68	20.06
90.00	17 14 30	5349.10	27.68	243.88	45.49	83.77	18 43 39	4749.1	26.53	235.40
100.00	9 28 27	1733.40	-14.44	8.43	38.10	116.46	9 57 20	1133.4	-10.77	1.57
100.00	18 41 38	5068.08	29.06	223.03	45.30	82.65	20 6 6	4468.1	27.74	214.47
110.00	10 23 35	1560.72	-17.72	353.51	36.28	119.72	10 49 36	960.7	-13.64	346.78
110.00	20 2 59	4813.53	32.74	203.03	44.63	79.56	21 23 12	4213.5	30.95	194.26

DIFFERENTIAL CORRECTIONS

TDE	.6369	TRA	-1.2945	TC3	.0362	BAU	.0652
RDE	-.3628	RRA	-.2102	RC3	.1414	FAU	.02280
FDE	-.6680	FRA	.8481	FC3	-.5902	BSP	4483
BDE	.7329	BRA	1.3115	BC3	.1459	FSP	-285

MID-COURSE EXECUTION ACCURACY

SGT	1453.6	SGR	448.4	SG3	110.6		
RRT	.0892	RRF	-.0973	RTF	-.8428		
SGB	1521.2	R23	-.0144	R13	-.8430		
SG1	1454.2	SG2	446.5	THA	1.74		

ORBIT DETERMINATION ACCURACY

ST	743.2	SR	365.1	SS	715.7
CRT	-.7437	CRS	-.8537	CST	.9824
LSA	1069.7	MSA	230.8	SSA	16.4
EL1	796.1	EL2	227.9	ALF	158.04

LAUNCH DATE MAY 23 1967 FLIGHT TIME 100.00 ARRIVAL DATE AUG 31 1967

HELIOCENTRIC CONIC DISTANCE 238.139

RL	151.46	LAL	-.00	LOL	241.20	VL	24.756	GAL	5.95	AZL	93.38	HCA	96.39	SMA	116.45	ECC	.31646	INC	3.3753	V1	29.417
RP	108.87	LAP	-3.35	LOP	337.59	VP	36.035	GAP	-18.08	AZP	89.62	TAL	166.82	TAP	263.21	RCA	79.60	APO	153.30	V2	34.809
RC	42.849	GL	-15.22	GP	2.76	ZAL	66.07	ZAP	3.99	ETS	224.09	ZAE	164.39	ETE	70.16	ZAC	103.72	ETC	15.72	CLP	2.88

PLANETOCENTRIC CONIC

C3	30.502	VHL	5.523	DLA	-12.38	RAL	170.25	RAD	6568.2	VEL	12.324	PTH	2.22	VHP	11.104	DPA	13.32	RAP	164.35	ECC	1.5020

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 18 16	1923.32	-11.60	23.82	36.69	116.01	8 50 19	1323.3	-8.01	16.98
90.00	17 4 31	5356.68	27.73	244.43	43.57	84.04	18 33 48	4756.7	26.62	235.94
100.00	9 33 15	1681.37	-12.84	5.40	36.05	117.23	10 1 17	1081.4	-9.09	358.62
100.00	18 32 13	5073.86	29.11	223.45	43.39	82.87	19 56 47	4473.9	27.81	214.88
110.00	10 27 11	1512.50	-16.07	350.74	34.21	120.58	10 52 23	912.5	-11.90	344.13
110.00	19 54 47	4815.49	32.76	203.17	42.73	79.64	21 15 3	4215.5	30.98	194.40

DIFFERENTIAL CORRECTIONS

TDE	.6446	TRA	-1.2699	TC3	.0763	BAU	.0709
RDE	-.3363	RRA	-.1978	RC3	.1564	FAU	.02403
FDE	-.7132	FRA	.8707	FC3	-.6821	BSP	4688
BDE	.7270	BRA	1.2852	BC3	.1740	FSP	-316

MID-COURSE EXECUTION ACCURACY

SGT	1507.8	SGR	442.3	SG3	121.3		
RRT	.0969	RRF	-.1067	RTF	-.8531		
SGB	1571.3	R23	-.0165	R13	-.8533		
SG1	1508.4	SG2	440.0	THA	1.78		

ORBIT DETERMINATION ACCURACY

ST	781.6	SR	354.5	SS	758.4
CRT	-.7498	CRS	-.8582	CST	.9825
LSA	1122.7	MSA	226.2	SSA	16.5
EL1	829.3	EL2	221.1	ALF	159.71

LAUNCH DATE MAY 23 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 2 1967

HELIOCENTRIC CONIC DISTANCE 244.841
RL 151.46 LAL -.00 LOL 241.20 VL 24.971 GAL 5.61 AZL 93.43 HCA 99.55 SMA 117.56 ECC .30317 INC 3.4254 V1 29.417
RP 108.85 LAP -3.38 LOP 340.77 VP 36.189 GAP -17.15 AZP 89.43 TAL 166.81 TAP 266.36 RCA 81.92 APO 153.20 V2 34.815
RC 42.995 GL -16.33 GP 2.95 ZAL 66.44 ZAP 3.22 ETS 246.53 ZAE 163.04 ETE 61.45 ZAC 102.15 ETC 15.49 CLP 1.30

PLANETOCENTRIC CONIC
C3 27.898 VHL 5.282 DLA -13.30 RAL 169.58 RAD 6568.1 VEL 12.218 PTH 2.20 VHP 10.567 DPA 12.89 RAP 165.92 ECC 1.4591

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 23 30	1869.47	-9.98	20.70	34.66	116.64	8 54 40	1269.5	-6.32	13.93
90.00	16 53 55	5365.87	27.80	245.09	41.61	84.37	18 23 20	4765.9	26.73	236.59
100.00	9 37 54	1629.43	-11.20	2.41	34.01	117.90	10 5 4	1029.4	-7.38	355.70
100.00	18 22 12	5081.15	29.17	223.98	41.44	83.15	19 46 53	4481.1	27.91	215.40
110.00	10 30 32	1464.58	-14.40	348.04	32.15	121.34	10 54 57	864.6	-10.14	341.53
110.00	19 46 3	4818.76	32.80	203.42	40.80	79.78	21 6 22	4218.8	31.04	194.64

DIFFERENTIAL CORRECTIONS
TDE .6528 TRA-1.2441 TC3 .1218 BAU .0787
RDE -.3105 RRA -.1861 RC3 .1724 FAU .02541
FDE -.7638 FRA .8942 FC3 -.7884 BSP 4880
BDE .7228 BRA 1.2580 BC3 .2111 FSP -351

MID-COURSE EXECUTION ACCURACY
SGT 1562.4 SGR 435.5 SG3 133.1
RRT .1067 RRF -.1183 RTF -.8625
SGB 1622.0 R23 -.0187 R13 -.8627
SG1 1563.2 SG2 432.8 THA 1.84

ORBIT DETERMINATION ACCURACY
ST 821.3 SR 342.6 SS 804.6
CRT -.7556 CRS -.8624 CST .9827
LSA 1179.0 MSA 221.2 SSA 16.6
EL1 863.9 EL2 213.3 ALF 161.33

LAUNCH DATE MAY 23 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 4 1967

HELIOCENTRIC CONIC DISTANCE 251.552
RL 151.46 LAL -.00 LOL 241.20 VL 25.171 GAL 5.27 AZL 93.48 HCA 102.72 SMA 118.61 ECC .29072 INC 3.4764 V1 29.417
RP 108.83 LAP -3.39 LOP 343.94 VP 36.333 GAP -16.24 AZP 89.23 TAL 166.84 TAP 269.56 RCA 84.12 APO 153.09 V2 34.822
RC 43.312 GL -17.48 GP 3.17 ZAL 66.89 ZAP 3.18 ETS 275.95 ZAE 161.43 ETE 54.27 ZAC 100.60 ETC 15.28 CLP -.32

PLANETOCENTRIC CONIC
C3 25.592 VHL 5.059 DLA -14.23 RAL 168.81 RAD 6568.0 VEL 12.123 PTH 2.17 VHP 10.050 DPA 12.49 RAP 167.47 ECC 1.4212

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 28 38	1815.67	-8.32	17.62	32.64	117.16	8 58 54	1215.7	-4.61	10.90
90.00	16 42 38	5376.87	27.87	245.89	39.62	84.76	18 12 14	4776.9	26.85	237.37
100.00	9 42 24	1577.67	-9.54	359.47	31.99	118.46	10 8 42	977.7	-5.66	352.83
100.00	18 11 33	5090.10	29.24	224.64	39.46	83.48	19 36 23	4490.1	28.03	216.04
110.00	10 33 41	1417.06	-12.70	345.41	30.11	122.01	10 57 18	817.1	-8.38	338.98
110.00	19 36 45	4823.48	32.86	203.78	38.85	79.99	20 57 9	4223.5	31.13	194.98

DIFFERENTIAL CORRECTIONS
TDE .6609 TRA-1.2166 TC3 .1708 BAU .0873
RDE -.2854 RRA -.1751 RC3 .1895 FAU .02694
FDE -.8207 FRA .9186 FC3 -.9112 BSP 5072
BDE .7199 BRA 1.2291 BC3 .2551 FSP -390

MID-COURSE EXECUTION ACCURACY
SGT 1615.8 SGR 427.9 SG3 146.3
RRT .1187 RRF -.1324 RTF -.8704
SGB 1671.5 R23 -.0216 R13 -.8706
SG1 1616.6 SG2 424.7 THA 1.93

ORBIT DETERMINATION ACCURACY
ST 861.5 SR 329.1 SS 854.5
CRT -.7610 CRS -.8663 CST .9828
LSA 1238.4 MSA 216.0 SSA 16.7
EL1 899.2 EL2 204.5 ALF 162.88

LAUNCH DATE MAY 23 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 6 1967

HELIOCENTRIC CONIC DISTANCE 258.269
RL 151.46 LAL -.00 LOL 241.20 VL 25.355 GAL 4.96 AZL 93.53 HCA 105.89 SMA 119.60 ECC .27907 INC 3.5288 V1 29.417
RP 108.80 LAP -3.39 LOP 347.11 VP 36.468 GAP -15.38 AZP 89.03 TAL 166.92 TAP 272.80 RCA 86.22 APO 152.98 V2 34.830
RC 43.796 GL -18.68 GP 3.41 ZAL 67.42 ZAP 3.94 ETS 300.24 ZAE 159.68 ETE 48.47 ZAC 99.08 ETC 15.07 CLP -1.98

PLANETOCENTRIC CONIC
C3 23.557 VHL 4.854 DLA -15.17 RAL 167.94 RAD 6568.0 VEL 12.039 PTH 2.15 VHP 9.552 DPA 12.12 RAP 168.99 ECC 1.3877

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 33 43	1761.96	-6.64	14.57	30.63	117.59	9 3 5	1162.0	-2.89	7.89
90.00	16 30 40	5389.84	27.94	246.83	37.62	85.23	18 0 30	4789.8	26.99	238.30
100.00	9 46 48	1526.14	-7.85	356.57	29.98	118.93	10 12 14	926.1	-3.93	349.98
100.00	18 0 16	5100.89	29.32	225.43	37.47	83.89	19 25 17	4500.9	28.16	216.82
110.00	10 36 38	1370.03	-10.99	342.84	28.09	122.57	10 59 29	770.0	-6.61	336.48
110.00	19 26 55	4829.77	32.93	204.25	36.88	80.26	20 47 25	4229.8	31.23	195.44

DIFFERENTIAL CORRECTIONS
TDE .6741 TRA-1.1866 TC3 .2338 BAU .0985
RDE -.2610 RRA -.1650 RC3 .2075 FAU .02866
FDE -.8850 FRA .9439 FC3-1.0532 BSP 5270
BDE .7229 BRA 1.1980 BC3 .3126 FSP -433

MID-COURSE EXECUTION ACCURACY
SGT 1670.7 SGR 419.8 SG3 160.9
RRT .1332 RRF -.1497 RTF -.8802
SGB 1722.7 R23 -.0249 R13 -.8804
SG1 1671.7 SG2 415.8 THA 2.04

ORBIT DETERMINATION ACCURACY
ST 907.1 SR 314.0 SS 908.7
CRT -.7679 CRS -.8697 CST .9835
LSA 1305.0 MSA 209.6 SSA 16.6
EL1 940.1 EL2 194.1 ALF 164.43

LAUNCH DATE MAY 23 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 8 1967

HELIOCENTRIC CONIC DISTANCE 264.989
RL 151.46 LAL -.00 LOL 241.20 VL 25.525 GAL 4.66 AZL 93.58 HCA 109.06 SMA 120.54 ECC .26819 INC 3.5829 V1 29.417
RP 108.78 LAP -3.39 LOP 350.29 VP 36.595 GAP -14.54 AZP 88.83 TAL 167.04 TAP 276.09 RCA 88.21 APO 152.87 V2 34.838
RC 44.440 GL -19.93 GP 3.68 ZAL 68.04 ZAP 5.20 ETS 315.06 ZAE 157.89 ETE 43.81 ZAC 97.59 ETC 14.88 CLP -3.68

PLANETOCENTRIC CONIC
C3 21.764 VHL 4.665 DLA -16.12 RAL 166.99 RAD 6567.9 VEL 11.964 PTH 2.13 VHP 9.072 DPA 11.79 RAP 170.48 ECC 1.3582

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 38 47	1708.35	-4.94	11.55	28.66	117.92	9 7 15	1108.4	-1.16	4.90
90.00	16 18 0	5404.99	28.03	247.93	35.61	85.77	17 48 5	4805.0	27.14	239.38
100.00	9 51 8	1474.91	-6.16	353.72	27.99	119.31	10 15 43	874.9	-2.20	347.16
100.00	17 48 20	5113.66	29.41	226.37	35.47	84.38	19 13 34	4513.7	28.32	217.73
110.00	10 39 26	1323.59	-9.27	340.34	26.09	123.05	11 1 30	723.6	-4.86	334.03
110.00	19 16 31	4837.75	33.02	204.86	34.92	80.61	20 37 9	4237.7	31.37	196.02

DIFFERENTIAL CORRECTIONS
TDE .6861 TRA-1.1562 TC3 .2992 BAU .1092
RDE -.2370 RRA -.1557 RC3 .2266 FAU .03058
FDE -.9576 FRA .9705 FC3-1.2163 BSP 5462
BDE .7258 BRA 1.1667 BC3 .3754 FSP -482

MID-COURSE EXECUTION ACCURACY
SGT 1724.2 SGR 411.2 SG3 177.3
RRT .1524 RRF -.1714 RTF -.8880
SGB 1772.5 R23 -.0284 R13 -.8883
SG1 1725.4 SG2 406.1 THA 2.20

ORBIT DETERMINATION ACCURACY
ST 952.2 SR 297.2 SS 967.3
CRT -.7729 CRS -.8722 CST .9846
LSA 1374.4 MSA 203.7 SSA 16.6
EL1 980.5 EL2 183.2 ALF 165.94

```
LAUNCH DATE  MAY 23 1967                          FLIGHT TIME 110.00                          ARRIVAL DATE  SEP 10 1967

 HELIOCENTRIC CONIC                                DISTANCE 271.708
  RL  151.46 LAL   -.00 LOL 241.20 VL  25.682 GAL   4.37 AZL  93.64 HCA 112.23 SMA 121.43 ECC .25806 INC 3.6391 V1  29.417
  RP  108.75 LAP  -3.37 LOP 353.47 VP  36.713 GAP -13.73 AZP  88.62 TAL 167.19 TAP 279.42 RCA  90.09 APO 152.77 V2  34.846
  RC  45.237 GL  -21.21 GP    3.98 ZAL  68.74 ZAP   6.73 ETS 323.76 ZAE 156.11 ETE  40.08 ZAC  96.14 ETC  14.69 CLP  -5.43
 PLANETOCENTRIC CONIC
  C3  20.191 VHL  4.493 DLA -17.08 RAL 165.95 RAD 6567.8 VEL 11.898 PTH   2.11 VHP  8.611 DPA  11.51 RAP 171.93 ECC 1.3323
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     8 43 53   1654.85      -3.23      8.55       26.71      118.15    9 11 28     1054.8        .56       1.91
     90.00    16  4 37   5422.48      28.11    249.21       33.60       86.41   17 34 59     4822.5      27.31     240.63
    100.00     9 55 26   1423.99      -4.45    350.90       26.04      119.59   10 19 10      824.0       -.48     344.36
    100.00    17 35 45   5128.58      29.50    227.47       33.48       84.95   19  1 14     4528.6      28.49     218.81
    110.00    10 42  5   1277.80      -7.56    337.89       24.12      123.44   11  3 23      677.8      -3.11     331.63
    110.00    19  5 35   4847.53      33.13    205.60       32.96       81.04   20 26 22     4247.5      31.53     196.74
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
  TDE  .6990 TRA-1.1244 TC3  .3700 BAU  .1201      SGT 1776.1 SGR  402.3 SG3  195.6          ST   998.5 SR   278.5 SS  1030.8
  RDE -.2134 RRA -.1474 RC3  .2468 FAU .03274      RRT  .1764 RRF -.1984 RTF -.8952          CRT -.7765 CRS -.8734 CST  .9846
  FDE-1.0401 FRA  .9984 FC3-1.4036 BSP   5641      SGB 1821.1 R23 -.0328 R13 -.8956          LSA 1448.4 MSA  197.7 SSA   16.5
  BDE  .7308 BRA 1.1340 BC3  .4448 FSP   -537      SGI 1777.6 SG2  395.7 THA   2.41         EL1 1022.3 EL2  171.4 ALF 167.42

LAUNCH DATE  MAY 23 1967                          FLIGHT TIME 112.00                          ARRIVAL DATE  SEP 12 1967

 HELIOCENTRIC CONIC                                DISTANCE 278.426
  RL  151.46 LAL   -.00 LOL 241.20 VL  25.827 GAL   4.10 AZL  93.70 HCA 115.40 SMA 122.27 ECC .24865 INC 3.6979 V1  29.417
  RP  108.72 LAP  -3.34 LOP 356.64 VP  36.823 GAP -12.94 AZP  88.41 TAL 167.39 TAP 282.79 RCA  91.86 APO 152.67 V2  34.856
  RC  46.178 GL  -22.52 GP    4.33 ZAL  69.50 ZAP   8.43 ETS 329.10 ZAE 154.40 ETE  37.11 ZAC  94.74 ETC  14.51 CLP  -7.24
 PLANETOCENTRIC CONIC
  C3  18.817 VHL  4.338 DLA -18.04 RAL 164.84 RAD 6567.8 VEL 11.841 PTH   2.10 VHP  8.167 DPA  11.29 RAP 173.34 ECC 1.3097
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     8 49  6   1601.39      -1.50      5.56       24.81      118.28    9 15 47     1001.4       2.29     358.93
     90.00    15 50 30   5442.53      28.18    250.67       31.61       87.13   17 21 12     4842.5      27.49     242.07
    100.00     9 59 45   1373.37      -2.74    348.11       24.12      119.78   10 22 39      773.4       1.24     341.59
    100.00    17 22 31   5145.79      29.60    228.74       31.50       85.61   18 48 17     4545.8      28.68     220.06
    110.00    10 44 39   1232.72      -5.87    335.51       22.19      123.74   11  5 12      632.7      -1.39     329.28
    110.00    18 54  7   4859.21      33.25    206.49       31.02       81.55   20 15  6     4259.2      31.72     197.60
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
  TDE  .7136 TRA-1.0904 TC3  .4462 BAU  .1310      SGT 1825.6 SGR  393.5 SG3  216.0          ST  1046.4 SR   257.6 SS  1099.9
  RDE -.1899 RRA -.1400 RC3  .2681 FAU .03515      RRT  .2063 RRF -.2319 RTF -.9021          CRT -.7783 CRS -.8729 CST  .9853
  FDE-1.1343 FRA 1.0275 FC3-1.6173 BSP   5824      SGB 1867.5 R23 -.0380 R13 -.9025          LSA 1527.8 MSA  191.6 SSA   16.3
  BDE  .7384 BRA 1.0994 BC3  .5206 FSP   -599      SGI 1827.4 SG2  384.6 THA   2.66         EL1 1065.9 EL2  158.8 ALF 168.90

LAUNCH DATE  MAY 23 1967                          FLIGHT TIME 114.00                          ARRIVAL DATE  SEP 14 1967

 HELIOCENTRIC CONIC                                DISTANCE 285.139
  RL  151.46 LAL   -.00 LOL 241.20 VL  25.960 GAL   3.85 AZL  93.76 HCA 118.58 SMA 123.05 ECC .23994 INC 3.7600 V1  29.417
  RP  108.69 LAP  -3.30 LOP 359.82 VP  36.925 GAP -12.19 AZP  88.20 TAL 167.61 TAP 286.19 RCA  93.52 APO 152.57 V2  34.865
  RC  47.255 GL  -23.87 GP    4.73 ZAL  70.33 ZAP  10.26 ETS 332.57 ZAE 152.81 ETE  34.77 ZAC  93.39 ETC  14.33 CLP  -9.12
 PLANETOCENTRIC CONIC
  C3  17.622 VHL  4.198 DLA -19.00 RAL 163.65 RAD 6567.7 VEL 11.790 PTH   2.08 VHP  7.740 DPA  11.13 RAP 174.71 ECC 1.2900
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     8 54 30   1547.89        .22      2.58       22.96      118.32    9 20 18      947.9       4.01     355.94
     90.00    15 35 36   5465.37      28.25    252.34       29.64       87.97   17  6 42     4865.4      27.67     243.72
    100.00    10  4 11   1323.03      -1.04    345.35       22.26      119.88   10 26 14      723.0       2.94     338.82
    100.00    17  8 37   5165.46      29.69    230.19       29.56       86.37   18 34 42     4565.5      28.87     221.48
    110.00    10 47 10   1188.37      -4.18    333.18       20.30      123.96   11  6 58      588.4        .30     326.96
    110.00    18 42  8   4872.88      33.38    207.54       29.12       82.16   20  3 20     4272.9      31.93     198.61
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
  TDE  .7285 TRA-1.0559 TC3  .5252 BAU  .1414      SGT 1872.5 SGR  385.0 SG3  238.9          ST  1094.5 SR   234.2 SS  1174.5
  RDE -.1662 RRA -.1336 RC3  .2908 FAU .03785      RRT  .2441 RRF -.2736 RTF -.9083          CRT -.7763 CRS -.8693 CST  .9860
  FDE-1.2416 FRA 1.0584 FC3-1.8596 BSP   5987      SGB 1911.7 R23 -.0441 R13 -.9088          LSA 1611.7 MSA  186.0 SSA   16.1
  BDE  .7472 BRA 1.0643 BC3  .6003 FSP   -668      SGI 1875.0 SG2  372.9 THA   2.99         EL1 1109.8 EL2  145.6 ALF 170.40

LAUNCH DATE  MAY 23 1967                          FLIGHT TIME 116.00                          ARRIVAL DATE  SEP 16 1967

 HELIOCENTRIC CONIC                                DISTANCE 291.845
  RL  151.46 LAL   -.00 LOL 241.20 VL  26.082 GAL   3.61 AZL  93.83 HCA 121.75 SMA 123.78 ECC .23188 INC 3.8259 V1  29.417
  RP  108.66 LAP  -3.25 LOP   3.01 VP  37.021 GAP -11.46 AZP  87.98 TAL 167.87 TAP 289.62 RCA  95.08 APO 152.48 V2  34.875
  RC  48.458 GL  -25.24 GP    5.18 ZAL  71.21 ZAP  12.21 ETS 334.90 ZAE 151.36 ETE  32.96 ZAC  92.10 ETC  14.16 CLP -11.07
 PLANETOCENTRIC CONIC
  C3  16.590 VHL  4.073 DLA -19.97 RAL 162.40 RAD 6567.7 VEL 11.746 PTH   2.07 VHP  7.331 DPA  11.05 RAP 176.03 ECC 1.2730
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     9  0 14   1494.15       1.96    359.58       21.17      118.25    9 25  8      894.2       5.72     352.92
     90.00    15 19 54   5491.27      28.30    254.23       27.70       88.92   16 51 25     4891.3      27.85     245.59
    100.00    10  8 48   1272.84        .66    342.59       20.45      119.89   10 30  1      672.8       4.64     336.06
    100.00    16 54  1   5187.81      29.78    231.85       27.65       87.24   18 20 28     4587.8      29.08     223.12
    110.00    10 49 41   1144.76      -2.52    330.89       18.46      124.10   11  8 45      544.8       1.97     324.69
    110.00    18 29 38   4888.66      33.52    208.75       27.26       82.86   19 51  6     4288.7      32.17     199.78
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
  TDE  .7467 TRA-1.0175 TC3  .6118 BAU  .1526      SGT 1915.9 SGR  377.7 SG3  264.7          ST  1145.5 SR   208.1 SS  1256.7
  RDE -.1420 RRA -.1283 RC3  .3151 FAU .04096      RRT  .2908 RRF -.3249 RTF -.9149          CRT -.7695 CRS -.8610 CST  .9870
  FDE-1.3664 FRA 1.0893 FC3-2.1374 BSP   6195      SGB 1952.8 R23 -.0512 R13 -.9155          LSA 1703.6 MSA  179.8 SSA   15.8
  BDE  .7601 BRA 1.0255 BC3  .6881 FSP   -749      SGI 1919.2 SG2  360.8 THA   3.40         EL1 1156.8 EL2  131.6 ALF 171.94
```

LAUNCH DATE MAY 23 1967 FLIGHT TIME 118.00 ARRIVAL DATE SEP 18 1967

DISTANCE 298.543

HELIOCENTRIC CONIC
RL 151.46 LAL -.00 LOL 241.20 VL 26.194 GAL 3.38 AZL 93.90 HCA 124.93 SMA 124.46 ECC .22446 INC 3.8966 V1 29.417
RP 108.63 LAP -3.19 LOP 6.19 VP 37.110 GAP -10.75 AZP 87.77 TAL 168.15 TAP 293.08 RCA 96.52 APO 152.39 V2 34.886
RC 49.776 GL -26.64 GP 5.71 ZAL 72.12 ZAP 14.28 ETS 336.49 ZAE 150.07 ETE 31.62 ZAC 90.87 ETC 13.99 CLP -13.12

PLANETOCENTRIC CONIC
C3 15.707 VHL 3.963 DLA -20.95 RAL 161.09 RAD 6567.6 VEL 11.709 PTH 2.06 VHP 6.940 DPA 11.07 RAP 177.30 ECC 1.2585

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 6 25	1439.87	3.70	356.54	19.46	118.09	9 30 25	839.9	7.43	349.85
90.00	15 3 19	5520.64	28.32	256.38	25.81	89.99	16 35 19	4920.6	28.02	247.73
100.00	10 13 44	1222.64	2.36	339.84	18.72	119.81	10 34 7	622.6	6.31	333.28
100.00	16 38 41	5213.11	29.84	233.73	25.79	88.23	18 5 34	4613.1	29.28	224.97
110.00	10 52 17	1101.82	-.88	328.65	16.70	124.17	11 10 39	501.8	3.61	322.44
110.00	18 16 38	4906.69	33.66	210.14	25.47	83.67	19 38 24	4306.7	32.42	201.12

DIFFERENTIAL CORRECTIONS
TDE .7628 TRA -.9813 TC3 .6918 BAU .1620
RDE -.1170 RRA -.1242 RC3 .3412 FAU .04436
FDE-1.5077 FRA 1.1245 FC3-2.4449 BSP 6334
BDE .7717 BRA .9891 BC3 .7713 FSP -838

MID-COURSE EXECUTION ACCURACY
SGT 1955.6 SGR 372.4 SG3 293.5
RRT .3487 RRF -.3876 RTF -.9199
SGB 1990.7 R23 -.0601 R13 -.9207
SG1 1960.0 SG2 348.3 THA 3.92

ORBIT DETERMINATION ACCURACY
ST 1193.3 SR 178.8 SS 1344.3
CRT -.7499 CRS -.8428 CST .9877
LSA 1797.9 MSA 175.0 SSA 15.3
EL1 1200.9 EL2 117.6 ALF 173.53

LAUNCH DATE MAY 23 1967 FLIGHT TIME 120.00 ARRIVAL DATE SEP 20 1967

DISTANCE 305.231

HELIOCENTRIC CONIC
RL 151.46 LAL -.00 LOL 241.20 VL 26.297 GAL 3.17 AZL 93.97 HCA 128.11 SMA 125.09 ECC .21765 INC 3.9730 V1 29.417
RP 108.59 LAP -3.13 LOP 9.37 VP 37.192 GAP -10.06 AZP 87.55 TAL 168.45 TAP 296.56 RCA 97.86 APO 152.31 V2 34.897
RC 51.201 GL -28.06 GP 6.32 ZAL 73.06 ZAP 16.48 ETS 337.57 ZAE 148.95 ETE 30.72 ZAC 89.72 ETC 13.82 CLP -15.26

PLANETOCENTRIC CONIC
C3 14.961 VHL 3.868 DLA -21.93 RAL 159.75 RAD 6567.6 VEL 11.677 PTH 2.05 VHP 6.565 DPA 11.20 RAP 178.52 ECC 1.2462

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 13 17	1384.59	5.47	353.44	17.85	117.83	9 36 22	784.6	9.15	346.70
90.00	14 45 42	5554.03	28.29	258.82	23.98	91.22	16 18 16	4954.0	28.16	250.16
100.00	10 19 7	1172.13	4.07	337.06	17.08	119.64	10 38 39	572.1	7.99	330.46
100.00	16 22 34	5241.72	29.89	235.85	23.99	89.35	17 49 55	4641.7	29.48	227.07
110.00	10 55 3	1059.46	.74	326.44	15.00	124.18	11 12 43	459.5	5.22	320.22
110.00	18 3 7	4927.15	33.80	211.72	23.75	84.59	19 25 14	4327.1	32.69	202.66

DIFFERENTIAL CORRECTIONS
TDE .7796 TRA -.9430 TC3 .7696 BAU .1708
RDE -.0903 RRA -.1214 RC3 .3699 FAU .04818
FDE-1.6710 FRA 1.1601 FC3-2.7883 BSP 6462
BDE .7848 BRA .9508 BC3 .8539 FSP -938

MID-COURSE EXECUTION ACCURACY
SGT 1988.8 SGR 370.6 SG3 325.7
RRT .4174 RRF -.4617 RTF -.9246
SGB 2023.0 R23 -.0709 R13 -.9256
SG1 1995.0 SG2 335.7 THA 4.58

ORBIT DETERMINATION ACCURACY
ST 1240.1 SR 146.2 SS 1439.5
CRT -.7068 CRS -.8044 CST .9884
LSA 1897.9 MSA 170.5 SSA 14.8
EL1 1244.5 EL2 103.0 ALF 175.21

LAUNCH DATE MAY 23 1967 FLIGHT TIME 122.00 ARRIVAL DATE SEP 22 1967

DISTANCE 311.907

HELIOCENTRIC CONIC
RL 151.46 LAL -.00 LOL 241.20 VL 26.390 GAL 2.98 AZL 94.06 HCA 131.29 SMA 125.67 ECC .21142 INC 4.0565 V1 29.417
RP 108.56 LAP -3.05 LOP 12.56 VP 37.269 GAP -9.40 AZP 87.32 TAL 168.76 TAP 300.05 RCA 99.10 APO 152.24 V2 34.908
RC 52.722 GL -29.49 GP 7.03 ZAL 74.02 ZAP 18.82 ETS 338.29 ZAE 148.02 ETE 30.23 ZAC 88.65 ETC 13.65 CLP -17.51

PLANETOCENTRIC CONIC
C3 14.340 VHL 3.787 DLA -22.91 RAL 158.37 RAD 6567.6 VEL 11.650 PTH 2.05 VHP 6.208 DPA 11.47 RAP 179.68 ECC 1.2360

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 21 6	1327.53	7.27	350.22	16.35	117.44	9 43 14	727.5	10.89	343.41
90.00	14 26 52	5592.25	28.21	261.61	22.21	92.62	16 0 5	4992.2	28.27	252.95
100.00	10 25 9	1120.84	5.79	334.22	15.54	119.38	10 43 49	520.8	9.66	327.57
100.00	16 5 31	5274.17	29.89	238.27	22.27	90.62	17 33 25	4674.2	29.65	229.47
110.00	10 58 6	1017.50	2.34	324.25	13.41	124.11	11 15 4	417.5	6.80	318.01
110.00	17 49 3	4950.28	33.94	213.51	22.11	85.65	19 11 33	4350.3	32.96	204.41

DIFFERENTIAL CORRECTIONS
TDE .7957 TRA -.9048 TC3 .8400 BAU .1785
RDE -.0615 RRA -.1200 RC3 .4018 FAU .05243
FDE-1.8587 FRA 1.1991 FC3-3.1653 BSP 6563
BDE .7981 BRA .9127 BC3 .9312 FSP -1051

MID-COURSE EXECUTION ACCURACY
SGT 2015.7 SGR 374.3 SG3 361.8
RRT .4965 RRF -.5463 RTF -.9286
SGB 2050.2 R23 -.0841 R13 -.9300
SG1 2024.5 SG2 323.5 THA 5.41

ORBIT DETERMINATION ACCURACY
ST 1284.0 SR 110.6 SS 1541.8
CRT -.6016 CRS -.7108 CST .9891
LSA 2002.5 MSA 166.8 SSA 14.2
EL1 1285.7 EL2 88.2 ALF 177.02

LAUNCH DATE MAY 23 1967 FLIGHT TIME 124.00 ARRIVAL DATE SEP 24 1967

DISTANCE 318.571

HELIOCENTRIC CONIC
RL 151.46 LAL -.00 LOL 241.20 VL 26.475 GAL 2.80 AZL 94.15 HCA 134.48 SMA 126.20 ECC .20573 INC 4.1486 V1 29.417
RP 108.52 LAP -2.96 LOP 15.75 VP 37.340 GAP -8.75 AZP 87.09 TAL 169.08 TAP 303.55 RCA 100.24 APO 152.17 V2 34.920
RC 54.330 GL -30.95 GP 7.86 ZAL 74.99 ZAP 21.32 ETS 338.72 ZAE 147.27 ETE 30.17 ZAC 87.67 ETC 13.48 CLP -19.88

PLANETOCENTRIC CONIC
C3 13.838 VHL 3.720 DLA -23.92 RAL 156.97 RAD 6567.5 VEL 11.629 PTH 2.04 VHP 5.869 DPA 11.89 RAP 180.78 ECC 1.2277

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 30 20	1267.49	9.14	346.79	14.99	116.92	9 51 28	667.5	12.68	339.90
90.00	14 6 28	5636.60	28.03	264.84	20.51	94.23	15 40 24	5036.6	28.32	256.19
100.00	10 32 7	1068.07	7.54	331.29	14.13	119.01	10 49 55	468.1	11.36	324.57
100.00	15 47 22	5311.25	29.83	241.02	20.63	92.06	17 15 53	4711.2	29.80	232.22
110.00	11 1 35	975.65	3.94	322.06	11.91	123.98	11 17 51	375.7	8.37	315.78
110.00	17 34 23	4976.44	34.05	215.54	20.58	86.85	18 57 19	4376.4	33.24	206.40

DIFFERENTIAL CORRECTIONS
TDE .8115 TRA -.8654 TC3 .9018 BAU .1855
RDE -.0293 RRA -.1202 RC3 .4380 FAU .05718
FDE-2.0758 FRA 1.2396 FC3-3.5771 BSP 6642
BDE .8121 BRA .8738 BC3 1.0025 FSP -1177

MID-COURSE EXECUTION ACCURACY
SGT 2034.4 SGR 386.3 SG3 402.2
RRT .5821 RRF -.6371 RTF -.9322
SGB 2070.8 R23 -.1002 R13 -.9340
SG1 2047.1 SG2 312.2 THA 6.46

ORBIT DETERMINATION ACCURACY
ST 1324.4 SR 76.4 SS 1652.4
CRT -.2939 CRS -.4246 CST .9897
LSA 2112.7 MSA 163.6 SSA 13.5
EL1 1324.6 EL2 73.0 ALF 179.03

LAUNCH DATE MAY 23 1967 FLIGHT TIME 126.00 ARRIVAL DATE SEP 26 1967

HELIOCENTRIC CONIC DISTANCE 325.220

```
RL  151.46 LAL   -.00 LOL 241.20 VL  26.552 GAL   2.63 AZL  94.25 HCA 137.66 SMA 126.69 ECC .20057 INC 4.2513 VI  29.417
RP  108.48 LAP  -2.86 LOP  18.94 VP  37.406 GAP  -8.13 AZP  86.85 TAL 169.40 TAP 307.06 RCA 101.28 APO 152.11 V2  34.932
RC   56.016 GL  -32.42 GP   8.85 ZAL  75.94 ZAP  24.00 ETS 338.93 ZAE 146.68 ETE  30.57 ZAC  86.79 ETC  13.30 CLP -22.40
```

PLANETOCENTRIC CONIC

```
C3  13.450 VHL  3.667 DLA -24.94 RAL 155.55 RAD 6567.5 VEL 11.612 PTH   2.03 VHP  5.547 DPA  12.52 RAP 181.81 ECC 1.2213
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 41 41	1202.36	11.12	343.04	13.80	116.21	10 1 43	602.4	14.56	336.04
90.00	13 43 49	5689.29	27.70	268.67	18.88	96.12	15 18 38	5089.3	28.26	260.04
100.00	10 40 26	1012.68	9.36	328.18	12.88	118.52	10 57 19	412.7	13.10	321.38
100.00	15 27 45	5354.20	29.68	244.20	19.07	93.73	16 56 59	4754.2	29.88	235.41
110.00	11 5 41	933.49	5.54	319.85	10.55	123.79	11 21 14	333.5	9.94	313.52
110.00	17 19 0	5006.15	34.14	217.86	19.16	88.21	18 42 26	4406.1	33.52	208.67

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .8287 TRA -.8230 TC3  .9581 BAU  .1927   SGT 2044.8 SGR  410.3 SG3  447.5     ST  1363.0 SR    65.0 SS  1773.4
 RDE  .0075 RRA -.1220 RC3  .4800 FAU .06258   RRT  .6684 RRF -.7276 RTF -.9359     CRT  .4765 CRS  .3544 CST  .9905
 FDE-2.3296 FRA 1.2784 FC3-4.0283 BSP   6749   SGB 2085.5 R23 -.1183 R13 -.9385     LSA 2231.9 MSA  160.1 SSA   12.7
 BDE  .8288 BRA  .8320 BC3 1.0717 FSP  -1325   SG1 2063.5 SG2  302.4 THA   7.81    EL1 1363.3 EL2   57.1 ALF   1.30
```

LAUNCH DATE MAY 23 1967 FLIGHT TIME 128.00 ARRIVAL DATE SEP 28 1967

HELIOCENTRIC CONIC DISTANCE 331.854

```
RL  151.46 LAL   -.00 LOL 241.20 VL  26.621 GAL   2.48 AZL  94.37 HCA 140.85 SMA 127.14 ECC .19591 INC 4.3676 VI  29.417
RP  108.45 LAP  -2.76 LOP  22.13 VP  37.467 GAP  -7.52 AZP  86.61 TAL 169.72 TAP 310.57 RCA 102.23 APO 152.05 V2  34.945
RC   57.772 GL  -33.92 GP  10.02 ZAL  76.87 ZAP  26.89 ETS 338.96 ZAE 146.25 ETE  31.48 ZAC  86.01 ETC  13.12 CLP -25.08
```

PLANETOCENTRIC CONIC

```
C3  13.172 VHL  3.629 DLA -25.99 RAL 154.13 RAD 6567.5 VEL 11.600 PTH   2.03 VHP  5.245 DPA  13.37 RAP 182.78 ECC 1.2168
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 56 31	1127.96	13.32	338.68	12.85	115.22	10 15 18	528.0	16.61	331.55
90.00	13 17 39	5754.63	27.14	273.36	17.29	98.41	14 53 34	5154.6	28.02	264.81
100.00	10 50 46	952.74	11.29	324.77	11.81	117.86	11 6 39	352.7	14.93	317.87
100.00	15 6 4	5405.08	29.39	247.96	17.61	95.69	16 36 10	4805.1	29.87	239.19
110.00	11 10 38	890.40	7.16	317.57	9.33	123.51	11 25 29	290.4	11.52	311.19
110.00	17 2 42	5040.19	34.18	220.52	17.88	89.79	18 26 42	4440.2	33.78	211.30

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .8413 TRA -.7821 TC3  .9905 BAU  .1977   SGT 2041.5 SGR  450.2 SG3  497.2     ST  1390.8 SR   104.5 SS  1900.9
 RDE  .0506 RRA -.1259 RC3  .5289 FAU .06839   RRT  .7463 RRF -.8089 RTF -.9382     CRT  .9203 CRS  .8619 CST  .9910
 FDE-2.6193 FRA 1.3197 FC3-4.4947 BSP   6773   SGB 2090.6 R23 -.1408 R13 -.9418     LSA 2352.3 MSA  158.0 SSA   11.8
 BDE  .8428 BRA  .7922 BC3 1.1229 FSP  -1483   SG1 2069.6 SG2  295.6 THA   9.54    EL1 1394.1 EL2   40.8 ALF   3.96
```

LAUNCH DATE MAY 23 1967 FLIGHT TIME 130.00 ARRIVAL DATE SEP 30 1967

HELIOCENTRIC CONIC DISTANCE 338.473

```
RL  151.46 LAL   -.00 LOL 241.20 VL  26.683 GAL   2.34 AZL  94.50 HCA 144.04 SMA 127.55 ECC .19171 INC 4.5010 VI  29.417
RP  108.41 LAP  -2.64 LOP  25.32 VP  37.523 GAP  -6.93 AZP  86.35 TAL 170.03 TAP 314.07 RCA 103.10 APO 152.00 V2  34.957
RC   59.590 GL  -35.46 GP  11.43 ZAL  77.78 ZAP  30.01 ETS 338.83 ZAE 145.92 ETE  32.98 ZAC  85.36 ETC  12.93 CLP -27.93
```

PLANETOCENTRIC CONIC

```
C3  13.007 VHL  3.606 DLA -27.08 RAL 152.71 RAD 6567.5 VEL 11.593 PTH   2.03 VHP  4.964 DPA  14.52 RAP 183.71 ECC 1.2141
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 18 8	1033.90	15.97	333.05	12.25	113.70	10 35 22	433.9	19.04	325.72
90.00	12 44 41	5843.25	26.10	279.64	15.67	101.39	14 22 4	5243.2	27.41	271.22
100.00	11 4 19	884.67	13.42	320.84	11.00	116.96	11 19 4	284.7	16.93	313.81
100.00	14 41 10	5467.71	28.88	252.55	16.21	98.05	16 12 18	4867.7	29.70	243.84
110.00	11 16 49	845.42	8.85	315.18	8.30	123.15	11 30 55	245.4	13.15	308.72
110.00	16 45 10	5079.72	34.15	223.61	16.73	91.61	18 9 49	4479.7	34.00	214.36

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .8510 TRA -.7412 TC3 1.0014 BAU  .2018   SGT 2024.5 SGR  511.0 SG3  551.5     ST  1409.2 SR   178.2 SS  2036.4
 RDE  .1026 RRA -.1321 RC3  .5866 FAU .07465   RRT  .8098 RRF -.8748 RTF -.9396     CRT  .9908 CRS  .9666 CST  .9914
 FDE-2.9524 FRA 1.3613 FC3-4.9684 BSP   6759   SGB 2088.0 R23 -.1662 R13 -.9450     LSA 2477.8 MSA  156.6 SSA   10.9
 BDE  .8572 BRA  .7528 BC3 1.1605 FSP  -1656   SG1 2067.3 SG2  293.6 THA  11.79    EL1 1420.2 EL2   23.9 ALF   7.14
```

LAUNCH DATE MAY 23 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 2 1967

HELIOCENTRIC CONIC DISTANCE 345.074

```
RL  151.46 LAL   -.00 LOL 241.20 VL  26.739 GAL   2.22 AZL  94.66 HCA 147.23 SMA 127.91 ECC .18795 INC 4.6569 VI  29.417
RP  108.37 LAP  -2.52 LOP  28.52 VP  37.574 GAP  -6.36 AZP  86.08 TAL 170.32 TAP 317.55 RCA 103.87 APO 151.96 V2  34.970
RC   61.464 GL  -37.05 GP  13.15 ZAL  78.65 ZAP  33.40 ETS 338.57 ZAE 145.65 ETE  35.16 ZAC  84.82 ETC  12.75 CLP -30.98
```

PLANETOCENTRIC CONIC

```
C3  12.962 VHL  3.600 DLA -28.24 RAL 151.28 RAD 6567.5 VEL 11.591 PTH   2.03 VHP  4.706 DPA  16.01 RAP 184.59 ECC 1.2133
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 7 27	853.05	20.56	321.77	12.57	109.91	11 21 40	253.1	23.09	314.01
90.00	11 43 59	734.56	23.11	314.01	13.49	106.83	11 56 14	134.6	25.20	305.97
100.00	11 23 47	800.20	15.97	315.87	10.55	115.61	11 37 7	200.2	19.29	308.64
100.00	14 10 21	5550.68	27.95	258.53	14.82	101.07	15 42 51	4950.7	29.19	249.95
110.00	11 24 46	797.08	10.64	312.58	7.49	122.68	11 38 3	197.1	14.87	306.03
110.00	16 25 51	5126.57	34.00	227.26	15.74	93.77	17 51 17	4526.6	34.15	218.01

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .8600 TRA -.6973 TC3  .9966 BAU  .2068   SGT 1993.6 SGR  598.8 SG3  610.7     ST  1420.0 SR   277.4 SS  2183.0
 RDE  .1673 RRA -.1405 RC3  .6561 FAU .08154   RRT  .8572 RRF -.9231 RTF -.9409     CRT  .9993 CRS  .9902 CST  .9918
 FDE-3.3395 FRA 1.3940 FC3-5.4462 BSP   6782   SGB 2081.6 R23 -.1904 R13 -.9489     LSA 2614.3 MSA  155.0 SSA    9.9
 BDE  .8761 BRA  .7113 BC3 1.1931 FSP  -1856   SG1 2060.1 SG2  298.5 THA  14.75    EL1 1446.8 EL2   10.1 ALF  11.05
```

LAUNCH DATE MAY 23 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 4 1967

HELIOCENTRIC CONIC DISTANCE 351.658

RL 151.46 LAL -.00 LOL 241.20 VL 26.789 GAL 2.11 AZL 94.84 HCA 150.43 SMA 128.24 ECC .18462 INC 4.8423 VI 29.417
RP 108.33 LAP -2.39 LOP 31.71 VP 37.622 GAP -5.80 AZP 85.79 TAL 170.59 TAP 321.02 RCA 104.57 APO 151.92 V2 34.983
RC 63.388 GL -38.72 GP 15.25 ZAL 79.47 ZAP 37.11 ETS 338.19 ZAE 145.32 ETE 38.15 ZAC 84.40 ETC 12.57 CLP -34.25

PLANETOCENTRIC CONIC

C3 13.052 VHL 3.613 DLA -29.48 RAL 149.85 RAD 6567.5 VEL 11.595 PTH 2.03 VHP 4.473 DPA 17.94 RAP 185.46 ECC 1.2148

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.42	10 9 34	1022.82	22.72	335.05	12.06	109.32	10 26 37	422.8	25.14	327.13
98.58	12 30 27	5855.83	22.73	279.55	12.06	109.30	14 8 3	5255.8	25.15	271.62
100.00	11 59 53	665.69	19.74	307.66	10.83	112.91	12 10 58	65.7	22.67	300.09
100.00	13 22 50	5688.19	25.77	268.17	13.12	105.69	14 57 38	5088.2	27.68	259.88
110.00	11 35 24	742.84	12.61	309.62	6.97	122.04	11 47 46	142.8	16.75	302.96
110.00	16 3 48	5183.80	33.66	231.69	14.88	96.37	17 30 12	4583.8	34.17	222.48

DIFFERENTIAL CORRECTIONS
TDE .8625 TRA -.6550 TC3 .9568 BAU .2108
RDE .2493 RRA -.1522 RC3 .7372 FAU .08839
FDE-3.7755 FRA 1.4223 FC3-5.8627 BSP 6737
BDE .8978 BRA .6724 BC3 1.2079 FSP -2057

MID-COURSE EXECUTION ACCURACY
SGT 1942.4 SGR 719.0 SG3 672.1
RRT .8878 RRF -.9552 RTF -.9405
SGB 2071.2 R23 -.2122 R13 -.9528
SG1 2047.2 SG2 313.9 THA 18.65

ORBIT DETERMINATION ACCURACY
ST 1414.0 SR 404.4 SS 2333.9
CRT .9985 CRS .9968 CST .9919
LSA 2754.3 MSA 154.4 SSA 8.9
EL1 1470.5 EL2 21.2 ALF 15.94

LAUNCH DATE MAY 23 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 6 1967

HELIOCENTRIC CONIC DISTANCE 358.224

RL 151.46 LAL -.00 LOL 241.20 VL 26.833 GAL 2.02 AZL 95.07 HCA 153.62 SMA 128.54 ECC .18167 INC 5.0684 VI 29.417
RP 108.29 LAP -2.25 LOP 34.91 VP 37.665 GAP -5.26 AZP 85.46 TAL 170.83 TAP 324.46 RCA 105.18 APO 151.89 V2 34.996
RC 65.357 GL -40.50 GP 17.85 ZAL 80.25 ZAP 41.18 ETS 337.72 ZAE 144.78 ETE 42.06 ZAC 84.09 ETC 12.40 CLP -37.75

PLANETOCENTRIC CONIC

C3 13.307 VHL 3.648 DLA -30.85 RAL 148.40 RAD 6567.5 VEL 11.606 PTH 2.03 VHP 4.271 DPA 20.41 RAP 186.38 ECC 1.2190

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.22	9 32 10	1127.64	23.63	343.22	11.29	110.44	9 50 58	527.6	26.19	335.28
102.78	12 56 15	5759.37	23.64	272.71	11.30	110.42	14 32 15	5159.4	26.20	264.77
77.22	9 32 10	1127.64	23.63	343.22	11.29	110.44	9 50 58	527.6	26.19	335.28
102.78	12 56 15	5759.37	23.64	272.71	11.30	110.42	14 32 15	5159.4	26.20	264.77
110.00	11 50 24	677.81	14.93	306.01	6.85	121.11	12 1 42	77.8	18.94	299.19
110.00	15 37 12	5257.20	32.96	237.31	14.13	99.62	17 4 49	4657.2	33.94	228.20

DIFFERENTIAL CORRECTIONS
TDE .8587 TRA -.6132 TC3 .8858 BAU .2161
RDE .3560 RRA -.1672 RC3 .8314 FAU .09492
FDE-4.2612 FRA 1.4370 FC3-6.1757 BSP 6672
BDE .9296 BRA .6356 BC3 1.2149 FSP -2255

MID-COURSE EXECUTION ACCURACY
SGT 1869.6 SGR 879.9 SG3 733.2
RRT .9054 RRF -.9750 RTF -.9385
SGB 2066.3 R23 -.2250 R13 -.9577
SG1 2037.7 SG2 342.8 THA 23.79

ORBIT DETERMINATION ACCURACY
ST 1390.3 SR 567.0 SS 2487.5
CRT .9965 CRS .9989 CST .9919
LSA 2901.4 MSA 154.6 SSA 7.9
EL1 1500.8 EL2 44.0 ALF 22.14

LAUNCH DATE MAY 23 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 8 1967

HELIOCENTRIC CONIC DISTANCE 364.772

RL 151.46 LAL -.00 LOL 241.20 VL 26.871 GAL 1.94 AZL 95.35 HCA 156.82 SMA 128.79 ECC .17910 INC 5.3521 VI 29.417
RP 108.25 LAP -2.10 LOP 38.11 VP 37.705 GAP -4.73 AZP 85.08 TAL 171.05 TAP 327.87 RCA 105.73 APO 151.86 V2 35.009
RC 67.365 GL -42.45 GP 21.13 ZAL 80.99 ZAP 45.68 ETS 337.17 ZAE 143.78 ETE 46.97 ZAC 83.85 ETC 12.25 CLP -41.49

PLANETOCENTRIC CONIC

C3 13.778 VHL 3.712 DLA -32.38 RAL 146.89 RAD 6567.5 VEL 11.626 PTH 2.04 VHP 4.109 DPA 23.58 RAP 187.43 ECC 1.2267

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.59	9 1 11	1213.58	24.55	350.12	10.78	111.80	9 21 25	613.6	27.29	342.18
106.41	13 15 14	5688.59	24.56	267.75	10.79	111.79	14 50 2	5088.6	27.30	259.80
73.59	9 1 11	1213.58	24.55	350.12	10.78	111.80	9 21 25	613.6	27.29	342.18
106.41	13 15 14	5688.59	24.56	267.75	10.79	111.79	14 50 2	5088.6	27.30	259.80
110.00	12 14 8	5877.52	17.97	278.87	7.39	119.58	13 52 6	5277.5	21.77	271.80
110.00	15 1 27	5360.68	31.52	245.03	13.33	103.98	16 30 48	4760.7	33.11	236.17

DIFFERENTIAL CORRECTIONS
TDE .8510 TRA -.5695 TC3 .7896 BAU .2260
RDE .4995 RRA -.1851 RC3 .9389 FAU .10068
FDE-4.7950 FRA 1.4203 FC3-6.3261 BSP 6722
BDE .9868 BRA .5988 BC3 1.2268 FSP -2452

MID-COURSE EXECUTION ACCURACY
SGT 1775.6 SGR 1093.1 SG3 789.9
RRT .9138 RRF -.9866 RTF -.9350
SGB 2085.1 R23 -.2204 R13 -.9652
SG1 2049.3 SG2 384.7 THA 30.55

ORBIT DETERMINATION ACCURACY
ST 1350.3 SR 778.0 SS 2642.4
CRT .9947 CRS .9996 CST .9917
LSA 3063.8 MSA 154.5 SSA 6.9
EL1 1556.8 EL2 69.7 ALF 29.88

LAUNCH DATE MAY 23 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 10 1967

HELIOCENTRIC CONIC DISTANCE 371.301

RL 151.46 LAL -.00 LOL 241.20 VL 26.905 GAL 1.87 AZL 95.72 HCA 160.02 SMA 129.02 ECC .17687 INC 5.7215 VI 29.417
RP 108.20 LAP -1.95 LOP 41.31 VP 37.741 GAP -4.21 AZP 84.62 TAL 171.22 TAP 331.25 RCA 106.20 APO 151.84 V2 35.023
RC 69.409 GL -44.63 GP 25.29 ZAL 81.69 ZAP 50.67 ETS 336.59 ZAE 141.97 ETE 52.81 ZAC 83.64 ETC 12.13 CLP -45.49

PLANETOCENTRIC CONIC

C3 14.561 VHL 3.816 DLA -34.15 RAL 145.28 RAD 6567.6 VEL 11.660 PTH 2.05 VHP 3.999 DPA 27.63 RAP 188.79 ECC 1.2396

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.06	8 32 30	1294.34	25.49	356.79	10.60	113.53	8 54 4	694.3	28.45	348.86
109.94	13 31 4	5632.21	25.50	263.83	10.61	113.52	15 4 57	5032.2	28.46	255.90
70.06	8 32 30	1294.34	25.49	356.79	10.60	113.53	8 54 4	694.3	28.45	348.86
109.94	13 31 4	5632.21	25.50	263.83	10.61	113.52	15 4 57	5032.2	28.46	255.90
110.00	13 19 46	5666.68	24.54	266.04	10.13	114.58	14 54 12	5066.7	27.64	258.25
110.00	13 42 59	5595.90	26.46	261.44	11.06	112.47	15 16 15	4995.9	29.27	253.38

DIFFERENTIAL CORRECTIONS
TDE .8352 TRA -.5280 TC3 .6594 BAU .2417
RDE .6971 RRA -.2058 RC3 1.0518 FAU .10409
FDE-5.3432 FRA 1.3625 FC3-6.1887 BSP 6877
BDE 1.0879 BRA .5667 BC3 1.2414 FSP -2600

MID-COURSE EXECUTION ACCURACY
SGT 1656.4 SGR 1370.9 SG3 832.2
RRT .9135 RRF -.9929 RTF -.9280
SGB 2150.1 R23 -.1968 R13 -.9746
SG1 2104.9 SG2 439.0 THA 39.11

ORBIT DETERMINATION ACCURACY
ST 1286.7 SR 1052.9 SS 2784.5
CRT .9929 CRS .9999 CST .9911
LSA 3239.3 MSA 155.6 SSA 5.9
EL1 1659.8 EL2 97.0 ALF 39.25

LAUNCH DATE MAY 23 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 12 1967

HELIOCENTRIC CONIC DISTANCE 377.810
RL 151.46 LAL -.00 LOL 241.20 VL 26.933 GAL 1.82 AZL 96.23 HCA 163.23 SMA 129.21 ECC .17497 INC 6.2255 V1 29.417
RP 108.16 LAP -1.79 LOP 44.52 VP 37.774 GAP -3.71 AZP 84.04 TAL 171.36 TAP 334.59 RCA 106.60 APO 151.82 V2 35.036
RC 71.485 GL -47.17 GP 30.68 ZAL 82.39 ZAP 56.23 ETS 336.03 ZAE 138.86 ETE 59.32 ZAC 83.35 ETC 12.03 CLP -49.73
PLANETOCENTRIC CONIC
C3 15.845 VHL 3.981 DLA -36.24 RAL 143.48 RAD 6567.6 VEL 11.714 PTH 2.06 VHP 3.970 DPA 32.82 RAP 190.78 ECC 1.2608

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.37	8 4 15	1376.72	26.40	3.77	10.84	115.79	8 27 11	776.7	29.64	355.90
113.63	13 44 57	5587.77	26.41	260.77	10.85	115.77	15 18 5	4987.8	29.65	252.90
66.37	8 4 15	1376.72	26.40	3.77	10.84	115.79	8 27 11	776.7	29.64	355.90
113.63	13 44 57	5587.77	26.41	260.77	10.85	115.77	15 18 5	4987.8	29.65	252.90
66.37	8 4 15	1376.72	26.40	3.77	10.84	115.79	8 27 11	776.7	29.64	355.90
113.63	13 44 57	5587.77	26.41	260.77	10.85	115.77	15 18 5	4987.8	29.65	252.90

DIFFERENTIAL CORRECTIONS
TDE .8158 TRA -.4870 TC3 .5086 BAU .2676
RDE .9794 RRA -.2260 RC3 1.1561 FAU .10348
FDE-5.8523 FRA 1.2326 FC3-5.6537 BSP 7312
BDE 1.2747 BRA .5368 BC3 1.2631 FSP -2660

MID-COURSE EXECUTION ACCURACY
SGT 1516.0 SGR 1731.2 SG3 846.8
RRT .9063 RRF -.9963 RTF -.9171
SGB 2301.1 R23 -.1528 R13 -.9851
SG1 2247.6 SG2 493.5 THA 49.18

ORBIT DETERMINATION ACCURACY
ST 1202.9 SR 1415.2 SS 2898.7
CRT .9911 CRS 1.0000 CST .9902
LSA 3439.1 MSA 156.6 SSA 4.9
EL1 1853.3 EL2 122.0 ALF 49.68

LAUNCH DATE MAY 23 1967 FLIGHT TIME 144.00 ARRIVAL DATE OCT 14 1967

HELIOCENTRIC CONIC DISTANCE 384.298
RL 151.46 LAL -.00 LOL 241.20 VL 26.958 GAL 1.78 AZL 96.96 HCA 166.43 SMA 129.38 ECC .17338 INC 6.9597 V1 29.417
RP 108.12 LAP -1.63 LOP 47.72 VP 37.804 GAP -3.22 AZP 83.23 TAL 171.46 TAP 337.88 RCA 106.95 APO 151.81 V2 35.049
RC 73.590 GL -50.23 GP 37.74 ZAL 83.11 ZAP 62.42 ETS 335.60 ZAE 133.79 ETE 65.96 ZAC 82.81 ETC 11.89 CLP -54.17
PLANETOCENTRIC CONIC
C3 18.044 VHL 4.248 DLA -38.80 RAL 141.32 RAD 6567.7 VEL 11.808 PTH 2.09 VHP 4.076 DPA 39.44 RAP 194.06 ECC 1.2970

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.29	7 34 47	1467.53	27.14	11.61	11.68	118.85	7 59 15	867.5	30.77	3.88
117.71	13 57 12	5556.75	27.16	258.67	11.69	118.84	15 29 48	4956.8	30.78	250.94
62.29	7 34 47	1467.53	27.14	11.61	11.68	118.85	7 59 15	867.5	30.77	3.88
117.71	13 57 12	5556.75	27.16	258.67	11.69	118.84	15 29 48	4956.8	30.78	250.94
62.29	7 34 47	1467.53	27.14	11.61	11.68	118.85	7 59 15	867.5	30.77	3.88
117.71	13 57 12	5556.75	27.16	258.67	11.69	118.84	15 29 48	4956.8	30.78	250.94

DIFFERENTIAL CORRECTIONS
TDE .7991 TRA -.4487 TC3 .3489 BAU .3059
RDE 1.4001 RRA -.2369 RC3 1.2190 FAU .09617
FDE-6.2035 FRA .,9996 FC3-4.6139 BSP 8230
BDE 1.6121 BRA .5074 BC3 1.2679 FSP -2576

MID-COURSE EXECUTION ACCURACY
SGT 1361.1 SGR 2192.5 SG3 812.2
RRT .8917 RRF -.9980 RTF -.9006
SGB 2580.6 R23 -.1000 R13 -.9933
SG1 2524.5 SG2 535.2 THA 59.52

ORBIT DETERMINATION ACCURACY
ST 1102.8 SR 1892.8 SS 2952.4
CRT .9891 CRS 1.0000 CST .9886
LSA 3672.9 MSA 157.6 SSA 4.0
EL1 2186.0 EL2 140.8 ALF 59.91

LAUNCH DATE MAY 23 1967 FLIGHT TIME 146.00 ARRIVAL DATE OCT 16 1967

HELIOCENTRIC CONIC DISTANCE 390.762
RL 151.46 LAL -.00 LOL 241.20 VL 26.978 GAL 1.75 AZL 98.14 HCA 169.63 SMA 129.52 ECC .17208 INC 8.1378 V1 29.417
RP 108.08 LAP -1.46 LOP 50.93 VP 37.830 GAP -2.74 AZP 81.99 TAL 171.50 TAP 341.13 RCA 107.23 APO 151.80 V2 35.062
RC 75.721 GL -54.06 GP 47.09 ZAL 83.93 ZAP 69.26 ETS 335.42 ZAE 126.01 ETE 72.00 ZAC 81.75 ETC 11.50 CLP -58.66
PLANETOCENTRIC CONIC
C3 22.225 VHL 4.714 DLA -41.99 RAL 138.52 RAD 6567.9 VEL 11.984 PTH 2.14 VHP 4.445 DPA 47.73 RAP 200.17 ECC 1.3658

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.59	7 2 24	1576.64	27.34	21.04	13.44	123.20	7 28 40	976.6	31.50	13.61
122.41	14 7 12	5546.85	27.36	257.97	13.45	123.19	15 39 39	4946.9	31.52	250.53
57.59	7 2 24	1576.64	27.34	21.04	13.44	123.20	7 28 40	976.6	31.50	13.61
122.41	14 7 12	5546.85	27.36	257.97	13.45	123.19	15 39 39	4946.9	31.52	250.53
57.59	7 2 24	1576.64	27.34	21.04	13.44	123.20	7 28 40	976.6	31.50	13.61
122.41	14 7 12	5546.85	27.36	257.97	13.45	123.19	15 39 39	4946.9	31.52	250.53

DIFFERENTIAL CORRECTIONS
TDE .8111 TRA -.4157 TC3 .2048 BAU .3558
RDE 2.0660 RRA -.2119 RC3 1.1799 FAU .07935
FDE-6.1874 FRA .6323 FC3-3.0908 BSP 9891
BDE 2.2195 BRA .4666 BC3 1.1976 FSP -2281

MID-COURSE EXECUTION ACCURACY
SGT 1212.9 SGR 2768.1 SG3 702.5
RRT .8714 RRF -.9989 RTF -.8800
SGB 3022.1 R23 -.0544 R13 -.9976
SG1 2970.8 SG2 554.5 THA 68.31

ORBIT DETERMINATION ACCURACY
ST 1006.7 SR 2513.2 SS 2890.6
CRT .9868 CRS 1.0000 CST .9868
LSA 3957.3 MSA 158.0 SSA 3.2
EL1 2703.1 EL2 151.7 ALF 68.36

LAUNCH DATE MAY 23 1967 FLIGHT TIME 148.00 ARRIVAL DATE OCT 18 1967

HELIOCENTRIC CONIC DISTANCE 397.205
RL 151.46 LAL -.00 LOL 241.20 VL 26.994 GAL 1.75 AZL 100.35 HCA 172.82 SMA 129.63 ECC .17106 INC10.3531 V1 29.417
RP 108.04 LAP -1.29 LOP 54.14 VP 37.854 GAP -2.27 AZP 79.73 TAL 171.49 TAP 344.31 RCA 107.45 APO 151.80 V2 35.075
RC 77.874 GL -58.99 GP 59.50 ZAL 84.99 ZAP 76.52 ETS 335.32 ZAE 114.66 ETE 76.34 ZAC 79.75 ETC 10.01 CLP -62.65
PLANETOCENTRIC CONIC
C3 32.012 VHL 5.658 DLA -46.01 RAL 134.53 RAD 6568.3 VEL 12.385 PTH 2.24 VHP 5.451 DPA 57.33 RAP 213.26 ECC 1.5268

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
52.09	6 24 52	1724.36	25.79	33.10	16.71	129.52	6 53 36	1124.4	30.70	26.35
127.91	14 12 56	5579.92	25.80	259.67	16.72	129.52	15 45 56	4979.9	30.71	252.91
52.09	6 24 52	1724.36	25.79	33.10	16.71	129.52	6 53 36	1124.4	30.70	26.35
127.91	14 12 56	5579.92	25.80	259.67	16.72	129.52	15 45 56	4979.9	30.71	252.91
52.09	6 24 52	1724.36	25.79	33.10	16.71	129.52	6 53 36	1124.4	30.70	26.35
127.91	14 12 56	5579.92	25.80	259.67	16.72	129.52	15 45 56	4979.9	30.71	252.91

DIFFERENTIAL CORRECTIONS
TDE .8953 TRA -.4510 TC3 .0372 BAU .3545
RDE 3.1399 RRA -.1672 RC3 .8276 FAU .04482
FDE-5.3507 FRA .3221 FC3-1.2122 BSP 10263
BDE 3.2651 BRA .4810 BC3 .8284 FSP -1410

MID-COURSE EXECUTION ACCURACY
SGT 1120.8 SGR 3323.7 SG3 484.6
RRT .8275 RRF -.9992 RTF -.8397
SGB 3507.6 R23 -.0276 R13 -.9991
SG1 3454.9 SG2 605.4 THA 73.90

ORBIT DETERMINATION ACCURACY
ST 927.9 SR 3180.7 SS 2552.7
CRT .9817 CRS 1.0000 CST .9823
LSA 4179.0 MSA 171.3 SSA 2.3
EL1 3308.9 EL2 169.7 ALF 73.97

LAUNCH DATE MAY 23 1967 FLIGHT TIME 150.00 ARRIVAL DATE OCT 20 1967

HELIOCENTRIC CONIC DISTANCE 403.590

RL 151.46 LAL -.00 LOL 241.20 VL 27.007 GAL 1.75 AZL 106.08 HCA 176.00 SMA 129.72 ECC .17031 INC16.0759 V1 29.417
RP 108.00 LAP -1.11 LOP 57.35 VP 37.875 GAP -1.83 AZP 73.96 TAL 171.40 TAP 347.40 RCA 107.62 APO 151.81 V2 35.088
RC 80.046 GL -64.83 GP 76.17 ZAL 86.54 ZAP 83.51 ETS 329.52 ZAE 98.52 ETE 72.55 ZAC 76.16 ETC .38 CLP -61.79

PLANETOCENTRIC CONIC

C3 68.214 VHL 8.259 DLA -50.42 RAL 128.65 RAD 6569.3 VEL 13.768 PTH 2.52 VHP 8.657 DPA 64.70 RAP 244.79 ECC 2.1226

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
46.37	5 41 54	1960.44	18.56	48.69	22.52	137.77	6 14 34	1360.4	24.39	43.22
133.63	14 8 59	5720.15	18.58	265.88	22.53	137.76	15 44 19	5120.2	24.40	260.40
46.37	5 41 54	1960.44	18.56	48.69	22.52	137.77	6 14 34	1360.4	24.39	43.22
133.63	14 8 59	5720.15	18.58	265.88	22.53	137.76	15 44 19	5120.2	24.40	260.40
46.37	5 41 54	1960.44	18.56	48.69	22.52	137.77	6 14 34	1360.4	24.39	43.22
133.63	14 8 59	5720.15	18.58	265.88	22.53	137.76	15 44 19	5120.2	24.40	260.40

DIFFERENTIAL CORRECTIONS
TDE 2.2835 TRA -.5050 TC3 .0256 BAU .2520
RDE 5.3084 RRA .2413 RC3 .2751 FAU .01182
FDE-3.8969 FRA -.0606 FC3 -.1501 BSP 12446
BDE 5.7787 BRA .5597 BC3 .2763 FSP -699

MID-COURSE EXECUTION ACCURACY
SGT 1677.4 SGR 3719.8 SG3 234.6
RRT .9149 RRF -.9984 RTF -.9345
SGB 4080.5 R23 -.0134 R13 -.9997
SG1 4032.4 SG2 624.7 THA 67.00

ORBIT DETERMINATION ACCURACY
ST 1592.7 SR 3683.4 SS 2022.2
CRT .9922 CRS .9999 CST .9938
LSA 4490.0 MSA 183.0 SSA 1.2
EL1 4008.8 EL2 182.7 ALF 66.73

LAUNCH DATE MAY 23 1967 FLIGHT TIME 152.00 ARRIVAL DATE OCT 22 1967

HELIOCENTRIC CONIC DISTANCE 409.625

RL 151.46 LAL -.00 LOL 241.20 VL 27.017 GAL 1.84 AZL 145.55 HCA 178.88 SMA 129.78 ECC .16999 INC55.5470 V1 29.417
RP 107.96 LAP -.93 LOP 60.56 VP 37.893 GAP -1.47 AZP 34.46 TAL 170.97 TAP 349.85 RCA 107.72 APO 151.84 V2 35.101
RC 82.236 GL -57.57 GP 68.26 ZAL 88.83 ZAP 88.67 ETS 180.66 ZAE 64.55 ETE 284.84 ZAC 66.47 ETC 198.95 CLP 86.41

PLANETOCENTRIC CONIC

C3 696.018 VHL 26.382 DLA -42.74 RAL 130.76 RAD 6572.7 VEL 28.589 PTH 3.43 VHP 32.257 DPA 48.27 RAP 303.08 ECC12.4547

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.54	6 27 2	2212.40	.61	53.89	40.08	132.74	7 3 54	1612.4	6.02	48.41
123.46	13 40 40	870.58	.62	310.81	40.10	132.74	13 55 11	270.6	6.04	305.33
56.54	6 27 2	2212.40	.61	53.89	40.08	132.74	7 3 54	1612.4	6.02	48.41
123.46	13 40 40	870.58	.62	310.81	40.10	132.74	13 55 11	270.6	6.04	305.33
56.54	6 27 2	2212.40	.61	53.89	40.08	132.74	7 3 54	1612.4	6.02	48.41
123.46	13 40 40	870.58	.62	310.81	40.10	132.74	13 55 11	270.6	6.04	305.33

DIFFERENTIAL CORRECTIONS
TDE 6.6497 TRA 1.8976 TC3 -.1067 BAU 2.6840
RD-15.7832 RRA .5378 RC3 .2680 FAU-.04618
FDE-3.5950 FRA .0947 FC3 .0574 BSP 9967
BDE17.1268 BRA 1.9723 BC3 .2884 FSP -179

MID-COURSE EXECUTION ACCURACY
SGT 1648.4 SGR 3711.4 SG3 72.4
RRT -.9246 RRF .9997 RTF -.9284
SGB 4061.0 R23 -.0502 R13 .9985
SG1 4019.4 SG2 579.7 THA 112.83

ORBIT DETERMINATION ACCURACY
ST 1454.0 SR 3428.3 SS 2176.2
CRT -.9916 CRS-1.0000 CST .9920
LSA 4309.6 MSA 176.4 SSA 1.4
EL1 3719.9 EL2 173.7 ALF 112.86

LAUNCH DATE MAY 23 1967 FLIGHT TIME 154.00 ARRIVAL DATE OCT 24 1967

HELIOCENTRIC CONIC DISTANCE 416.694

RL 151.46 LAL -.00 LOL 241.20 VL 27.023 GAL 1.74 AZL 73.95 HCA 182.68 SMA 129.82 ECC .16931 INC16.0471 V1 29.417
RP 107.92 LAP -.74 LOP 63.78 VP 37.909 GAP -.85 AZP 106.03 TAL 171.42 TAP 354.10 RCA 107.84 APO 151.80 V2 35.113
RC 84.440 GL 64.93 GP -86.63 ZAL 86.58 ZAP 88.43 ETS 20.16 ZAE 97.56 ETE 279.63 ZAC 103.84 ETC 359.39 CLP -62.15

PLANETOCENTRIC CONIC

C3 67.948 VHL 8.243 DLA 62.95 RAL 209.36 RAD 6569.3 VEL 13.759 PTH 2.51 VHP 12.577 DPA -65.00 RAP 105.94 ECC 2.1183

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
31.10	22 20 10	4688.59	-21.65	232.21	107.68	29.29	23 38 18	4088.6	-28.57	228.18
148.90	8 14 39	2990.14	-21.64	91.24	107.66	29.29	9 4 29	2390.1	-28.56	87.21
31.10	22 20 10	4688.59	-21.65	232.21	107.68	29.29	23 38 18	4088.6	-28.57	228.18
148.90	8 14 39	2990.14	-21.64	91.24	107.66	29.29	9 4 29	2390.1	-28.56	87.21
31.10	22 20 10	4688.59	-21.65	232.21	107.68	29.29	23 38 18	4088.6	-28.57	228.18
148.90	8 14 39	2990.14	-21.64	91.24	107.66	29.29	9 4 29	2390.1	-28.56	87.21

DIFFERENTIAL CORRECTIONS
TDE .8277 TRA .1136 TC3 -.0200 BAU .2648
RDE .3967 RRA 2.9026 RC3 -.2908 FAU .00896
FDE .0535 FRA 1.0554 FC3 -.1142 BSP 13439
BDE .9179 BRA 2.9048 BC3 .2915 FSP -434

MID-COURSE EXECUTION ACCURACY
SGT 601.9 SGR 4471.5 SG3 140.4
RRT .3512 RRF .9992 RTF .3148
SGB 4511.8 R23 .0446 R13 .9990
SG1 4476.6 SG2 562.9 THA 87.25

ORBIT DETERMINATION ACCURACY
ST 577.7 SR 1359.5 SS 527.5
CRT .2903 CRS -.9919 CST -.1662
LSA 1466.9 MSA 555.3 SSA .5
EL1 1371.8 EL2 547.9 ALF 81.62

LAUNCH DATE MAY 23 1967 FLIGHT TIME 156.00 ARRIVAL DATE OCT 26 1967

HELIOCENTRIC CONIC DISTANCE 422.980

RL 151.46 LAL -.00 LOL 241.20 VL 27.026 GAL 1.79 AZL 84.53 HCA 185.82 SMA 129.85 ECC .16928 INC 5.4725 V1 29.417
RP 107.89 LAP -.55 LOP 66.99 VP 37.923 GAP -.44 AZP 95.44 TAL 171.14 TAP 356.96 RCA 107.87 APO 151.83 V2 35.125
RC 86.655 GL 44.98 GP -67.91 ZAL 81.83 ZAP 89.29 ETS 2.78 ZAE 115.98 ETE 262.94 ZAC 109.36 ETC 351.07 CLP -88.12

PLANETOCENTRIC CONIC

C3 13.285 VHL 3.645 DLA 47.04 RAL 187.52 RAD 6567.5 VEL 11.605 PTH 2.03 VHP 6.257 DPA -50.29 RAP 129.16 ECC 1.2186

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
50.73	21 49 29	4171.50	-34.91	191.37	56.99	56.21	22 59 1	3571.5	-39.07	183.22
129.27	5 51 3	2714.78	-34.90	77.71	56.98	56.20	6 36 18	2114.8	-39.06	69.56
50.73	21 49 29	4171.50	-34.91	191.37	56.99	56.21	22 59 1	3571.5	-39.07	183.22
129.27	5 51 3	2714.78	-34.90	77.71	56.98	56.20	6 36 18	2114.8	-39.06	69.56
50.73	21 49 29	4171.50	-34.91	191.37	56.99	56.21	22 59 1	3571.5	-39.07	183.22
129.27	5 51 3	2714.78	-34.90	77.71	56.98	56.20	6 36 18	2114.8	-39.06	69.56

DIFFERENTIAL CORRECTIONS
TDE .4474 TRA .3305 TC3 -.9636 BAU .5232
RDE .4912 RRA 1.5096 RC3-2.7836 FAU .04822
FDE .4964 FRA 1.6403 FC3-3.1425 BSP 13141
BDE .6644 BRA 1.5453 BC3 2.9456 FSP -1228

MID-COURSE EXECUTION ACCURACY
SGT 1252.7 SGR 4103.4 SG3 388.0
RRT .8994 RRF .9998 RTF .8962
SGB 4290.4 R23 .0412 R13 .9989
SG1 4257.8 SG2 527.9 THA 74.40

ORBIT DETERMINATION ACCURACY
ST 739.9 SR 1300.4 SS 745.5
CRT .8141 CRS -.9994 CST -.7937
LSA 1622.5 MSA 402.3 SSA 1.6
EL1 1445.3 EL2 386.6 ALF 63.07

LAUNCH DATE MAY 23 1967 FLIGHT TIME 158.00 ARRIVAL DATE OCT 28 1967

HELIOCENTRIC CONIC DISTANCE 429.315

RL	151.46	LAL	-.00	LOL	241.20	VL	27.027	GAL	1.85	AZL	87.67	HCA	189.02	SMA	129.85	ECC	.16942	INC	2.3290	V1	29.417
RP	107.85	LAP	-.37	LOP	70.21	VP	37.934	GAP	-.02	AZP	92.30	TAL	170.87	TAP	359.89	RCA	107.85	APO	151.85	V2	35.137
RC	88.880	GL	23.84	GP	-55.08	ZAL	78.45	ZAP	92.47	ETS	357.45	ZAE	127.84	ETE	255.74	ZAC	112.76	ETC	353.22	CLP	-94.32

PLANETOCENTRIC CONIC

C3	7.383	VHL	2.717	DLA	28.17	RAL	175.27	RAD	6567.2	VEL	11.348	PTH	1.96	VHP	4.576	DPA	-38.52	RAP	136.63	ECC	1.1215

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 28 53	3243.75	-25.47	113.79	29.55	77.18	2 22 57	2643.8	-26.98	105.45
90.00	0 37 52	3409.30	-22.49	125.01	28.67	72.33	1 34 41	2809.3	-24.70	117.03
100.00	3 49 48	2789.42	-29.19	81.09	30.28	83.23	4 36 18	2189.4	-29.82	72.34
100.00	0 59 38	3338.87	-18.96	118.42	27.24	66.45	1 55 17	2738.9	-21.98	110.93
110.00	6 4 24	2368.15	-34.15	49.38	30.54	91.51	6 43 52	1768.2	-33.57	40.18
110.00	1 1 32	3332.90	-14.54	115.58	24.85	58.72	1 57 5	2732.9	-18.58	108.79

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY			ORBIT DETERMINATION ACCURACY		
TDE	.2091	TRA	.3296	TC3	-2.4384	BAU	.5189	SGT 1603.7 SGR 3618.5 SG3 675.3	ST	501.9	SR 807.8 SS 664.5
RDE	.1053	RRA	1.0772	RC3	-4.6574	FAU	.08728	RRT .9449 RRF .9996 RTF .9436	CRT	.6999	CRS -.9953 CST -.6278
FDE	.1441	FRA	2.2920	FC	-10.2355	BSP	12212	SGB 3957.9 R23 .0553 R13 .9981	LSA	1104.5	MSA 355.2 SSA 3.7
BDE	.2341	BRA	1.1265	BC3	5.2571	FSP	-2155	SG1 3928.3 SG2 483.7 THA 66.91	EL1	894.2	EL2 323.8 ALF 62.61

LAUNCH DATE MAY 23 1967 FLIGHT TIME 160.00 ARRIVAL DATE OCT 30 1967

HELIOCENTRIC CONIC DISTANCE 435.643

RL	151.46	LAL	-.00	LOL	241.20	VL	27.025	GAL	1.92	AZL	89.17	HCA	192.24	SMA	129.84	ECC	.16975	INC	.8248	V1	29.417
RP	107.82	LAP	-.17	LOP	73.43	VP	37.944	GAP	.41	AZP	90.81	TAL	170.56	TAP	2.80	RCA	107.80	APO	151.88	V2	35.149
RC	91.113	GL	8.93	GP	-45.44	ZAL	76.73	ZAP	96.92	ETS	353.93	ZAE	135.82	ETE	247.50	ZAC	115.36	ETC	355.63	CLP	-99.89

PLANETOCENTRIC CONIC

C3	6.283	VHL	2.507	DLA	14.27	RAL	169.39	RAD	6567.2	VEL	11.299	PTH	1.94	VHP	3.896	DPA	-29.16	RAP	139.89	ECC	1.1034

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 46 33	2436.38	-24.26	56.04	17.97	105.07	5 27 9	1836.4	-21.96	48.12
90.00	20 29 21	4160.42	-1.24	169.77	15.26	61.71	21 38 41	3560.4	-5.01	163.13
100.00	6 15 30	2149.52	-25.10	34.67	17.71	106.78	6 51 19	1549.5	-22.57	26.80
100.00	21 43 5	3922.50	-.47	151.86	14.83	60.11	22 48 27	3322.5	-4.45	145.32
110.00	7 40 46	1882.71	-27.30	13.56	16.86	111.41	8 12 9	1282.7	-24.15	5.82
110.00	22 34 18	3762.08	1.50	138.45	13.60	55.85	23 37 0	3162.1	-2.99	132.25

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY			ORBIT DETERMINATION ACCURACY		
TDE	.0087	TRA	.3644	TC3	-3.5725	BAU	.4994	SGT 1986.6 SGR 3118.1 SG3 909.6	ST	264.1	SR 682.2 SS 823.6
RDE	-.1423	RRA	.8414	RC3	-4.7534	FAU	.11749	RRT .9633 RRF .9994 RTF .9628	CRT	.8371	CRS -.9915 CST -.7598
FDE	-.6286	FRA	2.7771	FC	-16.1900	BSP	11379	SGB 3697.1 R23 .0767 R13 .9964	LSA	1088.1	MSA 171.8 SSA 10.2
BDE	.1426	BRA	.9169	BC3	5.9462	FSP	-2915	SG1 3669.2 SG2 453.3 THA 57.91	EL1	718.6	EL2 137.2 ALF 71.34

LAUNCH DATE MAY 23 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 1 1967

HELIOCENTRIC CONIC DISTANCE 441.959

RL	151.46	LAL	-.00	LOL	241.20	VL	27.021	GAL	1.99	AZL	90.06	HCA	195.46	SMA	129.81	ECC	.17027	INC	.0560	V1	29.417
RP	107.78	LAP	.02	LOP	76.66	VP	37.951	GAP	.82	AZP	89.94	TAL	170.21	TAP	5.67	RCA	107.71	APO	151.91	V2	35.160
RC	93.352	GL	-.66	GP	-38.04	ZAL	75.77	ZAP	101.90	ETS	351.57	ZAE	140.76	ETE	238.24	ZAC	117.45	ETC	357.92	CLP	-105.18

PLANETOCENTRIC CONIC

C3	6.189	VHL	2.488	DLA	5.13	RAL	166.33	RAD	6567.2	VEL	11.295	PTH	1.94	VHP	3.583	DPA	-21.72	RAP	141.41	ECC	1.1018

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 48 28	2133.59	-17.52	36.42	12.61	112.60	6 24 1	1533.6	-14.31	29.22
90.00	19 3 5	4458.13	8.27	186.48	11.59	62.82	20 17 23	3858.1	4.56	179.77
100.00	7 12 14	1863.42	-18.23	16.23	12.29	114.11	7 43 17	1263.4	-14.82	9.10
100.00	20 22 0	4203.53	8.95	167.40	11.22	61.36	21 32 4	3603.5	5.06	160.77
110.00	8 26 1	1632.48	-20.09	357.73	11.32	118.25	8 53 13	1032.5	-16.16	350.81
110.00	21 24 42	4007.23	10.74	151.43	10.15	57.35	22 31 30	3407.2	6.36	145.07

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY			ORBIT DETERMINATION ACCURACY		
TDE	-.1709	TRA	.4170	TC3	-4.2909	BAU	.4923	SGT 2375.4 SGR 2658.2 SG3 1065.5	ST	492.7	SR 763.7 SS 1218.7
RDE	-.2583	RRA	.6847	RC3	-4.1216	FAU	.13678	RRT .9722 RRF .9989 RTF .9722	CRT	.9980	CRS -.9951 CST -.9966
FDE	-1.4309	FRA	3.0757	FC	-19.1346	BSP	10925	SGB 3564.9 R23 .0997 R13 .9939	LSA	1518.6	MSA 66.7 SSA 23.7
BDE	.3097	BRA	.8017	BC3	5.9498	FSP	-3430	SG1 3540.4 SG2 417.5 THA 48.31	EL1	908.4	EL2 26.4 ALF 57.20

LAUNCH DATE MAY 23 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 3 1967

HELIOCENTRIC CONIC DISTANCE 448.259

RL	151.46	LAL	-.00	LOL	241.20	VL	27.014	GAL	2.08	AZL	90.65	HCA	198.69	SMA	129.76	ECC	.17098	INC	.6463	V1	29.417
RP	107.75	LAP	.21	LOP	79.88	VP	37.956	GAP	1.24	AZP	89.39	TAL	169.81	TAP	8.49	RCA	107.58	APO	151.95	V2	35.170
RC	95.596	GL	-6.93	GP	-32.25	ZAL	74.99	ZAP	106.97	ETS	350.01	ZAE	143.33	ETE	228.78	ZAC	119.12	ETC	.03	CLP	-110.19

PLANETOCENTRIC CONIC

C3	6.381	VHL	2.526	DLA	-.99	RAL	164.72	RAD	6567.2	VEL	11.304	PTH	1.94	VHP	3.443	DPA	-15.79	RAP	142.12	ECC	1.1050

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 27 41	1948.27	-12.34	25.28	10.53	115.69	7 0 9	1348.3	-8.79	18.41
90.00	18 11 1	4653.81	14.13	197.87	10.73	65.20	19 28 34	4053.8	10.67	190.90
100.00	7 48 34	1687.37	-13.03	5.75	10.18	117.14	8 16 41	1087.4	-9.28	358.96
100.00	19 32 49	4389.94	14.82	178.12	10.40	63.74	20 45 59	3789.9	11.17	171.23
110.00	8 55 45	1477.06	-14.84	348.74	9.14	121.15	9 20 22	877.1	-10.60	342.20
110.00	20 42 7	4173.02	16.64	160.64	9.38	59.70	21 51 40	3573.0	12.50	153.98

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY			ORBIT DETERMINATION ACCURACY		
TDE	-.3384	TRA	.4806	TC3	-4.7621	BAU	.4989	SGT 2750.6 SGR 2258.1 SG3 1149.8	ST	837.4	SR 781.8 SS 1559.1
RDE	-.2975	RRA	.5751	RC3	-3.3947	FAU	.14623	RRT .9767 RRF .9980 RTF .9774	CRT	.9923	CRS -.9959 CST -.9990
FDE	-2.0916	FRA	3.2439	FC	-19.8384	BSP	10841	SGB 3558.8 R23 .1169 R13 .9912	LSA	1933.3	MSA 73.7 SSA 20.6
BDE	.4506	BRA	.7495	BC3	5.8481	FSP	-3702	SG1 3538.8 SG2 376.6 THA 39.25	EL1	1143.5	EL2 70.9 ALF 43.02

LAUNCH DATE MAY 23 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 5 1967

HELIOCENTRIC CONIC DISTANCE 454.540
RL 151.46 LAL -.00 LOL 241.20 VL 27.006 GAL 2.19 AZL 91.07 HCA 201.91 SMA 129.71 ECC .17187 INC 1.0662 V1 29.417
RP 107.72 LAP .40 LOP 83.11 VP 37.960 GAP 1.65 AZP 89.01 TAL 169.36 TAP 11.27 RCA 107.41 APO 152.00 V2 35.180
RC 97.843 GL -11.21 GP -27.64 ZAL 74.22 ZAP 111.90 ETS 349.01 ZAE 144.17 ETE 220.02 ZAC 120.41 ETC 1.98 CLP-114.90

PLANETOCENTRIC CONIC
C3 6.670 VHL 2.583 DLA -5.31 RAL 163.95 RAD 6567.2 VEL 11.316 PTH 1.95 VHP 3.399 DPA -11.02 RAP 142.46 ECC 1.1098

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 56 53	1821.34	-8.50	17.94	9.98	117.11	7 27 14	1221.3	-4.79	11.22
90.00	17 35 39	4795.93	18.00	206.51	11.10	67.77	18 55 35	4195.9	14.83	199.26
100.00	8 15 43	1567.02	-9.19	358.87	9.61	118.57	8 41 50	967.0	-5.31	352.24
100.00	18 59 30	4525.49	18.73	186.29	10.78	66.26	20 14 56	3925.5	15.36	179.12
110.00	9 18 13	1371.34	-11.03	342.91	8.50	122.56	9 41 4	771.3	-6.66	336.55
110.00	20 13 29	4293.94	20.65	167.72	9.79	62.13	21 25 3	3693.9	16.76	160.76

DIFFERENTIAL CORRECTIONS
TDE -.4998 TRA .5480 TC3-5.1035 BAU .5181
RDE -.2994 RRA .4917 RC3-2.7764 FAU .14912
FDE-2.5931 FRA 3.2989 FC-19.3541 BSP 11155
BDE .5826 BRA .7363 BC3 5.8098 FSP -3822

MID-COURSE EXECUTION ACCURACY
SGT 3109.6 SGR 1923.1 SG3 1181.7
RRT .9791 RRF .9965 RTF .9807
SGB 3656.2 R23 .1235 R13 .9892
SG1 3640.9 SG2 334.4 THA 31.49

ORBIT DETERMINATION ACCURACY
ST 1170.5 SR 742.3 SS 1811.4
CRT .9901 CRS -.9956 CST -.9987
LSA 2279.0 MSA 88.4 SSA 17.4
EL1 1383.2 EL2 88.0 ALF 32.27

LAUNCH DATE MAY 23 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 7 1967

HELIOCENTRIC CONIC DISTANCE 460.803
RL 151.46 LAL -.00 LOL 241.20 VL 26.995 GAL 2.30 AZL 91.38 HCA 205.15 SMA 129.63 ECC .17294 INC 1.3823 V1 29.417
RP 107.69 LAP .59 LOP 86.34 VP 37.961 GAP 2.05 AZP 88.75 TAL 168.87 TAP 14.01 RCA 107.22 APO 152.05 V2 35.190
RC 100.092 GL -14.24 GP -23.93 ZAL 73.38 ZAP 116.58 ETS 348.38 ZAE 143.86 ETE 212.54 ZAC 121.36 ETC 3.75 CLP-119.31

PLANETOCENTRIC CONIC
C3 6.997 VHL 2.645 DLA -8.51 RAL 163.72 RAD 6567.2 VEL 11.331 PTH 1.95 VHP 3.415 DPA -7.16 RAP 142.66 ECC 1.1152

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 20 37	1728.09	-5.57	12.66	10.26	117.81	7 49 25	1128.1	-1.80	6.00
90.00	17 10 5	4905.91	20.69	213.45	12.10	70.22	18 31 51	4305.9	17.81	205.96
100.00	8 37 50	1478.98	-6.29	353.94	9.86	119.28	9 2 29	879.0	-2.34	347.38
100.00	18 35 33	4630.24	21.46	192.87	11.79	68.68	19 52 43	4030.2	18.37	185.43
110.00	9 36 40	1294.76	-8.20	338.80	8.69	123.30	9 58 15	694.8	-3.76	332.52
110.00	19 53 12	4387.23	23.51	173.46	10.83	64.44	21 6 20	3787.2	19.87	166.20

DIFFERENTIAL CORRECTIONS
TDE -.6539 TRA .6211 TC3-5.3479 BAU .5436
RDE -.2804 RRA .4291 RC3-2.2736 FAU .14691
FDE-2.9302 FRA 3.2940 FC-18.1756 BSP 11664
BDE .7114 BRA .7549 BC3 5.8112 FSP -3809

MID-COURSE EXECUTION ACCURACY
SGT 3444.0 SGR 1642.8 SG3 1174.5
RRT .9795 RRF .9941 RTF .9827
SGB 3815.8 R23 .1200 R13 .9879
SG1 3804.0 SG2 299.8 THA 25.21

ORBIT DETERMINATION ACCURACY
ST 1476.3 SR 670.5 SS 1980.1
CRT .9882 CRS -.9943 CST -.9987
LSA 2557.4 MSA 97.9 SSA 16.2
EL1 1618.7 EL2 93.7 ALF 24.26

LAUNCH DATE MAY 23 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 9 1967

HELIOCENTRIC CONIC DISTANCE 467.047
RL 151.46 LAL -.00 LOL 241.20 VL 26.983 GAL 2.43 AZL 91.63 HCA 208.38 SMA 129.55 ECC .17419 INC 1.6307 V1 29.417
RP 107.66 LAP .78 LOP 89.57 VP 37.961 GAP 2.46 AZP 88.57 TAL 168.33 TAP 16.71 RCA 106.99 APO 152.12 V2 35.199
RC 102.344 GL -16.44 GP -20.89 ZAL 72.45 ZAP 120.96 ETS 347.99 ZAE 142.85 ETE 206.49 ZAC 121.98 ETC 5.34 CLP-123.41

PLANETOCENTRIC CONIC
C3 7.345 VHL 2.710 DLA -10.97 RAL 163.88 RAD 6567.2 VEL 11.346 PTH 1.96 VHP 3.471 DPA -4.03 RAP 142.86 ECC 1.1209

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 41 5	1656.11	-3.27	8.62	11.04	118.14	8 8 41	1056.1	.52	1.99
90.00	16 50 52	4995.10	22.63	219.27	13.47	72.51	18 14 7	4395.1	20.02	211.57
100.00	8 56 55	1411.42	-4.03	350.20	10.62	119.64	9 20 27	811.4	-.05	343.68
100.00	18 17 42	4715.03	23.46	198.38	13.18	70.92	19 36 17	4115.0	20.64	190.71
110.00	9 52 42	1236.73	-6.02	335.72	9.39	123.71	10 13 19	636.7	-1.55	329.49
110.00	19 38 24	4462.48	25.63	178.27	12.24	66.57	20 52 47	3862.5	22.24	170.76

DIFFERENTIAL CORRECTIONS
TDE -.8019 TRA .6984 TC3-5.5222 BAU .5727
RDE -.2519 RRA .3808 RC3-1.8761 FAU .14151
FDE-3.1369 FRA 3.2484 FC-16.6799 BSP 12311
BDE .8405 BRA .7955 BC3 5.8322 FSP -3716

MID-COURSE EXECUTION ACCURACY
SGT 3754.3 SGR 1410.8 SG3 1141.8
RRT .9780 RRF .9903 RTF .9840
SGB 4010.6 R23 .1084 R13 .9871
SG1 4001.1 SG2 276.1 THA 20.28

ORBIT DETERMINATION ACCURACY
ST 1756.6 SR 587.4 SS 2087.6
CRT .9852 CRS -.9920 CST -.9989
LSA 2788.8 MSA 104.1 SSA 16.0
EL1 1849.7 EL2 95.7 ALF 18.29

LAUNCH DATE MAY 23 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 11 1967

HELIOCENTRIC CONIC DISTANCE 473.271
RL 151.46 LAL -.00 LOL 241.20 VL 26.969 GAL 2.58 AZL 91.83 HCA 211.62 SMA 129.46 ECC .17561 INC 1.8322 V1 29.417
RP 107.63 LAP .96 LOP 92.80 VP 37.959 GAP 2.86 AZP 88.44 TAL 167.75 TAP 19.37 RCA 106.72 APO 152.19 V2 35.208
RC 104.596 GL -18.07 GP -18.39 ZAL 71.44 ZAP 125.02 ETS 347.77 ZAE 141.48 ETE 201.73 ZAC 122.30 ETC 6.77 CLP-127.22

PLANETOCENTRIC CONIC
C3 7.708 VHL 2.776 DLA -12.94 RAL 164.32 RAD 6567.3 VEL 11.362 PTH 1.96 VHP 3.557 DPA -1.48 RAP 143.13 ECC 1.1269

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 59 24	1598.54	-1.41	5.40	12.18	118.28	8 26 3	998.5	2.38	358.77
90.00	16 36 3	5070.14	24.08	224.30	15.10	74.63	18 0 34	4470.1	21.73	216.41
100.00	9 14 2	1357.74	-2.22	347.25	11.74	119.82	9 36 40	757.7	1.77	340.73
100.00	18 4 6	4786.18	24.96	203.13	14.82	72.99	19 23 53	4186.2	22.39	195.27
110.00	10 7 11	1191.30	-4.29	333.33	10.44	123.94	10 27 2	591.3	.19	327.12
110.00	19 27 27	4525.38	27.27	182.43	13.92	68.54	20 42 53	3925.4	24.11	174.69

DIFFERENTIAL CORRECTIONS
TDE -.9437 TRA .7800 TC3-5.6373 BAU .6028
RDE -.2194 RRA .3434 RC3-1.5625 FAU .13414
FDE-3.2395 FRA 3.1804 FC-15.0653 BSP 13004
BDE .9688 BRA .8522 BC3 5.8498 FSP -3567

MID-COURSE EXECUTION ACCURACY
SGT 4039.7 SGR 1219.1 SG3 1093.0
RRT .9743 RRF .9843 RTF .9848
SGB 4219.6 R23 .0919 R13 .9867
SG1 4211.4 SG2 263.5 THA 16.45

ORBIT DETERMINATION ACCURACY
ST 2011.7 SR 503.2 SS 2147.5
CRT .9801 CRS -.9878 CST -.9990
LSA 2983.2 MSA 108.6 SSA 16.1
EL1 2071.4 EL2 96.9 ALF 13.81

LAUNCH DATE MAY 23 1967 FLIGHT TIME 174.00 ARRIVAL DATE NOV 13 1967

HELIOCENTRIC CONIC DISTANCE 479.476

```
RL  151.46 LAL   -.00 LOL 241.20 VL  26.954 GAL   2.73 AZL  92.00 HCA 214.86 SMA 129.35 ECC .17721 INC 1.9997 V1  29.417
RP  107.61 LAP   1.14 LOP  96.04 VP  37.956 GAP   3.26 AZP  88.36 TAL 167.13 TAP  21.98 RCA 106.43 APO 152.28 V2  35.216
RC 106.849 GL  -19.29 GP -16.30 ZAL  70.34 ZAP 128.79 ETS 347.66 ZAE 139.96 ETE 198.04 ZAC 122.35 ETC   8.02 CLP-130.74
```

PLANETOCENTRIC CONIC

```
C3   8.090 VHL  2.844 DLA -14.55 RAL 164.99 RAD 6567.3 VEL 11.379 PTH   1.97 VHP  3.664 DPA    .58 RAP 143.51 ECC 1.1331
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 16 17	1551.29	.11	2.77	13.58	118.32	8 42 9	951.3	3.90	356.13
90.00	16 24 30	5135.16	25.18	228.74	16.92	76.59	17 50 5	4535.2	23.08	220.70
100.00	9 29 50	1314.02	-.73	344.85	13.11	119.88	9 51 44	714.0	3.25	338.33
100.00	17 53 39	4847.66	26.12	207.33	16.65	74.91	19 14 26	4247.7	23.79	199.30
110.00	10 20 37	1154.92	-2.91	331.42	11.75	124.07	10 39 52	554.9	1.58	325.22
110.00	19 19 21	4579.52	28.56	186.10	15.79	70.37	20 35 40	3979.5	25.62	178.16

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.0778 TRA  .8688 TC3-5.6902 BAU  .6315   SGT 4296.6 SGR 1060.7 SG3 1034.0   ST  2240.1 SR   422.5 SS  2169.0
RDE -.1853 RRA  .3149 RC3-1.3110 FAU .12535   RRT  .9676 RRF  .9755 RTF  .9852   CRT  .9714 CRS -.9804 CST -.9990
FDE-3.2594 FRA 3.1090 FC-13.4147 BSP  13654   SGB 4425.6 R23  .0743 R13  .9863   LSA 3144.5 MSA  112.7 SSA   16.3
BDE 1.0936 BRA  .9241 BC3 5.8393 FSP  -3371   SG1 4417.9 SG2  260.6 THA  13.48   EL1 2277.4 EL2   98.7 ALF  10.40
```

LAUNCH DATE MAY 23 1967 FLIGHT TIME 176.00 ARRIVAL DATE NOV 15 1967

HELIOCENTRIC CONIC DISTANCE 485.660

```
RL  151.46 LAL   -.00 LOL 241.20 VL  26.938 GAL   2.90 AZL  92.14 HCA 218.09 SMA 129.24 ECC .17899 INC 2.1422 V1  29.417
RP  107.59 LAP   1.32 LOP  99.27 VP  37.951 GAP   3.66 AZP  88.31 TAL 166.47 TAP  24.56 RCA 106.11 APO 152.37 V2  35.223
RC 109.101 GL  -20.19 GP -14.56 ZAL  69.17 ZAP 132.26 ETS 347.60 ZAE 138.40 ETE 195.18 ZAC 122.16 ETC   9.10 CLP-134.01
```

PLANETOCENTRIC CONIC

```
C3   8.492 VHL  2.914 DLA -15.91 RAL 165.84 RAD 6567.3 VEL 11.397 PTH   1.97 VHP  3.790 DPA   2.25 RAP 144.03 ECC 1.1398
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 32 9	1511.83	1.39	.57	15.19	118.29	8 57 21	911.8	5.16	353.91
90.00	16 15 25	5192.80	26.03	232.75	18.89	78.43	17 41 58	4592.8	24.17	224.57
100.00	9 44 40	1277.83	.49	342.87	14.70	119.89	10 5 58	677.8	4.47	336.33
100.00	17 45 35	4902.02	27.02	211.11	18.64	76.71	19 7 17	4302.0	24.92	202.94
110.00	10 33 19	1125.41	-1.78	329.88	13.27	124.14	10 52 5	525.4	2.71	323.68
110.00	19 13 25	4627.21	29.61	189.42	17.82	72.08	20 30 32	4027.2	26.88	181.30

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.2091 TRA  .9604 TC3-5.7084 BAU  .6603   SGT 4535.9 SGR  932.0 SG3  972.6   ST  2451.1 SR   350.4 SS  2171.5
RDE -.1529 RRA  .2920 RC3-1.1146 FAU .11658   RRT  .9575 RRF  .9630 RTF  .9854   CRT  .9570 CRS -.9678 CST -.9991
FDE-3.2366 FRA 3.0244 FC-11.8852 BSP  14349   SGB 4630.7 R23  .0566 R13  .9861   LSA 3291.3 MSA  115.8 SSA   16.6
BDE 1.2187 BRA 1.0038 BC3 5.8162 FSP  -3182   SG1 4623.2 SG2  263.8 THA  11.17   EL1 2474.0 EL2  100.7 ALF   7.80
```

LAUNCH DATE MAY 23 1967 FLIGHT TIME 178.00 ARRIVAL DATE NOV 17 1967

HELIOCENTRIC CONIC DISTANCE 491.823

```
RL  151.46 LAL   -.00 LOL 241.20 VL  26.920 GAL   3.09 AZL  92.27 HCA 221.34 SMA 129.12 ECC .18095 INC 2.2655 V1  29.417
RP  107.57 LAP   1.50 LOP 102.51 VP  37.944 GAP   4.06 AZP  88.30 TAL 165.77 TAP  27.10 RCA 105.76 APO 152.48 V2  35.230
RC 111.351 GL  -20.84 GP -13.08 ZAL  67.93 ZAP 135.46 ETS 347.57 ZAE 136.89 ETE 192.94 ZAC 121.74 ETC  10.03 CLP-137.04
```

PLANETOCENTRIC CONIC

```
C3   8.921 VHL  2.987 DLA -17.06 RAL 166.84 RAD 6567.3 VEL 11.415 PTH   1.98 VHP  3.930 DPA   3.60 RAP 144.68 ECC 1.1468
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 47 15	1478.49	2.46	358.70	16.98	118.22	9 11 53	878.5	6.22	352.04
90.00	16 8 18	5244.88	26.68	236.42	20.99	80.16	17 35 43	4644.9	25.05	228.13
100.00	9 58 48	1247.58	1.52	341.21	16.45	119.86	10 19 36	647.6	5.48	334.66
100.00	17 39 26	4951.02	27.74	214.58	20.77	78.40	19 1 57	4351.0	25.86	206.28
110.00	10 45 30	1101.30	-.86	328.62	14.97	124.17	11 3 51	501.3	3.63	322.42
110.00	19 9 13	4670.06	30.47	192.47	19.99	73.69	20 27 4	4070.1	27.93	184.19

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.3352 TRA 1.0581 TC3-5.6872 BAU  .6878   SGT 4754.9 SGR  827.1 SG3  910.5   ST  2641.3 SR   286.2 SS  2154.4
RDE -.1216 RRA  .2741 RC3 -.9574 FAU .10787   RRT  .9429 RRF  .9459 RTF  .9854   CRT  .9315 CRS -.9448 CST -.9992
FDE-3.1747 FRA 2.9424 FC-10.4683 BSP  15009   SGB 4826.3 R23  .0411 R13  .9859   LSA 3418.3 MSA  119.1 SSA   16.8
BDE 1.3407 BRA 1.0930 BC3 5.7672 FSP  -2988   SG1 4818.7 SG2  271.8 THA   9.34   EL1 2654.7 EL2  103.6 ALF   5.77
```

LAUNCH DATE MAY 23 1967 FLIGHT TIME 180.00 ARRIVAL DATE NOV 19 1967

HELIOCENTRIC CONIC DISTANCE 497.964

```
RL  151.46 LAL   -.00 LOL 241.20 VL  26.901 GAL   3.29 AZL  92.37 HCA 224.58 SMA 128.99 ECC .18310 INC 2.3740 V1  29.417
RP  107.55 LAP   1.67 LOP 105.75 VP  37.936 GAP   4.46 AZP  88.31 TAL 165.03 TAP  29.61 RCA 105.37 APO 152.61 V2  35.236
RC 113.598 GL  -21.30 GP -11.82 ZAL  66.63 ZAP 138.43 ETS 347.55 ZAE 135.46 ETE 191.19 ZAC 121.12 ETC  10.81 CLP-139.85
```

PLANETOCENTRIC CONIC

```
C3   9.381 VHL  3.063 DLA -18.05 RAL 167.96 RAD 6567.3 VEL 11.435 PTH   1.98 VHP  4.082 DPA   4.66 RAP 145.48 ECC 1.1544
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 1 45	1450.19	3.37	357.12	18.91	118.13	9 25 55	850.2	7.11	350.44
90.00	16 2 48	5292.65	27.20	239.82	23.22	81.79	17 31 0	4692.6	25.78	231.44
100.00	10 12 24	1222.22	2.38	339.81	18.36	119.81	10 32 46	622.2	6.33	333.25
100.00	17 34 50	4995.85	28.31	217.79	23.01	79.99	18 58 6	4395.9	26.64	209.38
110.00	10 57 15	1081.67	-.11	327.60	16.81	124.18	11 15 17	481.7	4.38	321.39
110.00	19 6 28	4709.17	31.18	195.29	22.29	75.23	20 24 57	4109.2	28.84	186.87

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.4568 TRA 1.1622 TC3-5.6292 BAU  .7136   SGT 4954.5 SGR  741.6 SG3  849.6   ST  2812.2 SR   231.0 SS  2124.1
RDE -.0919 RRA  .2602 RC3 -.8298 FAU .09940   RRT  .9231 RRF  .9233 RTF  .9853   CRT  .8857 CRS -.9023 CST -.9992
FDE-3.0892 FRA 2.8629 FC3-9.1732 BSP  15636   SGB 5009.7 R23  .0279 R13  .9856   LSA 3529.7 MSA  122.2 SSA   17.1
BDE 1.4597 BRA 1.1910 BC3 5.6901 FSP  -2799   SG1 5001.7 SG2  282.4 THA   7.89   EL1 2819.6 EL2  107.0 ALF   4.17
```

LAUNCH DATE MAY 23 1967 FLIGHT TIME 182.00 ARRIVAL DATE NOV 21 1967

DISTANCE 504.083

HELIOCENTRIC CONIC
RL 151.46 LAL -.00 LOL 241.20 VL 26.880 GAL 3.50 AZL 92.47 HCA 227.82 SMA 128.86 ECC .18544 INC 2.4706 V1 29.417
RP 107.53 LAP 1.83 LOP 108.99 VP 37.927 GAP 4.87 AZP 88.34 TAL 164.26 TAP 32.09 RCA 104.96 APO 152.75 V2 35.241
RC 115.842 GL -21.59 GP -10.75 ZAL 65.28 ZAP 141.17 ETS 347.52 ZAE 134.13 ETE 189.80 ZAC 120.32 ETC 11.46 CLP-142.46

PLANETOCENTRIC CONIC
C3 9.878 VHL 3.143 DLA -18.92 RAL 169.20 RAD 6567.4 VEL 11.457 PTH 1.99 VHP 4.244 DPA 5.49 RAP 146.41 ECC 1.1626

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 15 46	1426.19	4.14	355.78	20.98	118.04	9 39 32	826.2	7.86	349.07
90.00	15 58 39	5336.99	27.59	243.01	25.55	83.34	17 27 36	4737.0	26.38	234.55
100.00	10 25 32	1201.04	3.10	338.65	20.40	119.75	10 45 33	601.0	7.03	332.07
100.00	17 31 33	5037.37	28.77	220.79	25.37	81.51	18 55 31	4437.4	27.30	212.30
110.00	11 8 40	1065.85	.49	326.78	18.78	124.18	11 26 26	465.8	4.98	320.56
110.00	19 4 54	4745.33	31.78	197.94	24.70	76.69	20 23 59	4145.3	29.62	189.39

DIFFERENTIAL CORRECTIONS
TOE-1.5746 TRA 1.2737 TC3-5.5389 BAU .7377
RDE -.0637 RRA .2494 RC3 -.7248 FAU .09130
FDE-2.9883 FRA 2.7898 FC3-8.0017 BSP 16213
BDE 1.5759 BRA 1.2979 BC3 5.5861 FSP -2614

MID-COURSE EXECUTION ACCURACY
SGT 5136.8 SGR 672.3 SG3 791.3
RRT .8974 RRF .8945 RTF .9851
SGB 5180.6 R23 .0171 R13 .9853
SG1 5172.2 SG2 294.7 THA 6.72

ORBIT DETERMINATION ACCURACY
ST 2965.3 SR 185.6 SS 2084.1
CRT .8009 CRS -.8219 CST -.9993
LSA 3627.0 MSA 125.6 SSA 17.2
EL1 2969.0 EL2 111.0 ALF 2.87

LAUNCH DATE MAY 23 1967 FLIGHT TIME 184.00 ARRIVAL DATE NOV 23 1967

DISTANCE 510.179

HELIOCENTRIC CONIC
RL 151.46 LAL -.00 LOL 241.20 VL 26.859 GAL 3.73 AZL 92.56 HCA 231.07 SMA 128.71 ECC .18797 INC 2.5579 V1 29.417
RP 107.52 LAP 1.99 LOP 112.24 VP 37.917 GAP 5.27 AZP 88.39 TAL 163.46 TAP 34.53 RCA 104.52 APO 152.91 V2 35.246
RC 118.080 GL -21.75 GP -9.82 ZAL 63.88 ZAP 143.72 ETS 347.47 ZAE 132.91 ETE 188.69 ZAC 119.37 ETC 11.99 CLP-144.90

PLANETOCENTRIC CONIC
C3 10.419 VHL 3.228 DLA -19.68 RAL 170.53 RAD 6567.4 VEL 11.481 PTH 2.00 VHP 4.416 DPA 6.11 RAP 147.46 ECC 1.1715

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 29 20	1406.00	4.79	354.64	23.17	117.94	9 52 46	806.0	8.49	347.92
90.00	15 55 39	5378.53	27.88	246.01	27.97	84.82	17 25 18	4778.5	26.87	237.49
100.00	10 38 16	1183.56	3.69	337.69	22.56	119.69	10 57 59	583.6	7.61	331.10
100.00	17 29 25	5076.20	29.13	223.62	27.82	82.96	18 54 1	4476.2	27.85	215.05
110.00	11 19 48	1053.41	.97	326.13	20.87	124.17	11 37 21	453.4	5.45	319.90
110.00	19 4 22	4779.11	32.28	200.44	27.21	78.09	20 24 1	4179.1	30.30.	191.79

DIFFERENTIAL CORRECTIONS
TOE-1.6869 TRA 1.3949 TC3-5.4104 BAU .7588
RDE -.0365 RRA .2413 RC3 -.6362 FAU .08342
FDE-2.8740 FRA 2.7267 FC3-6.9311 BSP 16703
BDE 1.6873 BRA 1.4156 BC3 5.4477 FSP -2430

MID-COURSE EXECUTION ACCURACY
SGT 5299.1 SGR 616.2 SG3 735.5
RRT .8649 RRF .8590 RTF .9847
SGB 5334.8 R23 .0087 R13 .9848
SG1 5325.9 SG2 307.7 THA 5.76

ORBIT DETERMINATION ACCURACY
ST 3098.2 SR 151.5 SS 2034.2
CRT .6450 CRS -.6714 CST -.9993
LSA 3707.1 MSA 129.7 SSA 17.3
EL1 3099.8 EL2 115.7 ALF 1.81

LAUNCH DATE MAY 23 1967 FLIGHT TIME 186.00 ARRIVAL DATE NOV 25 1967

DISTANCE 516.251

HELIOCENTRIC CONIC
RL 151.46 LAL -.00 LOL 241.20 VL 26.837 GAL 3.98 AZL 92.64 HCA 234.31 SMA 128.57 ECC .19071 INC 2.6376 V1 29.417
RP 107.50 LAP 2.14 LOP 115.48 VP 37.905 GAP 5.68 AZP 88.46 TAL 162.63 TAP 36.95 RCA 104.05 APO 153.08 V2 35.250
RC 120.312 GL -21.80 GP -9.02 ZAL 62.44 ZAP 146.09 ETS 347.40 ZAE 131.79 ETE 187.80 ZAC 118.28 ETC 12.43 CLP-147.17

PLANETOCENTRIC CONIC
C3 11.011 VHL 3.318 DLA -20.34 RAL 171.93 RAD 6567.4 VEL 11.506 PTH 2.00 VHP 4.598 DPA 6.56 RAP 148.63 ECC 1.1812

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 42 30	1389.29	5.32	353.71	25.46	117.85	10 5 39	789.3	9.00	346.97
90.00	15 53 41	5417.71	28.09	248.86	30.49	86.23	17 23 59	4817.7	27.27	240.29
100.00	10 50 37	1169.46	4.16	336.91	24.82	119.63	11 10 7	569.5	8.07	330.31
100.00	17 28 15	5112.77	29.40	226.30	30.37	84.35	18 53 28	4512.8	28.31	217.67
110.00	11 30 38	1044.05	1.33	325.64	23.06	124.16	11 48 2	444.0	5.80	319.41
110.00	19 4 43	4810.95	32.70	202.83	29.82	79.45	20 24 54	4210.9	30.90	194.07

DIFFERENTIAL CORRECTIONS
TOE-1.7991 TRA 1.5214 TC3-5.2689 BAU .7800
RDE -.0109 RRA .2346 RC3 -.5630 FAU .07640
FDE-2.7633 FRA 2.6634 FC3-6.0070 BSP 17217
BDE 1.7991 BRA 1.5393 BC3 5.2989 FSP -2270

MID-COURSE EXECUTION ACCURACY
SGT 5452.2 SGR 571.6 SG3 684.2
RRT .8265 RRF .8171 RTF .9844
SGB 5482.1 R23 .0013 R13 .9844
SG1 5472.7 SG2 320.5 THA 4.97

ORBIT DETERMINATION ACCURACY
ST 3219.9 SR 131.5 SS 1984.0
CRT .3982 CRS -.4292 CST -.9994
LSA 3782.0 MSA 133.4 SSA 17.3
EL1 3220.3 EL2 120.6 ALF .93

LAUNCH DATE MAY 23 1967 FLIGHT TIME 188.00 ARRIVAL DATE NOV 27 1967

DISTANCE 522.297

HELIOCENTRIC CONIC
RL 151.46 LAL -.00 LOL 241.20 VL 26.814 GAL 4.24 AZL 92.71 HCA 237.56 SMA 128.41 ECC .19367 INC 2.7110 V1 29.417
RP 107.49 LAP 2.29 LOP 118.73 VP 37.891 GAP 6.09 AZP 88.54 TAL 161.78 TAP 39.33 RCA 103.54 APO 153.28 V2 35.253
RC 122.538 GL -21.74 GP -8.32 ZAL 60.98 ZAP 148.31 ETS 347.29 ZAE 130.78 ETE 187.07 ZAC 117.06 ETC 12.77 CLP-149.31

PLANETOCENTRIC CONIC
C3 11.659 VHL 3.415 DLA -20.93 RAL 173.40 RAD 6567.4 VEL 11.535 PTH 2.01 VHP 4.787 DPA 6.86 RAP 149.90 ECC 1.1919

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 55 15	1375.86	5.74	352.95	27.84	117.78	10 18 11	775.9	9.42	346.20
90.00	15 52 38	5454.87	28.22	251.57	33.09	87.58	17 23 33	4854.9	27.59	242.96
100.00	11 2 36	1158.53	4.53	336.31	27.17	119.58	11 21 54	558.5	8.43	329.70
100.00	17 27 59	5147.42	29.61	228.86	33.00	85.68	18 53 46	4547.4	28.69	220.17
110.00	11 41 12	1037.56	1.58	325.30	25.34	124.15	11 58 29	437.6	6.05	319.07
110.00	19 5 52	4841.16	33.06	205.12	32.52	80.76	20 26 33	4241.2	31.43	196.27

DIFFERENTIAL CORRECTIONS
TOE-1.9086 TRA 1.6569 TC3-5.1035 BAU .7993
RDE .0138 RRA .2295 RC3 -.5001 FAU .06980
FDE-2.6515 FRA 2.6070 FC3-5.1831 BSP 17686
BDE 1.9087 BRA 1.6728 BC3 5.1279 FSP -2119

MID-COURSE EXECUTION ACCURACY
SGT 5591.4 SGR 535.9 SG3 636.4
RRT .7820 RRF .7692 RTF .9840
SGB 5617.0 R23 -.0047 R13 .9840
SG1 5607.2 SG2 333.1 THA 4.30

ORBIT DETERMINATION ACCURACY
ST 3326.4 SR 126.3 SS 1930.3
CRT .0884 CRS -.1213 CST -.9994
LSA 3845.5 MSA 137.6 SSA 17.2
EL1 3326.4 EL2 125.8 ALF .19

LAUNCH DATE MAY 23 1967 FLIGHT TIME 190.00 ARRIVAL DATE NOV 29 1967

HELIOCENTRIC CONIC DISTANCE 528.316
RL 151.46 LAL -.00 LOL 241.20 VL 26.791 GAL 4.53 AZL 92.78 HCA 240.80 SMA 128.25 ECC .19686 INC 2.7793 V1 29.417
RP 107.49 LAP 2.43 LOP 121.97 VP 37.877 GAP 6.51 AZP 88.64 TAL 160.89 TAP 41.70 RCA 103.01 APO 153.50 V2 35.256
RC 124.755 GL -21.60 GP -7.71 ZAL 59.48 ZAP 150.39 ETS 347.13 ZAE 129.85 ETE 186.46 ZAC 115.74 ETC 13.04 CLP-151.32
PLANETOCENTRIC CONIC
C3 12.374 VHL 3.518 DLA -21.44 RAL 174.92 RAD 6567.5 VEL 11.566 PTH 2.02 VHP 4.985 DPA 7.03 RAP 151.27 ECC 1.2036

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 7 36	1365.56	6.07	352.37	30.31	117.71	10 30 21	765.6	9.73	345.60
90.00	15 52 25	5490.24	28.30	254.15	35.77	88.88	17 23 55	4890.2	27.84	245.52
100.00	11 14 12	1150.63	4.79	335.87	29.61	119.54	11 33 22	550.6	8.69	329.25
100.00	17 28 30	5180.40	29.75	231.30	35.71	86.95	18 54 50	4580.4	29.01	222.57
110.00	11 51 28	1033.79	1.72	325.10	27.70	124.15	12 8 42	433.8	6.19	318.87
110.00	19 7 43	4870.01	33.35	207.32	35.30	82.03	20 28 53	4270.0	31.89	198.39

DIFFERENTIAL CORRECTIONS
TDE-2.0162 TRA 1.8013 TC3-4.9198 BAU .8172
RDE .0379 RRA .2254 RC3 -.4455 FAU .06373
FDE-2.5415 FRA 2.5555 FC3-4.4587 BSP 18122
BDE 2.0165 BRA 1.8154 BC3 4.9399 FSP -1979

MID-COURSE EXECUTION ACCURACY
SGT 5718.4 SGR 507.6 SG3 592.2
RRT .7322 RRF .7162 RTF .9835
SGB 5740.9 R23 -.0098 R13 .9835
SG1 5730.5 SG2 344.9 THA 3.73

ORBIT DETERMINATION ACCURACY
ST 3418.9 SR 133.8 SS 1874.7
CRT -.1966 CRS .1649 CST -.9994
LSA 3898.8 MSA 141.8 SSA 17.2
EL1 3419.0 EL2 131.2 ALF 179.56

LAUNCH DATE MAY 23 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 1 1967

HELIOCENTRIC CONIC DISTANCE 534.306
RL 151.46 LAL -.00 LOL 241.20 VL 26.766 GAL 4.83 AZL 92.84 HCA 244.05 SMA 128.09 ECC .20028 INC 2.8434 V1 29.417
RP 107.48 LAP 2.56 LOP 125.22 VP 37.861 GAP 6.94 AZP 88.76 TAL 159.99 TAP 44.04 RCA 102.44 APO 153.75 V2 35.258
RC 126.964 GL -21.39 GP -7.18 ZAL 57.97 ZAP 152.34 ETS 346.93 ZAE 129.01 ETE 185.96 ZAC 114.32 ETC 13.25 CLP-153.22
PLANETOCENTRIC CONIC
C3 13.164 VHL 3.628 DLA -21.88 RAL 176.48 RAD 6567.5 VEL 11.600 PTH 2.03 VHP 5.191 DPA 7.08 RAP 152.72 ECC 1.2166

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 19 29	1358.34	6.30	351.96	32.86	117.66	10 42 8	758.3	9.96	345.19
90.00	15 52 58	5523.99	28.32	256.62	38.52	90.12	17 25 2	4924.0	28.03	247.97
100.00	11 25 23	1145.67	4.96	335.60	32.12	119.52	11 44 29	545.7	8.85	328.97
100.00	17 29 45	5211.90	29.84	233.64	38.49	88.18	18 56 37	4611.9	29.27	224.88
110.00	12 1 26	1032.65	1.76	325.04	30.14	124.14	12 18 39	432.6	6.23	318.81
110.00	19 10 11	4897.69	33.59	209.44	38.16	83.26	20 31 49	4297.7	32.30	200.45

DIFFERENTIAL CORRECTIONS
TDE-2.1222 TRA 1.9560 TC3-4.7203 BAU .8337
RDE .0615 RRA .2221 RC3 -.3975 FAU .05811
FDE-2.4346 FRA 2.5108 FC3-3.8216 BSP 18531
BDE 2.1230 BRA 1.9685 BC3 4.7370 FSP -1850

MID-COURSE EXECUTION ACCURACY
SGT 5834.7 SGR 485.3 SG3 551.4
RRT .6782 RRF .6591 RTF .9831
SGB 5854.8 R23 -.0138 R13 .9830
SG1 5844.0 SG2 356.1 THA 3.24

ORBIT DETERMINATION ACCURACY
ST 3498.4 SR 149.6 SS 1818.2
CRT -.4042 CRS .3753 CST -.9994
LSA 3942.7 MSA 146.4 SSA 17.0
EL1 3498.9 EL2 136.8 ALF 179.01

LAUNCH DATE MAY 23 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 3 1967

HELIOCENTRIC CONIC DISTANCE 540.267
RL 151.46 LAL -.00 LOL 241.20 VL 26.741 GAL 5.15 AZL 92.90 HCA 247.30 SMA 127.93 ECC .20396 INC 2.9041 V1 29.417
RP 107.48 LAP 2.68 LOP 128.47 VP 37.845 GAP 7.37 AZP 88.88 TAL 159.06 TAP 46.36 RCA 101.84 APO 154.02 V2 35.259
RC 129.165 GL -21.11 GP -6.71 ZAL 56.45 ZAP 154.19 ETS 346.68 ZAE 128.24 ETE 185.53 ZAC 112.81 ETC 13.41 CLP-155.01
PLANETOCENTRIC CONIC
C3 14.039 VHL 3.747 DLA -22.27 RAL 178.07 RAD 6567.6 VEL 11.637 PTH 2.04 VHP 5.406 DPA 7.03 RAP 154.25 ECC 1.2310

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 30 55	1354.15	6.43	351.72	35.47	117.64	10 53 29	754.1	10.08	344.95
90.00	15 54 14	5556.26	28.29	258.98	41.33	91.30	17 26 50	4956.3	28.17	250.32
100.00	11 36 9	1143.59	5.03	335.48	34.70	119.50	11 55 13	543.6	8.92	328.86
100.00	17 31 41	5242.05	29.89	235.88	41.34	89.36	18 59 3	4642.1	29.48	227.10
110.00	12 11 6	1034.05	1.71	325.12	32.64	124.15	12 28 20	434.1	6.18	318.88
110.00	19 13 14	4924.35	33.79	211.50	41.10	84.47	20 35 18	4324.4	32.65	202.45

DIFFERENTIAL CORRECTIONS
TDE-2.2242 TRA 2.1233 TC3-4.5002 BAU .8472
RDE .0851 RRA .2195 RC3 -.3542 FAU .05273
FDE-2.3281 FRA 2.4738 FC3-3.2517 BSP 18839
BDE 2.2258 BRA 2.1346 BC3 4.5141 FSP -1722

MID-COURSE EXECUTION ACCURACY
SGT 5937.3 SGR 467.9 SG3 513.5
RRT .6210 RRF .5992 RTF .9825
SGB 5955.7 R23 -.0169 R13 .9824
SG1 5944.4 SG2 366.3 THA 2.81

ORBIT DETERMINATION ACCURACY
ST 3561.8 SR 169.8 SS 1759.2
CRT -.5410 CRS .5148 CST -.9995
LSA 3973.2 MSA 151.5 SSA 16.8
EL1 3563.0 EL2 142.8 ALF 178.52

LAUNCH DATE MAY 23 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 5 1967

HELIOCENTRIC CONIC DISTANCE 546.194
RL 151.46 LAL -.00 LOL 241.20 VL 26.716 GAL 5.49 AZL 92.96 HCA 250.55 SMA 127.76 ECC .20791 INC 2.9620 V1 29.417
RP 107.48 LAP 2.79 LOP 131.72 VP 37.827 GAP 7.81 AZP 89.01 TAL 158.11 TAP 48.66 RCA 101.20 APO 154.32 V2 35.259
RC 131.355 GL -20.77 GP -6.29 ZAL 54.93 ZAP 155.93 ETS 346.38 ZAE 127.55 ETE 185.17 ZAC 111.22 ETC 13.52 CLP-156.72
PLANETOCENTRIC CONIC
C3 15.010 VHL 3.874 DLA -22.60 RAL 179.68 RAD 6567.6 VEL 11.679 PTH 2.05 VHP 5.630 DPA 6.88 RAP 155.84 ECC 1.2470

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 41 50	1352.98	6.47	351.66	38.13	117.63	11 4 23	753.0	10.12	344.88
90.00	15 56 11	5587.12	28.22	261.24	44.21	92.43	17 29 18	4987.1	28.26	252.57
100.00	11 46 28	1144.36	5.00	335.52	37.33	119.51	12 5 32	544.4	8.90	328.90
100.00	17 34 14	5270.97	29.89	238.03	44.26	90.49	19 2 5	4671.0	29.64	229.23
110.00	12 20 24	1037.96	1.56	325.32	35.19	124.15	12 37 42	438.0	6.03	319.09
110.00	19 16 47	4950.14	33.94	213.50	44.09	85.64	20 39 17	4350.1	32.96	204.40

DIFFERENTIAL CORRECTIONS
TDE-2.3287 TRA 2.2984 TC3-4.2783 BAU .8609
RDE .1083 RRA .2169 RC3 -.3159 FAU .04796
FDE-2.2315 FRA 2.4376 FC3-2.7662 BSP 19192
BDE 2.3312 BRA 2.3086 BC3 4.2899 FSP -1613

MID-COURSE EXECUTION ACCURACY
SGT 6033.8 SGR 454.1 SG3 479.0
RRT .5617 RRF .5373 RTF .9820
SGB 6050.8 R23 -.0198 R13 .9820
SG1 6039.2 SG2 375.4 THA 2.43

ORBIT DETERMINATION ACCURACY
ST 3618.0 SR 191.2 SS 1703.7
CRT -.6297 CRS .6061 CST -.9995
LSA 4000.6 MSA 156.2 SSA 16.6
EL1 3620.0 EL2 148.4 ALF 178.09

LAUNCH DATE MAY 23 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 7 1967

HELIOCENTRIC CONIC DISTANCE 552.087

RL 151.46 LAL -.00 LOL 241.20 VL 26.690 GAL 5.85 AZL 93.02 HCA 253.79 SMA 127.59 ECC .21216 INC 3.0176 V1 29.417
RP 107.48 LAP 2.90 LOP 134.97 VP 37.808 GAP 8.27 AZP 89.16 TAL 157.14 TAP 50.94 RCA 100.52 APO 154.66 V2 35.259
RC 133.537 GL -20.39 GP -5.92 ZAL 53.40 ZAP 157.59 ETS 346.01 ZAE 126.92 ETE 184.86 ZAC 109.57 ETC 13.60 CLP-158.35

PLANETOCENTRIC CONIC

C3 16.092 VHL 4.011 DLA -22.89 RAL 181.31 RAD 6567.6 VEL 11.725 PTH 2.07 VHP 5.863 DPA 6.66 RAP 157.49 ECC 1.2648

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 52 12	1354.84	6.41	351.76	40.84	117.64	11 14 47	754.8	10.06	344.99
90.00	15 58 47	5616.65	28.12	263.39	47.13	93.50	17 32 24	5016.7	28.31	254.73
100.00	11 56 18	1147.96	4.88	335.72	40.01	119.53	12 15 26	548.0	8.78	329.10
100.00	17 37 22	5298.76	29.85	240.09	47.22	91.58	19 5 41	4698.8	29.75	231.29
110.00	12 29 21	1044.33	1.32	325.65	37.79	124.16	12 46 45	444.3	5.79	319.42
110.00	19 20 48	4975.16	34.05	215.45	47.15	86.79	20 43 44	4375.2	33.23	206.30

DIFFERENTIAL CORRECTIONS
TDE-2.4324 TRA 2.4855 TC3-4.0484 BAU .8730
RDE .1315 RRA .2143 RC3 -.2811 FAU .04353
FDE-2.1390 FRA 2.4066 FC3-2.3420 BSP 19520
BDE 2.4360 BRA 2.4947 BC3 4.0581 FSP -1512

MID-COURSE EXECUTION ACCURACY
SGT 6121.1 SGR 443.4 SG3 447.2
RRT .5012 RRF .4748 RTF .9815
SGB 6137.2 R23 -.0220 R13 .9815
SG1 6125.2 SG2 383.4 THA 2.09

ORBIT DETERMINATION ACCURACY
ST 3662.8 SR 212.8 SS 1648.6
CRT -.6888 CRS .6672 CST -.9995
LSA 4019.1 MSA 161.1 SSA 16.3
EL1 3665.8 EL2 154.2 ALF 177.70

LAUNCH DATE MAY 23 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 9 1967

HELIOCENTRIC CONIC DISTANCE 557.941

RL 151.46 LAL -.00 LOL 241.20 VL 26.663 GAL 6.23 AZL 93.07 HCA 257.04 SMA 127.42 ECC .21672 INC 3.0714 V1 29.417
RP 107.48 LAP 2.99 LOP 138.22 VP 37.788 GAP 8.73 AZP 89.31 TAL 156.17 TAP 53.21 RCA 99.80 APO 155.03 V2 35.257
RC 135.709 GL -19.97 GP -5.59 ZAL 51.88 ZAP 159.17 ETS 345.56 ZAE 126.34 ETE 184.59 ZAC 107.86 ETC 13.65 CLP-159.91

PLANETOCENTRIC CONIC

C3 17.297 VHL 4.159 DLA -23.12 RAL 182.94 RAD 6567.7 VEL 11.776 PTH 2.08 VHP 6.107 DPA 6.36 RAP 159.19 ECC 1.2847

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 2 0	1359.71	6.26	352.04	43.60	117.67	11 24 40	759.7	9.91	345.27
90.00	16 1 59	5644.93	27.98	265.45	50.11	94.53	17 36 4	5044.9	28.32	256.80
100.00	12 5 37	1154.37	4.67	336.08	42.73	119.56	12 24 52	554.4	8.57	329.46
100.00	17 41 3	5325.51	29.79	242.08	50.24	92.62	19 9 48	4725.5	29.83	233.27
110.00	12 37 55	1053.11	.98	326.11	40.43	124.17	12 55 28	453.1	5.46	319.89
110.00	19 25 15	4999.53	34.13	217.34	50.27	87.91	20 48 34	4399.5	33.46	208.17

DIFFERENTIAL CORRECTIONS
TDE-2.5357 TRA 2.6847 TC3-3.8116 BAU .8833
RDE .1550 RRA .2116 RC3 -.2494 FAU .03941
FDE-2.0515 FRA 2.3795 FC3-1.9723 BSP 19810
BDE 2.5405 BRA 2.6930 BC3 3.8198 FSP -1417

MID-COURSE EXECUTION ACCURACY
SGT 6199.0 SGR 434.8 SG3 417.8
RRT .4401 RRF .4121 RTF .9811
SGB 6214.2 R23 -.0238 R13 .9810
SG1 6201.9 SG2 390.3 THA 1.78

ORBIT DETERMINATION ACCURACY
ST 3697.0 SR 233.8 SS 1594.6
CRT -.7295 CRS .7097 CST -.9995
LSA 4029.6 MSA 165.9 SSA 16.0
EL1 3701.0 EL2 159.8 ALF 177.35

LAUNCH DATE MAY 23 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 11 1967

HELIOCENTRIC CONIC DISTANCE 563.754

RL 151.46 LAL -.00 LOL 241.20 VL 26.636 GAL 6.64 AZL 93.12 HCA 260.29 SMA 127.24 ECC .22162 INC 3.1238 V1 29.417
RP 107.49 LAP 3.08 LOP 141.47 VP 37.768 GAP 9.21 AZP 89.47 TAL 155.18 TAP 55.46 RCA 99.04 APO 155.44 V2 35.255
RC 137.871 GL -19.51 GP -5.30 ZAL 50.38 ZAP 160.69 ETS 345.03 ZAE 125.81 ETE 184.35 ZAC 106.09 ETC 13.67 CLP-161.40

PLANETOCENTRIC CONIC

C3 18.644 VHL 4.318 DLA -23.31 RAL 184.56 RAD 6567.8 VEL 11.833 PTH 2.10 VHP 6.362 DPA 5.99 RAP 160.93 ECC 1.3068

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 11 13	1367.60	6.01	352.48	46.38	117.72	11 34 0	767.6	9.67	345.72
90.00	16 5 46	5672.00	27.82	267.41	53.14	95.50	17 40 18	5072.0	28.29	258.78
100.00	12 14 26	1163.54	4.36	336.58	45.48	119.60	12 33 49	563.5	8.27	329.98
100.00	17 45 14	5351.29	29.69	243.99	53.31	93.62	19 14 25	4751.3	29.88	235.19
110.00	12 46 5	1064.26	.56	326.69	43.11	124.18	13 3 50	464.3	5.04	320.47
110.00	19 30 3	5023.33	34.17	219.20	53.43	89.01	20 53 46	4423.3	33.66	210.00

DIFFERENTIAL CORRECTIONS
TDE-2.6364 TRA 2.8998 TC3-3.5659 BAU .8905
RDE .1788 RRA .2086 RC3 -.2202 FAU .03545
FDE-1.9661 FRA 2.3595 FC3-1.6462 BSP 20014
BDE 2.6425 BRA 2.9073 BC3 3.5727 FSP -1325

MID-COURSE EXECUTION ACCURACY
SGT 6267.1 SGR 428.2 SG3 390.7
RRT .3795 RRF .3506 RTF .9805
SGB 6281.7 R23 -.0249 R13 .9805
SG1 6269.2 SG2 396.0 THA 1.49

ORBIT DETERMINATION ACCURACY
ST 3718.5 SR 254.0 SS 1540.4
CRT -.7580 CRS .7394 CST -.9995
LSA 4029.3 MSA 171.0 SSA 15.7
EL1 3723.5 EL2 165.4 ALF 177.03

LAUNCH DATE MAY 23 1967 FLIGHT TIME 204.00 ARRIVAL DATE DEC 13 1967

HELIOCENTRIC CONIC DISTANCE 569.521

RL 151.46 LAL -.00 LOL 241.20 VL 26.609 GAL 7.08 AZL 93.18 HCA 263.54 SMA 127.07 ECC .22689 INC 3.1752 V1 29.417
RP 107.50 LAP 3.16 LOP 144.72 VP 37.746 GAP 9.71 AZP 89.64 TAL 154.18 TAP 57.71 RCA 98.24 APO 155.90 V2 35.253
RC 140.023 GL -19.02 GP -5.03 ZAL 48.89 ZAP 162.14 ETS 344.41 ZAE 125.32 ETE 184.14 ZAC 104.27 ETC 13.69 CLP-162.84

PLANETOCENTRIC CONIC

C3 20.152 VHL 4.489 DLA -23.45 RAL 186.18 RAD 6567.8 VEL 11.897 PTH 2.11 VHP 6.628 DPA 5.56 RAP 162.71 ECC 1.3317

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 19 48	1378.49	5.66	353.10	49.19	117.79	11 42 46	778.5	9.34	346.35
90.00	16 10 4	5697.92	27.64	269.29	56.20	96.42	17 45 2	5097.9	28.24	260.67
100.00	12 22 41	1175.47	3.96	337.24	48.26	119.65	12 42 17	575.5	7.88	330.65
100.00	17 49 52	5376.17	29.57	245.83	56.41	94.58	19 19 28	4776.2	29.89	237.04
110.00	12 53 51	1077.76	.04	327.40	45.82	124.18	13 11 49	477.8	4.52	321.18
110.00	19 35 11	5046.65	34.18	221.02	56.64	90.08	20 59 18	4446.7	33.82	211.80

DIFFERENTIAL CORRECTIONS
TDE-2.7414 TRA 3.1251 TC3-3.3266 BAU .8978
RDE .2028 RRA .2049 RC3 -.1938 FAU .03193
FDE-1.8898 FRA 2.3398 FC3-1.3718 BSP 20272
BDE 2.7488 BRA 3.1318 BC3 3.3322 FSP -1245

MID-COURSE EXECUTION ACCURACY
SGT 6329.8 SGR 422.6 SG3 365.9
RRT .3191 RRF .2895 RTF .9801
SGB 6343.8 R23 -.0259 R13 .9801
SG1 6331.2 SG2 400.4 THA 1.23

ORBIT DETERMINATION ACCURACY
ST 3735.2 SR 272.7 SS 1490.4
CRT -.7793 CRS .7619 CST -.9996
LSA 4026.9 MSA 175.6 SSA 15.4
EL1 3741.2 EL2 170.6 ALF 176.74

LAUNCH DATE MAY 23 1967 FLIGHT TIME 206.00 ARRIVAL DATE DEC 15 1967

HELIOCENTRIC CONIC DISTANCE 575.237

```
RL  151.46 LAL   -.00 LOL 241.20 VL  26.582 GAL   7.55 AZL  93.23 HCA 266.78 SMA 126.89 ECC .23256 INC 3.2259 V1  29.417
RP  107.51 LAP   3.22 LOP 147.98 VP  37.723 GAP  10.22 AZP  89.82 TAL 153.17 TAP  59.95 RCA  97.38 APO 156.40 V2  35.249
RC 142.165 GL  -18.50 GP   -4.79 ZAL  47.42 ZAP 163.53 ETS 343.67 ZAE 124.87 ETE 183.95 ZAC 102.42 ETC  13.69 CLP-164.23
```

PLANETOCENTRIC CONIC

```
C3  21.844 VHL  4.674 DLA -23.56 RAL 187.78 RAD 6567.9 VEL 11.968 PTH   2.13 VHP  6.908 DPA   5.08 RAP 164.52 ECC 1.3595
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 27 44	1392.34	5.22	353.88	52.02	117.87	11 50 57	792.3	8.91	347.14
90.00	16 14 54	5722.77	27.44	271.08	59.30	97.30	17 50 16	5122.8	28.16	262.49
100.00	12 30 23	1190.09	3.46	338.05	51.06	119.71	12 50 14	590.1	7.39	331.46
100.00	17 54 55	5400.25	29.43	247.60	59.56	95.51	19 24 56	4800.2	29.88	238.83
110.00	13 1 11	1093.54	-.56	328.22	48.54	124.18	13 19 25	493.5	3.92	322.01
110.00	19 40 37	5069.57	34.17	222.81	59.88	91.14	21 5 7	4469.6	33.95	213.58

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE-2.8473 TRA 3.3655 TC3-3.0872 BAU  .9029   SGT 6385.0 SGR  418.0 SG3  343.0     ST  3743.5 SR   290.0 SS  1442.2
 RDE  .2273 RRA  .2005 RC3 -.1696 FAU .02864   RRT  .2594 RRF  .2296 RTF  .9798    CRT -.7952 CRS  .7788 CST -.9996
 FDE-1.8181 FRA 2.3244 FC3-1.1351 BSP  20505   SGB 6398.7 R23 -.0264 R13  .9798    LSA 4018.1 MSA  180.0 SSA   15.1
 BDE 2.8563 BRA 3.3715 BC3 3.0918 FSP  -1171   SG1 6385.9 SG2  403.6 THA    .98    EL1 3750.7 EL2  175.5 ALF 176.47
```

LAUNCH DATE MAY 23 1967 FLIGHT TIME 208.00 ARRIVAL DATE DEC 17 1967

HELIOCENTRIC CONIC DISTANCE 580.897

```
RL  151.46 LAL   -.00 LOL 241.20 VL  26.554 GAL   8.04 AZL  93.28 HCA 270.03 SMA 126.71 ECC .23867 INC 3.2763 V1  29.417
RP  107.52 LAP   3.28 LOP 151.23 VP  37.700 GAP  10.75 AZP  90.00 TAL 152.16 TAP  62.19 RCA  96.47 APO 156.95 V2  35.245
RC 144.295 GL  -17.96 GP   -4.58 ZAL  45.97 ZAP 164.88 ETS 342.80 ZAE 124.44 ETE 183.78 ZAC 100.53 ETC  13.68 CLP-165.58
```

PLANETOCENTRIC CONIC

```
C3  23.746 VHL  4.873 DLA -23.62 RAL 189.36 RAD 6568.0 VEL 12.047 PTH   2.15 VHP  7.203 DPA   4.56 RAP 166.36 ECC 1.3908
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 35 2	1409.10	4.69	354.82	54.86	117.96	11 58 31	809.1	8.39	348.10
90.00	16 20 10	5746.62	27.22	272.79	62.44	98.13	17 55 57	5146.6	28.06	264.23
100.00	12 37 32	1207.36	2.88	339.00	53.87	119.77	12 57 39	607.4	6.82	332.43
100.00	18 0 22	5423.59	29.26	249.32	62.73	96.40	19 30 45	4823.6	29.84	240.56
110.00	13 8 5	1111.56	-1.25	329.16	51.29	124.16	13 26 37	511.6	3.24	322.95
110.00	19 46 18	5092.16	34.12	224.58	63.16	92.19	21 11 10	4492.2	34.05	215.33

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE-2.9545 TRA 3.6212 TC3-2.8502 BAU  .9060   SGT 6432.7 SGR  414.0 SG3  321.8     ST  3744.1 SR   305.9 SS  1396.1
 RDE  .2522 RRA  .1952 RC3 -.1476 FAU .02557   RRT  .2005 RRF  .1710 RTF  .9795    CRT -.8075 CRS  .7919 CST -.9996
 FDE-1.7512 FRA 2.3124 FC3 -.9323 BSP  20713   SGB 6446.0 R23 -.0267 R13  .9795    LSA 4003.4 MSA  184.1 SSA   14.8
 BDE 2.9653 BRA 3.6265 BC3 2.8540 FSP  -1102   SG1 6433.3 SG2  405.6 THA    .74    EL1 3752.3 EL2  180.1 ALF 176.22
```

LAUNCH DATE MAY 23 1967 FLIGHT TIME 210.00 ARRIVAL DATE DEC 19 1967

HELIOCENTRIC CONIC DISTANCE 586.495

```
RL  151.46 LAL   -.00 LOL 241.20 VL  26.526 GAL   8.57 AZL  93.33 HCA 273.27 SMA 126.53 ECC .24526 INC 3.3267 V1  29.417
RP  107.53 LAP   3.32 LOP 154.48 VP  37.676 GAP  11.31 AZP  90.19 TAL 151.15 TAP  64.42 RCA  95.50 APO 157.57 V2  35.240
RC 146.414 GL  -17.41 GP   -4.39 ZAL  44.56 ZAP 166.19 ETS 341.75 ZAE 124.04 ETE 183.62 ZAC  98.61 ETC  13.68 CLP-166.89
```

PLANETOCENTRIC CONIC

```
C3  25.890 VHL  5.088 DLA -23.65 RAL 190.90 RAD 6568.0 VEL 12.135 PTH   2.18 VHP  7.513 DPA   3.99 RAP 168.21 ECC 1.4261
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 41 41	1428.71	4.06	355.92	57.71	118.05	12 5 30	828.7	7.78	349.22
90.00	16 25 53	5769.54	26.99	274.43	65.60	98.92	18 2 2	5169.5	27.94	265.89
100.00	12 44 7	1227.21	2.21	340.09	56.69	119.82	13 4 34	627.2	6.16	333.53
100.00	18 6 9	5446.27	29.08	250.98	65.94	97.25	19 36 55	4846.3	29.78	242.25
110.00	13 14 33	1131.75	-2.03	330.21	54.05	124.13	13 33 25	531.8	2.47	324.01
110.00	19 52 11	5114.49	34.05	226.32	66.47	93.21	21 17 26	4514.5	34.12	217.07

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE-3.0606 TRA 3.8970 TC3-2.6112 BAU  .9049   SGT 6472.2 SGR  410.5 SG3  302.2     ST  3734.9 SR   320.4 SS  1350.8
 RDE  .2777 RRA  .1889 RC3 -.1274 FAU .02256   RRT  .1429 RRF  .1144 RTF  .9792    CRT -.8166 CRS  .8016 CST -.9996
 FDE-1.6865 FRA 2.3064 FC3 -.7545 BSP  20812   SGB 6485.2 R23 -.0263 R13  .9792    LSA 3980.1 MSA  188.1 SSA   14.4
 BDE 3.0732 BRA 3.9016 BC3 2.6143 FSP  -1032   SG1 6472.5 SG2  406.3 THA    .52    EL1 3744.1 EL2  184.4 ALF 175.98
```

LAUNCH DATE MAY 23 1967 FLIGHT TIME 212.00 ARRIVAL DATE DEC 21 1967

HELIOCENTRIC CONIC DISTANCE 592.021

```
RL  151.46 LAL   -.00 LOL 241.20 VL  26.499 GAL   9.14 AZL  93.38 HCA 276.52 SMA 126.35 ECC .25238 INC 3.3774 V1  29.417
RP  107.55 LAP   3.36 LOP 157.72 VP  37.651 GAP  11.90 AZP  90.38 TAL 150.14 TAP  66.66 RCA  94.47 APO 158.24 V2  35.234
RC 148.521 GL  -16.84 GP   -4.21 ZAL  43.18 ZAP 167.45 ETS 340.50 ZAE 123.67 ETE 183.47 ZAC  96.67 ETC  13.67 CLP-168.17
```

PLANETOCENTRIC CONIC

```
C3  28.312 VHL  5.321 DLA -23.65 RAL 192.42 RAD 6568.1 VEL 12.235 PTH   2.20 VHP  7.842 DPA   3.38 RAP 170.09 ECC 1.4659
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 47 41	1451.08	3.34	357.17	60.56	118.14	12 11 52	851.1	7.08	350.49
90.00	16 31 58	5791.62	26.74	276.00	68.79	99.67	18 8 30	5191.6	27.81	267.49
100.00	12 50 7	1249.55	1.45	341.32	59.52	119.86	13 10 57	649.6	5.42	334.77
100.00	18 12 13	5468.37	28.88	252.59	69.17	98.08	19 43 22	4868.4	29.69	243.88
110.00	13 20 34	1154.07	-2.88	331.38	56.82	124.08	13 39 48	554.1	1.61	325.18
110.00	19 58 16	5136.62	33.95	228.04	69.81	94.23	21 23 52	4536.6	34.16	218.80

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE-3.1735 TRA 4.1865 TC3-2.3838 BAU  .9032   SGT 6506.4 SGR  407.2 SG3  284.1     ST  3723.3 SR   333.1 SS  1310.0
 RDE  .3036 RRA  .1813 RC3 -.1093 FAU .01988   RRT  .0855 RRF  .0582 RTF  .9791    CRT -.8244 CRS  .8100 CST -.9996
 FDE-1.6297 FRA 2.3011 FC3 -.6079 BSP  20992   SGB 6519.2 R23 -.0259 R13  .9791    LSA 3956.4 MSA  191.3 SSA   14.1
 BDE 3.1880 BRA 4.1905 BC3 2.3863 FSP   -974   SG1 6506.5 SG2  405.7 THA    .31    EL1 3733.5 EL2  188.0 ALF 175.77
```

LAUNCH DATE MAY 23 1967 FLIGHT TIME 214.00 ARRIVAL DATE DEC 23 1967

HELIOCENTRIC CONIC DISTANCE 597.467
RL 151.46 LAL -.00 LOL 241.20 VL 26.471 GAL 9.74 AZL 93.43 HCA 279.76 SMA 126.18 ECC .26008 INC 3.4288 V1 29.417
RP 107.59 LAP 3.38 LOP 160.97 VP 37.625 GAP 12.51 AZP 90.58 TAL 149.14 TAP 68.90 RCA 93.36 APO 158.99 V2 35.228
RC 150.615 GL -16.26 GP -4.05 ZAL 41.83 ZAP 168.68 ETS 338.97 ZAE 123.30 ETE 183.33 ZAC 94.71 ETC 13.66 CLP-169.42
PLANETOCENTRIC CONIC
C3 31.055 VHL 5.573 DLA -23.62 RAL 193.90 RAD 6568.2 VEL 12.346 PTH 2.23 VHP 8.191 DPA 2.74 RAP 171.97 ECC 1.5111

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 53 3	1476.10	2.54	358.57	63.41	118.21	12 17 39	876.1	6.29	351.90
90.00	16 38 23	5812.93	26.49	277.51	72.00	100.39	18 15 16	5212.9	27.66	269.03
100.00	12 55 34	1274.31	.61	342.67	62.34	119.89	13 16 48	674.3	4.59	336.14
100.00	18 18 33	5489.95	28.66	254.16	72.41	98.87	19 50 3	4889.9	29.59	245.48
110.00	13 26 8	1178.43	-3.81	332.65	59.59	124.00	13 45 47	578.4	.68	326.45
110.00	20 4 28	5158.59	33.83	229.74	73.16	95.23	21 30 27	4558.6	34.18	220.52

DIFFERENTIAL CORRECTIONS
TOE-3.2900 TRA 4.4954 TC3-2.1627 BAU .8988
ROE .3301 RRA .1722 RC3 -.0930 FAU .01735
FOE-1.5774 FRA 2.2997 FC3 -.4837 BSP 21155
BOE 3.3065 BRA 4.4987 BC3 2.1647 FSP -919

MID-COURSE EXECUTION ACCURACY
SGT 6534.4 SGR 404.0 SG3 267.4
RRT .0290 RRF .0032 RTF .9791
SGB 6546.9 R23 -.0253 R13 .9791
SG1 6534.4 SG2 403.9 THA .10

ORBIT DETERMINATION ACCURACY
ST 3706.4 SR 344.3 SS 1271.8
CRT -.8307 CRS .8169 CST -.9996
LSA 3928.8 MSA 194.1 SSA 13.8
EL1 3717.4 EL2 191.1 ALF 175.58

LAUNCH DATE MAY 23 1967 FLIGHT TIME 216.00 ARRIVAL DATE DEC 25 1967

HELIOCENTRIC CONIC DISTANCE 602.821
RL 151.46 LAL -.00 LOL 241.20 VL 26.443 GAL 10.40 AZL 93.48 HCA 283.00 SMA 126.00 ECC .26843 INC 3.4811 V1 29.417
RP 107.59 LAP 3.39 LOP 164.22 VP 37.599 GAP 13.16 AZP 90.78 TAL 148.16 TAP 71.16 RCA 92.18 APO 159.82 V2 35.221
RC 152.696 GL -15.67 GP -3.91 ZAL 40.53 ZAP 169.88 ETS 337.08 ZAE 122.95 ETE 183.20 ZAC 92.73 ETC 13.66 CLP-170.66
PLANETOCENTRIC CONIC
C3 34.172 VHL 5.846 DLA -23.55 RAL 195.33 RAD 6568.3 VEL 12.472 PTH 2.26 VHP 8.562 DPA 2.07 RAP 173.86 ECC 1.5624

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 57 47	1503.65	1.65	.11	66.25	118.27	12 22 51	903.7	5.42	353.45
90.00	16 45 5	5833.55	26.23	278.96	75.22	101.07	18 22 19	5233.6	27.49	270.52
100.00	13 0 27	1301.37	-.30	344.16	65.17	119.89	13 22 8	701.4	3.67	337.63
100.00	18 25 7	5511.07	28.43	255.69	75.67	99.65	19 56 58	4911.1	29.47	247.04
110.00	13 31 16	1204.76	-4.81	334.04	62.36	123.88	13 51 20	604.8	-.32	327.82
110.00	20 10 47	5180.45	33.68	231.43	76.53	96.22	21 37 8	4580.4	34.17	222.22

DIFFERENTIAL CORRECTIONS
TOE-3.4104 TRA 4.8255 TC3-1.9482 BAU .8908
ROE .3571 RRA .1614 RC3 -.0785 FAU .01496
FOE-1.5295 FRA 2.3022 FC3 -.3789 BSP 21293
BOE 3.4290 BRA 4.8282 BC3 1.9498 FSP -867

MID-COURSE EXECUTION ACCURACY
SGT 6555.9 SGR 400.9 SG3 251.9
RRT -.0269 RRF -.0507 RTF .9792
SGB 6568.1 R23 .0243 R13 -.9792
SG1 6555.9 SG2 400.8 THA 179.91

ORBIT DETERMINATION ACCURACY
ST 3684.2 SR 353.9 SS 1236.3
CRT -.8359 CRS .8226 CST -.9997
LSA 3897.3 MSA 196.4 SSA 13.4
EL1 3696.1 EL2 193.6 ALF 175.40

LAUNCH DATE MAY 23 1967 FLIGHT TIME 218.00 ARRIVAL DATE DEC 27 1967

HELIOCENTRIC CONIC DISTANCE 608.069
RL 151.46 LAL -.00 LOL 241.20 VL 26.415 GAL 11.10 AZL 93.53 HCA 286.24 SMA 125.82 ECC .27750 INC 3.5348 V1 29.417
RP 107.62 LAP 3.39 LOP 167.47 VP 37.572 GAP 13.85 AZP 90.99 TAL 147.19 TAP 73.43 RCA 90.91 APO 160.74 V2 35.214
RC 154.762 GL -15.08 GP -3.78 ZAL 39.27 ZAP 171.05 ETS 334.68 ZAE 122.60 ETE 183.07 ZAC 90.75 ETC 13.67 CLP-171.88
PLANETOCENTRIC CONIC
C3 37.725 VHL 6.142 DLA -23.46 RAL 196.72 RAD 6568.5 VEL 12.613 PTH 2.29 VHP 8.959 DPA 1.37 RAP 175.76 ECC 1.6209

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 1 54	1533.62	.68	1.78	69.08	118.31	12 27 28	933.6	4.46	355.14
90.00	16 52 2	5853.56	25.96	280.36	78.45	101.72	18 29 36	5253.6	27.32	271.96
100.00	13 4 47	1330.64	-1.30	345.76	67.98	119.87	13 26 58	730.6	2.69	339.24
100.00	18 31 50	5531.77	28.18	257.18	78.94	100.39	20 4 2	4931.8	29.33	248.56
110.00	13 35 56	1232.98	-5.88	335.52	65.14	123.74	13 56 29	633.0	-1.40	329.29
110.00	20 17 11	5202.20	33.51	233.11	79.89	97.20	21 43 53	4602.2	34.14	223.92

DIFFERENTIAL CORRECTIONS
TOE-3.5359 TRA 5.1782 TC3-1.7413 BAU .8789
ROE .3848 RRA .1489 RC3 -.0656 FAU .01267
FOE-1.4858 FRA 2.3089 FC3 -.2908 BSP 21406
BOE 3.5568 BRA 5.1804 BC3 1.7426 FSP -819

MID-COURSE EXECUTION ACCURACY
SGT 6571.2 SGR 397.9 SG3 237.6
RRT -.0820 RRF -.1036 RTF .9795
SGB 6583.3 R23 .0230 R13 -.9795
SG1 6571.3 SG2 396.5 THA 179.71

ORBIT DETERMINATION ACCURACY
ST 3657.7 SR 361.9 SS 1203.6
CRT -.8403 CRS .8275 CST -.9997
LSA 3862.5 MSA 198.0 SSA 13.1
EL1 3670.4 EL2 195.5 ALF 175.23

LAUNCH DATE MAY 23 1967 FLIGHT TIME 220.00 ARRIVAL DATE DEC 29 1967

HELIOCENTRIC CONIC DISTANCE 613.196
RL 151.46 LAL -.00 LOL 241.20 VL 26.387 GAL 11.85 AZL 93.59 HCA 289.48 SMA 125.65 ECC .28737 INC 3.5902 V1 29.417
RP 107.64 LAP 3.38 LOP 170.71 VP 37.545 GAP 14.58 AZP 91.20 TAL 146.24 TAP 75.72 RCA 89.54 APO 161.75 V2 35.205
RC 156.813 GL -14.49 GP -3.66 ZAL 38.05 ZAP 172.19 ETS 331.58 ZAE 122.25 ETE 182.95 ZAC 88.76 ETC 13.68 CLP-173.09
PLANETOCENTRIC CONIC
C3 41.789 VHL 6.464 DLA -23.33 RAL 198.05 RAD 6568.6 VEL 12.773 PTH 2.32 VHP 9.385 DPA .66 RAP 177.66 ECC 1.6877

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 5 25	1565.86	-.36	3.58	71.89	118.31	12 31 31	965.9	3.43	356.95
90.00	16 59 11	5873.00	25.68	281.72	81.68	102.35	18 37 4	5273.0	27.13	273.35
100.00	13 8 34	1361.99	-2.36	347.48	70.78	119.81	13 31 16	762.0	1.63	340.96
100.00	18 38 43	5552.10	27.93	258.63	82.20	101.12	20 11 15	4952.1	29.18	250.05
110.00	13 40 9	1263.00	-7.01	337.11	67.91	123.54	14 1 12	663.0	-2.55	330.86
110.00	20 23 38	5223.86	33.31	234.77	83.26	98.16	21 50 42	4623.9	34.08	225.61

DIFFERENTIAL CORRECTIONS
TOE-3.6640 TRA 5.5594 TC3-1.5396 BAU .8607
ROE .4131 RRA .1343 RC3 -.0544 FAU .01041
FOE-1.4448 FRA 2.3215 FC3 -.2157 BSP 21418
BOE 3.6872 BRA 5.5610 BC3 1.5406 FSP -770

MID-COURSE EXECUTION ACCURACY
SGT 6580.6 SGR 394.7 SG3 224.3
RRT -.1361 RRF -.1550 RTF .9798
SGB 6592.4 R23 .0214 R13 -.9798
SG1 6580.8 SG2 391.1 THA 179.53

ORBIT DETERMINATION ACCURACY
ST 3625.1 SR 368.2 SS 1172.8
CRT -.8438 CRS .8313 CST -.9997
LSA 3822.6 MSA 199.3 SSA 12.7
EL1 3638.4 EL2 196.9 ALF 175.09

LAUNCH DATE MAY 24 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 2 1967

DISTANCE 142.078

HELIOCENTRIC CONIC
RL 151.49 LAL -.00 LOL 242.16 VL 18.858 GAL 12.13 AZL 92.58 HCA 49.58 SMA 95.03 ECC .61767 INC 2.5799 V1 29.412
RP 108.90 LAP -1.96 LOP 291.71 VP 32.260 GAP -37.35 AZP 91.67 TAL 172.24 TAP 221.82 RCA 36.33 APO 153.72 V2 34.797
RC 57.979 GL -4.10 GP 1.30 ZAL 71.73 ZAP 25.02 ETS 184.46 ZAE 152.41 ETE 163.66 ZAC 126.86 ETC 20.60 CLP 24.98

PLANETOCENTRIC CONIC
C3 134.761 VHL 11.609 DLA .00 RAL 169.64 RAD 6570.4 VEL 16.003 PTH 2.82 VHP 21.684 DPA 19.89 RAP 140.47 ECC 3.2178

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 36 0	2665.26	-27.35	72.06	63.38	97.63	7 20 26	2065.3	-26.01	63.65
90.00	18 34 4	5309.15	27.35	241.00	63.38	82.36	20 2 33	4709.1	26.01	232.59
100.00	7 57 21	2402.87	-28.86	52.53	63.14	98.14	8 37 24	1802.9	-27.44	44.02
100.00	19 55 25	5046.76	28.86	221.47	63.14	81.86	21 19 32	4446.8	27.43	212.96
110.00	9 5 36	2189.25	-32.97	35.57	62.39	99.59	9 42 5	1589.2	-31.29	26.74
110.00	21 3 39	4833.15	32.97	204.51	62.39	80.41	22 24 12	4233.2	31.29	195.69

DIFFERENTIAL CORRECTIONS
TDE .5955 TRA-1.4471 TC3 -.1000 BAU .1863
RDE -.8017 RRA -.4173 RC3 .0262 FAU .01437
FDE -.3220 FRA .5644 FC3 -.0923 BSP 2109
BDE .9986 BRA 1.5061 BC3 .1034 FSP -69

MID-COURSE EXECUTION ACCURACY
SGT 806.5 SGR 450.2 SG3 33.3
RRT .0459 RRF -.0434 RTF -.6297
SGB 923.6 R23 -.0014 R13 -.6298
SG1 806.9 SG2 449.5 THA 2.13

ORBIT DETERMINATION ACCURACY
ST 363.8 SR 400.5 SS 336.6
CRT -.7075 CRS -.8020 CST .9879
LSA 597.7 MSA 220.5 SSA 13.9
EL1 500.4 EL2 205.8 ALF 131.13

LAUNCH DATE MAY 24 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 4 1967

DISTANCE 148.167

HELIOCENTRIC CONIC
RL 151.49 LAL -.00 LOL 242.16 VL 19.482 GAL 11.65 AZL 92.66 HCA 52.74 SMA 96.69 ECC .59069 INC 2.6559 V1 29.412
RP 108.92 LAP -2.11 LOP 294.87 VP 32.625 GAP -35.57 AZP 91.61 TAL 171.66 TAP 224.40 RCA 39.57 APO 153.80 V2 34.793
RC 56.154 GL -4.61 GP 1.34 ZAL 70.83 ZAP 23.48 ETS 184.68 ZAE 153.42 ETE 161.83 ZAC 125.30 ETC 20.13 CLP 23.45

PLANETOCENTRIC CONIC
C3 120.946 VHL 10.998 DLA -.83 RAL 170.28 RAD 6570.3 VEL 15.565 PTH 2.77 VHP 20.762 DPA 19.47 RAP 142.14 ECC 2.9905

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 44 41	2618.57	-26.88	68.72	62.02	99.24	7 28 20	2018.6	-25.33	60.40
90.00	18 30 29	5313.81	27.39	241.34	62.83	82.53	19 59 2	4713.8	26.07	232.92
100.00	8 5 39	2357.43	-28.38	49.24	61.74	99.80	8 44 56	1757.4	-26.73	40.82
100.00	19 52 12	5050.19	28.89	221.72	62.60	81.99	21 16 22	4450.2	27.48	213.20
110.00	9 13 1	2146.56	-32.44	32.35	60.86	101.42	9 48 47	1546.6	-30.53	23.65
110.00	21 1 20	4833.82	32.98	204.56	61.86	80.44	22 21 54	4233.8	31.30	195.74

DIFFERENTIAL CORRECTIONS
TDE .5959 TRA-1.4408 TC3 -.1029 BAU .1733
RDE -.7649 RRA -.4010 RC3 .0302 FAU .01468
FDE -.3378 FRA .5826 FC3 -.1051 BSP 2262
BDE .9697 BRA 1.4956 BC3 .1072 FSP -77

MID-COURSE EXECUTION ACCURACY
SGT 843.3 SGR 454.9 SG3 36.3
RRT .0471 RRF -.0453 RTF -.6499
SGB 958.1 R23 -.0022 R13 -.6501
SG1 843.7 SG2 454.1 THA 2.05

ORBIT DETERMINATION ACCURACY
ST 383.6 SR 403.4 SS 355.7
CRT -.7084 CRS -.8053 CST .9874
LSA 620.9 MSA 225.2 SSA 14.1
EL1 514.6 EL2 212.3 ALF 132.97

LAUNCH DATE MAY 24 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 6 1967

DISTANCE 154.331

HELIOCENTRIC CONIC
RL 151.49 LAL -.00 LOL 242.16 VL 20.063 GAL 11.17 AZL 92.73 HCA 55.90 SMA 98.33 ECC .56455 INC 2.7257 V1 29.412
RP 108.93 LAP -2.26 LOP 298.03 VP 32.972 GAP -33.88 AZP 91.53 TAL 171.11 TAP 227.01 RCA 42.82 APO 153.85 V2 34.790
RC 54.407 GL -5.15 GP 1.39 ZAL 70.00 ZAP 21.97 ETS 184.96 ZAE 154.55 ETE 159.71 ZAC 123.73 ETC 19.68 CLP 21.93

PLANETOCENTRIC CONIC
C3 108.614 VHL 10.422 DLA -1.66 RAL 170.84 RAD 6570.1 VEL 15.164 PTH 2.72 VHP 19.876 DPA 19.04 RAP 143.82 ECC 2.7875

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 53 4	2571.04	-26.32	65.36	60.56	100.84	7 35 55	1971.0	-24.56	57.13
90.00	18 26 34	5317.66	27.43	241.62	62.14	82.66	19 55 11	4717.7	26.13	233.19
100.00	8 13 38	2311.13	-27.80	45.92	60.23	101.46	8 52 9	1711.1	-25.94	37.61
100.00	19 48 41	5052.80	28.92	221.91	61.91	82.08	21 12 53	4452.8	27.52	213.39
110.00	9 20 7	2103.04	-31.81	29.11	59.22	103.24	9 55 10	1503.0	-29.66	20.56
110.00	20 58 41	4833.66	32.97	204.55	61.19	80.43	22 19 15	4233.7	31.30	195.72

DIFFERENTIAL CORRECTIONS
TDE .5943 TRA-1.4359 TC3 -.1056 BAU .1615
RDE -.7288 RRA -.3846 RC3 .0348 FAU .01500
FDE -.3541 FRA .6011 FC3 -.1196 BSP 2371
BDE .9404 BRA 1.4865 BC3 .1112 FSP -85

MID-COURSE EXECUTION ACCURACY
SGT 882.6 SGR 458.9 SG3 39.5
RRT .0499 RRF -.0476 RTF -.6682
SGB 994.7 R23 -.0020 R13 -.6684
SG1 883.0 SG2 458.1 THA 2.03

ORBIT DETERMINATION ACCURACY
ST 403.6 SR 405.7 SS 375.4
CRT -.7077 CRS -.8084 CST .9865
LSA 644.5 MSA 229.8 SSA 14.4
EL1 528.8 EL2 218.8 ALF 134.80

LAUNCH DATE MAY 24 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 8 1967

DISTANCE 160.564

HELIOCENTRIC CONIC
RL 151.49 LAL -.00 LOL 242.16 VL 20.605 GAL 10.68 AZL 92.79 HCA 59.06 SMA 99.96 ECC .53932 INC 2.7905 V1 29.412
RP 108.93 LAP -2.39 LOP 301.19 VP 33.302 GAP -32.27 AZP 91.44 TAL 170.58 TAP 229.64 RCA 46.05 APO 153.88 V2 34.787
RC 52.748 GL -5.73 GP 1.44 ZAL 69.26 ZAP 20.47 ETS 185.29 ZAE 155.79 ETE 157.25 ZAC 122.14 ETC 19.25 CLP 20.42

PLANETOCENTRIC CONIC
C3 97.597 VHL 9.879 DLA -2.49 RAL 171.32 RAD 6569.9 VEL 14.797 PTH 2.67 VHP 19.023 DPA 18.59 RAP 145.50 ECC 2.6062

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 1 8	2522.67	-25.66	61.97	58.99	102.41	7 43 11	1922.7	-23.69	53.85
90.00	18 22 18	5320.78	27.45	241.84	61.31	82.77	19 50 59	4720.8	26.17	233.41
100.00	8 21 19	2264.01	-27.12	42.58	58.62	103.09	8 59 3	1664.0	-25.04	34.40
100.00	19 44 48	5054.67	28.94	222.05	61.09	82.15	21 9 3	4454.7	27.55	213.52
110.00	9 26 54	2058.69	-31.07	25.87	57.49	105.03	10 1 13	1458.7	-28.69	17.47
110.00	20 55 43	4832.76	32.96	204.48	60.37	80.39	22 16 15	4232.8	31.29	195.66

DIFFERENTIAL CORRECTIONS
TDE .5948 TRA-1.4283 TC3 -.1066 BAU .1485
RDE -.6933 RRA -.3681 RC3 .0399 FAU .01537
FDE -.3715 FRA .6194 FC3 -.1363 BSP 2526
BDE .9134 BRA 1.4750 BC3 .1138 FSP -95

MID-COURSE EXECUTION ACCURACY
SGT 922.4 SGR 462.1 SG3 43.0
RRT .0514 RRF -.0497 RTF -.6869
SGB 1031.7 R23 -.0026 R13 -.6871
SG1 922.8 SG2 461.3 THA 1.97

ORBIT DETERMINATION ACCURACY
ST 425.3 SR 407.2 SS 396.2
CRT -.7089 CRS -.8119 CST .9860
LSA 670.0 MSA 233.5 SSA 14.6
EL1 544.4 EL2 224.4 ALF 136.76

LAUNCH DATE MAY 24 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 10 1967

HELIOCENTRIC CONIC DISTANCE 166.862

```
RL  151.49 LAL   -.00 LOL 242.16 VL  21.110 GAL  10.21 AZL  92.85 HCA  62.22 SMA 101.58 ECC .51501 INC 2.8511 V1  29.412
RP  108.94 LAP  -2.52 LOP 304.35 VP  33.615 GAP -30.75 AZP  91.33 TAL 170.08 TAP 232.31 RCA  49.26 APO 153.89 V2  34.784
RC  51.183 GL   -6.33 GP    1.50 ZAL  68.59 ZAP  18.98 ETS 185.69 ZAE 157.11 ETE 154.34 ZAC 120.54 ETC  18.84 CLP  18.92
```

PLANETOCENTRIC CONIC

```
C3  87.751 VHL  9.368 DLA  -3.32 RAL 171.71 RAD 6569.7 VEL 14.460 PTH   2.63 VHP 18.202 DPA  18.13 RAP 147.18 ECC 2.4442
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 8 55	2473.49	-24.89	58.57	57.34	103.95	7 50 8	1873.5	-22.73	50.57
90.00	18 17 41	5323.31	27.47	242.02	60.35	82.86	19 46 25	4723.3	26.20	233.59
100.00	8 28 42	2216.09	-26.33	39.24	56.93	104.68	9 5 38	1616.1	-24.06	31.18
100.00	19 40 35	5055.95	28.95	222.14	60.13	82.20	21 4 51	4455.9	27.57	213.61
110.00	9 33 24	2013.58	-30.23	22.62	55.69	106.78	10 6 57	1413.6	-27.63	14.39
110.00	20 52 23	4831.23	32.95	204.36	59.41	80.32	22 12 54	4231.2	31.26	195.55

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .5959 TRA-1.4192 TC3 -.1060 BAU  .1353   SGT  963.5 SGR  464.6 SG3   46.9      ST   448.2 SR   407.9 SS   418.0
RDE -.6584 RRA -.3516 RC3  .0456 FAU .01578   RRT  .0527 RRF -.0518 RTF -.7050      CRT -.7107 CRS -.8155 CST  .9855
FDE -.3898 FRA  .6377 FC3 -.1557 BSP   2697   SGB 1069.7 R23 -.0034 R13 -.7052      LSA  697.1 MSA  236.5 SSA   14.8
BDE  .8880 BRA 1.4621 BC3  .1154 FSP   -105   SG1  963.9 SG2  463.8 THA   1.89      EL1  561.0 EL2  229.3 ALF 138.79
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 12 1967

HELIOCENTRIC CONIC DISTANCE 173.219

```
RL  151.49 LAL   -.00 LOL 242.16 VL  21.580 GAL   9.74 AZL  92.91 HCA  65.39 SMA 103.16 ECC .49167 INC 2.9082 V1  29.412
RP  108.94 LAP  -2.64 LOP 307.52 VP  33.911 GAP -29.29 AZP  91.21 TAL 169.62 TAP 235.01 RCA  52.44 APO 153.88 V2  34.784
RC  49.723 GL   -6.98 GP    1.56 ZAL  68.01 ZAP  17.50 ETS 186.20 ZAE 158.52 ETE 150.87 ZAC 118.93 ETC  18.45 CLP  17.43
```

PLANETOCENTRIC CONIC

```
C3  78.949 VHL  8.885 DLA  -4.15 RAL 172.02 RAD 6569.5 VEL 14.153 PTH   2.58 VHP 17.410 DPA  17.66 RAP 148.87 ECC 2.2993
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 16 24	2423.55	-24.03	55.17	55.60	105.45	7 56 47	1823.5	-21.68	47.29
90.00	18 12 41	5325.40	27.49	242.17	59.25	82.93	19 41 26	4725.4	26.23	233.73
100.00	8 35 48	2167.42	-25.45	35.89	55.16	106.23	9 11 55	1567.4	-22.98	27.96
100.00	19 35 58	5056.75	28.96	222.20	59.03	82.23	21 0 15	4456.8	27.58	213.67
110.00	9 39 35	1967.74	-29.28	19.39	53.81	108.48	10 12 22	1367.7	-26.48	11.33
110.00	20 48 41	4829.20	32.92	204.21	58.32	80.24	22 9 10	4229.2	31.22	195.40

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .5949 TRA-1.4115 TC3 -.1048 BAU  .1235   SGT 1007.3 SGR  466.4 SG3   51.1      ST   471.3 SR   407.8 SS   440.7
RDE -.6243 RRA -.3352 RC3  .0519 FAU .01622   RRT  .0557 RRF -.0545 RTF -.7212      CRT -.7109 CRS -.8190 CST  .9846
FDE -.4089 FRA  .6564 FC3 -.1779 BSP   2813   SGB 1110.0 R23 -.0034 R13 -.7214      LSA  724.6 MSA  239.4 SSA   15.0
BDE  .8623 BRA 1.4507 BC3  .1170 FSP   -116   SG1 1007.7 SG2  465.5 THA   1.88      EL1  577.6 EL2  234.0 ALF 140.77
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 14 1967

HELIOCENTRIC CONIC DISTANCE 179.631

```
RL  151.49 LAL   -.00 LOL 242.16 VL  22.019 GAL   9.27 AZL  92.96 HCA  68.55 SMA 104.72 ECC .46929 INC 2.9625 V1  29.412
RP  108.94 LAP  -2.76 LOP 310.68 VP  34.191 GAP -27.90 AZP  91.08 TAL 169.19 TAP 237.74 RCA  55.57 APO 153.86 V2  34.784
RC  48.377 GL   -7.66 GP    1.63 ZAL  67.51 ZAP  16.02 ETS 186.83 ZAE 159.98 ETE 146.70 ZAC 117.31 ETC  18.09 CLP  15.94
```

PLANETOCENTRIC CONIC

```
C3  71.078 VHL  8.431 DLA  -4.99 RAL 172.25 RAD 6569.4 VEL 13.872 PTH   2.53 VHP 16.648 DPA  17.18 RAP 150.55 ECC 2.1698
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 23 36	2372.88	-23.07	51.77	53.79	106.89	8 3 9	1772.9	-20.54	44.01
90.00	18 7 16	5327.18	27.51	242.30	58.03	82.99	19 36 3	4727.2	26.25	233.86
100.00	8 42 36	2118.05	-24.47	32.55	53.32	107.73	9 17 54	1518.1	-21.81	24.76
100.00	19 30 58	5057.24	28.96	222.23	57.82	82.25	20 55 15	4457.2	27.59	213.70
110.00	9 45 27	1921.25	-28.23	16.17	51.88	110.12	10 17 29	1321.3	-25.23	8.29
110.00	20 44 35	4826.81	32.89	204.03	57.10	80.13	22 5 2	4226.8	31.18	195.22

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .5964 TRA-1.4002 TC3 -.1006 BAU  .1108   SGT 1051.4 SGR  467.4 SG3   55.7      ST   496.4 SR   406.8 SS   464.8
RDE -.5909 RRA -.3190 RC3  .0590 FAU .01673   RRT  .0574 RRF -.0569 RTF -.7378      CRT -.7134 CRS -.8229 CST  .9841
FDE -.4295 FRA  .6750 FC3 -.2037 BSP   2988   SGB 1150.6 R23 -.0042 R13 -.7379      LSA  754.7 MSA  241.1 SSA   15.2
BDE  .8396 BRA 1.4360 BC3  .1166 FSP   -129   SG1 1051.8 SG2  466.5 THA   1.82      EL1  596.4 EL2  237.3 ALF 142.84
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 84.00 ARRIVAL DATE AUG 16 1967

HELIOCENTRIC CONIC DISTANCE 186.092

```
RL  151.49 LAL   -.00 LOL 242.16 VL  22.427 GAL   8.82 AZL  93.01 HCA  71.71 SMA 106.24 ECC .44790 INC 3.0146 V1  29.412
RP  108.94 LAP  -2.86 LOP 313.84 VP  34.456 GAP -26.57 AZP  90.95 TAL 168.81 TAP 240.51 RCA  58.65 APO 153.82 V2  34.784
RC  47.155 GL   -8.37 GP    1.70 ZAL  67.09 ZAP  14.56 ETS 187.63 ZAE 161.45 ETE 141.61 ZAC 115.68 ETC  17.74 CLP  14.46
```

PLANETOCENTRIC CONIC

```
C3  64.042 VHL  8.003 DLA  -5.83 RAL 172.39 RAD 6569.2 VEL 13.616 PTH   2.49 VHP 15.912 DPA  16.69 RAP 152.23 ECC 2.0540
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 30 32	2321.55	-22.01	48.37	51.92	108.28	8 9 14	1721.6	-19.31	40.74
90.00	18 1 25	5328.84	27.52	242.42	56.69	83.05	19 30 14	4728.8	26.27	233.98
100.00	8 49 7	2068.05	-23.39	29.23	51.42	109.16	9 23 35	1468.1	-20.56	21.57
100.00	19 25 31	5057.57	28.96	222.26	56.48	82.26	20 49 49	4457.6	27.59	213.73
110.00	9 51 2	1874.18	-27.09	12.99	49.90	111.69	10 22 17	1274.2	-23.90	5.28
110.00	20 40 5	4824.21	32.86	203.83	55.77	80.02	22 0 30	4224.2	31.14	195.04

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .5984 TRA-1.3877 TC3 -.0940 BAU  .0987   SGT 1097.0 SGR  467.6 SG3   60.7      ST   522.8 SR   405.0 SS   490.2
RDE -.5582 RRA -.3029 RC3  .0668 FAU .01728   RRT  .0592 RRF -.0596 RTF -.7536      CRT -.7162 CRS -.8270 CST  .9837
FDE -.4517 FRA  .6937 FC3 -.2336 BSP   3163   SGB 1192.6 R23 -.0051 R13 -.7537      LSA  786.6 MSA  242.1 SSA   15.4
BDE  .8183 BRA 1.4203 BC3  .1153 FSP   -142   SG1 1097.5 SG2  466.6 THA   1.77      EL1  616.3 EL2  239.7 ALF 144.91
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 86.00 ARRIVAL DATE AUG 18 1967

DISTANCE 192.598

HELIOCENTRIC CONIC
RL 151.49 LAL -.00 LOL 242.16 VL 22.807 GAL 8.37 AZL 93.06 HCA 74.87 SMA 107.72 ECC .42749 INC 3.0647 V1 29.412
RP 108.94 LAP -2.96 LOP 317.01 VP 34.705 GAP -25.30 AZP 90.80 TAL 168.46 TAP 243.33 RCA 61.67 APO 153.77 V2 34.785
RC 46.068 GL -9.13 GP 1.78 ZAL 66.76 ZAP 13.10 ETS 188.65 ZAE 162.87 ETE 135.39 ZAC 114.05 ETC 17.41 CLP 12.98

PLANETOCENTRIC CONIC
C3 57.754 VHL 7.600 DLA -6.68 RAL 172.43 RAD 6569.1 VEL 13.383 PTH 2.45 VHP 15.203 DPA 16.20 RAP 153.90 ECC 1.9505

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 37 12	2269.63	-20.87	45.00	50.00	109.59	8 15 2	1669.6	-18.01	37.49
90.00	17 55 7	5330.56	27.53	242.54	55.24	83.11	19 23 57	4730.6	26.29	234.10
100.00	8 55 22	2017.49	-22.22	25.93	49.47	110.52	9 28 59	1417.5	-19.23	18.41
100.00	19 19 38	5057.93	28.97	222.28	55.03	82.27	20 43 56	4457.9	27.59	213.75
110.00	9 56 20	1826.62	-25.85	9.85	47.88	113.18	10 26 46	1226.6	-22.49	2.31
110.00	20 35 10	4821.57	32.83	203.63	54.32	79.90	21 55 31	4221.6	31.09	194.84

DIFFERENTIAL CORRECTIONS
TOE .6007 TRA-1.3737 TC3 -.0845 BAU .0875
RDE -.5264 RRA -.2871 RC3 .0755 FAU .01790
FDE -.4756 FRA .7126 FC3 -.2683 BSP 3345
BDE .7987 BRA 1.4034 BC3 .1133 FSP -158

MID-COURSE EXECUTION ACCURACY
SGT 1144.1 SGR 467.1 SG3 66.2
RRT .0613 RRF -.0625 RTF -.7687
SGB 1235.8 R23 -.0060 R13 -.7688
SG1 1144.5 SG2 466.0 THA 1.72

ORBIT DETERMINATION ACCURACY
ST 550.4 SR 402.2 SS 517.2
CRT -.7195 CRS -.8312 CST .9832
LSA 820.6 MSA 242.3 SSA 15.5
EL1 637.7 EL2 241.1 ALF 146.95

LAUNCH DATE MAY 24 1967 FLIGHT TIME 88.00 ARRIVAL DATE AUG 20 1967

DISTANCE 199.144

HELIOCENTRIC CONIC
RL 151.49 LAL -.00 LOL 242.16 VL 23.161 GAL 7.94 AZL 93.11 HCA 78.03 SMA 109.16 ECC .40805 INC 3.1134 V1 29.412
RP 108.93 LAP -3.05 LOP 320.17 VP 34.941 GAP -24.08 AZP 90.65 TAL 168.16 TAP 246.19 RCA 64.62 APO 153.71 V2 34.787
RC 45.125 GL -9.94 GP 1.87 ZAL 66.52 ZAP 11.64 ETS 190.00 ZAE 164.17 ETE 127.79 ZAC 112.41 ETC 17.09 CLP 11.49

PLANETOCENTRIC CONIC
C3 52.136 VHL 7.221 DLA -7.53 RAL 172.38 RAD 6568.9 VEL 13.172 PTH 2.41 VHP 14.519 DPA 15.70 RAP 155.57 ECC 1.8580

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 43 37	2217.20	-19.63	41.65	48.04	110.83	8 20 34	1617.2	-16.62	34.26
90.00	17 48 19	5332.52	27.55	242.69	53.68	83.18	19 17 11	4732.5	26.32	234.23
100.00	9 1 20	1966.46	-20.97	22.66	47.49	111.81	9 34 7	1366.5	-17.82	15.27
100.00	19 13 17	5058.49	28.97	222.33	53.48	82.30	20 37 35	4458.5	27.60	213.79
110.00	10 1 19	1778.66	-24.53	6.75	45.83	114.59	10 30 58	1178.7	-21.01	359.37
110.00	20 29 47	4819.06	32.80	203.44	52.78	79.80	21 50 6	4219.1	31.05	194.66

DIFFERENTIAL CORRECTIONS
TOE .6036 TRA-1.3581 TC3 -.0717 BAU .0775
RDE -.4953 RRA -.2717 RC3 .0850 FAU .01859
FDE -.5014 FRA .7317 FC3 -.3086 BSP 3532
BDE .7808 BRA 1.3850 BC3 .1112 FSP -175

MID-COURSE EXECUTION ACCURACY
SGT 1192.4 SGR 465.7 SG3 72.3
RRT .0638 RRF -.0659 RTF -.7830
SGB 1280.1 R23 -.0071 R13 -.7831
SG1 1192.8 SG2 464.6 THA 1.68

ORBIT DETERMINATION ACCURACY
ST 579.4 SR 398.5 SS 545.8
CRT -.7233 CRS -.8356 CST .9829
LSA 856.6 MSA 241.8 SSA 15.7
EL1 660.5 EL2 241.4 ALF 148.96

LAUNCH DATE MAY 24 1967 FLIGHT TIME 90.00 ARRIVAL DATE AUG 22 1967

DISTANCE 205.725

HELIOCENTRIC CONIC
RL 151.49 LAL -.00 LOL 242.16 VL 23.491 GAL 7.52 AZL 93.16 HCA 81.19 SMA 110.56 ECC .38958 INC 3.1610 V1 29.412
RP 108.93 LAP -3.12 LOP 323.34 VP 35.162 GAP -22.91 AZP 90.48 TAL 167.90 TAP 249.09 RCA 67.49 APO 153.63 V2 34.790
RC 44.335 GL -10.78 GP 1.97 ZAL 66.37 ZAP 10.19 ETS 191.82 ZAE 165.22 ETE 118.67 ZAC 110.78 ETC 16.79 CLP 10.00

PLANETOCENTRIC CONIC
C3 47.121 VHL 6.865 DLA -8.39 RAL 172.24 RAD 6568.8 VEL 12.980 PTH 2.37 VHP 13.859 DPA 15.21 RAP 157.23 ECC 1.7755

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 49 47	2164.34	-18.32	38.33	46.04	111.98	8 25 51	1564.3	-15.18	31.06
90.00	17 41 1	5334.92	27.57	242.86	52.04	83.27	19 9 56	4734.9	26.35	234.40
100.00	9 7 3	1915.05	-19.63	19.42	45.47	113.01	9 38 58	1315.0	-16.35	12.17
100.00	19 6 25	5059.45	28.98	222.40	51.83	82.33	20 30 45	4459.4	27.62	213.86
110.00	10 6 1	1730.41	-23.13	3.70	43.76	115.90	10 34 52	1130.4	-19.46	356.49
110.00	20 23 56	4816.85	32.78	203.28	51.13	79.70	21 44 13	4216.9	31.01	194.50

DIFFERENTIAL CORRECTIONS
TOE .6072 TRA-1.3409 TC3 -.0551 BAU .0694
RDE -.4652 RRA -.2566 RC3 .0954 FAU .01935
FDE -.5296 FRA .7511 FC3 -.3555 BSP 3717
BDE .7649 BRA 1.3653 BC3 .1102 FSP -194

MID-COURSE EXECUTION ACCURACY
SGT 1242.0 SGR 463.5 SG3 79.0
RRT .0665 RRF -.0697 RTF -.7965
SGB 1325.6 R23 -.0082 R13 -.7967
SG1 1242.4 SG2 462.3 THA 1.65

ORBIT DETERMINATION ACCURACY
ST 609.9 SR 393.7 SS 576.4
CRT -.7277 CRS -.8401 CST .9826
LSA 895.1 MSA 240.5 SSA 15.9
EL1 685.0 EL2 240.5 ALF 150.92

LAUNCH DATE MAY 24 1967 FLIGHT TIME 92.00 ARRIVAL DATE AUG 24 1967

DISTANCE 212.337

HELIOCENTRIC CONIC
RL 151.49 LAL -.00 LOL 242.16 VL 23.797 GAL 7.11 AZL 93.21 HCA 84.35 SMA 111.91 ECC .37207 INC 3.2078 V1 29.412
RP 108.92 LAP -3.19 LOP 326.50 VP 35.371 GAP -21.79 AZP 90.32 TAL 167.68 TAP 252.04 RCA 70.27 APO 153.55 V2 34.793
RC 43.707 GL -11.67 GP 2.08 ZAL 66.32 ZAP 8.75 ETS 194.34 ZAE 165.92 ETE 108.09 ZAC 109.15 ETC 16.51 CLP 8.50

PLANETOCENTRIC CONIC
C3 42.648 VHL 6.531 DLA -9.26 RAL 172.00 RAD 6568.6 VEL 12.807 PTH 2.33 VHP 13.222 DPA 14.71 RAP 158.87 ECC 1.7019

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 55 43	2111.14	-16.93	35.04	44.02	113.04	8 30 54	1511.1	-13.67	27.88
90.00	17 33 10	5337.97	27.59	243.08	50.30	83.38	19 2 8	4738.0	26.39	234.62
100.00	9 12 31	1863.35	-18.23	16.23	43.43	114.11	9 43 34	1263.4	-14.82	9.09
100.00	18 59 3	5061.00	28.99	222.51	50.10	82.39	20 23 24	4461.0	27.64	213.97
110.00	10 10 26	1681.98	-21.66	.71	41.68	117.12	10 38 28	1082.0	-17.85	353.65
110.00	20 17 37	4815.14	32.76	203.15	49.41	79.63	21 37 52	4215.1	30.98	194.38

DIFFERENTIAL CORRECTIONS
TOE .6114 TRA-1.3224 TC3 -.0341 BAU .0639
RDE -.4358 RRA -.2421 RC3 .1068 FAU .02019
FDE -.5604 FRA .7709 FC3 -.4099 BSP 3907
BDE .7508 BRA 1.3444 BC3 .1121 FSP -215

MID-COURSE EXECUTION ACCURACY
SGT 1292.9 SGR 460.4 SG3 86.3
RRT .0699 RRF -.0742 RTF -.8095
SGB 1372.4 R23 -.0094 R13 -.8096
SG1 1293.4 SG2 459.1 THA 1.63

ORBIT DETERMINATION ACCURACY
ST 642.0 SR 387.8 SS 609.1
CRT -.7325 CRS -.8447 CST .9823
LSA 936.2 MSA 238.4 SSA 16.0
EL1 711.1 EL2 238.4 ALF 152.83

LAUNCH DATE MAY 24 1967 FLIGHT TIME 94.00 ARRIVAL DATE AUG 26 1967

HELIOCENTRIC CONIC DISTANCE 218.975

RL 151.49 LAL -.00 LOL 242.16 VL 24.082 GAL 6.71 AZL 93.25 HCA 87.52 SMA 113.21 ECC .35550 INC 3.2541 V1 29.412
RP 108.90 LAP -3.25 LOP 329.67 VP 35.567 GAP -20.71 AZP 90.14 TAL 167.52 TAP 255.03 RCA 72.97 APO 153.46 V2 34.797
RC 43.245 GL -12.61 GP 2.20 ZAL 66.36 ZAP 7.32 ETS 198.00 ZAE 166.15 ETE 96.55 ZAC 107.54 ETC 16.24 CLP 6.99

PLANETOCENTRIC CONIC

C3 38.662 VHL 6.218 DLA -10.14 RAL 171.66 RAD 6568.5 VEL 12.650 PTH 2.30 VHP 12.608 DPA 14.22 RAP 160.50 ECC 1.6363

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 1 25	2057.70	-15.48	31.79	41.98	114.01	8 35 43	1457.7	-12.11	24.73
90.00	17 24 46	5341.88	27.62	243.36	48.50	83.51	18 53 48	4741.9	26.44	234.89
100.00	9 17 45	1811.47	-16.75	13.08	41.37	115.12	9 47 56	1211.5	-13.23	6.06
100.00	18 51 8	5063.34	29.02	222.68	48.30	82.48	20 15 31	4463.3	27.67	214.13
110.00	10 14 35	1633.49	-20.13	357.79	39.59	118.23	10 41 48	1033.5	-16.19	350.87
110.00	20 10 47	4814.09	32.74	203.07	47.62	79.58	21 31 1	4214.1	30.96	194.30

DIFFERENTIAL CORRECTIONS
TDE .6167 TRA-1.3019 TC3 -.0080 BAU .0617
RDE -.4074 RRA -.2280 RC3 .1191 FAU .02113
FDE -.5944 FRA .7910 FC3 -.4732 BSP 4102
BDE .7391 BRA 1.3217 BC3 .1194 FSP -238

MID-COURSE EXECUTION ACCURACY
SGT 1344.7 SGR 456.6 SG3 94.4
RRT .0738 RRF -.0794 RTF -.8218
SGB 1420.1 R23 -.0109 R13 -.8219
SG1 1345.2 SG2 455.1 THA 1.62

ORBIT DETERMINATION ACCURACY
ST 675.7 SR 380.9 SS 644.1
CRT -.7380 CRS -.8495 CST .9822
LSA 980.2 MSA 235.6 SSA 16.2
EL1 739.2 EL2 234.9 ALF 154.68

LAUNCH DATE MAY 24 1967 FLIGHT TIME 96.00 ARRIVAL DATE AUG 28 1967

HELIOCENTRIC CONIC DISTANCE 225.636

RL 151.49 LAL -.00 LOL 242.16 VL 24.346 GAL 6.33 AZL 93.30 HCA 90.68 SMA 114.46 ECC .33985 INC 3.3001 V1 29.412
RP 108.89 LAP -3.30 LOP 332.84 VP 35.751 GAP -19.68 AZP 89.96 TAL 167.39 TAP 258.07 RCA 75.56 APO 153.36 V2 34.801
RC 42.956 GL -13.60 GP 2.34 ZAL 66.49 ZAP 5.94 ETS 203.61 ZAE 165.86 ETE 84.88 ZAC 105.93 ETC 15.99 CLP 5.46

PLANETOCENTRIC CONIC

C3 35.115 VHL 5.926 DLA -11.03 RAL 171.23 RAD 6568.4 VEL 12.509 PTH 2.26 VHP 12.015 DPA 13.74 RAP 162.12 ECC 1.5779

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 6 56	2004.10	-13.97	28.58	39.92	114.88	8 40 20	1404.1	-10.50	21.62
90.00	17 15 47	5346.84	27.66	243.72	46.62	83.69	18 44 54	4746.8	26.50	235.24
100.00	9 22 44	1759.51	-15.23	9.97	39.30	116.04	9 52 4	1159.5	-11.60	3.06
100.00	18 42 39	5066.66	29.04	222.92	46.43	82.60	20 7 6	4466.7	27.72	214.37
110.00	10 18 27	1585.05	-18.54	354.92	37.49	119.25	10 44 52	985.1	-14.50	348.14
110.00	20 3 26	4813.89	32.74	203.05	45.76	79.57	21 23 40	4213.9	30.96	194.29

DIFFERENTIAL CORRECTIONS
TDE .6228 TRA-1.2798 TC3 .0233 BAU .0631
RDE -.3798 RRA -.2145 RC3 .1325 FAU .02218
FDE -.6320 FRA .8115 FC3 -.5469 BSP 4298
BDE .7295 BRA 1.2976 BC3 .1345 FSP -264

MID-COURSE EXECUTION ACCURACY
SGT 1397.4 SGR 451.9 SG3 103.4
RRT .0786 RRF -.0856 RTF -.8333
SGB 1468.6 R23 -.0125 R13 -.8334
SG1 1397.9 SG2 450.3 THA 1.62

ORBIT DETERMINATION ACCURACY
ST 711.1 SR 372.7 SS 681.8
CRT -.7439 CRS -.8543 CST .9822
LSA 1027.3 MSA 232.0 SSA 16.3
EL1 769.1 EL2 230.3 ALF 156.46

LAUNCH DATE MAY 24 1967 FLIGHT TIME 98.00 ARRIVAL DATE AUG 30 1967

HELIOCENTRIC CONIC DISTANCE 232.315

RL 151.49 LAL -.00 LOL 242.16 VL 24.592 GAL 5.97 AZL 93.35 HCA 93.84 SMA 115.66 ECC .32510 INC 3.3463 V1 29.412
RP 108.87 LAP -3.34 LOP 336.01 VP 35.924 GAP -18.68 AZP 89.78 TAL 167.32 TAP 261.16 RCA 78.06 APO 153.26 V2 34.806
RC 42.841 GL -14.63 GP 2.49 ZAL 66.72 ZAP 4.63 ETS 212.82 ZAE 165.05 ETE 74.02 ZAC 104.33 ETC 15.75 CLP 3.91

PLANETOCENTRIC CONIC

C3 31.961 VHL 5.653 DLA -11.92 RAL 170.69 RAD 6568.3 VEL 12.383 PTH 2.24 VHP 11.444 DPA 13.28 RAP 163.71 ECC 1.5260

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 12 15	1950.44	-12.41	25.41	37.86	115.66	8 44 45	1350.4	-8.85	18.53
90.00	17 6 12	5353.05	27.71	244.17	44.69	83.91	18 35 25	4753.1	26.57	235.68
100.00	9 27 31	1707.58	-13.65	6.92	37.23	116.85	9 55 59	1107.6	-9.94	.10
100.00	18 33 36	5071.15	29.08	223.25	44.51	82.77	19 58 7	4471.1	27.78	214.69
110.00	10 22 3	1536.79	-16.91	352.13	35.40	120.16	10 47 40	936.8	-12.78	345.46
110.00	19 55 34	4814.69	32.75	203.11	43.85	79.61	21 15 48	4214.7	30.97	194.35

DIFFERENTIAL CORRECTIONS
TDE .6295 TRA-1.2562 TC3 .0604 BAU .0678
RDE -.3531 RRA -.2017 RC3 .1468 FAU .02335
FDE -.6737 FRA .8326 FC3 -.6324 BSP 4494
BDE .7217 BRA 1.2723 BC3 .1587 FSP -293

MID-COURSE EXECUTION ACCURACY
SGT 1450.8 SGR 446.4 SG3 113.4
RRT .0848 RRF -.0931 RTF -.8441
SGB 1517.9 R23 -.0142 R13 -.8442
SG1 1451.3 SG2 444.6 THA 1.65

ORBIT DETERMINATION ACCURACY
ST 747.9 SR 363.3 SS 722.2
CRT -.7500 CRS -.8591 CST .9822
LSA 1077.4 MSA 227.9 SSA 16.4
EL1 800.6 EL2 224.5 ALF 158.18

LAUNCH DATE MAY 24 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 1 1967

HELIOCENTRIC CONIC DISTANCE 239.008

RL 151.49 LAL -.00 LOL 242.16 VL 24.819 GAL 5.61 AZL 93.39 HCA 97.01 SMA 116.81 ECC .31123 INC 3.3928 V1 29.412
RP 108.86 LAP -3.37 LOP 339.18 VP 36.086 GAP -17.72 AZP 89.59 TAL 167.29 TAP 264.30 RCA 80.45 APO 153.16 V2 34.812
RC 42.900/GL -15.71 GP 2.65 ZAL 67.04 ZAP 3.53 ETS 228.96 ZAE 163.83 ETE 64.55 ZAC 102.76 ETC 15.52 CLP 2.33

PLANETOCENTRIC CONIC

C3 29.163 VHL 5.400 DLA -12.83 RAL 170.06 RAD 6568.2 VEL 12.269 PTH 2.21 VHP 10.893 DPA 12.83 RAP 165.29 ECC 1.4800

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 17 23	1896.79	-10.81	22.28	35.80	116.33	8 49 0	1296.8	-7.18	15.48
90.00	16 55 59	5360.71	27.76	244.72	42.72	84.18	18 25 20	4760.7	26.67	236.23
100.00	9 32 6	1655.76	-12.04	3.92	35.16	117.57	9 59 42	1055.8	-8.25	357.18
100.00	18 23 57	5076.98	29.13	223.68	42.54	82.99	19 48 34	4477.0	27.86	215.11
110.00	10 25 24	1488.83	-15.25	349.40	33.31	120.97	10 50 13	888.8	-11.03	342.84
110.00	19 47 9	4816.67	32.77	203.26	41.90	79.69	21 7 26	4216.7	31.01	194.49

DIFFERENTIAL CORRECTIONS
TDE .6373 TRA-1.2309 TC3 .1038 BAU .0751
RDE -.3272 RRA -.1895 RC3 .1621 FAU .02465
FDE -.7202 FRA .8543 FC3 -.7317 BSP 4686
BDE .7163 BRA 1.2454 BC3 .1925 FSP -325

MID-COURSE EXECUTION ACCURACY
SGT 1504.6 SGR 440.1 SG3 124.4
RRT .0923 RRF -.1023 RTF -.8543
SGB 1567.6 R23 -.0162 R13 -.8544
SG1 1505.2 SG2 438.1 THA 1.69

ORBIT DETERMINATION ACCURACY
ST 786.5 SR 352.7 SS 765.9
CRT -.7565 CRS -.8638 CST .9824
LSA 1131.1 MSA 223.2 SSA 16.5
EL1 834.1 EL2 217.5 ALF 159.83

LAUNCH DATE MAY 24 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 3 1967

HELIOCENTRIC CONIC DISTANCE 245.713

RL 151.49 LAL -.00 LOL 242.16 VL 25.030 GAL 5.28 AZL 93.44 HCA 100.18 SMA 117.90 ECC .29821 INC 3.4399 VI 29.412
RP 108.84 LAP -3.39 LOP 342.35 VP 36.237 GAP -16.80 AZP 89.39 TAL 167.31 TAP 267.49 RCA 82.74 APO 153.06 V2 34.819
RC 43.133 GL -16.83 GP 2.84 ZAL 67.46 ZAP 2.93 ETS 255.84 ZAE 162.31 ETE 56.67 ZAC 101.20 ETC 15.30 CLP .73

PLANETOCENTRIC CONIC

C3 26.685 VHL 5.166 DLA -13.74 RAL 169.32 RAD 6568.1 VEL 12.168 PTH 2.18 VHP 10.362 DPA 12.40 RAP 166.84 ECC 1.4392

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 22 24	1843.25	-9.17	19.20	33.75	116.91	8 53 7	1243.3	-5.49	12.45
90.00	16 45 8	5369.99	27.82	245.39	40.71	84.51	18 14 38	4770.0	26.77	236.88
100.00	9 36 30	1604.15	-10.39	.97	33.10	118.19	10 3 14	1004.1	-6.55	354.30
100.00	18 13 43	5084.32	29.19	224.21	40.54	83.27	19 38 27	4484.3	27.95	215.63
110.00	10 28 30	1441.27	-13.57	346.75	31.24	121.68	10 52 32	841.3	-9.28	340.27
110.00	19 38 12	4819.96	32.81	203.51	39.91	79.83	20 58 32	4220.0	31.06	194.73

DIFFERENTIAL CORRECTIONS
TDE .6461 TRA-1.2046 TC3 .1532 BAU .0839
RDE -.3021 RRA -.1780 RC3 .1784 FAU .02609
FDE -.7722 FRA .8769 FC3 -.8465 BSP 4872
BDE .7132 BRA 1.2177 BC3 .2352 FSP -361

MID-COURSE EXECUTION ACCURACY
SGT 1559.0 SGR 433.1 SG3 136.6
RRT .1017 RRF -.1135 RTF -.8637
SGB 1618.0 R23 -.0186 R13 -.8639
SG1 1559.6 SG2 430.7 THA 1.75

ORBIT DETERMINATION ACCURACY
ST 826.9 SR 340.6 SS 813.0
CRT -.7631 CRS -.8682 CST .9826
LSA 1188.7 MSA 218.0 SSA 16.6
EL1 869.5 EL2 209.4 ALF 161.44

LAUNCH DATE MAY 24 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 5 1967

HELIOCENTRIC CONIC DISTANCE 252.426

RL 151.49 LAL -.00 LOL 242.16 VL 25.225 GAL 4.95 AZL 93.49 HCA 103.34 SMA 118.93 ECC .28601 INC 3.4880 VI 29.412
RP 108.81 LAP -3.39 LOP 345.53 VP 36.379 GAP -15.91 AZP 89.19 TAL 167.38 TAP 270.72 RCA 84.92 APO 152.95 V2 34.826
RC 43.534 GL -18.00 GP 3.05 ZAL 67.96 ZAP 3.18 ETS 286.80 ZAE 160.60 ETE 50.26 ZAC 99.67 ETC 15.10 CLP -.91

PLANETOCENTRIC CONIC

C3 24.495 VHL 4.949 DLA -14.66 RAL 168.49 RAD 6568.0 VEL 12.078 PTH 2.16 VHP 9.851 DPA 12.00 RAP 168.36 ECC 1.4031

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 27 17	1789.88	-7.52	16.15	31.71	117.38	8 57 7	1189.9	-3.79	9.45
90.00	16 33 38	5381.06	27.89	246.20	38.67	84.91	18 3 19	4781.1	26.90	237.67
100.00	9 40 45	1552.85	-8.73	358.07	31.05	118.70	10 6 38	952.8	-4.83	351.45
100.00	18 2 51	5093.33	29.26	224.87	38.52	83.61	19 27 44	4493.3	28.07	216.27
110.00	10 31 23	1394.24	-11.87	344.16	29.17	122.29	10 54 38	794.2	-7.52	337.76
110.00	19 28 42	4824.70	32.87	203.87	37.91	80.04	20 49 7	4224.7	31.15	195.07

DIFFERENTIAL CORRECTIONS
TDE .6571 TRA-1.1734 TC3 .2102 BAU .0940
RDE -.2777 RRA -.1673 RC3 .1957 FAU .02771
FDE -.8309 FRA .9000 FC3 -.9795 BSP 5083
BDE .7134 BRA 1.1853 BC3 .2872 FSP -401

MID-COURSE EXECUTION ACCURACY
SGT 1610.4 SGR 425.4 SG3 150.3
RRT .1123 RRF -.1274 RTF -.8731
SGB 1665.7 R23 -.0223 R13 -.8733
SG1 1611.2 SG2 422.5 THA 1.82

ORBIT DETERMINATION ACCURACY
ST 869.6 SR 327.1 SS 864.0
CRT -.7707 CRS -.8723 CST .9833
LSA 1250.8 MSA 211.8 SSA 16.7
EL1 907.3 EL2 199.7 ALF 162.98

LAUNCH DATE MAY 24 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 7 1967

HELIOCENTRIC CONIC DISTANCE 259.144

RL 151.49 LAL -.00 LOL 242.16 VL 25.406 GAL 4.65 AZL 93.54 HCA 106.51 SMA 119.92 ECC .27462 INC 3.5374 VI 29.412
RP 108.79 LAP -3.39 LOP 348.70 VP 36.512 GAP -15.05 AZP 88.99 TAL 167.49 TAP 274.00 RCA 86.99 APO 152.85 V2 34.834
RC 44.099 GL -19.20 GP 3.28 ZAL 68.55 ZAP 4.18 ETS 308.39 ZAE 158.81 ETE 45.10 ZAC 98.18 ETC 14.90 CLP -2.59

PLANETOCENTRIC CONIC

C3 22.564 VHL 4.750 DLA -15.58 RAL 167.57 RAD 6567.9 VEL 11.998 PTH 2.14 VHP 9.358 DPA 11.63 RAP 169.85 ECC 1.3713

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 32 6	1736.72	-5.84	13.14	29.69	117.76	9 1 3	1136.7	-2.08	6.48
90.00	16 21 28	5394.10	27.97	247.14	36.63	85.38	17 51 22	4794.1	27.03	238.60
100.00	9 44 53	1501.91	-7.05	355.22	29.02	119.12	10 9 55	901.9	-3.12	348.64
100.00	17 51 22	5104.14	29.34	225.67	36.48	84.02	19 16 27	4504.1	28.20	217.05
110.00	10 34 4	1347.83	-10.17	341.64	27.13	122.81	10 56 32	747.8	-5.77	335.31
110.00	19 18 41	4830.98	32.94	204.35	35.90	80.31	20 39 12	4231.0	31.26	195.53

DIFFERENTIAL CORRECTIONS
TDE .6674 TRA-1.1455 TC3 .2732 BAU .1047
RDE -.2539 RRA -.1574 RC3 .2140 FAU .02952
FDE -.8971 FRA .9241 FC3-1.1327 BSP 5264
BDE .7140 BRA 1.1563 BC3 .3470 FSP -447

MID-COURSE EXECUTION ACCURACY
SGT 1665.2 SGR 417.1 SG3 165.5
RRT .1281 RRF -.1445 RTF -.8812
SGB 1716.7 R23 -.0244 R13 -.8814
SG1 1666.2 SG2 413.4 THA 1.96

ORBIT DETERMINATION ACCURACY
ST 912.8 SR 311.9 SS 919.2
CRT -.7762 CRS -.8759 CST .9836
LSA 1316.3 MSA 206.4 SSA 16.7
EL1 945.8 EL2 189.8 ALF 164.50

LAUNCH DATE MAY 24 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 9 1967

HELIOCENTRIC CONIC DISTANCE 265.863

RL 151.49 LAL -.00 LOL 242.16 VL 25.572 GAL 4.36 AZL 93.59 HCA 109.68 SMA 120.84 ECC .26399 INC 3.5885 VI 29.412
RP 108.76 LAP -3.38 LOP 351.88 VP 36.636 GAP -14.22 AZP 88.79 TAL 167.64 TAP 277.32 RCA 88.94 APO 152.75 V2 34.842
RC 44.820 GL -20.45 GP 3.54 ZAL 69.22 ZAP 5.59 ETS 320.65 ZAE 157.01 ETE 40.96 ZAC 96.72 ETC 14.72 CLP -4.32

PLANETOCENTRIC CONIC

C3 20.866 VHL 4.568 DLA -16.51 RAL 166.56 RAD 6567.8 VEL 11.927 PTH 2.12 VHP 8.884 DPA 11.30 RAP 171.30 ECC 1.3434

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 36 53	1683.81	-4.15	10.17	27.69	118.04	9 4 57	1083.8	-.37	3.53
90.00	16 8 38	5409.26	28.05	248.24	34.57	85.93	17 38 47	4809.3	27.19	239.68
100.00	9 48 55	1451.39	-5.37	352.41	27.02	119.45	10 13 7	851.4	-1.41	345.87
100.00	17 39 17	5116.91	29.43	226.61	34.44	84.50	19 4 34	4516.9	28.36	217.97
110.00	10 36 34	1302.13	-8.47	339.19	25.12	123.24	10 58 16	702.1	-4.04	332.91
110.00	19 8 8	4838.93	33.03	204.95	33.89	80.66	20 28 47	4238.9	31.39	196.11

DIFFERENTIAL CORRECTIONS
TDE .6793 TRA-1.1147 TC3 .3421 BAU .1155
RDE -.2306 RRA -.1483 RC3 .2332 FAU .03155
FDE -.9721 FRA .9493 FC3-1.3091 BSP 5445
BDE .7173 BRA 1.1245 BC3 .4140 FSP -497

MID-COURSE EXECUTION ACCURACY
SGT 1717.6 SGR 408.3 SG3 182.5
RRT .1471 RRF -.1660 RTF -.8888
SGB 1765.5 R23 -.0280 R13 -.8891
SG1 1718.7 SG2 403.6 THA 2.12

ORBIT DETERMINATION ACCURACY
ST 957.8 SR 295.1 SS 979.0
CRT -.7815 CRS -.8787 CST .9841
LSA 1386.5 MSA 200.6 SSA 16.6
EL1 986.2 EL2 178.8 ALF 165.99

LAUNCH DATE MAY 24 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 11 1967

HELIOCENTRIC CONIC DISTANCE 272.582

```
RL  151.49 LAL   -.00 LOL 242.16 VL  25.726 GAL   4.08 AZL  93.64 HCA 112.86 SMA 121.72 ECC .25412 INC 3.6417 V1  29.412
RP  108.74 LAP  -3.36 LOP 355.06 VP  36.752 GAP -13.41 AZP  88.58 TAL 167.82 TAP 280.68 RCA  90.79 APO 152.65 V2  34.851
RC  45.690 GL  -21.73 GP    3.84 ZAL  69.96 ZAP   7.21 ETS 327.77 ZAE 155.26 ETE  37.65 ZAC  95.30 ETC  14.54 CLP  -6.10
```

PLANETOCENTRIC CONIC

```
C3  19.380 VHL  4.402 DLA -17.44 RAL 165.47 RAD 6567.8 VEL 11.864 PTH   2.10 VHP  8.427 DPA  11.02 RAP 172.72 ECC 1.3189
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 41 42	1631.14	-2.46	7.22	25.73	118.22	9 8 53	1031.1	1.33	.59
90.00	15 55 7	5426.71	28.12	249.51	32.53	86.56	17 25 33	4826.7	27.35	240.93
100.00	9 52 55	1401.33	-3.69	349.65	25.05	119.68	10 16 16	801.3	.29	343.12
100.00	17 26 35	5131.74	29.52	227.70	32.41	85.07	18 52 0	4531.7	28.52	219.04
110.00	10 38 55	1257.22	-6.79	336.80	23.13	123.58	10 59 52	657.2	-2.33	330.56
110.00	18 57 4	4848.62	33.14	205.69	31.90	81.08	20 17 53	4248.6	31.55	196.82

DIFFERENTIAL CORRECTIONS

```
TDE  .6924 TRA-1.0820 TC3  .4162 BAU  .1262
RDE -.2076 RRA -.1401 RC3  .2534 FAU .03382
FDE-1.0574 FRA  .9756 FC3-1.5109 BSP   5619
BDE  .7229 BRA 1.0910 BC3  .4873 FSP   -554
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1767.9 SGR  399.2 SG3  201.4
RRT  .1707 RRF -.1928 RTF -.8959
SGB 1812.4 R23 -.0324 R13 -.8962
SG1 1769.2 SG2  393.0 THA   2.32
```

ORBIT DETERMINATION ACCURACY

```
ST  1004.2 SR   276.3 SS  1043.8
CRT -.7858 CRS -.8803 CST  .9847
LSA 1461.6 MSA  194.6 SSA   16.5
EL1 1028.0 EL2  166.9 ALF 167.46
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 13 1967

HELIOCENTRIC CONIC DISTANCE 279.298

```
RL  151.49 LAL   -.00 LOL 242.16 VL  25.867 GAL   3.82 AZL  93.70 HCA 116.03 SMA 122.54 ECC .24496 INC 3.6974 V1  29.412
RP  108.71 LAP  -3.32 LOP 358.23 VP  36.860 GAP -12.64 AZP  88.38 TAL 168.05 TAP 284.07 RCA  92.52 APO 152.55 V2  34.860
RC  46.700 GL  -23.04 GP    4.18 ZAL  70.77 ZAP   8.98 ETS 332.18 ZAE 153.61 ETE  35.02 ZAC  93.93 ETC  14.36 CLP  -7.95
```

PLANETOCENTRIC CONIC

```
C3  18.083 VHL  4.252 DLA -18.38 RAL 164.31 RAD 6567.7 VEL 11.810 PTH   2.09 VHP  7.989 DPA  10.80 RAP 174.10 ECC 1.2976
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 46 36	1578.67	-.77	4.29	23.81	118.31	9 12 55	978.7	3.02	357.66
90.00	15 40 54	5446.62	28.20	250.97	30.50	87.28	17 11 41	4846.6	27.52	242.37
100.00	9 56 56	1351.73	-2.01	346.92	23.12	119.83	10 19 28	751.7	1.97	340.40
100.00	17 13 16	5148.79	29.61	228.96	30.40	85.73	18 39 4	4548.8	28.71	220.27
110.00	10 41 10	1213.15	-5.12	334.48	21.18	123.84	11 1 23	613.2	-.64	328.26
110.00	18 45 31	4860.13	33.26	206.56	29.93	81.59	20 6 31	4260.1	31.74	197.67

DIFFERENTIAL CORRECTIONS

```
TDE  .7069 TRA-1.0478 TC3  .4962 BAU  .1371
RDE -.1847 RRA -.1329 RC3  .2748 FAU .03639
FDE-1.1549 FRA 1.0032 FC3-1.7420 BSP   5801
BDE  .7306 BRA 1.0562 BC3  .5672 FSP   -619
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1816.1 SGR  390.1 SG3  222.7
RRT  .2008 RRF -.2264 RTF -.9027
SGB 1857.5 R23 -.0375 R13 -.9031
SG1 1817.9 SG2  381.8 THA   2.58
```

ORBIT DETERMINATION ACCURACY

```
ST  1051.8 SR   255.4 SS  1114.3
CRT -.7882 CRS -.8802 CST  .9854
LSA 1541.9 MSA  188.7 SSA   16.3
EL1 1071.3 EL2  154.3 ALF 168.93
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 114.00 ARRIVAL DATE SEP 15 1967

HELIOCENTRIC CONIC DISTANCE 286.008

```
RL  151.49 LAL   -.00 LOL 242.16 VL  25.997 GAL   3.57 AZL  93.76 HCA 119.20 SMA 123.30 ECC .23648 INC 3.7563 V1  29.412
RP  108.68 LAP  -3.28 LOP   1.42 VP  36.960 GAP -11.89 AZP  88.17 TAL 168.30 TAP 287.50 RCA  94.14 APO 152.46 V2  34.870
RC  47.841 GL  -24.38 GP    4.57 ZAL  71.63 ZAP  10.86 ETS 335.07 ZAE 152.09 ETE  32.95 ZAC  92.62 ETC  14.20 CLP  -9.86
```

PLANETOCENTRIC CONIC

```
C3  16.958 VHL  4.118 DLA -19.32 RAL 163.07 RAD 6567.7 VEL 11.762 PTH   2.08 VHP  7.568 DPA  10.65 RAP 175.43 ECC 1.2791
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 51 41	1526.31	.92	1.37	21.95	118.30	9 17 8	926.3	4.70	354.73
90.00	15 25 59	5469.21	28.26	252.62	28.51	88.11	16 57 8	4869.2	27.70	244.00
100.00	10 1 2	1302.55	-.34	344.22	21.24	119.89	10 22 44	702.5	3.64	337.70
100.00	16 59 19	5168.20	29.70	230.40	28.43	86.48	18 25 28	4568.2	28.90	221.68
110.00	10 43 21	1169.95	-3.48	332.21	19.28	124.03	11 2 51	570.0	1.01	326.00
110.00	18 33 30	4873.56	33.38	207.59	28.00	82.19	19 54 44	4273.6	31.94	198.66

DIFFERENTIAL CORRECTIONS

```
TDE  .7217 TRA-1.0127 TC3  .5783 BAU  .1474
RDE -.1617 RRA -.1266 RC3  .2974 FAU .03926
FDE-1.2662 FRA 1.0322 FC3-2.0040 BSP   5958
BDE  .7396 BRA 1.0206 BC3  .6503 FSP   -692
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1861.3 SGR  381.4 SG3  246.6
RRT  .2387 RRF -.2682 RTF -.9088
SGB 1900.0 R23 -.0436 R13 -.9093
SG1 1863.6 SG2  369.9 THA   2.92
```

ORBIT DETERMINATION ACCURACY

```
ST  1099.6 SR   232.0 SS  1190.4
CRT -.7870 CRS -.8772 CST  .9862
LSA 1626.7 MSA  183.2 SSA   16.1
EL1 1114.9 EL2  141.2 ALF 170.42
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 116.00 ARRIVAL DATE SEP 17 1967

HELIOCENTRIC CONIC DISTANCE 292.711

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.116 GAL   3.34 AZL  93.82 HCA 122.38 SMA 124.02 ECC .22867 INC 3.8190 V1  29.412
RP  108.64 LAP  -3.22 LOP   4.60 VP  37.054 GAP -11.17 AZP  87.95 TAL 168.58 TAP 290.96 RCA  95.66 APO 152.37 V2  34.881
RC  49.103 GL  -25.74 GP    5.02 ZAL  72.54 ZAP  12.86 ETS 337.01 ZAE 150.73 ETE  31.36 ZAC  91.36 ETC  14.03 CLP -11.86
```

PLANETOCENTRIC CONIC

```
C3  15.989 VHL  3.999 DLA -20.25 RAL 161.78 RAD 6567.6 VEL 11.721 PTH   2.07 VHP  7.164 DPA  10.58 RAP 176.71 ECC 1.2631
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 57 4	1473.87	2.61	358.45	20.15	118.21	9 21 38	873.9	6.36	351.78
90.00	15 10 18	5494.73	28.30	254.48	26.55	89.04	16 41 53	4894.7	27.87	245.84
100.00	10 5 18	1253.68	1.31	341.54	19.43	119.87	10 26 12	653.7	5.28	335.00
100.00	16 44 45	5190.16	29.78	232.02	26.50	87.33	18 11 16	4590.2	29.10	223.29
110.00	10 45 31	1127.61	-1.87	330.00	17.44	124.14	11 4 19	527.6	2.63	323.79
110.00	18 21 1	4888.98	33.52	208.77	26.12	82.87	19 42 30	4289.0	32.17	199.80

DIFFERENTIAL CORRECTIONS

```
TDE  .7393 TRA -.9746 TC3  .6658 BAU  .1581
RDE -.1382 RRA -.1214 RC3  .3216 FAU .04252
FDE-1.3952 FRA 1.0616 FC3-2.3025 BSP   6155
BDE  .7521 BRA  .9821 BC3  .7394 FSP   -776
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1902.9 SGR  373.8 SG3  273.4
RRT  .2856 RRF -.3198 RTF -.9152
SGB 1939.3 R23 -.0510 R13 -.9158
SG1 1906.0 SG2  357.7 THA   3.33
```

ORBIT DETERMINATION ACCURACY

```
ST  1149.7 SR   205.8 SS  1274.0
CRT -.7810 CRS -.8696 CST  .9871
LSA 1719.2 MSA  177.2 SSA   15.7
EL1 1161.0 EL2  127.3 ALF 171.94
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 118.00 ARRIVAL DATE SEP 19 1967

HELIOCENTRIC CONIC DISTANCE 299.406

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.225 GAL   3.12 AZL  93.89 HCA 125.56 SMA 124.68 ECC .22148 INC 3.8863 V1  29.412
RP  108.61 LAP  -3.16 LOP   7.78 VP  37.141 GAP -10.46 AZP  87.74 TAL 168.88 TAP 294.44 RCA  97.07 APO 152.29 V2  34.891
RC   50.476 GL  -27.12 GP    5.53 ZAL  73.48 ZAP  14.99 ETS 338.34 ZAE 149.54 ETE  30.21 ZAC  90.18 ETC  13.87 CLP -13.95
```

PLANETOCENTRIC CONIC

```
C3  15.162 VHL  3.894 DLA -21.19 RAL 160.45 RAD 6567.6 VEL 11.685 PTH   2.06 VHP  6.778 DPA  10.60 RAP 177.93 ECC 1.2495
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 2 54	1421.05	4.30	355.49	18.43	118.01	9 26 35	821.1	8.02	348.78
90.00	14 53 49	5523.57	28.32	256.59	24.64	90.10	16 25 52	4923.6	28.03	247.94
100.00	10 9 51	1204.94	2.96	338.86	17.69	119.76	10 29 56	604.9	6.90	332.29
100.00	16 29 32	5214.91	29.85	233.86	24.62	88.30	17 56 27	4614.9	29.29	225.10
110.00	10 47 47	1086.08	-.28	327.83	15.67	124.18	11 5 53	486.1	4.21	321.62
110.00	18 8 6	4906.54	33.66	210.13	24.31	83.66	19 29 53	4306.5	32.42	201.11

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE   .7549 TRA -.9376 TC3   .7481 BAU  .1672   SGT 1939.7 SGR  368.3 SG3  303.5     ST  1196.3 SR    176.5 SS  1363.2
RDE -.1137 RRA -.1173 RC3   .3477 FAU .04615   RRT   .3442 RRF -.3832 RTF -.9202    CRT -.7628 CRS -.8527 CST   .9878
FDE-1.5417 FRA 1.0941 FC3-2.6351 BSP   6300   SGB 1974.4 R23 -.0598 R13 -.9210    LSA 1813.9 MSA  172.6 SSA    15.3
BDE   .7634 BRA   .9449 BC3   .8250 FSP   -870   SG1 1944.0 SG2  345.0 THA   3.86    EL1 1203.9 EL2  113.4 ALF 173.52
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 120.00 ARRIVAL DATE SEP 21 1967

HELIOCENTRIC CONIC DISTANCE 306.089

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.324 GAL   2.92 AZL  93.96 HCA 128.74 SMA 125.29 ECC .21489 INC 3.9592 V1  29.412
RP  108.58 LAP  -3.09 LOP  10.97 VP  37.221 GAP  -9.79 AZP  87.52 TAL 169.20 TAP 297.94 RCA  98.37 APO 152.22 V2  34.903
RC   51.950 GL  -28.51 GP    6.13 ZAL  74.44 ZAP  17.24 ETS 339.24 ZAE 148.54 ETE  29.46 ZAC  89.08 ETC  13.71 CLP -16.14
```

PLANETOCENTRIC CONIC

```
C3  14.466 VHL  3.803 DLA -22.13 RAL 159.07 RAD 6567.6 VEL 11.656 PTH   2.05 VHP  6.409 DPA  10.74 RAP 179.09 ECC 1.2381
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 9 22	1367.39	6.01	352.47	16.81	117.72	9 32 10	767.4	9.68	345.71
90.00	14 36 24	5556.24	28.29	258.98	22.80	91.30	16 9 0	4956.2	28.17	250.32
100.00	10 14 51	1156.05	4.61	336.17	16.04	119.57	10 34 7	556.1	8.51	329.56
100.00	16 13 36	5242.81	29.89	235.93	22.81	89.39	17 40 59	4642.8	29.48	227.15
110.00	10 50 12	1045.24	1.28	325.70	13.97	124.16	11 7 37	445.2	5.76	319.47
110.00	17 54 44	4926.39	33.80	211.66	22.57	84.56	19 16 51	4326.4	32.68	202.60

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE   .7704 TRA -.8997 TC3   .8252 BAU  .1754   SGT 1970.3 SGR  366.2 SG3  337.2     ST  1240.9 SR    143.8 SS  1459.7
RDE -.0877 RRA -.1145 RC3   .3764 FAU .05020   RRT   .4140 RRF -.4585 RTF -.9247    CRT -.7216 CRS -.8163 CST   .9885
FDE-1.7108 FRA 1.1282 FC3-3.0043 BSP   6402   SGB 2004.0 R23 -.0708 R13 -.9257    LSA 1913.8 MSA  168.5 SSA    14.7
BDE   .7753 BRA   .9070 BC3   .9070 FSP   -974   SG1 1976.3 SG2  332.4 THA   4.53    EL1 1245.3 EL2   99.2 ALF 175.19
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 122.00 ARRIVAL DATE SEP 23 1967

HELIOCENTRIC CONIC DISTANCE 312.760

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.415 GAL   2.73 AZL  94.04 HCA 131.92 SMA 125.86 ECC .20888 INC 4.0390 V1  29.412
RP  108.54 LAP  -3.00 LOP  14.15 VP  37.296 GAP  -9.13 AZP  87.30 TAL 169.53 TAP 301.45 RCA  99.57 APO 152.15 V2  34.914
RC   53.515 GL  -29.91 GP    6.83 ZAL  75.41 ZAP  19.63 ETS 339.82 ZAE 147.73 ETE  29.12 ZAC  88.07 ETC  13.54 CLP -18.45
```

PLANETOCENTRIC CONIC

```
C3  13.889 VHL  3.727 DLA -23.08 RAL 157.68 RAD 6567.5 VEL 11.631 PTH   2.04 VHP  6.057 DPA  11.02 RAP 180.19 ECC 1.2286
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 16 47	1312.16	7.75	349.34	15.31	117.32	9 38 39	712.2	11.35	342.52
90.00	14 17 51	5593.53	28.20	261.71	21.03	92.66	15 51 4	4993.5	28.27	253.04
100.00	10 20 29	1106.55	6.27	333.43	14.51	119.29	10 38 55	506.6	10.12	326.76
100.00	15 56 50	5274.36	29.89	238.28	21.09	90.62	17 24 44	4674.4	29.65	229.48
110.00	10 52 54	1004.90	2.82	323.60	12.37	124.08	11 9 39	404.9	7.28	317.34
110.00	17 40 54	4948.78	33.93	213.39	20.93	85.58	19 3 23	4348.8	32.95	204.29

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE   .7853 TRA -.8610 TC3   .8956 BAU  .1828   SGT 1993.5 SGR  369.8 SG3  375.0     ST  1282.4 SR    108.0 SS  1563.5
RDE -.0595 RRA -.1130 RC3   .4086 FAU .05475   RRT   .4945 RRF -.5446 RTF -.9286    CRT -.6197 CRS -.7260 CST   .9892
FDE-1.9052 FRA 1.1641 FC3-3.4125 BSP   6499   SGB 2027.5 R23 -.0843 R13 -.9300    LSA 2018.2 MSA  164.9 SSA    14.1
BDE   .7876 BRA   .8684 BC3   .9844 FSP   -1092   SG1 2002.1 SG2  320.0 THA   5.38    EL1 1284.1 EL2   84.6 ALF 177.00
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 124.00 ARRIVAL DATE SEP 25 1967

HELIOCENTRIC CONIC DISTANCE 319.418

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.497 GAL   2.56 AZL  94.13 HCA 135.11 SMA 126.38 ECC .20340 INC 4.1272 V1  29.412
RP  108.50 LAP  -2.91 LOP  17.34 VP  37.366 GAP  -8.49 AZP  87.07 TAL 169.86 TAP 304.97 RCA 100.68 APO 152.09 V2  34.926
RC   55.163 GL  -31.33 GP    7.65 ZAL  76.37 ZAP  22.19 ETS 340.17 ZAE 147.10 ETE  29.19 ZAC  87.16 ETC  13.38 CLP -20.89
```

PLANETOCENTRIC CONIC

```
C3  13.425 VHL  3.664 DLA -24.04 RAL 156.27 RAD 6567.5 VEL 11.611 PTH   2.03 VHP  5.723 DPA  11.47 RAP 181.22 ECC 1.2209
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 25 33	1254.14	9.55	346.03	13.95	116.79	9 46 27	654.1	13.07	339.12
90.00	13 57 49	5636.70	28.03	264.85	19.34	94.23	15 31 46	5036.7	28.32	256.20
100.00	10 27 1	1055.74	7.95	330.60	13.10	118.91	10 44 36	455.7	11.75	323.87
100.00	15 39 3	5310.33	29.83	240.95	19.45	92.03	17 7 33	4710.3	29.79	232.15
110.00	10 56 1	964.78	4.35	321.49	10.89	123.94	11 12 6	364.8	8.78	315.20
110.00	17 26 32	4974.05	34.05	215.36	19.40	86.74	18 49 26	4374.1	33.22	206.22

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE   .7992 TRA -.8220 TC3   .9547 BAU  .1891   SGT 2008.0 SGR  381.7 SG3  417.2     ST  1319.3 SR     73.3 SS  1675.5
RDE -.0279 RRA -.1129 RC3   .4452 FAU .05981   RRT   .5815 RRF -.6371 RTF -.9319    CRT -.3095 CRS -.4387 CST   .9898
FDE-2.1299 FRA 1.2017 FC3-3.8571 BSP   6565   SGB 2044.0 R23 -.1009 R13 -.9338    LSA 2127.6 MSA  162.0 SSA    13.3
BDE   .7997 BRA   .8297 BC3 1.0534 FSP   -1225   SG1 2020.5 SG2  308.6 THA   6.46    EL1 1319.5 EL2   69.7 ALF 179.01
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 126.00 ARRIVAL DATE SEP 27 1967

HELIOCENTRIC CONIC DISTANCE 326.061

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.571 GAL   2.41 AZL  94.23 HCA 138.30 SMA 126.86 ECC .19845 INC 4.2260 V1  29.412
RP  108.46 LAP  -2.81 LOP  20.53 VP  37.430 GAP  -7.87 AZP  86.84 TAL 170.20 TAP 308.49 RCA 101.68 APO 152.03 V2  34.938
RC  56.885 GL  -32.76 GP    8.63 ZAL  77.32 ZAP  24.94 ETS 340.32 ZAE 146.65 ETE  29.72 ZAC  86.35 ETC  13.21 CLP -23.49
```

PLANETOCENTRIC CONIC

```
C3  13.068 VHL  3.615 DLA -25.02 RAL 154.85 RAD 6567.5 VEL 11.595 PTH   2.03 VHP  5.407 DPA  12.11 RAP 182.19 ECC 1.2151
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 36 23	1191.28	11.45	342.39	12.77	116.07	9 56 14	591.3	14.87	335.38
90.00	13 35 42	5687.89	27.71	268.56	17.72	96.07	15 10 30	5087.9	28.26	259.94
100.00	10 34 51	1002.49	9.69	327.60	11.85	118.42	10 51 34	402.5	13.41	320.79
100.00	15 19 55	5351.91	29.69	244.04	17.91	93.65	16 49 7	4751.9	29.88	235.24
110.00	10 59 44	924.44	5.88	319.37	9.53	123.73	11 15 9	324.4	10.27	313.03
110.00	17 11 31	5002.73	34.13	217.59	17.99	88.06	18 34 54	4402.7	33.49	208.41

DIFFERENTIAL CORRECTIONS

```
TDE  .8137 TRA -.7805 TC3 1.0053 BAU  .1952
RDE  .0083 RRA -.1144 RC3  .4879 FAU .06553
FDE-2.3923 FRA 1.2383 FC3-4.3412 BSP   6650
BDE  .8138 BRA  .7888 BC3 1.1175 FSP  -1379
```

MID-COURSE EXECUTION ACCURACY

```
SGT 2013.7 SGR  405.8 SG3  464.6
RRT  .6690 RRF -.7290 RTF -.9353
SGB 2054.2 R23 -.1200 R13 -.9379
SG1 2032.4 SG2  298.9 THA   7.85
```

ORBIT DETERMINATION ACCURACY

```
ST  1353.4 SR    62.4 SS  1797.8
CRT  .4958 CRS  .3754 CST  .9905
LSA 2245.5 MSA  158.9 SSA   12.5
EL1 1353.7 EL2   54.2 ALF   1.31
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 128.00 ARRIVAL DATE SEP 29 1967

HELIOCENTRIC CONIC DISTANCE 332.689

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.638 GAL   2.26 AZL  94.34 HCA 141.49 SMA 127.29 ECC .19397 INC 4.3379 V1  29.412
RP  108.43 LAP  -2.70 LOP  23.73 VP  37.489 GAP  -7.27 AZP  86.60 TAL 170.52 TAP 312.01 RCA 102.60 APO 151.98 V2  34.951
RC  58.673 GL  -34.22 GP    9.79 ZAL  78.24 ZAP  27.89 ETS 340.30 ZAE 146.36 ETE  30.77 ZAC  85.66 ETC  13.04 CLP -26.25
```

PLANETOCENTRIC CONIC

```
C3  12.817 VHL  3.580 DLA -26.02 RAL 153.44 RAD 6567.5 VEL 11.585 PTH   2.03 VHP  5.111 DPA  12.99 RAP 183.08 ECC 1.2109
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 50 35	1119.60	13.56	338.18	11.82	115.10	10 9 14	519.6	16.83	331.04
90.00	13 10 15	5751.23	27.17	273.12	16.16	98.29	14 46 6	5151.2	28.04	264.56
100.00	10 44 39	944.96	11.53	324.32	10.79	117.77	11 0 24	345.0	15.16	317.41
100.00	14 58 51	5401.10	29.42	247.67	16.47	95.54	16 28 52	4801.1	29.88	238.89
110.00	11 4 20	883.24	7.43	317.19	8.33	123.46	11 19 3	283.2	11.78	310.80
110.00	16 55 40	5035.59	34.18	220.16	16.72	89.57	18 19 36	4435.6	33.74	210.94

DIFFERENTIAL CORRECTIONS

```
TDE  .8232 TRA -.7402 TC3 1.0325 BAU  .1995
RDE  .0509 RRA -.1178 RC3  .5380 FAU .07173
FDE-2.6914 FRA 1.2768 FC3-4.8452 BSP   6656
BDE  .8248 BRA  .7495 BC3 1.1643 FSP  -1545
```

MID-COURSE EXECUTION ACCURACY

```
SGT 2004.9 SGR  446.2 SG3  516.7
RRT  .7476 RRF -.8113 RTF -.9372
SGB 2054.0 R23 -.1436 R13 -.9410
SG1 2033.1 SG2  292.2 THA   9.65
```

ORBIT DETERMINATION ACCURACY

```
ST  1375.7 SR   103.6 SS  1926.3
CRT  .9295 CRS  .8742 CST  .9909
LSA 2364.1 MSA  157.2 SSA   11.6
EL1 1379.1 EL2   38.1 ALF   4.01
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 1 1967

HELIOCENTRIC CONIC DISTANCE 339.300

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.698 GAL   2.13 AZL  94.47 HCA 144.68 SMA 127.68 ECC .18996 INC 4.4669 V1  29.412
RP  108.39 LAP  -2.58 LOP  26.92 VP  37.543 GAP  -6.69 AZP  86.35 TAL 170.84 TAP 315.51 RCA 103.43 APO 151.94 V2  34.964
RC  60.521 GL  -35.71 GP   11.19 ZAL  79.12 ZAP  31.09 ETS 340.15 ZAE 146.18 ETE  32.42 ZAC  85.09 ETC  12.87 CLP -29.19
```

PLANETOCENTRIC CONIC

```
C3  12.674 VHL  3.560 DLA -27.07 RAL 152.04 RAD 6567.5 VEL 11.578 PTH   2.02 VHP  4.835 DPA  14.16 RAP 183.91 ECC 1.2086
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 11 15	1029.28	16.10	332.77	11.21	113.61	10 28 25	429.3	19.16	325.43
90.00	12 38 23	5836.72	26.19	279.18	14.59	101.17	14 15 39	5236.7	27.47	270.75
100.00	10 57 33	879.72	13.57	320.56	9.98	116.89	11 12 13	279.7	17.07	313.51
100.00	14 34 46	5461.51	28.94	252.09	15.11	97.82	16 5 48	4861.5	29.72	243.38
110.00	11 10 8	840.24	9.04	314.90	7.31	123.11	11 24 8	240.2	13.34	308.44
110.00	16 38 41	5073.77	34.16	223.14	15.60	91.34	18 3 15	4473.8	33.97	213.90

DIFFERENTIAL CORRECTIONS

```
TDE  .8303 TRA -.6990 TC3 1.0371 BAU  .2028
RDE  .1025 RRA -.1233 RC3  .5976 FAU .07845
FDE-3.0373 FRA 1.3129 FC3-5.3586 BSP   6638
BDE  .8366 BRA  .7098 BC3 1.1970 FSP  -1730
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1981.8 SGR  507.9 SG3  573.7
RRT  .8110 RRF -.8774 RTF -.9384
SGB 2045.8 R23 -.1702 R13 -.9441
SG1 2025.0 SG2  290.8 THA  11.99
```

ORBIT DETERMINATION ACCURACY

```
ST  1389.2 SR   178.5 SS  2064.3
CRT  .9926 CRS  .9701 CST  .9913
LSA 2489.7 MSA  155.8 SSA   10.7
EL1 1400.4 EL2   21.5 ALF   7.27
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 3 1967

HELIOCENTRIC CONIC DISTANCE 345.895

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.752 GAL   2.02 AZL  94.62 HCA 147.87 SMA 128.04 ECC .18639 INC 4.6180 V1  29.412
RP  108.35 LAP  -2.45 LOP  30.11 VP  37.594 GAP  -6.12 AZP  86.09 TAL 171.13 TAP 319.00 RCA 104.17 APO 151.90 V2  34.977
RC  62.420 GL  -37.25 GP   12.90 ZAL  79.96 ZAP  34.56 ETS 339.89 ZAE 146.04 ETE  34.80 ZAC  84.65 ETC  12.71 CLP -32.34
```

PLANETOCENTRIC CONIC

```
C3  12.646 VHL  3.556 DLA -28.19 RAL 150.64 RAD 6567.5 VEL 11.577 PTH   2.02 VHP  4.582 DPA  15.69 RAP 184.70 ECC 1.2081
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 55 37	865.14	20.28	322.54	11.42	110.19	11 10 3	265.1	22.85	314.81
90.00	11 42 52	711.87	23.55	312.50	12.58	106.19	11 54 44	111.9	25.55	304.40
100.00	11 16 2	799.12	16.00	315.80	9.52	115.59	11 29 21	199.1	19.32	308.58
100.00	14 5 9	5541.17	28.07	257.85	13.78	100.73	15 37 30	4941.2	29.26	249.25
110.00	11 17 40	793.97	10.75	312.41	6.51	122.65	11 30 54	194.0	14.98	305.86
110.00	16 20 0	5119.08	34.03	226.67	14.64	93.43	17 45 19	4519.1	34.13	217.43

DIFFERENTIAL CORRECTIONS

```
TDE  .8348 TRA -.6560 TC3 1.0231 BAU  .2067
RDE  .1668 RRA -.1309 RC3  .6698 FAU .08578
FDE-3.4365 FRA 1.3413 FC3-5.8728 BSP   6636
BDE  .8513 BRA  .6689 BC3 1.2228 FSP  -1938
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1943.4 SGR  597.0 SG3  635.6
RRT  .8577 RRF -.9255 RTF -.9392
SGB 2033.0 R23 -.1957 R13 -.9477
SG1 2011.3 SG2  296.6 THA  15.10
```

ORBIT DETERMINATION ACCURACY

```
ST  1392.5 SR   278.5 SS  2211.9
CRT  .9994 CRS  .9913 CST  .9916
LSA 2624.0 MSA  154.4 SSA    9.7
EL1 1420.1 EL2    9.7 ALF  11.30
```

```
LAUNCH DATE  MAY 24 1967                          FLIGHT TIME 134.00                          ARRIVAL DATE  OCT  5 1967

  HELIOCENTRIC CONIC                              DISTANCE 352.472
   RL  151.49 LAL   -.00 LOL 242.16 VL  26.799 GAL   1.92 AZL  94.80 HCA 151.07 SMA 128.35 ECC .18322 INC 4.7987 V1  29.412
   RP  108.31 LAP  -2.32 LOP  33.31 VP  37.640 GAP  -5.57 AZP  85.80 TAL 171.40 TAP 322.47 RCA 104.83 APO 151.87 V2  34.990
   RC  64.367 GL  -38.87 GP   14.99 ZAL  80.74 ZAP  38.35 ETS 339.52 ZAE 145.85 ETE  38.03 ZAC  84.34 ETC  12.55 CLP -35.72
  PLANETOCENTRIC CONIC
   C3  12.748 VHL  3.570 DLA -29.40 RAL 149.25 RAD 6567.5 VEL 11.582 PTH   2.03 VHP  4.355 DPA  17.66 RAP 185.46 ECC 1.2098
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT    INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      81.76     10  5 55   1009.15      22.77      334.06      11.08      109.11   10 22 44     409.1       25.16      326.12
      98.24     12 21 26   5859.36      22.77      279.82      11.08      109.10   13 59  6    5259.4       25.17      271.89
     100.00     11 49 15    674.48      19.51      308.21       9.73      113.11   12  0 29      74.5       22.47      300.66
     100.00     13 20 48   5669.26      26.11      266.87      12.21      105.09   14 55 17    5069.3       27.93      258.54
     110.00     11 27 49    741.96      12.64      309.57       6.01      122.03   11 40 11     142.0       16.79      302.91
     110.00     15 58 43   5174.54      33.72      230.98      13.84       95.95   17 24 57    4574.5       34.18      221.76
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
   TDE  .8315 TRA -.6151 TC3  .9720 BAU  .2097     SGT 1883.1 SGR  719.1 SG3  699.6          ST  1377.2 SR   406.5 SS  2363.6
   RDE  .2484 RRA -.1415 RC3  .7546 FAU .09307     RRT  .8870 RRF -.9570 RTF -.9380          CRT  .9981 CRS  .9972 CST  .9917
   FDE-3.8847 FRA 1.3658 FC3-6.3207 BSP   6548     SGB 2015.8 R23 -.2189 R13 -.9514          LSA 2761.2 MSA  154.2 SSA    8.7
   BDE  .8679 BRA  .6312 BC3 1.2306 FSP  -2146     SG1 1991.1 SG2  314.0 THA  19.21          EL1 1435.7 EL2   23.7 ALF  16.42

LAUNCH DATE  MAY 24 1967                          FLIGHT TIME 136.00                          ARRIVAL DATE  OCT  7 1967

  HELIOCENTRIC CONIC                              DISTANCE 359.031
   RL  151.49 LAL   -.00 LOL 242.16 VL  26.841 GAL   1.83 AZL  95.02 HCA 154.27 SMA 128.63 ECC .18043 INC 5.0202 V1  29.412
   RP  108.27 LAP  -2.18 LOP  36.51 VP  37.682 GAP  -5.03 AZP  85.48 TAL 171.64 TAP 325.91 RCA 105.42 APO 151.84 V2  35.003
   RC  66.356 GL  -40.60 GP   17.60 ZAL  81.47 ZAP  42.51 ETS 339.07 ZAE 145.43 ETE  42.24 ZAC  84.14 ETC  12.42 CLP -39.34
  PLANETOCENTRIC CONIC
   C3  13.010 VHL  3.607 DLA -30.73 RAL 147.84 RAD 6567.5 VEL 11.593 PTH   2.03 VHP  4.160 DPA  20.19 RAP 186.27 ECC 1.2141
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT    INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      77.54      9 28 20   1115.42      23.65      342.32      10.36      110.21    9 46 55     515.4       26.19      334.36
     102.46     12 47 46   5761.84      23.66      272.91      10.36      110.20   14 23 48    5161.8       26.20      264.96
      77.54      9 28 20   1115.42      23.65      342.32      10.36      110.21    9 46 55     515.4       26.19      334.36
     102.46     12 47 46   5761.84      23.66      272.91      10.36      110.20   14 23 48    5161.8       26.20      264.96
     110.00     11 42 15    679.52      14.87      306.10       5.89      121.14   11 53 34      79.5       18.89      299.29
     110.00     15 33  2   5245.75      33.09      236.44      13.16       99.12   17  0 28    4645.7       33.99      227.31
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
   TDE  .8215 TRA -.5748 TC3  .8891 BAU  .2144     SGT 1800.7 SGR  882.7 SG3  763.0          ST  1343.4 SR   570.7 SS  2517.9
   RDE  .3550 RRA -.1553 RC3  .8534 FAU .10000     RRT  .9030 RRF -.9763 RTF -.9348          CRT  .9960 CRS  .9990 CST  .9915
   FDE-4.3834 FRA 1.3764 FC3-6.6542 BSP   6472     SGB 2005.4 R23 -.2315 R13 -.9565          LSA 2906.2 MSA  154.6 SSA    7.7
   BDE  .8949 BRA  .5954 BC3 1.2324 FSP  -2353     SG1 1975.4 SG2  345.7 THA  24.68          EL1 1458.8 EL2  -47.1 ALF  22.96

LAUNCH DATE  MAY 24 1967                          FLIGHT TIME 138.00                          ARRIVAL DATE  OCT  9 1967

  HELIOCENTRIC CONIC                              DISTANCE 365.571
   RL  151.49 LAL   -.00 LOL 242.16 VL  26.877 GAL   1.76 AZL  95.30 HCA 157.47 SMA 128.88 ECC .17801 INC 5.3000 V1  29.412
   RP  108.22 LAP  -2.03 LOP  39.71 VP  37.720 GAP  -4.51 AZP  85.10 TAL 171.84 TAP 329.31 RCA 105.93 APO 151.82 V2  35.016
   RC  68.382 GL  -42.51 GP   20.89 ZAL  82.15 ZAP  47.09 ETS 338.57 ZAE 144.52 ETE  47.51 ZAC  84.02 ETC  12.32 CLP -43.22
  PLANETOCENTRIC CONIC
   C3  13.486 VHL  3.672 DLA -32.24 RAL 146.38 RAD 6567.5 VEL 11.613 PTH   2.03 VHP  4.003 DPA  23.42 RAP 187.20 ECC 1.2219
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT    INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      73.90      8 57 15   1202.57      24.57      349.29       9.90      111.56    9 17 17     602.6       27.27      341.33
     106.10     13  7 13   5690.23      24.58      267.88       9.91      111.55   14 42  4    5090.2       27.28      259.92
      73.90      8 57 15   1202.57      24.57      349.29       9.90      111.56    9 17 17     602.6       27.27      341.33
     106.10     13  7 13   5690.23      24.58      267.88       9.91      111.55   14 42  4    5090.2       27.28      259.92
     110.00     12  4 57   5883.06      17.79      279.19       6.42      119.68   13 43  0    5283.1       21.60      272.14
     110.00     14 58 41   5345.79      31.76      243.93      12.46      103.37   16 27 47    4745.8       33.27      235.03
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
   TDE  .8062 TRA -.5327 TC3  .7800 BAU  .2240     SGT 1695.9 SGR 1100.1 SG3  821.5          ST  1292.0 SR   784.4 SS  2673.6
   RDE  .4989 RRA -.1713 RC3  .9670 FAU .10606     RRT  .9094 RRF -.9874 RTF -.9298          CRT  .9940 CRS  .9997 CST  .9911
   FDE-4.9302 FRA 1.3532 FC3-6.8090 BSP   650:     SGB 2021.4 R23 -.2250 R13 -.9645          LSA 3067.4 MSA  154.8 SSA    6.7
   BDE  .9481 BRA  .5596 BC3 1.2423 FSP -2555      SG1 1983.2 SG2  391.3 THA  31.92          EL1 1509.7 EL2   73.6 ALF  31.19

LAUNCH DATE  MAY 24 1967                          FLIGHT TIME 140.00                          ARRIVAL DATE  OCT 11 1967

  HELIOCENTRIC CONIC                              DISTANCE 372.092
   RL  151.49 LAL   -.00 LOL 242.16 VL  26.909 GAL   1.70 AZL  95.67 HCA 160.67 SMA 129.09 ECC .17593 INC 5.6673 V1  29.412
   RP  108.18 LAP  -1.87 LOP  42.91 VP  37.755 GAP  -3.99 AZP  84.65 TAL 172.01 TAP 332.68 RCA 106.38 APO 151.80 V2  35.029
   RC  70.443 GL  -44.68 GP   25.11 ZAL  82.78 ZAP  52.17 ETS 338.04 ZAE 142.73 ETE  53.76 ZAC  83.92 ETC  12.27 CLP -47.36
  PLANETOCENTRIC CONIC
   C3  14.272 VHL  3.778 DLA -34.00 RAL 144.82 RAD 6567.6 VEL 11.647 PTH   2.04 VHP  3.901 DPA  27.58 RAP 188.45 ECC 1.2349
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT    INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      70.34      8 28 24   1284.77      25.51      356.05       9.78      113.28    8 49 49     684.8       28.43      348.11
     109.66     13 23 36   5632.91      25.52      263.89       9.78      113.27   14 57 29    5032.9       28.44      255.95
      70.34      8 28 24   1284.77      25.51      356.05       9.78      113.28    8 49 49     684.8       28.43      348.11
     109.66     13 23 36   5632.91      25.52      263.89       9.78      113.27   14 57 29    5032.9       28.44      255.95
     110.00     12 58 52   5708.37      23.33      268.68       8.69      115.72   14 34  1    5108.4       26.59      261.04
     110.00     13 52 19   5545.35      27.73      258.06      10.79      110.83   15 24 44    4945.3       30.31      249.81
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
   TDE  .7817 TRA -.4929 TC3  .6385 BAU  .2405     SGT 1565.6 SGR 1384.3 SG3  864.3          ST  1216.1 SR  1064.2 SS  2815.5
   RDE  .6981 RRA -.1899 RC3 1.0871 FAU .10959     RRT  .9065 RRF -.9935 RTF -.9205          CRT  .9920 CRS  .9999 CST  .9903
   FDE-5.4879 FRA 1.2889 FC3-6.6478 BSP   6676     SGB 2089.9 R23 -.1965 R13 -.9750          LSA 3242.6 MSA  155.9 SSA    5.7
   BDE 1.0481 BRA  .5282 BC3 1.2607 FSP  -2707     SG1 2041.2 SG2  448.3 THA  41.12          EL1 1612.8 EL2  101.4 ALF  41.16
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 13 1967

HELIOCENTRIC CONIC DISTANCE 378.593

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.936 GAL   1.65 AZL  96.17 HCA 163.87 SMA 129.27 ECC .17416 INC 6.1743 V1  29.412
RP  108.14 LAP  -1.71 LOP  46.12 VP  37.786 GAP  -3.50 AZP  84.07 TAL 172.14 TAP 336.01 RCA 106.76 APO 151.79 V2  35.042
RC  72.534 GL  -47.22 GP   30.60 ZAL  83.40 ZAP  57.80 ETS 337.56 ZAE 139.52 ETE  60.68 ZAC  83.71 ETC  12.26 CLP -51.75
```

PLANETOCENTRIC CONIC

```
C3  15.569 VHL  3.946 DLA -36.12 RAL 143.06 RAD 6567.6 VEL 11.703 PTH   2.06 VHP  3.880 DPA  32.92 RAP 190.37 ECC 1.2562
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.58	7 59 46	1369.35	26.43	3.20	10.10	115.56	8 22 35	769.4	29.64	355.31
113.42	13 38 12	5587.17	26.44	260.74	10.10	115.55	15 11 19	4987.2	29.65	252.85
66.58	7 59 46	1369.35	26.43	3.20	10.10	115.56	8 22 35	769.4	29.64	355.31
113.42	13 38 12	5587.17	26.44	260.74	10.10	115.55	15 11 19	4987.2	29.65	252.85
66.58	7 59 46	1369.35	26.43	3.20	10.10	115.56	8 22 35	769.4	29.64	355.31
113.42	13 38 12	5587.17	26.44	260.74	10.10	115.55	15 11 19	4987.2	29.65	252.85

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .7504 TRA -.4551 TC3  .4737 BAU  .2679   SGT 1412.9 SGR 1753.7 SG3  875.9      ST  1117.1 SR  1434.5 SS  2926.5
 RDE  .9847 RRA -.2074 RC3 1.1967 FAU .10850   RRT  .8944 RRF -.9966 RTF -.9050      CRT  .9897 CRS 1.0000 CST  .9887
 FDE-5.9958 FRA 1.1536 FC3-6.0334 BSP   7133   SGB 2252.0 R23 -.1473 R13 -.9862      LSA 3441.7 MSA  157.3 SSA    4.8
 BDE 1.2380 BRA  .5001 BC3 1.2871 FSP  -2755   SG1 2194.7 SG2  504.9 THA  51.84      EL1 1813.7 EL2  126.6 ALF  52.16
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 144.00 ARRIVAL DATE OCT 15 1967

HELIOCENTRIC CONIC DISTANCE 385.072

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.959 GAL   1.62 AZL  96.93 HCA 167.08 SMA 129.43 ECC .17270 INC 6.9255 V1  29.412
RP  108.10 LAP  -1.55 LOP  49.33 VP  37.815 GAP  -3.01 AZP  83.25 TAL 172.21 TAP 339.29 RCA 107.07 APO 151.78 V2  35.056
RC  74.652 GL  -50.33 GP   37.88 ZAL  84.03 ZAP  64.05 ETS 337.24 ZAE 134.18 ETE  67.65 ZAC  83.21 ETC  12.24 CLP -56.33
```

PLANETOCENTRIC CONIC

```
C3  17.819 VHL  4.221 DLA -38.74 RAL 140.92 RAD 6567.7 VEL 11.798 PTH   2.09 VHP  4.000 DPA  39.79 RAP 193.67 ECC 1.2933
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.38	7 29 41	1463.37	27.20	11.30	11.06	118.72	7 54 4	863.4	30.81	3.55
117.62	13 51 13	5555.07	27.22	258.57	11.06	118.70	15 23 48	4955.1	30.82	250.82
62.38	7 29 41	1463.37	27.20	11.30	11.06	118.72	7 54 4	863.4	30.81	3.55
117.62	13 51 13	5555.07	27.22	258.57	11.06	118.70	15 23 48	4955.1	30.82	250.82
62.38	7 29 41	1463.37	27.20	11.30	11.06	118.72	7 54 4	863.4	30.81	3.55
117.62	13 51 13	5555.07	27.22	258.57	11.06	118.70	15 23 48	4955.1	30.82	250.82

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .7204 TRA -.4201 TC3  .3061 BAU  .3097   SGT 1247.9 SGR 2231.5 SG3  834.2      ST  1002.1 SR  1928.1 SS  2974.5
 RDE 1.4180 RRA -.2132 RC3 1.2633 FAU .10021   RRT  .8721 RRF -.9983 RTF -.8812      CRT  .9867 CRS 1.0000 CST  .9863
 FDE-6.3306 FRA  .9072 FC3-4.8688 BSP   8150   SGB 2556.7 R23 -.0908 R13 -.9944      LSA 3680.3 MSA  158.5 SSA    3.9
 BDE 1.5905 BRA  .4711 BC3 1.2999 FSP  -2654   SG1 2497.8 SG2  545.4 THA  62.58      EL1 2168.1 EL2  144.7 ALF  62.72
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 146.00 ARRIVAL DATE OCT 17 1967

HELIOCENTRIC CONIC DISTANCE 391.529

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.977 GAL   1.60 AZL  98.16 HCA 170.28 SMA 129.55 ECC .17152 INC 8.1619 V1  29.412
RP  108.06 LAP  -1.37 LOP  52.53 VP  37.840 GAP  -2.54 AZP  81.95 TAL 172.24 TAP 342.52 RCA 107.33 APO 151.77 V2  35.069
RC  76.795 GL  -54.31 GP   47.66 ZAL  84.76 ZAP  70.91 ETS 337.20 ZAE 125.88 ETE  73.86 ZAC  82.08 ETC  11.97 CLP -60.95
```

PLANETOCENTRIC CONIC

```
C3  22.222 VHL  4.714 DLA -42.08 RAL 138.07 RAD 6567.9 VEL 11.983 PTH   2.14 VHP  4.406 DPA  48.47 RAP 200.13 ECC 1.3657
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.47	6 56 10	1578.03	27.40	21.20	13.03	123.28	7 22 28	978.0	31.57	13.77
122.53	14 2 2	5545.38	27.41	257.88	13.04	123.28	15 34 27	4945.4	31.58	250.44
57.47	6 56 10	1578.03	27.40	21.20	13.03	123.28	7 22 28	978.0	31.57	13.77
122.53	14 2 2	5545.38	27.41	257.88	13.04	123.28	15 34 27	4945.4	31.58	250.44
57.47	6 56 10	1578.03	27.40	21.20	13.03	123.28	7 22 28	978.0	31.57	13.77
122.53	14 2 2	5545.38	27.41	257.88	13.04	123.28	15 34 27	4945.4	31.58	250.44

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .7080 TRA -.3994 TC3  .1472 BAU  .3581   SGT 1089.8 SGR 2816.4 SG3  705.3      ST   882.7 SR  2564.1 SS  2881.4
 RDE 2.1080 RRA -.1879 RC3 1.1964 FAU .07989   RRT  .8350 RRF -.9990 RTF -.8443      CRT  .9823 CRS 1.0000 CST  .9823
 FDE-6.2228 FRA  .5560 FC3-3.1125 BSP   9672   SGB 3019.9 R23 -.0461 R13 -.9981      LSA 3953.5 MSA  161.2 SSA    3.0
 BDE 2.2238 BRA  .4414 BC3 1.2054 FSP  -2253   SG1 2965.7 SG2  569.5 THA  71.38      EL1 2707.2 EL2  156.5 ALF  71.25
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 148.00 ARRIVAL DATE OCT 19 1967

HELIOCENTRIC CONIC DISTANCE 397.962

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.992 GAL   1.59 AZL 100.60 HCA 173.47 SMA 129.65 ECC .17061 INC10.5979 V1  29.412
RP  108.02 LAP  -1.20 LOP  55.74 VP  37.863 GAP  -2.07 AZP  79.47 TAL 172.21 TAP 345.68 RCA 107.53 APO 151.77 V2  35.082
RC  78.958 GL  -59.52 GP   60.88 ZAL  85.72 ZAP  78.13 ETS 337.25 ZAE 113.61 ETE  78.16 ZAC  79.86 ETC  10.47 CLP -65.00
```

PLANETOCENTRIC CONIC

```
C3  33.154 VHL  5.758 DLA -46.36 RAL 133.89 RAD 6568.3 VEL 12.431 PTH   2.25 VHP  5.545 DPA  58.52 RAP 214.74 ECC 1.5456
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
51.62	6 16 41	1737.57	25.57	34.14	16.74	130.09	6 45 38	1137.6	30.54	27.46
128.38	14 8 11	5584.37	25.58	259.88	16.75	130.09	15 41 15	4984.4	30.56	253.20
51.62	6 16 41	1737.57	25.57	34.14	16.74	130.09	6 45 38	1137.6	30.54	27.46
128.38	14 8 11	5584.37	25.58	259.88	16.75	130.09	15 41 15	4984.4	30.56	253.20
51.62	6 16 41	1737.57	25.57	34.14	16.74	130.09	6 45 38	1137.6	30.54	27.46
128.38	14 8 11	5584.37	25.58	259.88	16.75	130.09	15 41 15	4984.4	30.56	253.20

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .7989 TRA -.4369 TC3  .0088 BAU  .3623   SGT 1014.3 SGR 3409.9 SG3  467.8      ST   817.1 SR  3274.0 SS  2513.3
 RDE 3.2898 RRA -.1100 RC3  .8173 FAU .04347   RRT  .7840 RRF -.9993 RTF -.7973      CRT  .9761 CRS 1.0000 CST  .9768
 FDE-5.2715 FRA  .2158 FC3-1.1350 BSP  10493   SGB 3557.6 R23 -.0198 R13 -.9994      LSA 4204.0 MSA  173.5 SSA    2.1
 BDE 3.3854 BRA  .4505 BC3  .8174 FSP  -1371   SG1 3504.4 SG2  612.6 THA  76.45      EL1 3370.1 EL2  172.5 ALF  76.27
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 150.00 ARRIVAL DATE OCT 21 1967

HELIOCENTRIC CONIC DISTANCE 404.331

```
RL  151.49 LAL   -.00 LOL 242.16 VL  27.003 GAL   1.61 AZL 107.64 HCA 176.64 SMA 129.73 ECC .16997 INC17.6352 V1  29.412
RP  107.98 LAP  -1.02 LOP  58.96 VP  37.882 GAP  -1.63 AZP  72.39 TAL 172.09 TAP 348.73 RCA 107.68 APO 151.78 V2  35.094
RC  81.139 GL  -65.59 GP   79.14 ZAL  87.21 ZAP  84.89 ETS 327.43 ZAE  95.74 ETE  70.00 ZAC  75.71 ETC 356.23 CLP -61.81
```

PLANETOCENTRIC CONIC

```
C3  80.653 VHL  8.981 DLA -50.92 RAL 127.72 RAD 6569.6 VEL 14.213 PTH   2.59 VHP  9.569 DPA  65.20 RAP 251.75 ECC 2.3273
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
45.73	5 32 14	2004.21	16.71	51.03	23.60	138.84	6 5 38	1404.2	22.65	45.75
134.27	14 3 21	5754.52	16.72	267.24	23.61	138.84	15 39 16	5154.5	22.66	261.96
45.73	5 32 14	2004.21	16.71	51.03	23.60	138.84	6 5 38	1404.2	22.65	45.75
134.27	14 3 21	5754.52	16.72	267.24	23.61	138.84	15 39 16	5154.5	22.66	261.96
45.73	5 32 14	2004.21	16.71	51.03	23.60	138.84	6 5 38	1404.2	22.65	45.75
134.27	14 3 21	5754.52	16.72	267.24	23.61	138.84	15 39 16	5154.5	22.66	261.96

DIFFERENTIAL CORRECTIONS

```
TDE 2.9246 TRA -.4938 TC3  .0213 BAU  .2006
RDE 5.6634 RRA  .4173 RC3  .1849 FAU .00759
FDE-3.6515 FRA -.1200 FC3 -.0815 BSP  12497
BDE 6.3740 BRA  .6465 BC3  .1861 FSP   -596
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1932.0 SGR 3652.9 SG3  202.0
RRT  .9272 RRF -.9975 RTF -.9504
SGB 4132.4 R23 -.0121 R13 -.9998
SG1 4081.3 SG2  647.9 THA  63.15
```

ORBIT DETERMINATION ACCURACY

```
ST  1871.9 SR  3615.4 SS  1926.2
CRT  .9934 CRS  .9998 CST  .9954
LSA 4499.9 MSA  191.6 SSA    1.0
EL1 4066.8 EL2  191.4 ALF  62.72
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 152.00 ARRIVAL DATE OCT 23 1967

HELIOCENTRIC CONIC DISTANCE 411.850

```
RL  151.49 LAL   -.00 LOL 242.16 VL  27.011 GAL   1.42 AZL    .76 HCA 180.83 SMA 129.78 ECC .16899 INC89.2585 V1  29.412
RP  107.94 LAP   -.83 LOP  62.17 VP  37.900 GAP   -.90 AZP 179.24 TAL 172.96 TAP 353.80 RCA 107.85 APO 151.72 V2  35.107
RC  83.336 GL   42.89 GP  -45.82 ZAL  89.49 ZAP  89.60 ETS 178.26 ZAE  51.41 ETE  73.27 ZAC  84.45 ETC 151.66 CLP  89.42
```

PLANETOCENTRIC CONIC

```
C31573.667 VHL 39.669 DLA  49.24 RAL 176.84 RAD 6573.2 VEL 41.170 PTH   3.57 VHP 52.791 DPA -55.21 RAP    .57 ECC26.8986
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
47.87	20 53 15	4974.17	1.18	232.02	87.88	40.77	22 16 9	4374.2	-4.88	227.20
132.13	5 14 17	3469.55	1.20	113.67	87.86	40.77	6 12 7	2869.6	-4.86	108.85
47.87	20 53 15	4974.17	1.18	232.02	87.88	40.77	22 16 9	4374.2	-4.88	227.20
132.13	5 14 17	3469.55	1.20	113.67	87.86	40.77	6 12 7	2869.6	-4.86	108.85
47.87	20 53 15	4974.17	1.18	232.02	87.88	40.77	22 16 9	4374.2	-4.88	227.20
132.13	5 14 17	3469.55	1.20	113.67	87.86	40.77	6 12 7	2869.6	-4.86	108.85

DIFFERENTIAL CORRECTIONS

```
TDE-6.1533 TRA-2.7766 TC3 -.1230 BAU 5.4028
RDE-6.2768 RRA-9.8917 RC3 -.2254 FAU-.10092
FDE 1.5660 FRA 2.4415 FC3  .0555 BSP  10509
BDE 8.7899 BRA10.2740 BC3  .2568 FSP   -210
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1455.9 SGR 2968.0 SG3   63.3
RRT  .9015 RRF-1.0000 RTF -.9024
SGB 3305.9 R23 -.0786 R13 -.9969
SG1 3255.6 SG2  574.5 THA  65.33
```

ORBIT DETERMINATION ACCURACY

```
ST   908.1 SR  1120.6 SS  1270.5
CRT  .9122 CRS 1.0000 CST  .9143
LSA 1893.4 MSA  330.9 SSA     .3
EL1 1411.8 EL2  295.4 ALF  51.54
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 154.00 ARRIVAL DATE OCT 25 1967

HELIOCENTRIC CONIC DISTANCE 417.373

```
RL  151.49 LAL   -.00 LOL 242.16 VL  27.016 GAL   1.61 AZL  78.63 HCA 183.29 SMA 129.82 ECC .16920 INC11.3650 V1  29.412
RP  107.91 LAP   -.65 LOP  65.39 VP  37.915 GAP   -.68 AZP 101.35 TAL 172.03 TAP 355.32 RCA 107.85 APO 151.78 V2  35.119
RC  85.546 GL   60.86 GP  -80.70 ZAL  85.86 ZAP  88.64 ETS   9.04 ZAE 103.51 ETE 269.20 ZAC 105.90 ETC 351.59 CLP -81.55
```

PLANETOCENTRIC CONIC

```
C3  37.126 VHL  6.093 DLA  59.93 RAL 203.49 RAD 6568.4 VEL 12.589 PTH   2.28 VHP  9.735 DPA -60.66 RAP 115.59 ECC 1.6110
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
34.69	22 1 39	4523.23	-29.50	223.27	94.39	35.14	23 17 2	3923.2	-35.92	218.01
145.31	7 38 29	2855.86	-29.49	86.59	94.37	35.14	8 26 5	2255.9	-35.91	81.34
34.69	22 1 39	4523.23	-29.50	223.27	94.39	35.14	23 17 2	3923.2	-35.92	218.01
145.31	7 38 29	2855.86	-29.49	86.59	94.37	35.14	8 26 5	2255.9	-35.91	81.34
34.69	22 1 39	4523.23	-29.50	223.27	94.39	35.14	23 17 2	3923.2	-35.92	218.01
145.31	7 38 29	2855.86	-29.49	86.59	94.37	35.14	8 26 5	2255.9	-35.91	81.34

DIFFERENTIAL CORRECTIONS

```
TDE  .7004 TRA  .3854 TC3 -.1863 BAU  .4229
RDE  .5585 RRA 2.2390 RC3 -.8314 FAU .01921
FDE  .2480 FRA 1.1495 FC3 -.4480 BSP  13367
BDE  .8958 BRA 2.2720 BC3  .8520 FSP   -600
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1004.2 SGR 4354.5 SG3  193.3
RRT  .8268 RRF  .9998 RTF  .8179
SGB 4468.8 R23  .0396 R13  .9991
SG1 4434.2 SG2  554.8 THA  79.03
```

ORBIT DETERMINATION ACCURACY

```
ST   693.5 SR  1366.0 SS   578.8
CRT  .6541 CRS -.9988 CST -.6164
LSA 1558.5 MSA  503.1 SSA     .7
EL1 1450.1 EL2  494.1 ALF  69.09
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 156.00 ARRIVAL DATE OCT 27 1967

HELIOCENTRIC CONIC DISTANCE 423.685

```
RL  151.49 LAL   -.00 LOL 242.16 VL  27.018 GAL   1.67 AZL  85.91 HCA 186.46 SMA 129.83 ECC .16923 INC 4.0915 V1  29.412
RP  107.87 LAP   -.46 LOP  68.60 VP  37.927 GAP   -.26 AZP  94.07 TAL 171.75 TAP 358.22 RCA 107.86 APO 151.80 V2  35.131
RC  87.767 GL   37.45 GP  -63.19 ZAL  81.55 ZAP  90.42 ETS    .20 ZAE 120.37 ETE 260.19 ZAC 110.64 ETC 351.64 CLP -90.92
```

PLANETOCENTRIC CONIC

```
C3  10.040 VHL  3.169 DLA  40.63 RAL 182.03 RAD 6567.4 VEL 11.464 PTH   1.99 VHP  5.494 DPA -46.06 RAP 132.39 ECC 1.1652
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.55	21 58 43	4019.83	-32.42	176.00	44.29	64.04	23 5 43	3419.8	-35.62	167.56
120.45	4 50 11	2749.81	-32.41	79.14	44.28	64.03	5 36 1	2149.8	-35.61	70.70
59.55	21 58 43	4019.83	-32.42	176.00	44.29	64.04	23 5 43	3419.8	-35.62	167.56
120.45	4 50 11	2749.81	-32.41	79.14	44.28	64.03	5 36 1	2149.8	-35.61	70.70
59.55	21 58 43	4019.83	-32.42	176.00	44.29	64.04	23 5 43	3419.8	-35.62	167.56
120.45	4 50 11	2749.81	-32.41	79.14	44.28	64.03	5 36 1	2149.8	-35.61	70.70

DIFFERENTIAL CORRECTIONS

```
TDE  .3737 TRA  .3228 TC3-1.5122 BAU  .5334
RDE  .3839 RRA 1.2849 RC3-3.6748 FAU .06217
FDE  .4983 FRA 1.8131 FC3-5.3609 BSP  12857
BDE  .5358 BRA 1.3249 BC3 3.9738 FSP  -1538
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1402.3 SGR 3908.7 SG3  481.2
RRT  .9223 RRF  .9997 RTF  .9202
SGB 4152.6 R23  .0466 R13  .9987
SG1 4120.7 SG2  514.1 THA  71.39
```

ORBIT DETERMINATION ACCURACY

```
ST   714.7 SR  1153.4 SS   750.9
CRT  .8286 CRS -.9992 CST -.8058
LSA 1505.2 MSA  372.9 SSA     2.0
EL1 1310.4 EL2  352.1 ALF  60.48
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 158.00 ARRIVAL DATE OCT 29 1967

HELIOCENTRIC CONIC DISTANCE 430.018

RL	151.49	LAL	-.00	LOL	242.16	VL	27.018	GAL	1.73	AZL	88.39	HCA	189.67	SMA	129.83	ECC	.16944	INC	1.6092	V1	29.412
RP	107.83	LAP	-.27	LOP	71.82	VP	37.938	GAP	.16	AZP	91.59	TAL	171.47	TAP	1.13	RCA	107.83	APO	151.83	V2	35.143
RC	89.996	GL	17.10	GP	-50.90	ZAL	78.95	ZAP	94.24	ETS	355.75	ZAE	131.43	ETE	252.58	ZAC	113.76	ETC	354.32	CLP	-96.73

PLANETOCENTRIC CONIC

C3	6.652	VHL	2.579	DLA	22.10	RAL	172.01	RAD	6567.2	VEL	11.316	PTH	1.95	VHP	4.235	DPA	-34.56	RAP	138.37	ECC	1.1095

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 30 19	2757.24	-28.01	78.71	23.86	94.36	4 16 16	2157.2	-27.11	70.16
90.00	21 58 37	3859.11	-10.74	152.73	20.32	63.64	23 2 56	3259.1	-14.19	145.76
100.00	5 7 28	2443.97	-29.22	55.53	23.73	96.60	5 48 12	1844.0	-28.00	46.94
100.00	23 4 9	3647.62	-9.65	136.62	19.75	61.57	24 4 56	3047.6	-13.38	129.81
110.00	6 48 32	2127.80	-32.18	30.95	23.16	102.21	7 23 59	1527.8	-30.16	22.31
110.00	23 39 34	3536.55	-7.08	126.64	18.19	56.47	24 38 31	2936.5	-11.44	120.26

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	.1325	TRA	.3232	TC3	-3.0052	BAU	.5128	SGT	1758.0	SGR	3382.5	SG3	771.1	ST	378.0	SR	675.1	SS	645.3
RDE	.0018	RRA	.9325	RC3	-4.9203	FAU	.10103	RRT	.9533	RRF	.9996	RTF	.9525	CRT	.6296	CRS	-.9921	CST	-.5273
FDE	-.0953	FRA	2.4178	FC	-13.1475	BSP	11770	SGB	3812.1	R23	.0645	R13	.9975	LSA	960.6	MSA	303.9	SSA	5.2
BDE	.1325	BRA	.9870	BC3	5.7655	FSP	-2466	SG1	3782.4	SG2	474.8	THA	63.19	EL1	723.6	EL2	274.0	ALF	67.12

LAUNCH DATE MAY 24 1967 FLIGHT TIME 160.00 ARRIVAL DATE OCT 31 1967

HELIOCENTRIC CONIC DISTANCE 436.341

RL	151.49	LAL	-.00	LOL	242.16	VL	27.015	GAL	1.80	AZL	89.64	HCA	192.89	SMA	129.81	ECC	.16985	INC	.3569	V1	29.412
RP	107.80	LAP	-.08	LOP	75.05	VP	37.946	GAP	.58	AZP	90.35	TAL	171.13	TAP	4.02	RCA	107.76	APO	151.86	V2	35.154
RC	92.232	GL	3.89	GP	-41.77	ZAL	77.67	ZAP	99.04	ETS	352.85	ZAE	138.54	ETE	243.65	ZAC	116.13	ETC	356.93	CLP	-102.16

PLANETOCENTRIC CONIC

C3	6.111	VHL	2.472	DLA	9.68	RAL	167.26	RAD	6567.2	VEL	11.292	PTH	1.94	VHP	3.716	DPA	-25.59	RAP	141.00	ECC	1.1006

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 12 51	2276.83	-21.03	45.46	14.31	109.41	5 50 48	1676.8	-18.19	37.94
90.00	19 38 12	4310.64	3.60	178.16	12.43	61.89	20 50 2	3710.6	-.18	171.52
100.00	6 38 57	1999.11	-21.78	24.74	14.02	111.00	7 12 17	1399.1	-18.73	17.27
100.00	20 54 46	4063.59	4.30	159.61	12.05	60.39	22 2 30	3463.6	.33	153.08
110.00	7 58 2	1751.64	-23.76	5.03	13.10	115.33	8 27 14	1151.6	-20.15	357.75
110.00	21 52 11	3883.83	6.13	144.83	10.91	56.31	22 56 54	3283.8	1.66	138.60

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.0673	TRA	.3579	TC3	-3.9710	BAU	.4945	SGT	2141.7	SGR	2873.3	SG3	985.1	ST	302.6	SR	693.7	SS	962.5
RDE	-.1985	RRA	.7296	RC3	-4.5682	FAU	.12855	RRT	.9668	RRF	.9993	RTF	.9667	CRT	.9801	CRS	-.9937	CST	-.9541
FDE	-.9606	FRA	2.8200	FC	-18.2115	BSP	11022	SGB	3583.7	R23	.0891	R13	.9953	LSA	1220.3	MSA	98.7	SSA	16.6
BDE	.2096	BRA	.8127	BC3	6.0529	FSP	-3165	SG1	3556.3	SG2	442.0	THA	53.57	EL1	754.8	EL2	55.2	ALF	66.72

LAUNCH DATE MAY 24 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 2 1967

HELIOCENTRIC CONIC DISTANCE 442.650

RL	151.49	LAL	-.00	LOL	242.16	VL	27.009	GAL	1.89	AZL	90.40	HCA	196.11	SMA	129.77	ECC	.17044	INC	.4020	V1	29.412
RP	107.77	LAP	.11	LOP	78.27	VP	37.952	GAP	1.00	AZP	89.61	TAL	170.76	TAP	6.87	RCA	107.65	APO	151.89	V2	35.165
RC	94.474	GL	-4.37	GP	-34.83	ZAL	76.83	ZAP	104.14	ETS	350.96	ZAE	142.62	ETE	233.91	ZAC	118.00	ETC	359.28	CLP	-107.31

PLANETOCENTRIC CONIC

C3	6.194	VHL	2.489	DLA	1.73	RAL	164.83	RAD	6567.2	VEL	11.295	PTH	1.94	VHP	3.483	DPA	-18.58	RAP	142.22	ECC	1.1019

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 4 0	2027.71	-14.64	29.98	10.61	114.51	6 37 47	1427.7	-11.21	22.98
90.00	18 27 43	4564.31	11.51	192.60	10.26	63.95	19 43 47	3964.3	7.92	185.76
100.00	7 26 8	1762.74	-15.32	10.17	10.28	115.98	7 55 31	1162.7	-11.70	3.24
100.00	19 48 15	4304.52	12.19	173.15	9.92	62.49	21 0 0	3704.5	8.11	166.40
110.00	8 36 14	1543.34	-17.13	352.51	9.28	120.04	9 1 57	943.3	-13.01	345.82
110.00	20 54 39	4096.68	13.97	156.33	8.88	58.48	22 2 56	3496.7	9.70	149.84

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.2449	TRA	.4103	TC3	-4.5557	BAU	.4910	SGT	2520.6	SGR	2421.8	SG3	1112.6	ST	634.7	SR	762.0	SS	1367.0
RDE	-.2772	RRA	.5970	RC3	-3.7941	FAU	.14383	RRT	.9734	RRF	.9986	RTF	.9738	CRT	.9937	CRS	-.9960	CST	-.9990
FDE	-1.7416	FRA	3.0587	FC	-20.1015	BSP	10648	SGB	3495.5	R23	.1123	R13	.9923	LSA	1687.5	MSA	63.5	SSA	23.5
BDE	.3699	BRA	.7244	BC3	5.9287	FSP	-3567	SG1	3472.2	SG2	402.6	THA	43.82	EL1	990.2	EL2	54.8	ALF	50.24

LAUNCH DATE MAY 24 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 4 1967

HELIOCENTRIC CONIC DISTANCE 448.942

RL	151.49	LAL	-.00	LOL	242.16	VL	27.002	GAL	1.98	AZL	90.91	HCA	199.34	SMA	129.72	ECC	.17122	INC	.9140	V1	29.412
RP	107.73	LAP	.30	LOP	81.50	VP	37.956	GAP	1.41	AZP	89.14	TAL	170.33	TAP	9.67	RCA	107.51	APO	151.93	V2	35.175
RC	96.719	GL	-9.76	GP	-29.46	ZAL	76.06	ZAP	109.20	ETS	349.77	ZAE	144.43	ETE	224.39	ZAC	119.47	ETC	1.40	CLP	-112.19

PLANETOCENTRIC CONIC

C3	6.454	VHL	2.540	DLA	-3.59	RAL	163.62	RAD	6567.2	VEL	11.307	PTH	1.94	VHP	3.390	DPA	-13.05	RAP	142.77	ECC	1.1062

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 38 41	1869.43	-9.98	20.70	9.36	116.64	7 9 50	1269.4	-6.32	13.93
90.00	17 43 19	4736.51	16.43	202.85	10.11	66.61	19 2 15	4136.5	13.13	195.73
100.00	7 58 20	1612.47	-10.66	1.44	9.00	118.09	8 25 13	1012.5	-6.82	354.76
100.00	19 6 20	4468.72	17.13	182.83	9.78	65.12	20 20 49	3868.7	13.64	175.78
110.00	9 2 44	1410.88	-12.47	345.07	7.93	122.09	9 26 15	810.9	-8.15	338.65
110.00	20 18 26	4243.06	19.00	164.70	8.78	61.04	21 29 9	3643.1	14.99	157.87

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.4132	TRA	.4687	TC3	-4.9627	BAU	.5045	SGT	2889.3	SGR	2048.4	SG3	1175.5	ST	987.5	SR	755.5	SS	1687.0
RDE	-.2987	RRA	.4997	RC3	-3.0912	FAU	.15093	RRT	.9773	RRF	.9975	RTF	.9784	CRT	.9905	CRS	-.9964	CST	-.9984
FDE	-2.3674	FRA	3.1537	FC	-20.2462	BSP	10805	SGB	3541.7	R23	.1254	R13	.9898	LSA	2094.0	MSA	82.7	SSA	17.7
BDE	.5099	BRA	.6851	BC3	5.8467	FSP	-3797	SG1	3523.8	SG2	355.8	THA	35.13	EL1	1240.6	EL2	82.6	ALF	37.35

LAUNCH DATE MAY 24 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 6 1967

HELIOCENTRIC CONIC DISTANCE 455.216
RL 151.49 LAL -.00 LOL 242.16 VL 26.992 GAL 2.09 AZL 91.28 HCA 202.57 SMA 129.65 ECC .17217 INC 1.2840 V1 29.412
RP 107.70 LAP .49 LOP 84.72 VP 37.959 GAP 1.82 AZP 88.81 TAL 169.86 TAP 12.43 RCA 107.33 APO 151.98 V2 35.185
RC 98.967 GL -13.44 GP -25.21 ZAL 75.24 ZAP 114.04 ETS 349.03 ZAE 144.68 ETE 215.97 ZAC 120.57 ETC 3.30 CLP-116.76
PLANETOCENTRIC CONIC
C3 6.770 VHL 2.602 DLA -7.38 RAL 163.12 RAD 6567.2 VEL 11.321 PTH 1.95 VHP 3.376 DPA -8.65 RAP 143.05 ECC 1.1114

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 5 27	1758.57	-6.53	14.38	9.29	117.61	7 34 45	1158.6	-2.78	7.70
90.00	17 12 35	4863.87	19.70	210.77	10.85	69.24	18 33 39	4263.9	16.70	203.38
100.00	8 23 15	1507.57	-7.24	355.53	8.90	119.08	8 48 23	907.6	-3.31	348.95
100.00	18 37 28	4590.11	20.45	190.32	10.54	67.71	19 53 58	3990.1	17.24	182.99
110.00	9 23 25	1319.20	-9.11	340.10	7.76	123.09	9 45 24	719.2	-4.69	333.80
110.00	19 53 47	4351.24	22.43	171.21	9.57	63.51	21 6 19	3751.2	18.69	164.08

DIFFERENTIAL CORRECTIONS
TDE -.5707 TRA .5356 TC3-5.2468 BAU .5262
RDE -.2866 RRA .4303 RC3-2.5044 FAU .15086
FDE-2.7902 FRA 3.1846 FC-19.2912 BSP 11178
BDE .6386 BRA .6870 BC3 5.8138 FSP -3830

MID-COURSE EXECUTION ACCURACY
SGT 3232.4 SGR 1734.8 SG3 1186.3
RRT .9786 RRF .9957 RTF .9810
SGB 3668.6 R23 .1281 R13 .9879
SG1 3654.9 SG2 315.8 THA 27.94

ORBIT DETERMINATION ACCURACY
ST 1309.0 SR 694.2 SS 1898.2
CRT .9888 CRS -.9955 CST -.9983
LSA 2406.1 MSA 95.8 SSA 15.8
EL1 1478.8 EL2 91.6 ALF 27.79

LAUNCH DATE MAY 24 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 8 1967

HELIOCENTRIC CONIC DISTANCE 461.470
RL 151.49 LAL -.00 LOL 242.16 VL 26.981 GAL 2.21 AZL 91.57 HCA 205.80 SMA 129.58 ECC .17330 INC 1.5657 V1 29.412
RP 107.67 LAP .68 LOP 87.95 VP 37.959 GAP 2.22 AZP 88.59 TAL 169.34 TAP 15.15 RCA 107.12 APO 152.03 V2 35.195
RC 101.218 GL -16.04 GP -21.81 ZAL 74.34 ZAP 118.60 ETS 348.59 ZAE 143.96 ETE 209.03 ZAC 121.34 ETC 4.99 CLP-121.04
PLANETOCENTRIC CONIC
C3 7.109 VHL 2.666 DLA -10.20 RAL 163.10 RAD 6567.2 VEL 11.336 PTH 1.95 VHP 3.413 DPA -5.12 RAP 143.24 ECC 1.1170

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 27 45	1675.74	-3.90	9.72	9.87	118.07	7 55 40	1075.7	-.11	3.08
90.00	16 50 7	4963.83	21.98	217.21	12.08	71.68	18 12 51	4363.8	19.27	209.58
100.00	8 44 2	1429.62	-4.64	351.21	9.46	119.56	9 7 51	829.6	-.67	344.67
100.00	18 16 31	4685.18	22.78	196.42	11.78	70.10	19 34 36	4085.2	19.86	188.84
110.00	9 40 48	1251.87	-6.59	336.52	8.25	123.62	10 1 40	651.9	-2.12	330.28
110.00	19 36 15	4435.69	24.90	176.53	10.84	65.78	20 50 11	3835.7	21.42	169.12

DIFFERENTIAL CORRECTIONS
TDE -.7223 TRA .6060 TC3-5.4587 BAU .5541
RDE -.2617 RRA .3772 RC3-2.0487 FAU .14688
FDE-3.0688 FRA 3.1567 FC-17.8878 BSP 11776
BDE .7683 BRA .7138 BC3 5.8305 FSP -3777

MID-COURSE EXECUTION ACCURACY
SGT 3554.3 SGR 1479.1 SG3 1165.5
RRT .9782 RRF .9925 RTF .9828
SGB 3849.8 R23 .1204 R13 .9869
SG1 3839.3 SG2 284.7 THA 22.28

ORBIT DETERMINATION ACCURACY
ST 1604.6 SR 615.1 SS 2039.9
CRT .9867 CRS -.9939 CST -.9985
LSA 2665.2 MSA 103.2 SSA 15.3
EL1 1715.9 EL2 93.5 ALF 20.78

LAUNCH DATE MAY 24 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 10 1967

HELIOCENTRIC CONIC DISTANCE 467.706
RL 151.49 LAL -.00 LOL 242.16 VL 26.968 GAL 2.35 AZL 91.79 HCA 209.04 SMA 129.49 ECC .17461 INC 1.7886 V1 29.412
RP 107.65 LAP .87 LOP 91.19 VP 37.958 GAP 2.62 AZP 88.44 TAL 168.78 TAP 17.82 RCA 106.88 APO 152.10 V2 35.204
RC 103.470 GL -17.93 GP -19.04 ZAL 73.34 ZAP 122.84 ETS 348.35 ZAE 142.70 ETE 203.56 ZAC 121.81 ETC 6.49 CLP-125.01
PLANETOCENTRIC CONIC
C3 7.460 VHL 2.731 DLA -12.40 RAL 163.42 RAD 6567.2 VEL 11.351 PTH 1.96 VHP 3.485 DPA -2.28 RAP 143.46 ECC 1.1228

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 47 17	1610.93	-1.81	6.09	10.87	118.26	8 14 8	1010.9	1.98	359.46
90.00	16 33 9	5045.88	23.63	222.66	13.62	73.92	17 57 15	4445.9	21.20	214.83
100.00	9 2 16	1369.02	-2.60	347.87	10.44	119.79	9 25 5	769.0	1.39	341.35
100.00	18 0 51	4763.02	24.49	201.57	13.33	72.30	19 20 14	4163.0	21.84	193.77
110.00	9 56 9	1200.25	-4.64	333.80	9.17	123.91	10 16 9	600.3	-.15	327.58
110.00	19 23 27	4504.54	26.74	181.03	12.42	67.87	20 38 32	3904.5	23.50	173.37

DIFFERENTIAL CORRECTIONS
TDE -.8672 TRA .6811 TC3-5.6111 BAU .5846
RDE -.2304 RRA .3367 RC3-1.6948 FAU .14037
FDE-3.2230 FRA 3.1006 FC-16.2908 BSP 12471
BDE .8973 BRA .7598 BC3 5.8614 FSP -3657

MID-COURSE EXECUTION ACCURACY
SGT 3852.9 SGR 1270.3 SG3 1124.0
RRT .9756 RRF .9876 RTF .9839
SGB 4056.9 R23 .1055 R13 .9864
SG1 4048.2 SG2 265.5 THA 17.91

ORBIT DETERMINATION ACCURACY
ST 1873.7 SR 530.4 SS 2124.2
CRT .9829 CRS -.9909 CST -.9987
LSA 2879.7 MSA 108.2 SSA 15.4
EL1 1945.1 EL2 94.0 ALF 15.59

LAUNCH DATE MAY 24 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 12 1967

HELIOCENTRIC CONIC DISTANCE 473.922
RL 151.49 LAL -.00 LOL 242.16 VL 26.953 GAL 2.50 AZL 91.97 HCA 212.28 SMA 129.39 ECC .17608 INC 1.9701 V1 29.412
RP 107.62 LAP 1.05 LOP 94.42 VP 37.956 GAP 3.02 AZP 88.33 TAL 168.18 TAP 20.45 RCA 106.61 APO 152.17 V2 35.212
RC 105.723 GL -19.33 GP -16.76 ZAL 72.26 ZAP 126.76 ETS 348.23 ZAE 141.19 ETE 199.34 ZAC 121.99 ETC 7.80 CLP-128.69
PLANETOCENTRIC CONIC
C3 7.824 VHL 2.797 DLA -14.18 RAL 164.00 RAD 6567.3 VEL 11.367 PTH 1.96 VHP 3.582 DPA .02 RAP 143.77 ECC 1.1288

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 5 2	1558.49	-.12	3.17	12.18	118.32	8 31 1	958.5	3.67	356.53
90.00	16 20 3	5115.65	24.86	227.40	15.36	75.99	17 45 18	4515.6	22.69	219.40
100.00	9 18 50	1320.36	-.95	345.20	11.72	119.88	9 40 51	720.4	3.03	338.68
100.00	17 48 55	4829.02	25.78	206.05	15.09	74.32	19 9 25	4229.0	23.38	198.07
110.00	10 10 12	1159.48	-3.08	331.66	10.39	124.06	10 29 32	559.5	1.41	325.46
110.00	19 14 3	4562.66	28.17	184.95	14.22	69.79	20 30 6	3962.7	25.16	177.07

DIFFERENTIAL CORRECTIONS
TDE-1.0053 TRA .7621 TC3-5.7040 BAU .6148
RDE -.1970 RRA .3058 RC3-1.4159 FAU .13216
FDE-3.2849 FRA 3.0322 FC-14.6232 BSP 13163
BDE 1.0244 BRA .8211 BC3 5.8771 FSP -3485

MID-COURSE EXECUTION ACCURACY
SGT 4124.9 SGR 1099.0 SG3 1069.5
RRT .9704 RRF .9802 RTF .9846
SGB 4268.8 R23 .0872 R13 .9861
SG1 4261.1 SG2 257.1 THA 14.55

ORBIT DETERMINATION ACCURACY
ST 2117.3 SR 448.4 SS 2166.9
CRT .9765 CRS -.9855 CST -.9988
LSA 3060.5 MSA 111.7 SSA 15.7
EL1 2162.2 EL2 94.6 ALF 11.71

LAUNCH DATE MAY 24 1967 FLIGHT TIME 174.00 ARRIVAL DATE NOV 14 1967

HELIOCENTRIC CONIC DISTANCE 480.118

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.937 GAL   2.66 AZL  92.12 HCA 215.51 SMA 129.28 ECC .17774 INC 2.1221 V1  29.412
RP  107.60 LAP   1.23 LOP  97.65 VP  37.951 GAP   3.42 AZP  88.27 TAL 167.53 TAP  23.05 RCA 106.30 APO 152.26 V2  35.220
RC 107.975 GL  -20.36 GP  -14.87 ZAL  71.10 ZAP 130.38 ETS 348.18 ZAE 139.60 ETE 196.08 ZAC 121.92 ETC   8.94 CLP-132.10
```

PLANETOCENTRIC CONIC

```
C3   8.205 VHL  2.864 DLA -15.64 RAL 164.79 RAD 6567.3 VEL 11.384 PTH   1.97 VHP  3.698 DPA   1.87 RAP 144.20 ECC 1.1350
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 21 33	1515.06	1.28	.75	13.72	118.29	8 46 48	915.1	5.05	354.10
90.00	16 9 49	5176.67	25.80	231.62	17.28	77.91	17 36 6	4576.7	23.88	223.48
100.00	9 34 17	1280.39	.41	343.01	13.23	119.89	9 55 37	680.4	4.38	336.47
100.00	17 39 47	4886.57	26.78	210.03	17.03	76.19	19 1 13	4286.6	24.61	201.90
110.00	10 23 23	1126.61	-1.83	329.95	11.83	124.14	10 42 9	526.6	2.66	323.74
110.00	19 7 11	4613.11	29.31	188.44	16.20	71.57	20 24 4	4013.1	26.51	180.37

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.1363 TRA  .8498 TC3-5.7444 BAU  .6436   SGT 4371.7 SGR  959.0 SG3 1007.9      ST  2335.8 SR   371.9 SS  2175.7
RDE -.1635 RRA  .2825 RC3-1.1946 FAU .12303   RRT  .9616 RRF  .9692 RTF  .9848      CRT  .9651 CRS -.9759 CST -.9989
FDE-3.2746 FRA 2.9634 FC-12.9813 BSP  13832   SGB 4475.6 R23  .0691 R13  .9857      LSA 3211.6 MSA  115.2 SSA   16.0
BDE 1.1480 BRA  .8955 BC3 5.8673 FSP  -3286   SG1 4468.2 SG2  257.6 THA  11.95      EL1 2363.3 EL2   96.3 ALF   8.75
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 176.00 ARRIVAL DATE NOV 16 1967

HELIOCENTRIC CONIC DISTANCE 486.293

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.920 GAL   2.84 AZL  92.25 HCA 218.76 SMA 129.16 ECC .17957 INC 2.2517 V1  29.412
RP  107.58 LAP   1.41 LOP 100.89 VP  37.946 GAP   3.82 AZP  88.24 TAL 166.85 TAP  25.60 RCA 105.97 APO 152.35 V2  35.227
RC 110.226 GL  -21.11 GP  -13.29 ZAL  69.87 ZAP 133.73 ETS 348.17 ZAE 138.03 ETE 193.57 ZAC 121.61 ETC   9.91 CLP-135.25
```

PLANETOCENTRIC CONIC

```
C3   8.607 VHL  2.934 DLA -16.88 RAL 165.75 RAD 6567.3 VEL 11.402 PTH   1.97 VHP  3.831 DPA   3.35 RAP 144.77 ECC 1.1417
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 37 12	1478.49	2.46	358.70	15.44	118.22	9 1 50	878.5	6.22	352.04
90.00	16 1 49	5231.22	26.52	235.45	19.33	79.70	17 29 1	4631.2	24.83	227.19
100.00	9 48 55	1247.08	1.54	341.18	14.93	119.86	10 9 42	647.1	5.50	334.63
100.00	17 32 47	4937.87	27.56	213.64	19.10	77.94	18 55 5	4337.9	25.62	205.38
110.00	10 35 56	1099.80	-.80	328.55	13.47	124.17	10 54 15	499.8	3.69	322.34
110.00	19 2 16	4657.92	30.23	191.60	18.32	73.23	20 19 54	4057.9	27.64	183.36

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.2640 TRA  .9408 TC3-5.7531 BAU  .6724   SGT 4601.7 SGR  846.1 SG3  945.6      ST  2536.9 SR   304.5 SS  2167.7
RDE -.1318 RRA  .2639 RC3-1.0221 FAU .11415   RRT  .9487 RRF  .9539 RTF  .9850      CRT  .9456 CRS -.9587 CST -.9990
FDE-3.2277 FRA 2.8848 FC-11.4818 BSP  14518   SGB 4678.8 R23  .0518 R13  .9855      LSA 3348.7 MSA  118.0 SSA   16.4
BDE 1.2709 BRA  .9771 BC3 5.8431 FSP  -3092   SG1 4671.4 SG2  263.5 THA   9.93      EL1 2553.2 EL2   98.4 ALF   6.49
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 178.00 ARRIVAL DATE NOV 18 1967

HELIOCENTRIC CONIC DISTANCE 492.447

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.901 GAL   3.03 AZL  92.36 HCA 222.00 SMA 129.04 ECC .18158 INC 2.3643 V1  29.412
RP  107.56 LAP   1.58 LOP 104.13 VP  37.938 GAP   4.22 AZP  88.24 TAL 166.13 TAP  28.12 RCA 105.60 APO 152.47 V2  35.233
RC 112.475 GL  -21.63 GP  -11.95 ZAL  68.57 ZAP 136.81 ETS 348.17 ZAE 136.53 ETE 191.62 ZAC 121.10 ETC  10.73 CLP-138.18
```

PLANETOCENTRIC CONIC

```
C3   9.036 VHL  3.006 DLA -17.94 RAL 166.85 RAD 6567.3 VEL 11.420 PTH   1.98 VHP  3.976 DPA   4.53 RAP 145.48 ECC 1.1487
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 52 11	1447.41	3.46	356.97	17.33	118.12	9 16 18	847.4	7.19	350.28
90.00	15 55 36	5280.88	27.08	238.98	21.51	81.38	17 23 37	4680.9	25.61	230.62
100.00	10 2 56	1219.08	2.49	339.64	16.79	119.80	10 23 15	619.1	6.43	333.08
100.00	17 27 32	4984.44	28.18	216.97	21.30	79.58	18 50 36	4384.4	26.45	208.59
110.00	10 48 1	1077.84	.04	327.40	15.26	124.18	11 5 59	477.8	4.52	321.19
110.00	18 58 57	4698.45	30.99	194.51	20.57	74.80	20 17 15	4098.4	28.60	186.13

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.3866 TRA 1.0387 TC3-5.7226 BAU  .6995   SGT 4811.6 SGR  754.8 SG3  883.8      ST  2717.7 SR   245.7 SS  2143.5
RDE -.1018 RRA  .2495 RC3 -.8836 FAU .10545   RRT  .9308 RRF  .9332 RTF  .9850      CRT  .9104 CRS -.9267 CST -.9991
FDE-3.1500 FRA 2.8097 FC-10.1035 BSP  15164   SGB 4870.5 R23  .0368 R13  .9853      LSA 3467.8 MSA  120.7 SSA   16.7
BDE 1.3903 BRA 1.0682 BC3 5.7904 FSP  -2899   SG1 4862.8 SG2  273.0 THA   8.33      EL1 2726.9 EL2  101.3 ALF   4.71
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 180.00 ARRIVAL DATE NOV 20 1967

HELIOCENTRIC CONIC DISTANCE 498.580

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.881 GAL   3.23 AZL  92.46 HCA 225.24 SMA 128.90 ECC .18378 INC 2.4636 V1  29.412
RP  107.54 LAP   1.75 LOP 107.37 VP  37.930 GAP   4.62 AZP  88.26 TAL 165.37 TAP  30.61 RCA 105.21 APO 152.59 V2  35.239
RC 114.720 GL  -21.99 GP  -10.81 ZAL  67.21 ZAP 139.67 ETS 348.17 ZAE 135.12 ETE 190.09 ZAC 120.40 ETC  11.42 CLP-140.90
```

PLANETOCENTRIC CONIC

```
C3   9.496 VHL  3.082 DLA -18.86 RAL 168.07 RAD 6567.3 VEL 11.441 PTH   1.98 VHP  4.132 DPA   5.45 RAP 146.32 ECC 1.1563
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 6 39	1420.90	4.31	355.48	19.36	118.01	9 30 20	820.9	8.02	348.77
90.00	15 50 52	5326.72	27.50	242.27	23.80	82.98	17 19 38	4726.7	26.24	233.83
100.00	10 16 29	1195.54	3.28	338.35	18.79	119.73	10 36 25	595.5	7.21	331.77
100.00	17 23 43	5027.31	28.67	220.06	23.61	81.14	18 47 30	4427.3	27.14	211.59
110.00	10 59 45	1059.95	.72	326.47	17.20	124.18	11 17 25	460.0	5.20	320.25
110.00	18 56 56	4735.66	31.63	197.23	22.93	76.29	20 15 51	4135.7	29.42	188.71

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.5055 TRA 1.1481 TC3-5.6565 BAU  .7248   SGT 5003.3 SGR  680.9 SG3  823.9      ST  2880.9 SR   196.5 SS  2108.3
RDE -.0734 RRA  .2385 RC3 -.7705 FAU .09703   RRT  .9070 RRF  .9064 RTF  .9849      CRT  .8451 CRS -.8657 CST -.9991
FDE-3.0546 FRA 2.7386 FC3-8.8453 BSP  15769   SGB 5049.4 R23  .0243 R13  .9851      LSA 3573.5 MSA  123.5 SSA   17.0
BDE 1.5073 BRA 1.1677 BC3 5.7088 FSP  -2711   SG1 5041.4 SG2  284.7 THA   7.06      EL1 2885.7 EL2  104.9 ALF   3.30
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 182.00 ARRIVAL DATE NOV 22 1967

DISTANCE 504.690

HELIOCENTRIC CONIC
RL 151.49 LAL -.00 LOL 242.16 VL 26.860 GAL 3.45 AZL 92.55 HCA 228.48 SMA 128.76 ECC .18617 INC 2.5523 V1 29.412
RP 107.52 LAP 1.91 LOP 110.61 VP 37.920 GAP 5.02 AZP 88.31 TAL 164.58 TAP 33.06 RCA 104.79 APO 152.73 V2 35.244
RC 116.961 GL -22.19 GP -9.84 ZAL 65.80 ZAP 142.31 ETS 348.15 ZAE 133.83 ETE 188.88 ZAC 119.53 ETC 11.98 CLP-143.44

PLANETOCENTRIC CONIC
C3 9.995 VHL 3.162 DLA -19.66 RAL 169.39 RAD 6567.4 VEL 11.462 PTH 1.99 VHP 4.299 DPA 6.15 RAP 147.30 ECC 1.1645

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 20 40	1398.36	5.03	354.22	21.52	117.90	9 43 59	798.4	8.72	347.49
90.00	15 47 22	5369.49	27.82	245.36	26.19	84.50	17 16 51	4769.5	26.77	236.85
100.00	10 29 37	1175.85	3.94	337.26	20.92	119.65	10 49 13	575.9	7.86	330.67
100.00	17 21 6	5067.23	29.05	222.96	26.03	82.62	18 45 33	4467.2	27.72	214.41
110.00	11 11 11	1045.59	1.27	325.72	19.25	124.16	11 28 37	445.6	5.74	319.49
110.00	18 56 1	4770.26	32.15	199.78	25.41	77.72	20 15 31	4170.3	30.13	191.16

DIFFERENTIAL CORRECTIONS
TDE-1.6204 TRA 1.2551 TC3-5.5595 BAU .7484
RDE -.0465 RRA .2301 RC3 -.6770 FAU .08904
FDE-2.9467 FRA 2.6736 FC3-7.7125 BSP 16338
BDE 1.6211 BRA 1.2760 BC3 5.6006 FSP -2532

MID-COURSE EXECUTION ACCURACY
SGT 5178.4 SGR 621.6 SG3 766.8
RRT .8766 RRF .8728 RTF .9846
SGB 5215.6 R23 .0143 R13 .9847
SG1 5207.1 SG2 297.5 THA 6.03

ORBIT DETERMINATION ACCURACY
ST 3026.6 SR 157.8 SS 2065.3
CRT .7221 CRS -.7482 CST -.9992
LSA 3665.3 MSA 126.6 SSA 17.2
EL1 3028.8 EL2 109.1 ALF 2.16

LAUNCH DATE MAY 24 1967 FLIGHT TIME 184.00 ARRIVAL DATE NOV 24 1967

DISTANCE 510.776

HELIOCENTRIC CONIC
RL 151.49 LAL -.00 LOL 242.16 VL 26.839 GAL 3.69 AZL 92.63 HCA 231.73 SMA 128.62 ECC .18875 INC 2.6326 V1 29.412
RP 107.51 LAP 2.07 LOP 113.86 VP 37.908 GAP 5.43 AZP 88.37 TAL 163.76 TAP 35.49 RCA 104.34 APO 152.89 V2 35.248
RC 119.197 GL -22.27 GP -9.00 ZAL 64.35 ZAP 144.78 ETS 348.11 ZAE 132.64 ETE 187.91 ZAC 118.52 ETC 12.44 CLP-145.80

PLANETOCENTRIC CONIC
C3 10.539 VHL 3.246 DLA -20.36 RAL 170.79 RAD 6567.4 VEL 11.486 PTH 2.00 VHP 4.474 DPA 6.66 RAP 148.40 ECC 1.1734

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 34 18	1379.37	5.63	353.15	23.79	117.80	9 57 17	779.4	9.31	346.40
90.00	15 44 57	5409.76	28.05	248.28	28.68	85.94	17 15 6	4809.8	27.19	239.72
100.00	10 42 23	1159.64	4.49	336.37	23.16	119.58	11 1 43	559.6	8.40	329.76
100.00	17 19 33	5104.73	29.35	225.71	28.55	84.04	18 44 37	4504.7	28.21	217.09
110.00	11 22 21	1034.39	1.70	325.14	21.42	124.15	11 39 35	434.4	6.17	318.90
110.00	18 56 4	4802.73	32.60	202.21	27.98	79.09	20 16 7	4202.7	30.75	193.48

DIFFERENTIAL CORRECTIONS
TDE-1.7294 TRA 1.3775 TC3-5.4250 BAU .7690
RDE -.0204 RRA .2239 RC3 -.5976 FAU .08131
FDE-2.8271 FRA 2.6188 FC3-6.6791 BSP 16797
BDE 1.7295 BRA 1.3956 BC3 5.4578 FSP -2350

MID-COURSE EXECUTION ACCURACY
SGT 5333.6 SGR 574.0 SG3 712.5
RRT .8393 RRF .8324 RTF .9842
SGB 5364.4 R23 .0065 R13 .9842
SG1 5355.4 SG2 310.8 THA 5.18

ORBIT DETERMINATION ACCURACY
ST 3151.6 SR 132.0 SS 2012.2
CRT .5035 CRS -.5357 CST -.9992
LSA 3739.2 MSA 130.5 SSA 17.3
EL1 3152.3 EL2 114.0 ALF 1.21

LAUNCH DATE MAY 24 1967 FLIGHT TIME 186.00 ARRIVAL DATE NOV 26 1967

DISTANCE 516.838

HELIOCENTRIC CONIC
RL 151.49 LAL -.00 LOL 242.16 VL 26.816 GAL 3.94 AZL 92.71 HCA 234.98 SMA 128.46 ECC .19155 INC 2.7060 V1 29.412
RP 107.50 LAP 2.22 LOP 117.10 VP 37.895 GAP 5.83 AZP 88.45 TAL 162.91 TAP 37.88 RCA 103.86 APO 153.07 V2 35.252
RC 121.426 GL -22.24 GP -8.27 ZAL 62.86 ZAP 147.07 ETS 348.03 ZAE 131.56 ETE 187.12 ZAC 117.37 ETC 12.80 CLP-148.01

PLANETOCENTRIC CONIC
C3 11.134 VHL 3.337 DLA -20.98 RAL 172.27 RAD 6567.4 VEL 11.512 PTH 2.01 VHP 4.657 DPA 7.01 RAP 149.61 ECC 1.1832

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 47 32	1363.70	6.13	352.26	26.16	117.70	10 10 16	763.7	9.79	345.50
90.00	15 43 29	5447.88	28.20	251.06	31.25	87.33	17 14 17	4847.9	27.53	242.46
100.00	10 54 47	1146.64	4.93	335.65	25.50	119.52	11 13 54	546.6	8.82	329.03
100.00	17 18 55	5140.17	29.57	228.32	31.15	85.40	18 44 35	4540.2	28.62	219.65
110.00	11 33 14	1026.13	2.01	324.70	23.69	124.13	11 50 21	426.1	6.48	318.46
110.00	18 56 57	4833.45	32.97	204.53	30.65	80.42	20 17 31	4233.5	31.30	195.71

DIFFERENTIAL CORRECTIONS
TDE-1.8387 TRA 1.5054 TC3-5.2783 BAU .7896
RDE .0042 RRA .2190 RC3 -.5315 FAU .07443
FDE-2.7134 FRA 2.5639 FC3-5.7875 BSP 17299
BDE 1.8387 BRA 1.5213 BC3 5.3050 FSP -2196

MID-COURSE EXECUTION ACCURACY
SGT 5481.0 SGR 536.7 SG3 662.9
RRT .7960 RRF .7857 RTF .9838
SGB 5507.2 R23 -.0003 R13 .9838
SG1 5497.7 SG2 323.8 THA 4.47

ORBIT DETERMINATION ACCURACY
ST 3266.4 SR 121.5 SS 1959.9
CRT .1983 CRS -.2341 CST -.9993
LSA 3808.8 MSA 134.2 SSA 17.3
EL1 3266.5 EL2 119.1 ALF .42

LAUNCH DATE MAY 24 1967 FLIGHT TIME 188.00 ARRIVAL DATE NOV 28 1967

DISTANCE 522.875

HELIOCENTRIC CONIC
RL 151.49 LAL -.00 LOL 242.16 VL 26.792 GAL 4.21 AZL 92.77 HCA 238.22 SMA 128.31 ECC .19456 INC 2.7739 V1 29.412
RP 107.49 LAP 2.36 LOP 120.35 VP 37.882 GAP 6.25 AZP 88.54 TAL 162.03 TAP 40.25 RCA 103.34 APO 153.27 V2 35.255
RC 123.648 GL -22.12 GP -7.64 ZAL 61.34 ZAP 149.22 ETS 347.92 ZAE 130.57 ETE 186.48 ZAC 116.11 ETC 13.09 CLP-150.09

PLANETOCENTRIC CONIC
C3 11.788 VHL 3.433 DLA -21.53 RAL 173.80 RAD 6567.4 VEL 11.540 PTH 2.01 VHP 4.849 DPA 7.23 RAP 150.92 ECC 1.1940

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 0 22	1351.18	6.53	351.56	28.61	117.62	10 22 54	751.2	10.17	344.78
90.00	15 42 54	5484.14	28.29	253.71	33.90	88.66	17 14 18	4884.1	27.80	245.08
100.00	11 6 50	1136.70	5.26	335.10	27.92	119.47	11 25 46	536.7	9.15	328.47
100.00	17 19 8	5173.85	29.73	230.81	33.83	86.70	18 45 22	4573.9	28.95	222.10
110.00	11 43 52	1020.62	2.22	324.42	26.04	124.12	12 0 52	420.6	6.69	318.17
110.00	18 58 35	4862.70	33.28	206.76	33.41	81.70	20 19 38	4262.7	31.78	197.85

DIFFERENTIAL CORRECTIONS
TDE-1.9459 TRA 1.6424 TC3-5.1098 BAU .8088
RDE .0280 RRA .2152 RC3 -.4744 FAU .06805
FDE-2.6009 FRA 2.5146 FC3-4.9979 BSP 17762
BDE 1.9461 BRA 1.6564 BC3 5.1318 FSP -2052

MID-COURSE EXECUTION ACCURACY
SGT 5615.8 SGR 507.2 SG3 616.8
RRT .7472 RRF .7335 RTF .9834
SGB 5638.7 R23 -.0059 R13 .9834
SG1 5628.7 SG2 336.3 THA 3.87

ORBIT DETERMINATION ACCURACY
ST 3367.0 SR 125.3 SS 1905.3
CRT -.1148 CRS .0793 CST -.9993
LSA 3868.2 MSA 138.1 SSA 17.4
EL1 3367.1 EL2 124.4 ALF 179.75

LAUNCH DATE MAY 24 1967 FLIGHT TIME 190.00 ARRIVAL DATE NOV 30 1967

HELIOCENTRIC CONIC DISTANCE 528.884

RL 151.49 LAL -.00 LOL 242.16 VL 26.768 GAL 4.50 AZL 92.84 HCA 241.47 SMA 128.15 ECC .19780 INC 2.8371 VI 29.412
RP 107.48 LAP 2.49 LOP 123.60 VP 37.866 GAP 6.67 AZP 88.64 TAL 161.13 TAP 42.60 RCA 102.80 APO 153.49 V2 35.257
RC 125.861 GL -21.93 GP -7.09 ZAL 59.81 ZAP 151.23 ETS 347.77 ZAE 129.68 ETE 185.95 ZAC 114.74 ETC 13.30 CLP-152.05

PLANETOCENTRIC CONIC

C3 12.510 VHL 3.537 DLA -22.01 RAL 175.39 RAD 6567.5 VEL 11.571 PTH 2.02 VHP 5.049 DPA 7.32 RAP 152.32 ECC 1.2059

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 12 48	1341.73	6.82	351.02	31.15	117.55	10 35 9	741.7	10.46	344.23
90.00	15 43 7	5518.72	28.32	256.24	36.63	89.92	17 15 6	4918.7	28.01	247.59
100.00	11 18 29	1129.71	5.49	334.71	30.43	119.43	11 37 19	529.7	9.37	328.07
100.00	17 20 6	5205.98	29.83	233.20	36.60	87.95	18 46 52	4606.0	29.23	224.45
110.00	11 54 12	1017.76	2.33	324.27	28.47	124.11	12 11 10	417.8	6.79	318.02
110.00	19 0 53	4890.69	33.53	208.91	36.25	82.95	20 22 24	4290.7	32.20	199.93

DIFFERENTIAL CORRECTIONS
TOE-2.0513 TRA 1.7886 TC3-4.9228 BAU .8264
ROE .0513 RRA .2122 RC3 -.4243 FAU .06216
FOE-2.4917 FRA 2.4703 FC3-4.3017 BSP 18190
BOE 2.0519 BRA 1.8012 BC3 4.9410 FSP -1918

MID-COURSE EXECUTION ACCURACY
SGT 5738.9 SGR 484.2 SG3 574.3
RRT .6938 RRF .6769 RTF .9830
SGB 5759.3 R23 -.0107 R13 .9830
SG1 5748.7 SG2 348.1 THA 3.36

ORBIT DETERMINATION ACCURACY
ST 3454.2 SR 139.1 SS 1849.6
CRT -.3553 CRS .3227 CST -.9993
LSA 3918.0 MSA 142.3 SSA 17.2
EL1 3454.5 EL2 130.0 ALF 179.18

LAUNCH DATE MAY 24 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 2 1967

HELIOCENTRIC CONIC DISTANCE 534.864

RL 151.49 LAL -.00 LOL 242.16 VL 26.743 GAL 4.81 AZL 92.90 HCA 244.72 SMA 127.98 ECC .20128 INC 2.8965 VI 29.412
RP 107.48 LAP 2.62 LOP 126.85 VP 37.850 GAP 7.09 AZP 88.76 TAL 160.20 TAP 44.92 RCA 102.22 APO 153.74 V2 35.258
RC 128.066 GL -21.66 GP -6.61 ZAL 58.25 ZAP 153.13 ETS 347.57 ZAE 128.87 ETE 185.50 ZAC 113.28 ETC 13.46 CLP-153.90

PLANETOCENTRIC CONIC

C3 13.309 VHL 3.648 DLA -22.42 RAL 177.01 RAD 6567.5 VEL 11.606 PTH 2.03 VHP 5.257 DPA 7.30 RAP 153.81 ECC 1.2190

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 24 46	1335.31	7.03	350.66	33.77	117.50	10 47 1	735.3	10.66	343.86
90.00	15 44 5	5551.78	28.30	258.66	39.43	91.14	17 16 36	4951.8	28.15	249.99
100.00	11 29 44	1125.60	5.63	334.49	33.01	119.41	11 48 30	525.6	9.51	327.84
100.00	17 21 47	5236.71	29.88	235.48	39.43	89.15	18 49 4	4636.7	29.44	226.70
110.00	12 4 14	1017.47	2.34	324.25	30.97	124.11	12 21 11	417.5	6.80	318.01
110.00	19 3 47	4917.61	33.74	210.98	39.16	84.16	20 25 45	4317.6	32.57	201.94

DIFFERENTIAL CORRECTIONS
TOE-2.1514 TRA 1.9485 TC3-4.7098 BAU .8407
ROE .0745 RRA .2101 RC3 -.3791 FAU .05646
FOE-2.3801 FRA 2.4361 FC3-3.6727 BSP 18500
BOE 2.1527 BRA 1.9598 BC3 4.7250 FSP -1783

MID-COURSE EXECUTION ACCURACY
SGT 5846.8 SGR 466.4 SG3 534.6
RRT .6368 RRF .6171 RTF .9824
SGB 5865.4 R23 -.0141 R13 .9824
SG1 5854.4 SG2 359.1 THA 2.92

ORBIT DETERMINATION ACCURACY
ST 3523.3 SR 158.8 SS 1789.4
CRT -.5149 CRS .4854 CST -.9994
LSA 3952.1 MSA 147.2 SSA 17.0
EL1 3524.3 EL2 136.1 ALF 178.67

LAUNCH DATE MAY 24 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 4 1967

HELIOCENTRIC CONIC DISTANCE 540.814

RL 151.49 LAL -.00 LOL 242.16 VL 26.718 GAL 5.13 AZL 92.95 HCA 247.96 SMA 127.81 ECC .20501 INC 2.9529 VI 29.412
RP 107.48 LAP 2.74 LOP 130.10 VP 37.833 GAP 7.52 AZP 88.89 TAL 159.26 TAP 47.22 RCA 101.61 APO 154.02 V2 35.259
RC 130.261 GL -21.34 GP -6.18 ZAL 56.69 ZAP 154.93 ETS 347.32 ZAE 128.14 ETE 185.13 ZAC 111.74 ETC 13.58 CLP-155.65

PLANETOCENTRIC CONIC

C3 14.195 VHL 3.768 DLA -22.78 RAL 178.66 RAD 6567.6 VEL 11.644 PTH 2.04 VHP 5.474 DPA 7.18 RAP 155.36 ECC 1.2336

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 36 15	1331.91	7.13	350.46	36.44	117.48	10 58 27	731.9	10.76	343.66
90.00	15 45 44	5583.38	28.23	260.96	42.28	92.29	17 18 48	4983.4	28.25	252.30
100.00	11 40 33	1124.37	5.67	334.42	35.64	119.40	11 59 17	524.4	9.55	327.77
100.00	17 24 8	5266.15	29.89	237.67	42.33	90.30	18 51 54	4666.1	29.61	228.88
110.00	12 13 56	1019.70	2.26	324.37	33.52	124.12	12 30 56	419.7	6.72	318.12
110.00	19 7 14	4943.59	33.90	212.99	42.15	85.34	20 29 37	4343.6	32.89	203.90

DIFFERENTIAL CORRECTIONS
TOE-2.2546 TRA 2.1149 TC3-4.4957 BAU .8556
ROE .0972 RRA .2079 RC3 -.3393 FAU .05145
FOE-2.2797 FRA 2.4010 FC3-3.1377 BSP 18882
BOE 2.2567 BRA 2.1251 BC3 4.5085 FSP -1671

MID-COURSE EXECUTION ACCURACY
SGT 5949.8 SGR 452.6 SG3 498.5
RRT .5777 RRF .5553 RTF .9820
SGB 5967.0 R23 -.0173 R13 .9819
SG1 5955.5 SG2 369.1 THA 2.53

ORBIT DETERMINATION ACCURACY
ST 3586.2 SR 180.3 SS 1733.5
CRT -.6162 CRS .5898 CST -.9994
LSA 3984.3 MSA 151.8 SSA 16.8
EL1 3587.9 EL2 141.9 ALF 178.22

LAUNCH DATE MAY 24 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 6 1967

HELIOCENTRIC CONIC DISTANCE 546.730

RL 151.49 LAL -.00 LOL 242.16 VL 26.692 GAL 5.48 AZL 93.01 HCA 251.21 SMA 127.64 ECC .20903 INC 3.0067 VI 29.412
RP 107.48 LAP 2.85 LOP 133.35 VP 37.814 GAP 7.97 AZP 89.03 TAL 158.29 TAP 49.50 RCA 100.96 APO 154.32 V2 35.259
RC 132.447 GL -20.96 GP -5.80 ZAL 55.13 ZAP 156.63 ETS 347.01 ZAE 127.47 ETE 184.80 ZAC 110.12 ETC 13.66 CLP-157.32

PLANETOCENTRIC CONIC

C3 15.181 VHL 3.896 DLA -23.09 RAL 180.32 RAD 6567.6 VEL 11.686 PTH 2.06 VHP 5.699 DPA 6.98 RAP 156.97 ECC 1.2498

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 47 12	1331.55	7.14	350.44	39.16	117.47	11 9 24	731.5	10.77	343.64
90.00	15 48 4	5613.61	28.13	263.17	45.20	93.39	17 21 38	5013.6	28.30	254.51
100.00	11 50 53	1125.99	5.62	334.51	38.33	119.41	12 9 39	526.0	9.49	327.86
100.00	17 27 5	5294.40	29.86	239.77	45.28	91.41	18 55 19	4694.4	29.74	230.97
110.00	12 23 17	1024.41	2.08	324.61	36.13	124.13	12 40 22	424.4	6.54	318.37
110.00	19 11 10	4968.74	34.02	214.95	45.19	86.49	20 33 59	4368.7	33.16	205.81

DIFFERENTIAL CORRECTIONS
TOE-2.3565 TRA 2.2924 TC3-4.2710 BAU .8690
ROE .1200 RRA .2059 RC3 -.3031 FAU .04679
FOE-2.1835 FRA 2.3703 FC3-2.6685 BSP 19228
BOE 2.3596 BRA 2.3017 BC3 4.2817 FSP -1566

MID-COURSE EXECUTION ACCURACY
SGT 6042.7 SGR 441.9 SG3 465.2
RRT .5172 RRF .4926 RTF .9815
SGB 6058.9 R23 -.0199 R13 .9814
SG1 6047.1 SG2 378.0 THA 2.17

ORBIT DETERMINATION ACCURACY
ST 3636.9 SR 202.3 SS 1677.5
CRT -.6824 CRS .6584 CST -.9994
LSA 4007.2 MSA 156.6 SSA 16.6
EL1 3639.6 EL2 147.8 ALF 177.82

LAUNCH DATE MAY 24 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 8 1967

DISTANCE 552.611

HELIOCENTRIC CONIC
RL 151.49 LAL -.00 LOL 242.16 VL 26.665 GAL 5.85 AZL 93.06 HCA 254.46 SMA 127.47 ECC .21334 INC 3.0585 VI 29.412
RP 107.48 LAP 2.95 LOP 136.60 VP 37.795 GAP 8.42 AZP 89.18 TAL 157.31 TAP 51.77 RCA 100.28 APO 154.66 V2 35.258
RC 134.624 GL -20.54 GP -5.46 ZAL 53.57 ZAP 158.25 ETS 346.64 ZAE 126.86 ETE 184.53 ZAC 108.44 ETC 13.71 CLP-158.92

PLANETOCENTRIC CONIC
C3 16.278 VHL 4.035 DLA -23.34 RAL 182.00 RAD 6567.7 VEL 11.733 PTH 2.07 VHP 5.934 DPA 6.70 RAP 158.64 ECC 1.2679

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 57 36	1334.24	7.06	350.60	41.93	117.49	11 19 50	734.2	10.69	343.80
90.00	15 51 3	5642.51	28.00	265.27	48.17	94.44	17 25 5	5042.5	28.32	256.62
100.00	12 0 44	1130.45	5.47	334.75	41.06	119.43	12 19 34	530.5	9.35	328.12
100.00	17 30 36	5321.54	29.80	241.78	48.30	92.47	18 59 17	4721.5	29.82	232.98
110.00	12 32 16	1031.57	1.81	324.99	38.79	124.14	12 49 27	431.6	6.27	318.75
110.00	19 15 33	4993.18	34.11	216.85	48.30	87.62	20 38 47	4393.2	33.40	207.68

DIFFERENTIAL CORRECTIONS
TDE-2.4578 TRA 2.4823 TC3-4.0375 BAU .8806
RDE .1429 RRA .2039 RC3 -.2702 FAU .04248
FDE-2.0925 FRA 2.3444 FC3-2.2590 BSP 19539
BDE 2.4619 BRA 2.4907 BC3 4.0465 FSP -1469

MID-COURSE EXECUTION ACCURACY
SGT 6126.8 SGR 433.7 SG3 434.6
RRT .4564 RRF .4299 RTF .9810
SGB 6142.1 R23 -.0220 R13 .9810
SG1 6130.0 SG2 385.7 THA 1.86

ORBIT DETERMINATION ACCURACY
ST 3676.7 SR 224.0 SS 1622.8
CRT -.7269 CRS .7049 CST -.9994
LSA 4021.9 MSA 161.5 SSA 16.3
EL1 3680.3 EL2 153.7 ALF 177.46

LAUNCH DATE MAY 24 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 10 1967

DISTANCE 558.453

HELIOCENTRIC CONIC
RL 151.49 LAL -.00 LOL 242.16 VL 26.638 GAL 6.24 AZL 93.11 HCA 257.71 SMA 127.29 ECC .21797 INC 3.1086 VI 29.412
RP 107.48 LAP 3.04 LOP 139.85 VP 37.774 GAP 8.89 AZP 89.34 TAL 156.32 TAP 54.02 RCA 99.55 APO 155.04 V2 35.256
RC 136.791 GL -20.07 GP -5.16 ZAL 52.02 ZAP 159.80 ETS 346.19 ZAE 126.30 ETE 184.28 ZAC 106.70 ETC 13.74 CLP-160.44

PLANETOCENTRIC CONIC
C3 17.504 VHL 4.184 DLA -23.55 RAL 183.67 RAD 6567.7 VEL 11.785 PTH 2.08 VHP 6.180 DPA 6.36 RAP 160.36 ECC 1.2881

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 7 23	1340.00	6.88	350.92	44.74	117.54	11 29 43	740.0	10.51	344.13
90.00	15 54 37	5670.14	27.83	267.28	51.19	95.43	17 29 8	5070.1	28.29	258.64
100.00	12 10 3	1137.73	5.23	335.16	43.83	119.47	12 29 1	537.7	9.11	328.53
100.00	17 34 39	5347.64	29.71	243.72	51.36	93.48	19 3 47	4747.6	29.87	234.92
110.00	12 40 51	1041.15	1.44	325.49	41.48	124.16	12 58 12	441.1	5.91	319.26
110.00	19 20 20	5016.99	34.16	218.71	51.46	88.71	20 43 57	4417.0	33.61	209.51

DIFFERENTIAL CORRECTIONS
TDE-2.5590 TRA 2.6842 TC3-3.7987 BAU .8907
RDE .1660 RRA .2015 RC3 -.2399 FAU .03846
FDE-2.0066 FRA 2.3221 FC3-1.9023 BSP 19825
BDE 2.5643 BRA 2.6918 BC3 3.8062 FSP -1378

MID-COURSE EXECUTION ACCURACY
SGT 6202.0 SGR 427.3 SG3 406.3
RRT .3956 RRF .3677 RTF .9805
SGB 6216.7 R23 -.0237 R13 .9805
SG1 6204.3 SG2 392.3 THA 1.57

ORBIT DETERMINATION ACCURACY
ST 3706.4 SR 244.7 SS 1569.1
CRT -.7581 CRS .7377 CST -.9995
LSA 4028.9 MSA 166.4 SSA 16.0
EL1 3711.1 EL2 159.4 ALF 177.13

LAUNCH DATE MAY 24 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 12 1967

DISTANCE 564.253

HELIOCENTRIC CONIC
RL 151.49 LAL -.00 LOL 242.16 VL 26.611 GAL 6.66 AZL 93.16 HCA 260.95 SMA 127.12 ECC .22294 INC 3.1576 VI 29.412
RP 107.49 LAP 3.12 LOP 143.10 VP 37.753 GAP 9.37 AZP 89.50 TAL 155.31 TAP 56.27 RCA 98.78 APO 155.46 V2 35.254
RC 138.949 GL -19.58 GP -4.90 ZAL 50.48 ZAP 161.28 ETS 345.66 ZAE 125.79 ETE 184.07 ZAC 104.92 ETC 13.74 CLP-161.91

PLANETOCENTRIC CONIC
C3 18.875 VHL 4.344 DLA -23.72 RAL 185.34 RAD 6567.8 VEL 11.843 PTH 2.10 VHP 6.436 DPA 5.95 RAP 162.12 ECC 1.3106

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 16 33	1348.82	6.60	351.42	47.57	117.60	11 39 2	748.8	10.25	344.64
90.00	15 58 47	5696.56	27.65	269.19	54.25	96.37	17 33 43	5096.6	28.24	260.58
100.00	12 18 49	1147.82	4.89	335.72	46.63	119.53	12 37 57	547.8	8.78	329.10
100.00	17 39 12	5372.79	29.59	245.58	54.46	94.45	19 8 44	4772.8	29.89	236.79
110.00	12 49 2	1053.10	.98	326.11	44.20	124.17	13 6 35	453.1	5.46	319.89
110.00	19 25 29	5040.27	34.18	220.53	54.66	89.79	20 49 29	4440.3	33.78	211.30

DIFFERENTIAL CORRECTIONS
TDE-2.6575 TRA 2.9024 TC3-3.5507 BAU .8976
RDE .1896 RRA .1987 RC3 -.2120 FAU .03461
FDE-1.9231 FRA 2.3061 FC3-1.5876 BSP 20019
BDE 2.6643 BRA 2.9092 BC3 3.5570 FSP -1289

MID-COURSE EXECUTION ACCURACY
SGT 6267.5 SGR 422.4 SG3 380.3
RRT .3357 RRF .3071 RTF .9800
SGB 6281.7 R23 -.0247 R13 .9800
SG1 6269.1 SG2 397.7 THA 1.30

ORBIT DETERMINATION ACCURACY
ST 3723.6 SR 264.4 SS 1515.5
CRT -.7801 CRS .7609 CST -.9995
LSA 4025.2 MSA 171.4 SSA 15.7
EL1 3729.3 EL2 165.2 ALF 176.82

LAUNCH DATE MAY 24 1967 FLIGHT TIME 204.00 ARRIVAL DATE DEC 14 1967

DISTANCE 570.006

HELIOCENTRIC CONIC
RL 151.49 LAL -.00 LOL 242.16 VL 26.584 GAL 7.10 AZL 93.21 HCA 264.20 SMA 126.94 ECC .22829 INC 3.2056 VI 29.412
RP 107.50 LAP 3.19 LOP 146.35 VP 37.731 GAP 9.87 AZP 89.68 TAL 154.30 TAP 58.50 RCA 97.96 APO 155.92 V2 35.251
RC 141.095 GL -19.06 GP -4.66 ZAL 48.96 ZAP 162.70 ETS 345.04 ZAE 125.32 ETE 183.88 ZAC 103.08 ETC 13.74 CLP-163.32

PLANETOCENTRIC CONIC
C3 20.411 VHL 4.518 DLA -23.84 RAL 187.00 RAD 6567.8 VEL 11.908 PTH 2.12 VHP 6.705 DPA 5.48 RAP 163.91 ECC 1.3359

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 25 4	1360.70	6.22	352.09	50.42	117.68	11 47 44	760.7	9.88	345.32
90.00	16 3 29	5721.79	27.44	271.01	57.35	97.26	17 38 50	5121.8	28.17	262.42
100.00	12 27 2	1160.68	4.46	336.43	49.45	119.59	12 46 22	560.7	8.36	329.82
100.00	17 44 12	5397.04	29.45	247.37	57.61	95.38	19 14 9	4797.0	29.88	238.59
110.00	12 56 46	1067.39	.44	326.86	46.95	124.18	13 14 34	467.4	4.92	320.64
110.00	19 30 56	5063.10	34.17	222.31	57.91	90.85	20 55 19	4463.1	33.91	213.07

DIFFERENTIAL CORRECTIONS
TDE-2.7601 TRA 3.1309 TC3-3.3093 BAU .9044
RDE .2134 RRA .1952 RC3 -.1865 FAU .03118
FDE-1.8481 FRA 2.2905 FC3-1.3226 BSP 20271
BDE 2.7683 BRA 3.1370 BC3 3.3146 FSP -1213

MID-COURSE EXECUTION ACCURACY
SGT 6327.7 SGR 418.3 SG3 356.3
RRT .2764 RRF .2473 RTF .9796
SGB 6341.5 R23 -.0256 R13 .9796
SG1 6328.8 SG2 401.9 THA 1.05

ORBIT DETERMINATION ACCURACY
ST 3735.9 SR 282.6 SS 1465.8
CRT -.7967 CRS .7787 CST -.9995
LSA 4019.2 MSA 176.0 SSA 15.4
EL1 3742.7 EL2 170.5 ALF 176.54

LAUNCH DATE MAY 24 1967 FLIGHT TIME 206.00 ARRIVAL DATE DEC 16 1967

HELIOCENTRIC CONIC DISTANCE 575.708

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.556 GAL   7.58 AZL  93.25 HCA 267.45 SMA 126.76 ECC .23404 INC 3.2531 V1  29.412
RP  107.51 LAP   3.25 LOP 149.60 VP  37.707 GAP  10.38 AZP  89.85 TAL 153.28 TAP  60.73 RCA  97.09 APO 156.43 V2  35.247
RC 143.232 GL  -18.51 GP   -4.44 ZAL  47.46 ZAP 164.07 ETS 344.30 ZAE 124.88 ETE 183.70 ZAC 101.21 ETC  13.73 CLP-164.69
```

PLANETOCENTRIC CONIC

```
C3  22.135 VHL  4.705 DLA -23.93 RAL 188.63 RAD 6567.9 VEL 11.980 PTH   2.14 VHP  6.987 DPA   4.97 RAP 165.73 ECC 1.3643
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 32 54	1375.60	5.75	352.93	53.29	117.77	11 55 50	775.6	9.43	346.18
90.00	16 8 41	5745.92	27.22	272.74	60.49	98.10	17 44 27	5145.9	28.07	264.18
100.00	12 34 39	1176.27	3.93	337.29	52.29	119.66	12 54 16	576.3	7.85	330.69
100.00	17 49 37	5420.48	29.29	249.09	60.79	96.28	19 19 57	4820.5	29.85	240.33
110.00	13 4 5	1083.98	-.20	327.72	49.72	124.18	13 22 9	484.0	4.29	321.51
110.00	19 36 41	5085.54	34.14	224.06	61.19	91.88	21 1 26	4485.5	34.02	214.82

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.8639 TRA 3.3742 TC3-3.0685 BAU  .9093   SGT 6380.4 SGR  414.8 SG3  334.2      ST  3740.4 SR   299.4 SS  1418.3
RDE  .2377 RRA  .1909 RC3 -.1632 FAU .02797   RRT  .2180 RRF  .1889 RTF  .9793     CRT -.8093 CRS  .7922 CST -.9995
FDE-1.7782 FRA 2.2784 FC3-1.0939 BSP  20497   SGB 6393.9 R23 -.0261 R13  .9793     LSA 4007.3 MSA  180.4 SSA   15.1
BDE 2.8738 BRA 3.3796 BC3 3.0728 FSP  -1141   SG1 6381.1 SG2  404.8 THA    .82     EL1 3748.2 EL2  175.5 ALF 176.28
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 208.00 ARRIVAL DATE DEC 18 1967

HELIOCENTRIC CONIC DISTANCE 581.352

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.528 GAL   8.08 AZL  93.30 HCA 270.69 SMA 126.58 ECC .24024 INC 3.3004 V1  29.412
RP  107.53 LAP   3.30 LOP 152.85 VP  37.683 GAP  10.92 AZP  90.04 TAL 152.26 TAP  62.95 RCA  96.17 APO 156.99 V2  35.243
RC 145.356 GL  -17.95 GP   -4.24 ZAL  46.00 ZAP 165.40 ETS 343.42 ZAE 124.47 ETE 183.55 ZAC  99.31 ETC  13.71 CLP-166.02
```

PLANETOCENTRIC CONIC

```
C3  24.076 VHL  4.907 DLA -23.98 RAL 190.24 RAD 6568.0 VEL 12.060 PTH   2.16 VHP  7.284 DPA   4.41 RAP 167.57 ECC 1.3962
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 40 5	1393.46	5.18	353.94	56.17	117.88	12 3 18	793.5	8.88	347.21
90.00	16 14 21	5769.03	26.99	274.39	63.66	98.90	17 50 30	5169.0	27.95	265.86
100.00	12 41 42	1194.53	3.32	338.29	55.14	119.72	13 1 37	594.5	7.25	331.71
100.00	17 55 25	5443.19	29.11	250.76	64.00	97.14	19 26 8	4843.2	29.79	242.02
110.00	13 10 57	1102.81	-.92	328.70	52.50	124.17	13 29 20	502.8	3.57	322.50
110.00	19 42 39	5107.68	34.07	225.79	64.51	92.90	21 7 47	4507.7	34.10	216.54

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.9690 TRA 3.6337 TC3-2.8295 BAU  .9119   SGT 6426.0 SGR  411.8 SG3  313.8      ST  3737.2 SR   314.7 SS  1372.8
RDE  .2625 RRA  .1856 RC3 -.1419 FAU .02495   RRT  .1606 RRF  .1320 RTF  .9791     CRT -.8190 CRS  .8027 CST -.9995
FDE-1.7128 FRA 2.2700 FC3 -.8972 BSP  20698   SGB 6439.2 R23 -.0262 R13  .9790     LSA 3989.5 MSA  184.6 SSA   14.7
BDE 2.9806 BRA 3.6384 BC3 2.8331 FSP  -1075   SG1 6426.3 SG2  406.5 THA    .59     EL1 3746.1 EL2  180.2 ALF 176.05
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 210.00 ARRIVAL DATE DEC 20 1967

HELIOCENTRIC CONIC DISTANCE 586.932

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.500 GAL   8.62 AZL  93.35 HCA 273.93 SMA 126.40 ECC .24693 INC 3.3477 V1  29.412
RP  107.54 LAP   3.34 LOP 156.10 VP  37.659 GAP  11.48 AZP  90.23 TAL 151.24 TAP  65.17 RCA  95.19 APO 157.61 V2  35.237
RC 147.469 GL  -17.37 GP   -4.07 ZAL  44.56 ZAP 166.69 ETS 342.37 ZAE 124.09 ETE 183.40 ZAC  97.38 ETC  13.70 CLP-167.31
```

PLANETOCENTRIC CONIC

```
C3  26.266 VHL  5.125 DLA -23.99 RAL 191.82 RAD 6568.1 VEL 12.151 PTH   2.18 VHP  7.598 DPA   3.81 RAP 169.44 ECC 1.4323
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 46 34	1414.21	4.52	355.11	59.05	117.98	12 10 9	814.2	8.23	348.39
90.00	16 20 27	5791.18	26.75	275.97	66.86	99.66	17 56 58	5191.2	27.81	267.46
100.00	12 48 10	1215.38	2.61	339.44	57.99	119.79	13 8 25	615.4	6.56	332.87
100.00	18 1 32	5465.24	28.91	252.37	67.23	97.96	19 32 37	4865.2	29.71	243.65
110.00	13 17 22	1123.81	-1.72	329.80	55.29	124.15	13 36 6	523.8	2.77	323.60
110.00	19 48 49	5129.57	33.99	227.49	67.85	93.91	21 14 19	4529.6	34.15	218.25

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-3.0729 TRA 3.9135 TC3-2.5893 BAU  .9103   SGT 6463.6 SGR  409.1 SG3  294.9      ST  3724.5 SR   328.6 SS  1328.2
RDE  .2879 RRA  .1792 RC3 -.1224 FAU .02201   RRT  .1047 RRF  .0772 RTF  .9788     CRT -.8262 CRS  .8105 CST -.9996
FDE-1.6496 FRA 2.2673 FC3 -.7254 BSP  20791   SGB 6476.5 R23 -.0258 R13  .9788     LSA 3963.4 MSA  188.6 SSA   14.4
BDE 3.0864 BRA 3.9176 BC3 2.5922 FSP  -1007   SG1 6463.7 SG2  406.9 THA    .38     EL1 3734.4 EL2  184.6 ALF 175.82
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 212.00 ARRIVAL DATE DEC 22 1967

HELIOCENTRIC CONIC DISTANCE 592.439

```
RL  151.49 LAL   -.00 LOL 242.16 VL  26.472 GAL   9.20 AZL  93.40 HCA 277.18 SMA 126.22 ECC .25416 INC 3.3953 V1  29.412
RP  107.56 LAP   3.37 LOP 159.35 VP  37.633 GAP  12.07 AZP  90.42 TAL 150.22 TAP  67.40 RCA  94.14 APO 158.30 V2  35.231
RC 149.570 GL  -16.78 GP   -3.91 ZAL  43.16 ZAP 167.94 ETS 341.11 ZAE 123.72 ETE 183.26 ZAC  95.42 ETC  13.68 CLP-168.58
```

PLANETOCENTRIC CONIC

```
C3  28.742 VHL  5.361 DLA -23.97 RAL 193.36 RAD 6568.2 VEL 12.252 PTH   2.20 VHP  7.929 DPA   3.18 RAP 171.32 ECC 1.4730
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 52 24	1437.74	3.77	356.43	61.93	118.09	12 16 22	837.7	7.50	349.73
90.00	16 26 55	5812.48	26.50	277.48	70.07	100.37	18 3 47	5212.5	27.66	269.00
100.00	12 54 3	1238.75	1.82	340.72	60.85	119.84	13 14 41	638.7	5.78	334.17
100.00	18 7 57	5486.70	28.70	253.93	70.49	98.76	19 39 24	4886.7	29.61	245.24
110.00	13 23 19	1146.93	-2.60	331.01	58.09	124.10	13 42 26	546.9	1.89	324.80
110.00	19 55 10	5151.28	33.87	229.18	71.22	94.90	21 21 1	4551.3	34.18	219.94

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-3.1838 TRA 4.2071 TC3-2.3612 BAU  .9082   SGT 6496.0 SGR  406.5 SG3  277.5      ST  3709.8 SR   340.7 SS  1288.1
RDE  .3138 RRA  .1713 RC3 -.1048 FAU .01939   RRT  .0491 RRF  .0229 RTF  .9787     CRT -.8323 CRS  .8173 CST -.9996
FDE-1.5943 FRA 2.2651 FC3 -.5839 BSP  20970   SGB 6508.7 R23 -.0253 R13  .9787     LSA 3937.1 MSA  191.9 SSA   14.1
BDE 3.1992 BRA 4.2106 BC3 2.3635 FSP   -951   SG1 6496.1 SG2  406.0 THA    .18     EL1 3720.6 EL2  188.3 ALF 175.62
```

LAUNCH DATE MAY 24 1967 FLIGHT TIME 214.00 ARRIVAL DATE DEC 24 1967

HELIOCENTRIC CONIC DISTANCE 597.863

RL 151.49 LAL -.00 LOL 242.16 VL 26.443 GAL 9.82 AZL 93.44 HCA 280.42 SMA 126.04 ECC .26199 INC 3.4436 V1 29.412
RP 107.58 LAP 3.39 LOP 162.60 VP 37.607 GAP 12.68 AZP 90.62 TAL 149.21 TAP 69.63 RCA 93.02 APO 159.06 V2 35.225
RC 151.657 GL -16.18 GP -3.76 ZAL 41.80 ZAP 169.15 ETS 339.56 ZAE 123.36 ETE 183.13 ZAC 93.45 ETC 13.67 CLP-169.82

PLANETOCENTRIC CONIC

C3 31.549 VHL 5.617 DLA -23.92 RAL 194.86 RAD 6568.3 VEL 12.366 PTH 2.23 VHP 8.282 DPA 2.51 RAP 173.21 ECC 1.5192

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 57 34	1463.95	2.93	357.89	64.80	118.18	12 21 58	863.9	6.67	351.21
90.00	16 33 42	5833.00	26.24	278.92	73.31	101.05	18 10 55	5233.0	27.50	270.48
100.00	12 59 21	1264.52	.95	342.14	63.70	119.88	13 20 25	664.5	4.91	335.60
100.00	18 14 37	5507.66	28.47	255.44	73.77	99.52	19 46 24	4907.7	29.49	246.79
110.00	13 28 49	1172.10	-3.56	332.32	60.89	124.02	13 48 21	572.1	.93	326.12
110.00	20 1 38	5172.85	33.73	230.84	74.60	95.88	21 27 51	4572.8	34.18	221.63

DIFFERENTIAL CORRECTIONS
TDE-3.2978 TRA 4.5205 TC3-2.1392 BAU .9031
RDE .3402 RRA .1620 RC3 -.0890 FAU .01690
FDE-1.5433 FRA 2.2666 FC3 -.4638 BSP 21125
BDE 3.3153 BRA 4.5234 BC3 2.1411 FSP -898

MID-COURSE EXECUTION ACCURACY
SGT 6522.1 SGR 403.9 SG3 261.3
RRT -.0057 RRF -.0302 RTF .9788
SGB 6534.5 R23 .0246 R13 -.9788
SG1 6522.1 SG2 403.9 THA 179.98

ORBIT DETERMINATION ACCURACY
ST 3689.4 SR 351.3 SS 1250.6
CRT -.8373 CRS .8228 CST -.9996
LSA 3906.5 MSA 194.7 SSA 13.7
EL1 3701.1 EL2 191.4 ALF 175.43

LAUNCH DATE MAY 24 1967 FLIGHT TIME 216.00 ARRIVAL DATE DEC 26 1967

HELIOCENTRIC CONIC DISTANCE 603.194

RL 151.49 LAL -.00 LOL 242.16 VL 26.415 GAL 10.48 AZL 93.49 HCA 283.66 SMA 125.86 ECC .27047 INC 3.4929 V1 29.412
RP 107.60 LAP 3.39 LOP 165.84 VP 37.581 GAP 13.34 AZP 90.83 TAL 148.22 TAP 71.88 RCA 91.82 APO 159.91 V2 35.217
RC 153.730 GL -15.57 GP -3.63 ZAL 40.48 ZAP 170.34 ETS 337.62 ZAE 123.02 ETE 183.01 ZAC 91.47 ETC 13.67 CLP-171.04

PLANETOCENTRIC CONIC

C3 34.741 VHL 5.894 DLA -23.83 RAL 196.32 RAD 6568.4 VEL 12.494 PTH 2.26 VHP 8.658 DPA 1.82 RAP 175.11 ECC 1.5717

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 2 6	1492.70	2.00	359.50	67.66	118.25	12 26 58	892.7	5.77	352.84
90.00	16 40 47	5852.84	25.97	280.31	76.56	101.70	18 18 20	5252.8	27.32	271.91
100.00	13 4 5	1292.61	-.01	343.68	66.54	119.89	13 25 37	692.6	3.97	337.15
100.00	18 21 29	5528.16	28.23	256.92	77.05	100.26	19 53 37	4928.2	29.36	248.30
110.00	13 33 52	1199.22	-4.60	333.74	63.69	123.91	13 53 51	599.2	-.11	327.53
110.00	20 8 11	5194.31	33.57	232.50	77.99	96.84	21 34 46	4594.3	34.16	223.31

DIFFERENTIAL CORRECTIONS
TDE-3.4161 TRA 4.8552 TC3-1.9243 BAU .8944
RDE .3673 RRA .1510 RC3 -.0750 FAU .01454
FDE-1.4966 FRA 2.2720 FC3 -.3624 BSP 21249
BDE 3.4357 BRA 4.8576 BC3 1.9257 FSP -848

MID-COURSE EXECUTION ACCURACY
SGT 6541.8 SGR 401.3 SG3 246.3
RRT -.0597 RRF -.0822 RTF .9789
SGB 6554.1 R23 .0236 R13 -.9789
SG1 6541.8 SG2 400.6 THA 179.79

ORBIT DETERMINATION ACCURACY
ST 3664.4 SR 360.3 SS 1215.7
CRT -.8415 CRS .8275 CST -.9996
LSA 3872.5 MSA 197.0 SSA 13.4
EL1 3676.9 EL2 194.0 ALF 175.26

LAUNCH DATE MAY 24 1967 FLIGHT TIME 218.00 ARRIVAL DATE DEC 28 1967

HELIOCENTRIC CONIC DISTANCE 608.416

RL 151.49 LAL -.00 LOL 242.16 VL 26.387 GAL 11.19 AZL 93.54 HCA 286.90 SMA 125.69 ECC .27969 INC 3.5436 V1 29.412
RP 107.63 LAP 3.39 LOP 169.09 VP 37.553 GAP 14.03 AZP 91.03 TAL 147.24 TAP 74.14 RCA 90.53 APO 160.84 V2 35.210
RC 155.789 GL -14.97 GP -3.51 ZAL 39.21 ZAP 171.50 ETS 335.16 ZAE 122.67 ETE 182.89 ZAC 89.47 ETC 13.67 CLP-172.25

PLANETOCENTRIC CONIC

C3 38.382 VHL 6.195 DLA -23.72 RAL 197.72 RAD 6568.5 VEL 12.639 PTH 2.29 VHP 9.060 DPA 1.11 RAP 177.01 ECC 1.6317

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 6 0	1523.85	1.00	1.24	70.51	118.30	12 31 24	923.8	4.77	354.59
90.00	16 48 5	5872.06	25.70	281.66	79.81	102.32	18 25 57	5272.1	27.14	273.28
100.00	13 8 15	1322.88	-1.03	345.34	69.38	119.88	13 30 18	722.9	2.95	338.82
100.00	18 28 31	5548.26	27.98	258.36	80.34	100.98	20 0 59	4948.3	29.21	249.77
110.00	13 38 26	1228.21	-5.69	335.27	66.48	123.76	13 58 55	628.2	-1.22	329.04
110.00	20 14 49	5215.69	33.39	234.14	81.38	97.80	21 41 44	4615.7	34.10	224.97

DIFFERENTIAL CORRECTIONS
TDE-3.5395 TRA 5.2130 TC3-1.7173 BAU .8818
RDE .3949 RRA .1382 RC3 -.0626 FAU .01230
FDE-1.4544 FRA 2.2812 FC3 -.2774 BSP 21362
BDE 3.5615 BRA 5.2148 BC3 1.7185 FSP -801

MID-COURSE EXECUTION ACCURACY
SGT 6555.4 SGR 398.6 SG3 232.4
RRT -.1131 RRF -.1333 RTF .9792
SGB 6567.5 R23 .0223 R13 -.9792
SG1 6555.6 SG2 396.0 THA 179.60

ORBIT DETERMINATION ACCURACY
ST 3635.2 SR 367.6 SS 1183.8
CRT -.8450 CRS .8315 CST -.9996
LSA 3835.6 MSA 198.7 SSA 13.0
EL1 3648.5 EL2 195.9 ALF 175.10

LAUNCH DATE MAY 24 1967 FLIGHT TIME 220.00 ARRIVAL DATE DEC 30 1967

HELIOCENTRIC CONIC DISTANCE 613.512

RL 151.49 LAL -.00 LOL 242.16 VL 26.359 GAL 11.96 AZL 93.60 HCA 290.14 SMA 125.51 ECC .28974 INC 3.5960 V1 29.412
RP 107.65 LAP 3.38 LOP 172.33 VP 37.526 GAP 14.77 AZP 91.24 TAL 146.29 TAP 76.43 RCA 89.15 APO 161.88 V2 35.201
RC 157.834 GL -14.36 GP -3.40 ZAL 37.98 ZAP 172.63 ETS 331.94 ZAE 122.33 ETE 182.78 ZAC 87.48 ETC 13.69 CLP-173.45

PLANETOCENTRIC CONIC

C3 42.552 VHL 6.523 DLA -23.58 RAL 199.07 RAD 6568.6 VEL 12.803 PTH 2.33 VHP 9.491 DPA .38 RAP 178.91 ECC 1.7003

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 9 17	1557.26	-.08	3.10	73.33	118.32	12 35 14	957.3	3.71	356.46
90.00	16 55 34	602.69	25.42	305.05	83.06	102.91	17 5 37	2.7	26.95	296.71
100.00	13 11 52	1355.23	-2.13	347.11	72.19	119.82	13 34 27	755.2	1.85	340.59
100.00	18 35 40	5567.99	27.71	259.77	83.62	101.68	20 8 28	4968.0	29.04	251.22
110.00	13 42 33	1258.99	-6.86	336.90	69.27	123.57	14 3 32	659.0	-2.40	330.65
110.00	20 21 28	5236.99	33.18	235.77	84.76	98.74	21 48 45	4637.0	34.03	226.63

DIFFERENTIAL CORRECTIONS
TDE-3.6657 TRA 5.5995 TC3-1.5159 BAU .8629
RDE .4231 RRA .1232 RC3 -.0518 FAU .01007
FDE-1.4147 FRA 2.2963 FC3 -.2050 BSP 21373
BDE 3.6901 BRA 5.6009 BC3 1.5168 FSP -754

MID-COURSE EXECUTION ACCURACY
SGT 6563.3 SGR 395.8 SG3 219.6
RRT -.1654 RRF -.1829 RTF .9796
SGB 6575.3 R23 .0206 R13 -.9796
SG1 6563.7 SG2 390.3 THA 179.43

ORBIT DETERMINATION ACCURACY
ST 3600.3 SR 373.4 SS 1153.9
CRT -.8477 CRS .8345 CST -.9996
LSA 3793.8 MSA 199.9 SSA 12.7
EL1 3614.2 EL2 197.3 ALF 174.96

LAUNCH DATE MAY 25 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 3 1967

HELIOCENTRIC CONIC DISTANCE 142.755

RL 151.51 LAL .00 LOL 243.12 VL 19.015 GAL 11.58 AZL 92.66 HCA 50.20 SMA 95.46 ECC .60926 INC 2.6550 V1 29.406
RP 108.91 LAP -2.04 LOP 293.29 VP 32.355 GAP -36.78 AZP 91.70 TAL 172.35 TAP 222.55 RCA 37.30 APO 153.62 V2 34.795
RC 57.057 GL -4.35 GP 1.23 ZAL 72.09 ZAP 24.58 ETS 184.31 ZAE 153.25 ETE 162.70 ZAC 125.79 ETC 20.19 CLP 24.56

PLANETOCENTRIC CONIC

C3 129.556 VHL 11.382 DLA -.46 RAL 170.10 RAD 6570.4 VEL 15.840 PTH 2.80 VHP 21.383 DPA 19.50 RAP 141.62 ECC 3.1322

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 37 19	2643.36	-27.14	70.49	63.03	98.39	7 21 22	2043.4	-25.70	62.12
90.00	18 28 31	5315.97	27.41	241.49	63.49	82.60	19 57 7	4716.0	26.10	233.07
100.00	7 58 27	2381.67	-28.65	50.99	62.77	98.92	8 38 8	1781.7	-27.12	42.52
100.00	19 50 4	5052.90	28.92	221.92	63.26	82.09	21 14 17	4452.9	27.52	213.39
110.00	9 6 12	2169.58	-32.74	34.08	61.96	100.44	9 42 22	1569.6	-30.95	25.31
110.00	20 58 49	4837.74	33.02	204.86	62.53	80.61	22 19 26	4237.7	31.37	196.02

DIFFERENTIAL CORRECTIONS
TOE .5871 TRA-1.4215 TC3 -.0982 BAU .1767
RDE -.7851 RRA -.4073 RC3 .0276 FAU .01450
FDE -.3218 FRA .5576 FC3 -.0969 BSP 2127
BDE .9803 BRA 1.4787 BC3 .1020 FSP -71

MID-COURSE EXECUTION ACCURACY
SGT 805.8 SGR 449.6 SG3 33.9
RRT .0438 RRF -.0419 RTF -.6311
SGB 922.8 R23 -.0018 R13 -.6313
SG1 806.2 SG2 449.0 THA 2.03

ORBIT DETERMINATION ACCURACY
ST 365.3 SR 400.0 SS 337.5
CRT -.7090 CRS -.8051 CST .9875
LSA 599.1 MSA 219.7 SSA 13.9
EL1 501.2 EL2 205.6 ALF 131.36

LAUNCH DATE MAY 25 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 5 1967

HELIOCENTRIC CONIC DISTANCE 148.867

RL 151.51 LAL .00 LOL 243.12 VL 19.631 GAL 11.12 AZL 92.72 HCA 53.36 SMA 97.12 ECC .58239 INC 2.7247 V1 29.406
RP 108.92 LAP -2.19 LOP 296.45 VP 32.717 GAP -35.02 AZP 91.63 TAL 171.78 TAP 225.14 RCA 40.56 APO 153.68 V2 34.792
RC 55.270 GL -4.87 GP 1.27 ZAL 71.22 ZAP 23.05 ETS 184.53 ZAE 154.32 ETE 160.72 ZAC 124.23 ETC 19.74 CLP 23.02

PLANETOCENTRIC CONIC

C3 116.186 VHL 10.779 DLA -1.29 RAL 170.70 RAD 6570.2 VEL 15.412 PTH 2.75 VHP 20.468 DPA 19.07 RAP 143.28 ECC 2.9121

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 45 53	2596.10	-26.63	67.13	61.62	100.00	7 29 9	1996.1	-24.98	58.85
90.00	18 24 47	5320.19	27.45	241.80	62.87	82.75	19 53 27	4720.2	26.16	233.37
100.00	8 6 38	2335.65	-28.12	47.67	61.32	100.59	8 45 34	1735.7	-26.37	39.31
100.00	19 46 43	5055.87	28.95	222.14	62.65	82.20	21 10 59	4455.9	27.57	213.60
110.00	9 13 30	2126.34	-32.16	30.84	60.37	102.27	9 48 56	1526.3	-30.13	22.21
110.00	20 56 21	4837.95	33.02	204.87	61.93	80.62	22 16 59	4237.9	31.37	196.04

DIFFERENTIAL CORRECTIONS
TOE .5849 TRA-1.4167 TC3 -.1014 BAU .1651
RDE -.7488 RRA -.3910 RC3 .0318 FAU .01481
FDE -.3374 FRA .5756 FC3 -.1103 BSP 2223
BDE .9502 BRA 1.4697 BC3 .1063 FSP -78

MID-COURSE EXECUTION ACCURACY
SGT 843.7 SGR 454.2 SG3 36.9
RRT .0466 RRF -.0440 RTF -.6501
SGB 958.2 R23 -.0014 R13 -.6503
SG1 844.1 SG2 453.5 THA 2.02

ORBIT DETERMINATION ACCURACY
ST 384.4 SR 402.9 SS 356.5
CRT -.7081 CRS -.8082 CST .9866
LSA 621.7 MSA 224.8 SSA 14.1
EL1 514.7 EL2 212.5 ALF 133.10

LAUNCH DATE MAY 25 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 7 1967

HELIOCENTRIC CONIC DISTANCE 155.052

RL 151.51 LAL .00 LOL 243.12 VL 20.204 GAL 10.65 AZL 92.79 HCA 56.52 SMA 98.77 ECC .55639 INC 2.7888 V1 29.406
RP 108.93 LAP -2.33 LOP 299.61 VP 33.061 GAP -33.35 AZP 91.54 TAL 171.25 TAP 227.77 RCA 43.82 APO 153.73 V2 34.789
RC 53.566 GL -5.43 GP 1.32 ZAL 70.43 ZAP 21.53 ETS 184.79 ZAE 155.49 ETE 158.42 ZAC 122.66 ETC 19.31 CLP 21.49

PLANETOCENTRIC CONIC

C3 104.260 VHL 10.211 DLA -2.12 RAL 171.23 RAD 6570.0 VEL 15.020 PTH 2.70 VHP 19.588 DPA 18.63 RAP 144.95 ECC 2.7159

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 54 9	2548.00	-26.02	63.74	60.10	101.60	7 36 37	1948.0	-24.15	55.57
90.00	18 20 43	5323.59	27.48	242.04	62.11	82.87	19 49 26	4723.6	26.20	233.61
100.00	8 14 30	2288.80	-27.49	44.33	59.75	102.24	8 52 39	1688.8	-25.52	36.08
100.00	19 43 2	5058.03	28.97	222.29	61.89	82.28	21 7 20	4458.0	27.60	213.76
110.00	9 20 29	2082.26	-31.47	27.59	58.68	104.09	9 55 11	1482.3	-29.22	19.11
110.00	20 53 33	4837.33	33.01	204.83	61.18	80.59	22 14 10	4237.3	31.36	195.99

DIFFERENTIAL CORRECTIONS
TOE .5854 TRA-1.4088 TC3 -.1029 BAU .1521
RDE -.7130 RRA -.3746 RC3 .0365 FAU .01516
FDE -.3540 FRA .5933 FC3 -.1259 BSP 2382
BDE .9225 BRA 1.4577 BC3 .1092 FSP -87

MID-COURSE EXECUTION ACCURACY
SGT 881.9 SGR 458.1 SG3 40.2
RRT .0477 RRF -.0458 RTF -.6696
SGB 993.8 R23 -.0021 R13 -.6697
SG1 882.3 SG2 457.4 THA 1.94

ORBIT DETERMINATION ACCURACY
ST 405.3 SR 405.1 SS 376.6
CRT -.7094 CRS -.8117 CST .9861
LSA 646.2 MSA 228.9 SSA 14.4
EL1 529.7 EL2 218.4 ALF 135.02

LAUNCH DATE MAY 25 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 9 1967

HELIOCENTRIC CONIC DISTANCE 161.305

RL 151.51 LAL .00 LOL 243.12 VL 20.738 GAL 10.19 AZL 92.85 HCA 59.69 SMA 100.41 ECC .53131 INC 2.8485 V1 29.406
RP 108.94 LAP -2.46 LOP 302.77 VP 33.388 GAP -31.76 AZP 91.44 TAL 170.74 TAP 230.42 RCA 47.06 APO 153.75 V2 34.786
RC 51.953 GL -6.02 GP 1.37 ZAL 69.72 ZAP 20.02 ETS 185.12 ZAE 156.76 ETE 155.73 ZAC 121.08 ETC 18.90 CLP 19.98

PLANETOCENTRIC CONIC

C3 93.617 VHL 9.676 DLA -2.95 RAL 171.67 RAD 6569.8 VEL 14.662 PTH 2.66 VHP 18.742 DPA 18.17 RAP 146.62 ECC 2.5407

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 2 6	2499.08	-25.30	60.34	58.48	103.16	7 43 45	1899.1	-23.24	52.27
90.00	18 16 17	5326.30	27.50	242.24	61.21	82.96	19 45 4	4726.3	26.24	233.80
100.00	8 22 3	2241.13	-26.75	40.98	58.10	103.86	8 59 25	1641.1	-24.58	32.85
100.00	19 39 1	5059.48	28.98	222.40	60.99	82.33	21 3 20	4459.5	27.62	213.86
110.00	9 27 8	2037.39	-30.68	24.33	56.91	105.87	10 1 6	1437.4	-28.20	16.01
110.00	20 50 25	4835.99	33.00	204.73	60.29	80.53	22 11 1	4236.0	31.34	195.89

DIFFERENTIAL CORRECTIONS
TOE .5859 TRA-1.4002 TC3 -.1031 BAU .1392
RDE -.6780 RRA -.3581 RC3 .0419 FAU .01555
FDE -.3714 FRA .6112 FC3 -.1438 BSP 2540
BDE .8961 BRA 1.4453 BC3 .1113 FSP -97

MID-COURSE EXECUTION ACCURACY
SGT 921.7 SGR 461.3 SG3 43.8
RRT .0490 RRF -.0478 RTF -.6883
SGB 1030.7 R23 -.0029 R13 -.6885
SG1 922.1 SG2 460.6 THA 1.87

ORBIT DETERMINATION ACCURACY
ST 427.2 SR 406.5 SS 397.5
CRT -.7109 CRS -.8153 CST .9855
LSA 671.9 MSA 232.4 SSA 14.6
EL1 545.5 EL2 223.8 ALF 137.00

LAUNCH DATE MAY 25 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 11 1967

HELIOCENTRIC CONIC DISTANCE 167.622

RL	151.51	LAL	.00	LOL	243.12	VL	21.236	GAL	9.73	AZL	92.90	HCA	62.85	SMA	102.02	ECC	.50718	INC	2.9044
RP	108.94	LAP	-2.58	LOP	305.94	VP	33.698	GAP	-30.25	AZP	91.33	TAL	170.27	TAP	233.11	RCA	50.28	APO	153.76
RC	50.440	GL	-6.64	GP	1.42	ZAL	69.09	ZAP	18.53	ETS	185.52	ZAE	158.12	ETE	152.53	ZAC	119.48	ETC	18.51

V1	29.406	V2	34.785	CLP	18.48														

PLANETOCENTRIC CONIC

C3	84.114	VHL	9.171	DLA	-3.79	RAL	172.03	RAD	6569.6	VEL	14.334	PTH	2.61	VHP	17.927	DPA	17.70	RAP	148.29
ECC	2.3843																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 9 44	2449.37	-24.49	56.92	56.78	104.68	7 50 34	1849.4	-22.23	48.98
90.00	18 11 30	5328.44	27.52	242.39	60.17	83.04	19 40 18	4728.4	26.27	233.95
100.00	8 29 19	2192.69	-25.92	37.62	56.35	105.44	9 5 51	1592.7	-23.55	29.62
100.00	19 34 37	5060.36	28.99	222.46	59.96	82.37	20 58 57	4460.4	27.63	213.92
110.00	9 33 29	1991.76	-29.79	21.07	55.06	107.60	10 6 41	1391.8	-27.09	12.92
110.00	20 46 55	4834.05	32.98	204.58	59.25	80.45	22 7 29	4234.0	31.31	195.75

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	.5848	TRA	-1.3925	TC3	-.1027	BAU	.1273	SGT	963.8	SGR	463.8	SG3	47.7	ST	449.3	SR	407.2	SS	419.3
RDE	-.6436	RRA	-.3416	RC3	.0478	FAU	.01597	RRT	.0517	RRF	-.0501	RTF	-.7053	CRT	-.7112	CRS	-.8188	CST	.9847
FDE	-.3896	FRA	.6293	FC3	-.1643	BSP	2655	SGB	1069.6	R23	-.0027	R13	-.7054	LSA	698.4	MSA	235.8	SSA	14.8
BDE	.8696	BRA	1.4338	BC3	.1132	FSP	-107	SG1	964.2	SG2	463.0	THA	1.85	EL1	561.4	EL2	229.1	ALF	138.95

LAUNCH DATE MAY 25 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 13 1967

HELIOCENTRIC CONIC DISTANCE 173.996

RL	151.51	LAL	.00	LOL	243.12	VL	21.699	GAL	9.27	AZL	92.96	HCA	66.01	SMA	103.60	ECC	.48403	INC	2.9572
RP	108.94	LAP	-2.70	LOP	309.10	VP	33.991	GAP	-28.81	AZP	91.20	TAL	169.83	TAP	235.83	RCA	53.46	APO	153.75
RC	49.035	GL	-7.30	GP	1.48	ZAL	68.54	ZAP	17.04	ETS	186.02	ZAE	159.55	ETE	148.69	ZAC	117.87	ETC	18.14

V1	29.406	V2	34.784	CLP	16.98														

PLANETOCENTRIC CONIC

C3	75.627	VHL	8.696	DLA	-4.62	RAL	172.30	RAD	6569.5	VEL	14.035	PTH	2.56	VHP	17.142	DPA	17.22	RAP	149.96
ECC	2.2446																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 17 5	2398.92	-23.57	53.51	55.00	106.16	7 57 4	1798.9	-21.13	45.69
90.00	18 6 18	5330.17	27.53	242.52	59.00	83.10	19 35 9	4730.2	26.29	234.07
100.00	8 36 16	2143.52	-24.98	34.27	54.54	106.97	9 11 59	1543.5	-22.42	26.41
100.00	19 29 49	5060.80	28.99	222.49	58.79	82.38	20 54 10	4460.8	27.64	213.95
110.00	9 39 32	1945.45	-28.79	17.84	53.14	109.28	10 11 57	1345.5	-25.89	9.86
110.00	20 43 3	4831.63	32.95	204.40	58.09	80.34	22 3 34	4231.6	31.27	195.58

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	.5859	TRA	-1.3816	TC3	-.0995	BAU	.1146	SGT	1006.4	SGR	465.5	SG3	52.0	ST	473.4	SR	407.0	SS	442.5
RDE	-.6099	RRA	-.3253	RC3	.0544	FAU	.01644	RRT	.0531	RRF	-.0522	RTF	-.7226	CRT	-.7134	CRS	-.8227	CST	.9841
FDE	-.4092	FRA	.6472	FC3	-.1882	BSP	2825	SGB	1108.9	R23	-.0034	R13	-.7227	LSA	727.0	MSA	238.0	SSA	15.0
BDE	.8457	BRA	1.4194	BC3	.1134	FSP	-118	SG1	1006.8	SG2	464.6	THA	1.79	EL1	579.1	EL2	233.1	ALF	141.00

LAUNCH DATE MAY 25 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 15 1967

HELIOCENTRIC CONIC DISTANCE 180.424

RL	151.51	LAL	.00	LOL	243.12	VL	22.131	GAL	8.82	AZL	93.01	HCA	69.17	SMA	105.15	ECC	.46187	INC	3.0075
RP	108.94	LAP	-2.81	LOP	312.26	VP	34.268	GAP	-27.44	AZP	91.07	TAL	169.43	TAP	238.59	RCA	56.59	APO	153.72
RC	47.750	GL	-8.00	GP	1.55	ZAL	68.08	ZAP	15.56	ETS	186.65	ZAE	161.02	ETE	144.03	ZAC	116.25	ETC	17.79

V1	29.406	V2	34.784	CLP	15.49														

PLANETOCENTRIC CONIC

C3	68.046	VHL	8.249	DLA	-5.46	RAL	172.48	RAD	6569.3	VEL	13.762	PTH	2.51	VHP	16.385	DPA	16.73	RAP	151.63
ECC	2.1199																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 24 9	2347.79	-22.56	50.10	53.15	107.58	8 3 17	1747.8	-19.95	42.40
90.00	18 0 42	5331.64	27.54	242.62	57.71	83.15	19 29 33	4731.6	26.31	234.17
100.00	8 42 55	2093.70	-23.95	30.93	52.66	108.44	9 17 49	1493.7	-21.21	23.20
100.00	19 24 37	5060.96	28.99	222.51	57.50	82.39	20 48 58	4461.0	27.64	213.97
110.00	9 45 15	1898.53	-27.69	14.63	51.17	110.89	10 16 54	1298.5	-24.60	6.83
110.00	20 38 46	4828.89	32.92	204.19	56.80	80.22	21 59 15	4228.9	31.22	195.38

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	.5873	TRA	-1.3696	TC3	-.0942	BAU	.1025	SGT	1050.6	SGR	466.4	SG3	56.8	ST	498.6	SR	405.9	SS	466.8
RDE	-.5769	RRA	-.3091	RC3	.0618	FAU	.01697	RRT	.0547	RRF	-.0545	RTF	-.7391	CRT	-.7161	CRS	-.8267	CST	.9836
FDE	-.4301	FRA	.6652	FC3	-.2159	BSP	2994	SGB	1149.4	R23	-.0042	R13	-.7392	LSA	757.4	MSA	239.6	SSA	15.2
BDE	.8233	BRA	1.4040	BC3	.1126	FSP	-131	SG1	1051.0	SG2	465.5	THA	1.73	EL1	598.0	EL2	236.3	ALF	143.07

LAUNCH DATE MAY 25 1967 FLIGHT TIME 84.00 ARRIVAL DATE AUG 17 1967

HELIOCENTRIC CONIC DISTANCE 186.899

RL	151.51	LAL	.00	LOL	243.12	VL	22.533	GAL	8.38	AZL	93.06	HCA	72.33	SMA	106.67	ECC	.44070	INC	3.0557
RP	108.94	LAP	-2.91	LOP	315.42	VP	34.530	GAP	-26.12	AZP	90.93	TAL	169.06	TAP	241.39	RCA	59.66	APO	153.68
RC	46.594	GL	-8.73	GP	1.62	ZAL	67.70	ZAP	14.09	ETS	187.46	ZAE	162.46	ETE	138.33	ZAC	114.63	ETC	17.45

V1	29.406	V2	34.785	CLP	14.00														

PLANETOCENTRIC CONIC

C3	61.277	VHL	7.828	DLA	-6.30	RAL	172.57	RAD	6569.1	VEL	13.514	PTH	2.47	VHP	15.656	DPA	16.23	RAP	153.30
ECC	2.0085																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 30 58	2296.04	-21.46	46.71	51.24	108.93	8 9 12	1696.0	-18.68	39.14
90.00	17 54 39	5333.02	27.55	242.72	56.29	83.20	19 23 32	4733.0	26.33	234.27
100.00	8 49 17	2043.29	-22.83	27.60	50.72	109.84	9 23 20	1443.3	-19.92	20.02
100.00	19 18 59	5061.00	28.99	222.51	56.09	82.39	20 43 20	4461.0	27.64	213.97
110.00	9 50 41	1851.08	-26.50	11.45	49.16	112.43	10 21 32	1251.1	-23.22	3.83
110.00	20 34 4	4825.98	32.89	203.97	55.39	80.10	21 54 30	4226.0	31.17	195.16

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	.5895	TRA	-1.3559	TC3	-.0861	BAU	.0909	SGT	1096.0	SGR	466.5	SG3	61.9	ST	525.3	SR	404.0	SS	492.7
RDE	-.5448	RRA	-.2932	RC3	.0699	FAU	.01755	RRT	.0562	RRF	-.0570	RTF	-.7549	CRT	-.7194	CRS	-.8310	CST	.9832
FDE	-.4526	FRA	.6833	FC3	-.2480	BSP	3175	SGB	1191.2	R23	-.0052	R13	-.7551	LSA	789.8	MSA	240.4	SSA	15.4
BDE	.8027	BRA	1.3873	BC3	.1109	FSP	-146	SG1	1096.4	SG2	465.6	THA	1.67	EL1	618.3	EL2	238.4	ALF	145.13

LAUNCH DATE MAY 25 1967 FLIGHT TIME 86.00 ARRIVAL DATE AUG 19 1967

DISTANCE 193.418

HELIOCENTRIC CONIC
RL 151.51 LAL .00 LOL 243.12 VL 22.907 GAL 7.95 AZL 93.10 HCA 75.49 SMA 108.15 ECC .42052 INC 3.1022 V1 29.406
RP 108.94 LAP -3.00 LOP 318.59 VP 34.776 GAP -24.86 AZP 90.78 TAL 168.74 TAP 244.23 RCA 62.67 APO 153.63 V2 34.786
RC 45.578 GL -9.51 GP 1.70 ZAL 67.42 ZAP 12.62 ETS 188.51 ZAE 163.82 ETE 131.34 ZAC 113.01 ETC 17.14 CLP 12.51

PLANETOCENTRIC CONIC
C3 55.234 VHL 7.432 DLA -7.15 RAL 172.57 RAO 6569.0 VEL 13.289 PTH 2.43 VHP 14.952 DPA 15.73 RAP 154.96 ECC 1.9090

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 37 27	2243.76	-20.27	43.34	49.28	110.21	8 14 50	1643.8	-17.33	35.89
90.00	17 48 7	5334.51	27.57	242.83	54.77	83.25	19 17 2	4734.5	26.35	234.37
100.00	8 55 22	1992.39	-21.61	24.31	48.74	111.17	9 28 34	1392.4	-18.54	16.86
100.00	19 12 53	5061.12	29.00	222.52	54.57	82.39	20 37 14	4461.1	27.64	213.98
110.00	9 55 48	1803.19	-25.22	8.32	47.11	113.88	10 25 51	1203.2	-21.77	.87
110.00	20 28 57	4823.08	32.85	203.75	53.87	79.97	21 49 20	4223.1	31.12	194.95

DIFFERENTIAL CORRECTIONS
TOE .5921 TRA-1.3409 TC3 -.0748 BAU .0803
RDE -.5135 RRA -.2775 RC3 .0789 FAU .01820
FDE -.4768 FRA .7016 FC3 -.2853 BSP 3356
BDE .7837 BRA 1.3693 BC3 .1088 FSP -161

MID-COURSE EXECUTION ACCURACY
SGT 1142.9 SGR 465.8 SG3 67.6
RRT .0581 RRF -.0597 RTF -.7701
SGB 1234.1 R23 -.0061 R13 -.7702
SG1 1143.3 SG2 464.8 THA 1.62

ORBIT DETERMINATION ACCURACY
ST 553.2 SR 401.1 SS 520.0
CRT -.7232 CRS -.8354 CST .9828
LSA 824.2 MSA 240.4 SSA 15.6
EL1 640.0 EL2 239.5 ALF 147.17

LAUNCH DATE MAY 25 1967 FLIGHT TIME 88.00 ARRIVAL DATE AUG 21 1967

DISTANCE 199.975

HELIOCENTRIC CONIC
RL 151.51 LAL .00 LOL 243.12 VL 23.255 GAL 7.53 AZL 93.15 HCA 78.65 SMA 109.58 ECC .40133 INC 3.1475 V1 29.406
RP 108.93 LAP -3.09 LOP 321.75 VP 35.009 GAP -23.66 AZP 90.62 TAL 168.47 TAP 247.12 RCA 65.60 APO 153.56 V2 34.788
RC 44.711 GL -10.33 GP 1.79 ZAL 67.23 ZAP 11.15 ETS 189.90 ZAE 164.99 ETE 122.85 ZAC 111.38 ETC 16.84 CLP 11.01

PLANETOCENTRIC CONIC
C3 49.842 VHL 7.060 DLA -8.00 RAL 172.47 RAO 6568.8 VEL 13.085 PTH 2.39 VHP 14.274 DPA 15.23 RAP 156.61 ECC 1.8203

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 43 41	2191.04	-18.99	40.00	47.28	111.41	8 20 12	1591.0	-15.91	32.67
90.00	17 41 6	5336.29	27.58	242.96	53.15	83.32	19 10 2	4736.3	26.37	234.50
100.00	9 1 10	1941.08	-20.32	21.05	46.72	112.41	9 33 31	1341.1	-17.10	13.73
100.00	19 6 18	5061.48	29.00	222.54	52.95	82.41	20 30 40	4461.5	27.64	214.00
110.00	10 0 36	1754.98	-23.85	5.24	45.03	115.24	10 29 51	1155.0	-20.25	357.95
110.00	20 23 21	4820.34	32.82	203.54	52.25	79.85	21 43 42	4220.3	31.07	194.76

DIFFERENTIAL CORRECTIONS
TOE .5950 TRA-1.3246 TC3 -.0602 BAU .0715
RDE -.4830 RRA -.2623 RC3 .0888 FAU .01892
FDE -.5031 FRA .7201 FC3 -.3286 BSP 3539
BDE .7664 BRA 1.3504 BC3 .1073 FSP -179

MID-COURSE EXECUTION ACCURACY
SGT 1191.2 SGR 464.3 SG3 73.8
RRT .0604 RRF -.0629 RTF -.7843
SGB 1278.5 R23 -.0071 R13 -.7844
SG1 1191.6 SG2 463.3 THA 1.59

ORBIT DETERMINATION ACCURACY
ST 582.5 SR 397.2 SS 549.1
CRT -.7273 CRS -.8400 CST .9824
LSA 860.8 MSA 239.8 SSA 15.7
EL1 663.1 EL2 239.5 ALF 149.17

LAUNCH DATE MAY 25 1967 FLIGHT TIME 90.00 ARRIVAL DATE AUG 23 1967

DISTANCE 206.566

HELIOCENTRIC CONIC
RL 151.51 LAL .00 LOL 243.12 VL 23.579 GAL 7.12 AZL 93.19 HCA 81.81 SMA 110.97 ECC .38311 INC 3.1917 V1 29.406
RP 108.92 LAP -3.16 LOP 324.92 VP 35.227 GAP -22.50 AZP 90.45 TAL 168.24 TAP 250.05 RCA 68.46 APO 153.49 V2 34.791
RC 44.000 GL -11.19 GP 1.88 ZAL 67.13 ZAP 9.69 ETS 191.79 ZAE 165.86 ETE 112.80 ZAC 109.76 ETC 16.55 CLP 9.51

PLANETOCENTRIC CONIC
C3 45.035 VHL 6.711 DLA -8.86 RAL 172.28 RAO 6568.7 VEL 12.900 PTH 2.35 VHP 13.620 DPA 14.73 RAP 158.25 ECC 1.7412

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 49 41	2137.96	-17.64	36.69	45.26	112.52	8 25 19	1538.0	-14.43	29.48
90.00	17 33 34	5338.57	27.60	243.12	51.43	83.40	19 2 32	4738.6	26.40	234.66
100.00	9 6 42	1889.46	-18.94	17.83	44.67	113.56	9 38 12	1289.5	-15.60	10.64
100.00	18 59 13	5062.30	29.01	222.60	51.23	82.44	20 23 35	4462.3	27.66	214.06
110.00	10 5 7	1706.56	-22.41	2.22	42.94	116.51	10 33 33	1106.6	-18.67	355.09
110.00	20 17 18	4817.97	32.79	203.36	50.54	79.75	21 37 36	4218.0	31.03	194.58

DIFFERENTIAL CORRECTIONS
TOE .5988 TRA-1.3064 TC3 -.0413 BAU .0649
RDE -.4533 RRA -.2474 RC3 .0995 FAU .01971
FDE -.5319 FRA .7387 FC3 -.3790 BSP 3727
BDE .7511 BRA 1.3296 BC3 .1078 FSP -199

MID-COURSE EXECUTION ACCURACY
SGT 1240.5 SGR 461.9 SG3 80.7
RRT .0629 RRF -.0664 RTF -.7979
SGB 1323.7 R23 -.0082 R13 -.7980
SG1 1240.9 SG2 460.9 THA 1.56

ORBIT DETERMINATION ACCURACY
ST 613.3 SR 392.4 SS 580.2
CRT -.7322 CRS -.8448 CST .9822
LSA 899.8 MSA 238.2 SSA 15.9
EL1 688.0 EL2 238.2 ALF 151.11

LAUNCH DATE MAY 25 1967 FLIGHT TIME 92.00 ARRIVAL DATE AUG 25 1967

DISTANCE 213.187

HELIOCENTRIC CONIC
RL 151.51 LAL .00 LOL 243.12 VL 23.880 GAL 6.73 AZL 93.24 HCA 84.98 SMA 112.31 ECC .36586 INC 3.2353 V1 29.406
RP 108.91 LAP -3.22 LOP 328.09 VP 35.433 GAP -21.39 AZP 90.28 TAL 168.05 TAP 253.03 RCA 71.22 APO 153.41 V2 34.795
RC 43.455 GL -12.10 GP 1.99 ZAL 67.12 ZAP 8.24 ETS 194.47 ZAE 166.30 ETE 101.49 ZAC 108.14 ETC 16.28 CLP 8.00

PLANETOCENTRIC CONIC
C3 40.752 VHL 6.384 DLA -9.73 RAL 171.99 RAO 6568.6 VEL 12.733 PTH 2.31 VHP 12.989 DPA 14.23 RAP 159.87 ECC 1.6707

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 55 25	2084.63	-16.22	33.42	43.20	113.53	8 30 10	1484.6	-12.90	26.31
90.00	17 25 29	5341.55	27.62	243.34	49.64	83.50	18 54 30	4741.6	26.43	234.87
100.00	9 11 58	1837.65	-17.50	14.66	42.60	114.63	9 42 36	1237.7	-14.04	7.58
100.00	18 51 37	5063.76	29.02	222.71	49.44	82.49	20 16 1	4463.8	27.68	214.16
110.00	10 9 20	1658.05	-20.91	359.26	40.83	117.68	10 36 58	1058.0	-17.04	352.27
110.00	20 10 45	4816.13	32.77	203.22	48.75	79.67	21 31 1	4216.1	31.00	194.45

DIFFERENTIAL CORRECTIONS
TOE .6011 TRA-1.2892 TC3 -.0200 BAU .0616
RDE -.4246 RRA -.2331 RC3 .1113 FAU .02058
FDE -.5629 FRA .7582 FC3 -.4372 BSP 3861
BDE .7360 BRA 1.3101 BC3 .1130 FSP -219

MID-COURSE EXECUTION ACCURACY
SGT 1292.2 SGR 458.8 SG3 88.3
RRT .0673 RRF -.0710 RTF -.8096
SGB 1371.2 R23 -.0087 R13 -.8098
SG1 1292.6 SG2 457.6 THA 1.57

ORBIT DETERMINATION ACCURACY
ST 644.3 SR 386.4 SS 613.1
CRT -.7358 CRS -.8493 CST .9816
LSA 940.3 MSA 236.6 SSA 16.1
EL1 713.1 EL2 236.4 ALF 152.98

LAUNCH DATE MAY 25 1967 FLIGHT TIME 94.00 ARRIVAL DATE AUG 27 1967

HELIOCENTRIC CONIC DISTANCE 219.832

RL	151.51	LAL	.00	LOL	243.12	VL	24.159	GAL	6.34	AZL	93.28	HCA	88.14	SMA	113.61	ECC	.34955	INC	3.2784	VI	29.406
RP	108.90	LAP	-3.28	LOP	331.25	VP	35.626	GAP	-20.33	AZP	90.11	TAL	167.92	TAP	256.06	RCA	73.90	APO	153.32	V2	34.799
RC	43.079	GL	-13.06	GP	2.10	ZAL	67.21	ZAP	6.80	ETS	198.45	ZAE	166.23	ETE	89.64	ZAC	106.54	ETC	16.02	CLP	6.47

PLANETOCENTRIC CONIC

C3	36.941	VHL	6.078	DLA	-10.60	RAL	171.59	RAD	6568.4	VEL	12.582	PTH	2.28	VHP	12.381	DPA	13.74	RAP	161.49	ECC	1.6080

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 0 56	2031.14	-14.74	30.19	41.13	114.46	8 34 47	1431.1	-11.31	23.18
90.00	17 16 50	5345.42	27.65	243.62	47.76	83.64	18 45 56	4745.4	26.48	235.14
100.00	9 16 59	1785.75	-16.00	11.53	40.52	115.59	9 46 45	1185.8	-12.43	4.57
100.00	18 43 28	5066.04	29.04	222.88	47.57	82.58	20 7 54	4466.0	27.71	214.33
110.00	10 13 15	1609.59	-19.35	356.37	38.72	118.75	10 40 5	1009.6	-15.36	349.51
110.00	20 3 41	4814.99	32.75	203.14	46.90	79.62	21 23 56	4215.0	30.98	194.37

DIFFERENTIAL CORRECTIONS

TDE	.6065	TRA	-1.2678	TC3	.0086	BAU	.0614
RDE	-.3968	RRA	-.2192	RC3	.1240	FAU	.02157
FDE	-.5977	FRA	.7774	FC3	-.5055	BSP	4055
BDE	.7247	BRA	1.2866	BC3	.1242	FSP	-243

MID-COURSE EXECUTION ACCURACY

SGT	1343.6	SGR	454.8	SG3	96.6		
RRT	.0710	RRF	-.0759	RTF	-.8219		
SGB	1418.5	R23	-.0101	R13	-.8220		
SG1	1344.0	SG2	453.5	THA	1.55		

ORBIT DETERMINATION ACCURACY

ST	678.2	SR	379.3	SS	648.7		
CRT	-.7418	CRS	-.8543	CST	.9816		
LSA	984.8	MSA	233.6	SSA	16.2		
EL1	741.4	EL2	232.7	ALF	154.81		

LAUNCH DATE MAY 25 1967 FLIGHT TIME 96.00 ARRIVAL DATE AUG 29 1967

HELIOCENTRIC CONIC DISTANCE 226.499

RL	151.51	LAL	.00	LOL	243.12	VL	24.419	GAL	5.97	AZL	93.32	HCA	91.30	SMA	114.85	ECC	.33416	INC	3.3214	VI	29.406
RP	108.88	LAP	-3.32	LOP	334.42	VP	35.807	GAP	-19.30	AZP	89.92	TAL	167.83	TAP	259.13	RCA	76.47	APO	153.22	V2	34.804
RC	42.876	GL	-14.06	GP	2.23	ZAL	67.40	ZAP	5.41	ETS	204.75	ZAE	165.64	ETE	78.22	ZAC	104.94	ETC	15.78	CLP	4.93

PLANETOCENTRIC CONIC

C3	33.554	VHL	5.793	DLA	-11.48	RAL	171.10	RAD	6568.3	VEL	12.447	PTH	2.25	VHP	11.794	DPA	13.25	RAP	163.08	ECC	1.5522

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 6 13	1977.60	-13.20	27.01	39.05	115.28	8 39 11	1377.6	-9.69	20.09
90.00	17 7 37	5350.39	27.69	243.97	45.83	83.82	18 36 47	4750.4	26.54	235.50
100.00	9 21 46	1733.87	-14.45	8.46	38.43	116.45	9 50 40	1133.9	-10.79	1.59
100.00	18 34 45	5069.35	29.07	223.12	45.64	82.70	19 59 14	4469.3	27.75	214.56
110.00	10 16 53	1561.25	-17.74	353.54	36.60	119.71	10 42 55	961.2	-13.65	346.81
110.00	19 56 7	4814.74	32.75	203.12	44.98	79.61	21 16 22	4214.7	30.97	194.35

DIFFERENTIAL CORRECTIONS

TDE	.6126	TRA	-1.2451	TC3	.0426	BAU	.0646
RDE	-.3698	RRA	-.2060	RC3	.1376	FAU	.02267
FDE	-.6361	FRA	.7972	FC3	-.5848	BSP	4244
BDE	.7156	BRA	1.2620	BC3	.1441	FSP	-270

MID-COURSE EXECUTION ACCURACY

SGT	1396.0	SGR	449.9	SG3	105.9		
RRT	.0756	RRF	-.0819	RTF	-.8333		
SGB	1466.7	R23	-.0117	R13	-.8334		
SG1	1396.5	SG2	448.5	THA	1.56		

ORBIT DETERMINATION ACCURACY

ST	713.7	SR	371.1	SS	687.0		
CRT	-.7481	CRS	-.8593	CST	.9816		
LSA	1032.4	MSA	230.0	SSA	16.4		
EL1	771.5	EL2	227.8	ALF	156.58		

LAUNCH DATE MAY 25 1967 FLIGHT TIME 98.00 ARRIVAL DATE AUG 31 1967

HELIOCENTRIC CONIC DISTANCE 233.183

RL	151.51	LAL	.00	LOL	243.12	VL	24.659	GAL	5.62	AZL	93.36	HCA	94.47	SMA	116.03	ECC	.31967	INC	3.3646	VI	29.406
RP	108.87	LAP	-3.35	LOP	337.59	VP	35.977	GAP	-18.32	AZP	89.74	TAL	167.79	TAP	262.25	RCA	78.94	APO	153.12	V2	34.809
RC	42.849	GL	-15.11	GP	2.38	ZAL	67.68	ZAP	4.12	ETS	215.57	ZAE	164.58	ETE	68.01	ZAC	103.36	ETC	15.55	CLP	3.36

PLANETOCENTRIC CONIC

C3	30.547	VHL	5.527	DLA	-12.37	RAL	170.50	RAD	6568.2	VEL	12.326	PTH	2.22	VHP	11.229	DPA	12.78	RAP	164.65	ECC	1.5027

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 11 19	1924.11	-11.63	23.87	36.97	116.00	8 43 23	1324.1	-8.04	17.03
90.00	16 57 47	5356.63	27.73	244.43	43.84	84.04	18 27 3	4756.6	26.62	235.94
100.00	9 26 19	1682.13	-12.86	5.44	36.33	117.22	9 54 21	1082.1	-9.11	358.66
100.00	18 25 28	5073.84	29.11	223.45	43.66	82.87	19 50 2	4473.8	27.81	214.88
110.00	10 20 15	1513.21	-16.10	350.78	34.49	120.57	10 45 28	913.2	-11.92	344.17
110.00	19 48 1	4815.52	32.76	203.18	43.01	79.64	21 8 17	4215.5	30.98	194.41

DIFFERENTIAL CORRECTIONS

TDE	.6197	TRA	-1.2208	TC3	.0826	BAU	.0707
RDE	-.3437	RRA	-.1934	RC3	.1523	FAU	.02388
FDE	-.6788	FRA	.8174	FC3	-.6769	BSP	4435
BDE	.7086	BRA	1.2360	BC3	.1732	FSP	-299

MID-COURSE EXECUTION ACCURACY

SGT	1449.0	SGR	444.3	SG3	116.2		
RRT	.0813	RRF	-.0891	RTF	-.8440		
SGB	1515.6	R23	-.0134	R13	-.8442		
SG1	1449.9	SG2	442.7	THA	1.58		

ORBIT DETERMINATION ACCURACY

ST	750.8	SR	361.6	SS	728.2		
CRT	-.7548	CRS	-.8643	CST	.9817		
LSA	1083.3	MSA	225.7	SSA	16.5		
EL1	803.3	EL2	221.7	ALF	158.28		

LAUNCH DATE MAY 25 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 2 1967

HELIOCENTRIC CONIC DISTANCE 239.880

RL	151.51	LAL	.00	LOL	243.12	VL	24.883	GAL	5.28	AZL	93.41	HCA	97.63	SMA	117.16	ECC	.30606	INC	3.4081	VI	29.406
RP	108.85	LAP	-3.38	LOP	340.77	VP	36.137	GAP	-17.37	AZP	89.55	TAL	167.79	TAP	265.42	RCA	81.30	APO	153.02	V2	34.815
RC	42.995	GL	-16.20	GP	2.54	ZAL	68.06	ZAP	3.09	ETS	235.38	ZAE	163.16	ETE	59.38	ZAC	101.80	ETC	15.33	CLP	1.77

PLANETOCENTRIC CONIC

C3	27.883	VHL	5.280	DLA	-13.26	RAL	169.81	RAD	6568.1	VEL	12.217	PTH	2.20	VHP	10.684	DPA	12.33	RAP	166.20	ECC	1.4589

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 16 13	1870.75	-10.02	20.78	34.88	116.62	8 47 24	1270.8	-6.36	14.00
90.00	16 47 20	5364.33	27.79	244.98	41.81	84.31	18 16 44	4764.3	26.71	236.48
100.00	9 30 39	1630.62	-11.24	2.48	34.24	117.88	9 57 49	1030.6	-7.42	355.77
100.00	18 15 36	5079.69	29.16	223.88	41.64	83.09	19 40 15	4479.7	27.89	215.30
110.00	10 23 20	1465.59	-14.43	348.10	32.38	121.33	10 47 46	865.6	-10.18	341.58
110.00	19 39 23	4817.49	32.78	203.32	41.00	79.73	20 59 41	4217.5	31.02	194.55

DIFFERENTIAL CORRECTIONS

TDE	.6279	TRA	-1.1944	TC3	.1296	BAU	.0790
RDE	-.3185	RRA	-.1814	RC3	.1679	FAU	.02525
FDE	-.7267	FRA	.8380	FC3	-.7841	BSP	4632
BDE	.7040	BRA	1.2081	BC3	.2121	FSP	-333

MID-COURSE EXECUTION ACCURACY

SGT	1501.9	SGR	437.9	SG3	127.6		
RRT	.0884	RRF	-.0979	RTF	-.8542		
SGB	1564.4	R23	-.0155	R13	-.8544		
SG1	1502.5	SG2	436.0	THA	1.61		

ORBIT DETERMINATION ACCURACY

ST	789.8	SR	350.9	SS	772.8		
CRT	-.7620	CRS	-.8692	CST	.9819		
LSA	1138.0	MSA	220.8	SSA	16.6		
EL1	837.2	EL2	214.3	ALF	159.93		

LAUNCH DATE MAY 25 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 4 1967

DISTANCE 246.588

HELIOCENTRIC CONIC
RL 151.51 LAL .00 LOL 243.12 VL 25.089 GAL 4.95 AZL 93.45 HCA 100.80 SMA 118.24 ECC .29331 INC 3.4523 VI 29.406
RP 108.83 LAP -3.39 LOP 343.94 VP 36.286 GAP -16.45 AZP 89.35 TAL 167.84 TAP 268.64 RCA 83.56 APO 152.92 V2 34.822
RC 43.312 GL -17.33 GP 2.72 ZAL 68.53 ZAP 2.72 ETS 267.16 ZAE 161.51 ETE 52.32 ZAC 100.27 ETC 15.13 CLP .14

PLANETOCENTRIC CONIC
C3 25.527 VHL 5.052 DLA -14.16 RAL 169.02 RAD 6568.0 VEL 12.120 PTH 2.17 VHP 10.158 DPA 11.90 RAP 167.73 ECC 1.4201

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 20 58	1817.63	-8.38	17.73	32.80	117.15	8 51 15	1217.6	-4.67	11.01
90.00	16 36 16	5373.64	27.85	245.66	39.75	84.64	18 5 50	4773.6	26.81	237.14
100.00	9 34 47	1579.45	-9.60	359.57	32.15	118.45	10 1 6	979.5	-5.72	352.92
100.00	18 5 8	5087.04	29.21	224.41	39.59	83.37	19 29 55	4487.0	27.99	215.82
110.00	10 26 10	1418.50	-12.75	345.49	30.28	121.99	10 49 49	818.5	-8.43	339.05
110.00	19 30 14	4820.76	32.82	203.57	38.97	79.87	20 50 35	4220.8	31.08	194.79

DIFFERENTIAL CORRECTIONS
TOE .6381 TRA-1.1651 TC3 .1860 BAU .0894
RDE -.2940 RRA -.1702 RC3 .1845 FAU .02681
FDE -.7810 FRA .8586 FC3 -.9093 BSP 4071
BDE .7026 BRA 1.1775 BC3 .2619 FSP -372

MID-COURSE EXECUTION ACCURACY
SGT 1554.3 SGR 430.7 SG3 140.3
RRT .0970 RRF -.1084 RTF -.8645
SGB 1612.9 R23 -.0177 R13 -.8646
SG1 1554.9 SG2 428.5 THA 1.67

ORBIT DETERMINATION ACCURACY
ST 831.2 SR 338.7 SS 821.4
CRT -.7701 CRS -.8742 CST .9824
LSA 1197.4 MSA 215.1 SSA 16.7
EL1 873.7 EL2 205.6 ALF 161.52

LAUNCH DATE MAY 25 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 6 1967

DISTANCE 253.302

HELIOCENTRIC CONIC
RL 151.51 LAL .00 LOL 243.12 VL 25.280 GAL 4.64 AZL 93.50 HCA 103.97 SMA 119.26 ECC .28137 INC 3.4974 VI 29.406
RP 108.80 LAP -3.39 LOP 347.11 VP 36.425 GAP -15.57 AZP 89.15 TAL 167.94 TAP 271.91 RCA 85.71 APO 152.82 V2 34.830
RC 43.796 GL -18.51 GP 2.92 ZAL 69.09 ZAP 3.29 ETS 297.58 ZAE 159.73 ETE 46.62 ZAC 98.76 ETC 14.93 CLP -1.52

PLANETOCENTRIC CONIC
C3 23.448 VHL 4.842 DLA -15.06 RAL 168.13 RAD 6568.0 VEL 12.034 PTH 2.15 VHP 9.652 DPA 11.50 RAP 169.22 ECC 1.3859

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 25 35	1764.80	-6.73	14.73	30.74	117.57	8 55 0	1164.8	-2.98	8.05
90.00	16 24 34	5384.74	27.92	246.46	37.67	85.04	17 54 19	4784.7	26.93	237.93
100.00	9 38 45	1528.72	-7.94	356.72	30.08	118.91	10 4 14	928.7	-4.02	350.12
100.00	17 54 5	5096.05	29.28	225.07	37.52	83.71	19 19 1	4496.1	28.10	216.47
110.00	10 28 46	1372.07	-11.06	342.95	28.20	122.55	10 51 38	772.1	-6.69	336.59
110.00	19 20 33	4825.47	32.88	203.93	36.92	80.07	20 40 59	4225.5	31.16	195.13

DIFFERENTIAL CORRECTIONS
TOE .6496 TRA-1.1353 TC3 .2479 BAU .1002
RDE -.2702 RRA -.1597 RC3 .2019 FAU .02852
FDE -.8414 FRA .8806 FC3-1.0530 BSP 5066
BDE .7036 BRA 1.1465 BC3 .3197 FSP -414

MID-COURSE EXECUTION ACCURACY
SGT 1607.4 SGR 422.8 SG3 154.4
RRT .1079 RRF -.1219 RTF -.8739
SGB 1662.1 R23 -.0208 R13 -.8741
SG1 1608.1 SG2 420.1 THA 1.75

ORBIT DETERMINATION ACCURACY
ST 874.7 SR 325.1 SS 873.4
CRT -.7779 CRS -.8785 CST .9831
LSA 1260.9 MSA 209.1 SSA 16.7
EL1 912.4 EL2 195.9 ALF 163.07

LAUNCH DATE MAY 25 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 8 1967

DISTANCE 260.020

HELIOCENTRIC CONIC
RL 151.51 LAL .00 LOL 243.12 VL 25.457 GAL 4.34 AZL 93.54 HCA 107.14 SMA 120.23 ECC .27024 INC 3.5438 VI 29.406
RP 108.78 LAP -3.39 LOP 350.29 VP 36.556 GAP -14.72 AZP 88.95 TAL 168.08 TAP 275.22 RCA 87.74 APO 152.72 V2 34.838
RC 44.440 GL -19.72 GP 3.15 ZAL 69.73 ZAP 4.51 ETS 315.73 ZAE 157.92 ETE 42.04 ZAC 97.29 ETC 14.74 CLP -3.23

PLANETOCENTRIC CONIC
C3 21.618 VHL 4.650 DLA -15.97 RAL 167.15 RAD 6567.9 VEL 11.958 PTH 2.13 VHP 9.165 DPA 11.13 RAP 170.69 ECC 1.3558

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 30 6	1712.34	-5.06	11.77	28.70	117.90	8 58 39	1112.3	-1.29	5.12
90.00	16 12 14	5397.76	27.99	247.41	35.58	85.51	17 42 11	4797.8	27.07	238.86
100.00	9 42 35	1478.50	-6.28	353.92	28.03	119.29	10 7 13	878.5	-2.33	347.36
100.00	17 42 26	5106.83	29.36	225.87	35.44	84.12	19 7 33	4506.8	28.24	217.24
110.00	10 31 8	1326.39	-9.38	340.49	26.14	123.02	10 53 15	726.4	-4.96	334.18
110.00	19 10 22	4831.70	32.95	204.40	34.86	80.34	20 30 54	4231.7	31.27	195.58

DIFFERENTIAL CORRECTIONS
TOE .6610 TRA-1.1050 TC3 .3144 BAU .1110
RDE -.2471 RRA -.1500 RC3 .2203 FAU .03044
FDE -.9099 FRA .9033 FC3-1.2190 BSP 5257
BDE .7056 BRA 1.1151 BC3 .3839 FSP -461

MID-COURSE EXECUTION ACCURACY
SGT 1659.8 SGR 414.3 SG3 170.2
RRT .1223 RRF -.1388 RTF -.8820
SGB 1710.7 R23 -.0241 R13 -.8822
SG1 1660.6 SG2 411.0 THA 1.86

ORBIT DETERMINATION ACCURACY
ST 918.7 SR 310.0 SS 929.9
CRT -.7847 CRS -.8824 CST .9836
LSA 1327.9 MSA 203.2 SSA 16.7
EL1 951.7 EL2 185.5 ALF 164.57

LAUNCH DATE MAY 25 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 10 1967

DISTANCE 266.739

HELIOCENTRIC CONIC
RL 151.51 LAL .00 LOL 243.12 VL 25.619 GAL 4.06 AZL 93.59 HCA 110.31 SMA 121.14 ECC .25988 INC 3.5919 VI 29.406
RP 108.75 LAP -3.37 LOP 353.47 VP 36.677 GAP -13.90 AZP 88.75 TAL 168.26 TAP 278.57 RCA 89.66 APO 152.63 V2 34.846
RC 45.237 GL -20.97 GP 3.40 ZAL 70.45 ZAP 6.03 ETS 325.63 ZAE 156.13 ETE 38.37 ZAC 95.86 ETC 14.56 CLP -4.98

PLANETOCENTRIC CONIC
C3 20.013 VHL 4.474 DLA -16.88 RAL 166.09 RAD 6567.8 VEL 11.891 PTH 2.11 VHP 8.696 DPA 10.80 RAP 172.11 ECC 1.3294

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 34 35	1660.27	-3.40	8.85	26.68	118.13	9 2 15	1060.3	.39	2.22
90.00	15 59 15	5412.83	28.06	248.50	33.48	86.06	17 29 28	4812.8	27.22	239.94
100.00	9 46 18	1428.85	-4.61	351.17	26.01	119.57	10 10 7	828.8	-.64	344.63
100.00	17 30 13	5119.49	29.45	226.80	33.36	84.60	18 55 33	4519.5	28.39	218.15
110.00	10 33 19	1281.55	-7.70	338.09	24.11	123.41	10 54 41	681.6	-3.26	331.83
110.00	18 59 41	4839.54	33.04	205.00	32.81	80.69	20 20 21	4239.5	31.40	196.15

DIFFERENTIAL CORRECTIONS
TOE .6730 TRA-1.0732 TC3 .3874 BAU .1219
RDE -.2245 RRA -.1411 RC3 .2396 FAU .03258
FDE -.9873 FRA .9271 FC3-1.4094 BSP 5432
BDE .7094 BRA 1.0824 BC3 .4555 FSP -513

MID-COURSE EXECUTION ACCURACY
SGT 1710.6 SGR 405.3 SG3 187.9
RRT .1410 RRF -.1600 RTF -.8896
SGB 1758.0 R23 -.0276 R13 -.8899
SG1 1711.6 SG2 401.0 THA 2.02

ORBIT DETERMINATION ACCURACY
ST 963.7 SR 293.1 SS 990.8
CRT -.7907 CRS -.8854 CST .9842
LSA 1399.0 MSA 197.3 SSA 16.6
EL1 992.1 EL2 174.3 ALF 166.04

LAUNCH DATE MAY 25 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 12 1967

HELIOCENTRIC CONIC DISTANCE 273.457

RL	151.51	LAL	.00	LOL	243.12	VL	25.769	GAL	3.79	AZL	93.64	HCA	113.48	SMA	122.00	ECC	.25025	INC	3.6420	V1	29.406
RP	108.72	LAP	-3.34	LOP	356.64	VP	36.791	GAP	-13.10	AZP	88.55	TAL	168.48	TAP	281.96	RCA	91.47	APO	152.53	V2	34.856
RC	46.178	GL	-22.25	GP	3.69	ZAL	71.24	ZAP	7.73	ETS	331.41	ZAE	154.42	ETE	35.43	ZAC	94.47	ETC	14.39	CLP	-6.80

PLANETOCENTRIC CONIC

C3	18.609	VHL	4.314	DLA	-17.78	RAL	164.94	RAD	6567.8	VEL	11.832	PTH	2.10	VHP	8.245	DPA	10.53	RAP	173.49	ECC	1.3063

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 39 4	1608.59	-1.74	5.96	24.70	118.27	9 5 52	1008.6	2.06	359.34
90.00	15 45 39	5430.11	28.14	249.76	31.40	86.68	17 16 9	4830.1	27.38	241.18
100.00	9 49 58	1379.80	-2.96	348.46	24.02	119.76	10 12 58	779.8	1.02	341.94
100.00	17 17 25	5134.14	29.53	227.88	31.29	85.17	18 43 0	4534.1	28.55	219.21
110.00	10 35 20	1237.65	-6.05	335.77	22.10	123.71	10 55 58	637.6	-1.58	329.53
110.00	18 48 33	4849.06	33.14	205.72	30.78	81.10	20 9 22	4249.1	31.56	196.85

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY			ORBIT DETERMINATION ACCURACY		
TDE	.6866	TRA	-1.0397	TC3	.4667	BAU	.1329	SGT 1759.8 SGR 396.0 SG3 207.7	ST 1010.5	SR 274.3	SS 1057.3
RDE	-.2022	RRA	-.1331	RC3	.2598	FAU	.03500	RRT .1644 RRF -.1865 RTF -.8969	CRT -.7957	CRS -.8874	CST .9849
FDE	-1.0760	FRA	.9516	FC3	-1.6282	BSP	5616	SGB 1803.8 R23 -.0318 R13 -.8972	LSA 1475.6	MSA 191.4	SSA 16.5
BDE	.7157	BRA	1.0482	BC3	.5341	FSP	-574	SG1 1761.1 SG2 390.3 THA 2.23	EL1 1034.4	EL2 162.3	ALF 167.50

LAUNCH DATE MAY 25 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 14 1967

HELIOCENTRIC CONIC DISTANCE 280.171

RL	151.51	LAL	.08	LOL	243.12	VL	25.907	GAL	3.54	AZL	93.69	HCA	116.66	SMA	122.80	ECC	.24134	INC	3.6946	V1	29.406
RP	108.69	LAP	-3.30	LOP	359.83	VP	36.896	GAP	-12.34	AZP	88.34	TAL	168.73	TAP	285.39	RCA	93.17	APO	152.44	V2	34.865
RC	47.255	GL	-23.55	GP	4.02	ZAL	72.08	ZAP	9.56	ETS	335.02	ZAE	152.84	ETE	33.09	ZAC	93.14	ETC	14.23	CLP	-8.68

PLANETOCENTRIC CONIC

C3	17.387	VHL	4.170	DLA	-18.69	RAL	163.73	RAD	6567.7	VEL	11.780	PTH	2.08	VHP	7.812	DPA	10.31	RAP	174.83	ECC	1.2862

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 43 37	1557.30	-.08	3.10	22.77	118.32	9 9 34	957.3	3.70	356.47
90.00	15 31 24	5449.75	28.21	251.20	29.35	87.40	17 2 14	4849.7	27.55	242.59
100.00	9 53 38	1331.38	-1.32	345.80	22.08	119.87	10 15 49	731.4	2.66	339.28
100.00	17 4 4	5150.90	29.62	229.12	29.25	85.81	18 29 55	4550.9	28.73	220.43
110.00	10 37 14	1194.72	-4.43	333.51	20.14	123.93	10 57 9	594.7	.06	327.30
110.00	18 36 57	4860.32	33.26	206.58	28.78	81.60	19 57 57	4260.3	31.74	197.68

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY			ORBIT DETERMINATION ACCURACY		
TDE	.7001	TRA	-1.0059	TC3	.5478	BAU	.1431	SGT 1806.4 SGR 386.6 SG3 229.8	ST 1057.0	SR 253.4	SS 1128.7
RDE	-.1800	RRA	-.1260	RC3	.2810	FAU	.03768	RRT .1944 RRF -.2199 RTF -.9033	CRT -.7983	CRS -.8876	CST .9855
FDE	-1.1763	FRA	.9779	FC3	-1.8763	BSP	5768	SGB 1847.3 R23 -.0369 R13 -.9036	LSA 1555.8	MSA 185.8	SSA 16.3
BDE	.7229	BRA	1.0138	BC3	.6157	FSP	-640	SG1 1808.0 SG2 378.9 THA 2.49	EL1 1076.5	EL2 149.9	ALF 168.95

LAUNCH DATE MAY 25 1967 FLIGHT TIME 114.00 ARRIVAL DATE SEP 16 1967

HELIOCENTRIC CONIC DISTANCE 286.878

RL	151.51	LAL	.00	LOL	243.12	VL	26.033	GAL	3.30	AZL	93.75	HCA	119.83	SMA	123.56	ECC	.23311	INC	3.7502	V1	29.406
RP	108.66	LAP	-3.25	LOP	3.01	VP	36.995	GAP	-11.59	AZP	88.13	TAL	169.01	TAP	288.84	RCA	94.75	APO	152.36	V2	34.875
RC	48.458	GL	-24.88	GP	4.40	ZAL	72.98	ZAP	11.50	ETS	337.40	ZAE	151.40	ETE	31.26	ZAC	91.87	ETC	14.07	CLP	-10.63

PLANETOCENTRIC CONIC

C3	16.330	VHL	4.041	DLA	-19.59	RAL	162.45	RAD	6567.7	VEL	11.735	PTH	2.07	VHP	7.397	DPA	10.16	RAP	176.12	ECC	1.2687

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 48 20	1506.28	1.57	.26	20.89	118.28	9 13 26	906.3	5.33	353.60
90.00	15 16 30	5471.92	28.26	252.81	27.33	88.21	16 47 42	4871.9	27.72	244.19
100.00	9 57 21	1283.53	.30	343.18	20.18	119.89	10 18 45	683.5	4.28	336.65
100.00	16 50 10	5169.90	29.71	230.52	27.25	86.55	18 16 20	4569.9	28.92	221.81
110.00	10 39 4	1152.81	-2.83	331.31	18.23	124.08	10 58 17	552.8	1.66	325.11
110.00	18 24 56	4873.39	33.38	207.58	26.82	82.18	19 46 10	4273.4	31.94	198.64

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY			ORBIT DETERMINATION ACCURACY		
TDE	.7143	TRA	-.9704	TC3	.6331	BAU	.1533	SGT 1849.4 SGR 377.7 SG3 254.6	ST 1103.6	SR 230.1	SS 1205.9
RDE	-.1577	RRA	-.1198	RC3	.3035	FAU	.04073	RRT .2326 RRF -.2619 RTF -.9093	CRT -.7977	CRS -.8851	CST .9863
FDE	-1.2912	FRA	1.0051	FC3	-2.1594	BSP	5927	SGB 1887.6 R23 -.0430 R13 -.9098	LSA 1640.8	MSA 180.5	SSA 16.1
BDE	.7315	BRA	.9778	BC3	.7021	FSP	-716	SG1 1851.6 SG2 366.9 THA 2.83	EL1 1119.0	EL2 136.9	ALF 170.41

LAUNCH DATE MAY 25 1967 FLIGHT TIME 116.00 ARRIVAL DATE SEP 18 1967

HELIOCENTRIC CONIC DISTANCE 293.578

RL	151.51	LAL	.00	LOL	243.12	VL	26.149	GAL	3.08	AZL	93.81	HCA	123.01	SMA	124.25	ECC	.22553	INC	3.8095	V1	29.406
RP	108.63	LAP	-3.19	LOP	6.19	VP	37.086	GAP	-10.88	AZP	87.92	TAL	169.31	TAP	292.33	RCA	96.23	APO	152.28	V2	34.886
RC	49.776	GL	-26.22	GP	4.84	ZAL	73.92	ZAP	13.55	ETS	339.01	ZAE	150.14	ETE	29.86	ZAC	90.66	ETC	13.91	CLP	-12.67

PLANETOCENTRIC CONIC

C3	15.421	VHL	3.927	DLA	-20.49	RAL	161.12	RAD	6567.6	VEL	11.696	PTH	2.06	VHP	6.999	DPA	10.10	RAP	177.35	ECC	1.2538

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 53 19	1455.35	3.21	357.41	19.08	118.15	9 17 34	855.4	6.95	350.73
90.00	15 0 56	5496.87	28.30	254.64	25.35	89.12	16 32 33	4896.9	27.88	246.00
100.00	10 1 14	1236.16	1.91	340.58	18.36	119.84	10 21 50	636.2	5.86	334.03
100.00	16 35 42	5191.30	29.79	232.11	25.30	87.38	18 2 13	4591.3	29.11	223.37
110.00	10 40 53	1111.88	-1.27	329.18	16.38	124.16	10 59 25	511.9	3.23	322.97
110.00	18 12 32	4888.34	33.52	208.72	24.92	82.84	19 34 0	4288.3	32.18	199.75

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY			ORBIT DETERMINATION ACCURACY		
TDE	.7295	TRA	-.9341	TC3	.7173	BAU	.1626	SGT 1888.7 SGR 369.8 SG3 282.6	ST 1150.5	SR 204.0	SS 1290.0
RDE	-.1348	RRA	-.1147	RC3	.3274	FAU	.04414	RRT .2798 RRF -.3139 RTF -.9148	CRT -.7917	CRS -.8782	CST .9870
FDE	-1.4236	FRA	1.0338	FC3	-2.4780	BSP	6073	SGB 1924.6 R23 -.0506 R13 -.9153	LSA 1731.6	MSA 175.5	SSA 15.7
BDE	.7418	BRA	.9411	BC3	.7885	FSP	-802	SG1 1891.6 SG2 354.5 THA 3.25	EL1 1161.9	EL2 123.4	ALF 171.92

LAUNCH DATE MAY 25 1967 FLIGHT TIME 118.00 ARRIVAL DATE SEP 20 1967

HELIOCENTRIC CONIC DISTANCE 300.268

RL 151.51 LAL .00 LOL 243.12 VL 26.255 GAL 2.87 AZL 93.87 HCA 126.19 SMA 124.90 ECC .21858 INC 3.8733 V1 29.406
RP 108.59 LAP -3.13 LOP 9.37 VP 37.171 GAP -10.18 AZP 87.71 TAL 169.64 TAP 295.83 RCA 97.60 APO 152.20 V2 34.897
RC 51.201 GL -27.57 GP 5.34 ZAL 74.88 ZAP 15.72 ETS 340.11 ZAE 149.06 ETE 28.88 ZAC 89.53 ETC 13.76 CLP -14.81

PLANETOCENTRIC CONIC

C3 14.647 VHL 3.827 DLA -21.39 RAL 159.76 RAO 6567.6 VEL 11.663 PTH 2.05 VHP 6.618 DPA 10.13 RAP 178.52 ECC 1.2411

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 58 43	1404.24	4.84	354.55	17.36	117.93	9 22 7	804.2	8.54	347.82
90.00	14 44 38	5524.94	28.32	256.69	23.43	90.15	16 16 43	4924.9	28.04	248.04
100.00	10 5 23	1189.09	3.50	337.99	16.62	119.71	10 25 12	589.1	7.43	331.41
100.00	16 20 39	5215.32	29.85	233.89	23.41	88.31	17 47 34	4615.3	29.30	225.13
110.00	10 42 46	1071.89	.26	327.09	14.60	124.18	11 0 38	471.9	4.75	320.87
110.00	17 59 45	4905.29	33.65	210.03	23.09	83.61	19 21 30	4305.3	32.40	201.02

DIFFERENTIAL CORRECTIONS
TOE .7443 TRA -.8968 TC3 .8000 BAU .1713
RDE -.1111 RRA -.1106 RC3 .3534 FAU .04798
FOE-1.5751 FRA 1.0641 FC3-2.8356 BSP 6195
BOE .7525 BRA .9036 BC3 .8745 FSP -898

MID-COURSE EXECUTION ACCURACY
SGT 1922.4 SGR 363.9 SG3 313.9
RRT .3386 RRF -.3777 RTF -.9197
SGB 1956.6 R23 -.0597 R13 -.9205
SG1 1926.5 SG2 341.7 THA 3.79

ORBIT DETERMINATION ACCURACY
ST 1195.4 SR 174.8 SS 1380.3
CRT -.7754 CRS -.8629 CST .9878
LSA 1826.3 MSA 171.0 SSA 15.2
EL1 1203.1 EL2 109.7 ALF 173.48

LAUNCH DATE MAY 25 1967 FLIGHT TIME 120.00 ARRIVAL DATE SEP 22 1967

HELIOCENTRIC CONIC DISTANCE 306.946

RL 151.51 LAL .00 LOL 243.12 VL 26.351 GAL 2.67 AZL 93.94 HCA 129.37 SMA 125.50 ECC .21222 INC 3.9426 V1 29.406
RP 108.56 LAP -3.05 LOP 12.56 VP 37.250 GAP -9.51 AZP 87.50 TAL 169.98 TAP 299.35 RCA 98.87 APO 152.14 V2 34.908
RC 52.722 GL -28.93 GP 5.93 ZAL 75.86 ZAP 18.03 ETS 340.85 ZAE 148.18 ETE 28.27 ZAC 88.48 ETC 13.60 CLP -17.06

PLANETOCENTRIC CONIC

C3 13.997 VHL 3.741 DLA -22.29 RAL 158.36 RAO 6567.6 VEL 11.635 PTH 2.04 VHP 6.254 DPA 10.28 RAP 179.63 ECC 1.2304

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 4 44	1352.49	6.48	351.63	15.73	117.62	9 27 16	752.5	10.13	344.85
90.00	14 27 30	5556.61	28.29	259.01	21.59	91.31	16 0 6	4956.6	28.17	250.35
100.00	10 9 56	1142.05	5.08	335.40	14.96	119.50	10 28 58	542.0	8.97	328.77
100.00	16 4 59	5242.28	29.89	235.89	21.60	89.37	17 32 21	4642.3	29.48	227.11
110.00	10 44 49	1032.71	1.76	325.05	12.90	124.14	11 2 1	432.7	6.23	318.81
110.00	17 46 35	4924.39	33.79	211.50	21.35	84.47	19 8 40	4324.4	32.65	202.45

DIFFERENTIAL CORRECTIONS
TOE .7606 TRA -.8567 TC3 .8834 BAU .1801
RDE -.0857 RRA -.1077 RC3 .3821 FAU .05239
FOE-1.7516 FRA 1.0937 FC3-3.2404 BSP 6350
BOE .7655 BRA .8634 BC3 .9625 FSP -1012

MID-COURSE EXECUTION ACCURACY
SGT 1950.5 SGR 361.6 SG3 349.4
RRT .4095 RRF -.4540 RTF -.9248
SGB 1983.7 R23 -.0704 R13 -.9258
SG1 1956.3 SG2 328.9 THA 4.47

ORBIT DETERMINATION ACCURACY
ST 1240.3 SR 142.0 SS 1479.4
CRT -.7381 CRS -.8294 CST .9887
LSA 1928.5 MSA 166.4 SSA 14.6
EL1 1244.7 EL2 95.4 ALF 175.14

LAUNCH DATE MAY 25 1967 FLIGHT TIME 122.00 ARRIVAL DATE SEP 24 1967

HELIOCENTRIC CONIC DISTANCE 313.612

RL 151.51 LAL .00 LOL 243.12 VL 26.439 GAL 2.49 AZL 94.02 HCA 132.56 SMA 126.05 ECC .20642 INC 4.0185 V1 29.406
RP 108.52 LAP -2.96 LOP 15.75 VP 37.323 GAP -8.86 AZP 87.28 TAL 170.32 TAP 302.88 RCA 100.03 APO 152.07 V2 34.920
RC 54.330 GL -30.30 GP 6.61 ZAL 76.83 ZAP 20.48 ETS 341.33 ZAE 147.50 ETE 28.06 ZAC 87.53 ETC 13.45 CLP -19.43

PLANETOCENTRIC CONIC

C3 13.461 VHL 3.669 DLA -23.20 RAL 156.96 RAO 6567.5 VEL 11.612 PTH 2.03 VHP 5.908 DPA 10.57 RAP 180.67 ECC 1.2215

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 11 39	1299.38	8.15	348.62	14.23	117.21	9 33 18	699.4	11.73	341.77
90.00	14 9 21	5592.64	28.20	261.64	19.82	92.63	15 42 33	4992.6	28.27	252.98
100.00	10 15 6	1094.57	6.67	332.76	13.43	119.21	10 33 20	494.6	10.51	326.08
100.00	15 48 35	5272.69	29.89	238.16	19.87	90.56	17 16 27	4672.7	29.65	229.36
110.00	10 47 8	994.14	3.23	323.03	11.31	124.05	11 3 42	394.1	7.68	316.77
110.00	17 33 2	4945.88	33.92	213.17	19.71	85.45	18 55 28	4345.9	32.91	204.07

DIFFERENTIAL CORRECTIONS
TOE .7741 TRA -.8183 TC3 .9512 BAU .1867
RDE -.0581 RRA -.1060 RC3 .4143 FAU .05722
FOE-1.9531 FRA 1.1269 FC3-3.6797 BSP 6430
BOE .7762 BRA .8251 BC3 1.0375 FSP -1136

MID-COURSE EXECUTION ACCURACY
SGT 1970.1 SGR 364.8 SG3 388.9
RRT .4911 RRF -.5415 RTF -.9285
SGB 2003.6 R23 -.0843 R13 -.9299
SG1 1978.4 SG2 316.4 THA 5.33

ORBIT DETERMINATION ACCURACY
ST 1278.9 SR 106.0 SS 1584.7
CRT -.6413 CRS -.7443 CST .9893
LSA 2032.6 MSA 163.2 SSA 14.0
EL1 1280.7 EL2 81.2 ALF 176.95

LAUNCH DATE MAY 25 1967 FLIGHT TIME 124.00 ARRIVAL DATE SEP 26 1967

HELIOCENTRIC CONIC DISTANCE 320.264

RL 151.51 LAL .00 LOL 243.12 VL 26.518 GAL 2.33 AZL 94.10 HCA 135.75 SMA 126.56 ECC .20116 INC 4.1027 V1 29.406
RP 108.48 LAP -2.86 LOP 18.94 VP 37.391 GAP -8.23 AZP 87.06 TAL 170.67 TAP 306.41 RCA 101.10 APO 152.02 V2 34.932
RC 56.016 GL -31.68 GP 7.42 ZAL 77.80 ZAP 23.11 ETS 341.59 ZAE 147.00 ETE 28.25 ZAC 86.69 ETC 13.29 CLP -21.94

PLANETOCENTRIC CONIC

C3 13.032 VHL 3.610 DLA -24.11 RAL 155.54 RAO 6567.5 VEL 11.594 PTH 2.03 VHP 5.579 DPA 11.03 RAP 181.63 ECC 1.2145

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 19 52	1243.76	9.87	345.43	12.87	116.68	9 40 35	643.8	13.37	338.51
90.00	13 49 52	5634.24	28.04	264.67	18.14	94.14	15 23 46	5034.2	28.32	256.02
100.00	10 21 8	1045.97	8.27	330.05	12.02	118.83	10 38 34	446.0	12.06	323.30
100.00	15 31 16	5307.25	29.84	240.72	18.25	91.91	16 59 44	4707.3	29.78	231.92
110.00	10 49 51	955.88	4.69	321.03	9.82	123.90	11 5 47	355.9	9.11	314.73
110.00	17 19 2	4970.11	34.03	215.05	18.18	86.55	18 41 52	4370.1	33.18	205.92

DIFFERENTIAL CORRECTIONS
TOE .7858 TRA -.7798 TC3 1.0069 BAU .1922
RDE -.0272 RRA -.1057 RC3 .4512 FAU .06261
FOE-2.1853 FRA 1.1621 FC3-4.1591 BSP 6477
BOE .7862 BRA .7869 BC3 1.1033 FSP -1275

MID-COURSE EXECUTION ACCURACY
SGT 1980.5 SGR 376.5 SG3 433.1
RRT .5797 RRF -.6358 RTF -.9315
SGB 2015.9 R23 -.1014 R13 -.9334
SG1 1992.7 SG2 304.9 THA 6.44

ORBIT DETERMINATION ACCURACY
ST 1311.9 SR 70.7 SS 1697.8
CRT -.3360 CRS -.4632 CST .9899
LSA 2140.7 MSA 160.6 SSA 13.2
EL1 1312.1 EL2 66.6 ALF 178.96

LAUNCH DATE MAY 25 1967 FLIGHT TIME 126.00 ARRIVAL DATE SEP 28 1967

HELIOCENTRIC CONIC DISTANCE 326.901

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.590 GAL   2.18 AZL  94.20 HCA 138.93 SMA 127.02 ECC .19640 INC 4.1972 V1  29.406
RP  108.45 LAP  -2.76 LOP  22.13 VP  37.453 GAP  -7.62 AZP  86.83 TAL 171.01 TAP 309.95 RCA 102.07 APO 151.97 V2  34.945
RC   57.772 GL  -33.06 GP   8.38 ZAL  78.73 ZAP  25.92 ETS 341.69 ZAE 146.70 ETE  28.91 ZAC  85.96 ETC  13.14 CLP -24.61
```

PLANETOCENTRIC CONIC

```
C3  12.706 VHL  3.565 DLA -25.04 RAL 154.13 RAD 6567.5 VEL 11.580 PTH   2.03 VHP  5.269 DPA  11.69 RAP 182.51 ECC 1.2091
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 30 2	1183.69	11.68	341.95	11.69	115.98	9 49 46	583.7	15.08	334.92
90.00	13 28 27	5683.39	27.74	268.24	16.55	95.91	15 3 11	5083.4	28.27	259.61
100.00	10 28 25	995.19	9.93	327.19	10.77	118.34	10 45 0	395.2	13.64	320.36
100.00	15 12 45	5347.12	29.71	243.68	16.73	93.46	16 41 52	4747.1	29.87	234.88
110.00	10 53 11	917.49	6.14	319.01	8.48	123.69	11 8 29	317.5	10.53	312.66
110.00	17 4 28	4997.58	34.12	217.19	16.79	87.82	18 27 46	4397.6	33.44	208.02

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .7971 TRA -.7385 TC3 1.0525 BAU  .1975     SGT 1980.2 SGR  400.5 SG3  482.7     ST  1340.4 SR    59.4 SS  1820.6
RDE  .0084 RRA -.1068 RC3  .4946 FAU .06871     RRT  .6684 RRF -.7292 RTF -.9345     CRT  .5006 CRS  .3806 CST  .9905
FDE-2.4555 FRA 1.1947 FC3-4.6817 BSP   6548     SGB 2020.3 R23 -.1215 R13 -.9372     LSA 2256.0 MSA  157.9 SSA   12.4
BDE  .7972 BRA  .7462 BC3 1.1629 FSP  -1437     SG1 1998.6 SG2  295.2 THA   7.87     EL1 1340.8 EL2   51.4 ALF   1.27
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 128.00 ARRIVAL DATE SEP 30 1967

HELIOCENTRIC CONIC DISTANCE 333.522

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.655 GAL   2.04 AZL  94.30 HCA 142.12 SMA 127.44 ECC .19212 INC 4.3046 V1  29.406
RP  108.41 LAP  -2.64 LOP  25.32 VP  37.511 GAP  -7.02 AZP  86.60 TAL 171.34 TAP 313.47 RCA 102.95 APO 151.92 V2  34.957
RC   59.590 GL  -34.47 GP   9.53 ZAL  79.63 ZAP  28.94 ETS 341.64 ZAE 146.55 ETE  30.09 ZAC  85.36 ETC  12.98 CLP -27.46
```

PLANETOCENTRIC CONIC

```
C3  12.479 VHL  3.533 DLA -26.00 RAL 152.74 RAD 6567.5 VEL 11.570 PTH   2.02 VHP  4.978 DPA  12.59 RAP 183.32 ECC 1.2054
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 43 23	1115.46	13.68	337.94	10.74	115.04	10 1 58	515.5	16.94	330.78
90.00	13 3 59	5743.94	27.24	272.60	15.02	98.04	14 39 43	5143.9	28.07	264.03
100.00	10 37 34	940.45	11.68	324.07	9.72	117.71	10 53 15	340.4	15.30	317.15
100.00	14 52 28	5394.18	29.47	247.16	15.32	95.27	16 22 22	4794.2	29.88	238.38
110.00	10 57 22	878.33	7.62	316.93	7.29	123.42	11 12 0	278.3	11.96	310.53
110.00	16 49 10	5029.06	34.18	219.65	15.54	89.27	18 12 59	4429.1	33.70	210.44

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .8040 TRA -.6987 TC3 1.0719 BAU  .2007     SGT 1965.6 SGR  441.0 SG3  537.2     ST  1358.0 SR   101.6 SS  1950.8
RDE  .0503 RRA -.1098 RC3  .5457 FAU .07529     RRT  .7476 RRF -.8126 RTF -.9362     CRT  .9361 CRS  .8829 CST  .9909
FDE-2.7652 FRA 1.2295 FC3-5.2232 BSP   6535     SGB 2014.5 R23 -.1464 R13 -.9401     LSA 2374.0 MSA  156.3 SSA   11.5
BDE  .8056 BRA  .7072 BC3 1.2028 FSP  -1611     SG1 1993.7 SG2  288.8 THA   9.73     EL1 1361.3 EL2   35.7 ALF   4.01
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 2 1967

HELIOCENTRIC CONIC DISTANCE 340.127

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.712 GAL   1.92 AZL  94.43 HCA 145.32 SMA 127.82 ECC .18830 INC 4.4287 V1  29.406
RP  108.37 LAP  -2.52 LOP  28.52 VP  37.564 GAP  -6.44 AZP  86.36 TAL 171.66 TAP 316.98 RCA 103.75 APO 151.88 V2  34.970
RC   61.464 GL  -35.91 GP  10.91 ZAL  80.49 ZAP  32.22 ETS 341.48 ZAE 146.52 ETE  31.90 ZAC  84.89 ETC  12.83 CLP -30.50
```

PLANETOCENTRIC CONIC

```
C3  12.355 VHL  3.515 DLA -27.01 RAL 151.36 RAD 6567.5 VEL 11.565 PTH   2.02 VHP  4.708 DPA  13.79 RAP 184.05 ECC 1.2033
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 2 40	1030.33	16.07	332.83	10.11	113.63	10 19 51	430.3	19.13	325.49
90.00	12 33 42	5824.82	26.34	278.35	13.52	100.78	14 10 47	5224.8	27.56	269.89
100.00	10 49 39	878.59	13.61	320.49	8.91	116.87	11 4 17	278.6	17.11	313.44
100.00	14 29 25	5451.79	29.03	251.39	14.01	97.46	16 0 16	4851.8	29.76	242.66
110.00	11 2 45	837.46	9.14	314.75	6.28	123.08	11 16 42	237.5	13.44	308.28
110.00	16 32 48	5065.68	34.17	222.51	14.45	90.96	17 57 14	4465.7	33.93	213.27

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .8071 TRA -.6584 TC3 1.0698 BAU  .2032     SGT 1935.8 SGR  503.3 SG3  596.9     ST  1364.6 SR   177.0 SS  2089.7
RDE  .1012 RRA -.1146 RC3  .6071 FAU .08249     RRT  .8114 RRF -.8793 RTF -.9370     CRT  .9938 CRS  .9728 CST  .9912
FDE-3.1217 FRA 1.2619 FC3-5.7800 BSP   6488     SGB 2000.2 R23 -.1743 R13 -.9429     LSA 2497.2 MSA  155.2 SSA   10.6
BDE  .8135 BRA  .6682 BC3 1.2300 FSP  -1804     SG1 1979.4 SG2  287.7 THA  12.17     EL1 1375.9 EL2   19.5 ALF   7.35
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 4 1967

HELIOCENTRIC CONIC DISTANCE 346.714

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.764 GAL   1.81 AZL  94.57 HCA 148.51 SMA 128.16 ECC .18490 INC 4.5747 V1  29.406
RP  108.33 LAP  -2.39 LOP  31.71 VP  37.612 GAP  -5.88 AZP  86.10 TAL 171.95 TAP 320.47 RCA 104.46 APO 151.85 V2  34.983
RC   63.388 GL  -37.40 GP  12.60 ZAL  81.29 ZAP  35.77 ETS 341.22 ZAE 146.54 ETE  34.47 ZAC  84.55 ETC  12.69 CLP -33.76
```

PLANETOCENTRIC CONIC

```
C3  12.341 VHL  3.513 DLA -28.08 RAL 150.00 RAD 6567.5 VEL 11.564 PTH   2.02 VHP  4.461 DPA  15.34 RAP 184.73 ECC 1.2031
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 40 33	887.88	19.74	323.99	10.17	110.72	10 55 21	287.9	22.38	316.32
90.00	11 44 58	678.74	24.16	310.26	11.72	105.23	11 56 17	78.7	26.02	302.08
100.00	11 6 52	802.75	15.89	316.02	8.44	115.65	11 20 15	202.8	19.22	308.80
100.00	14 1 20	5527.15	28.24	256.85	12.74	100.23	15 33 27	4927.1	29.36	248.22
110.00	11 9 50	793.44	10.77	312.38	5.50	122.64	11 23 3	193.4	15.00	305.83
110.00	16 14 51	5109.22	34.07	225.91	13.53	92.97	17 40 1	4509.2	34.11	216.66

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .8047 TRA -.6189 TC3 1.0370 BAU  .2046     SGT 1887.4 SGR  592.6 SG3  660.9     ST  1356.8 SR   277.0 SS  2235.7
RDE  .1645 RRA -.1217 RC3  .6805 FAU .09003     RRT  .8563 RRF -.9271 RTF -.9363     CRT  .9993 CRS  .9921 CST  .9913
FDE-3.5282 FRA 1.2920 FC3-6.3153 BSP   6402     SGB 1978.3 R23 -.2035 R13 -.9456     LSA 2625.2 MSA  154.8 SSA    9.6
BDE  .8213 BRA  .6308 BC3 1.2403 FSP  -2010     SG1 1956.1 SG2  295.3 THA  15.41     EL1 1384.7 EL2   10.0 ALF  11.53
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 6 1967

HELIOCENTRIC CONIC DISTANCE 353.284
RL 151.51 LAL .00 LOL 243.12 VL 26.809 GAL 1.72 AZL 94.75 HCA 151.71 SMA 128.46 ECC .18190 INC 4.7502 V1 29.406
RP 108.29 LAP -2.25 LOP 34.91 VP 37.657 GAP -5.33 AZP 85.82 TAL 172.22 TAP 323.93 RCA 105.09 APO 151.82 V2 34.996
RC 65.357 GL -38.96 GP 14.68 ZAL 82.02 ZAP 39.65 ETS 340.87 ZAE 146.49 ETE 37.94 ZAC 84.35 ETC 12.57 CLP -37.26
PLANETOCENTRIC CONIC
C3 12.453 VHL 3.529 DLA -29.25 RAL 148.65 RAD 6567.5 VEL 11.569 PTH 2.02 VHP 4.240 DPA 17.35 RAP 185.38 ECC 1.2049

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.36	10 4 19	988.97	22.76	332.57	10.09	108.87	10 20 48	389.0	25.13	324.62
97.64	12 10 23	5869.53	22.78	280.58	10.09	108.86	13 48 13	5269.5	25.14	272.63
100.00	11 36 31	690.14	19.08	309.18	8.56	113.45	11 48 1	90.1	22.09	301.68
100.00	13 20 53	5643.59	26.56	265.09	11.33	104.25	14 54 56	5043.6	28.25	256.70
110.00	11 19 27	743.89	12.57	309.68	5.01	122.05	11 31 51	143.9	16.72	303.02
110.00	15 54 26	5162.60	33.80	230.05	12.78	95.41	17 20 29	4562.6	34.18	220.83

DIFFERENTIAL CORRECTIONS
TDE .7976 TRA -.5774 TC3 .9818 BAU .2077
RDE .2455 RRA -.1309 RC3 .7697 FAU .09800
FDE-3.9921 FRA 1.3076 FC3-6.8132 BSP 6349
BDE .8346 BRA .5921 BC3 1.2476 FSP -2239

MID-COURSE EXECUTION ACCURACY
SGT 1819.8 SGR 716.5 SG3 728.3
RRT .8854 RRF -.9585 RTF -.9348
SGB 1955.8 R23 -.2263 R13 -.9497
SG1 1930.4 SG2 314.0 THA 19.76

ORBIT DETERMINATION ACCURACY
ST 1334.8 SR 405.6 SS 2390.1
CRT .9977 CRS .9974 CST .9913
LSA 2763.1 MSA 154.3 SSA 8.6
EL1 1394.8 EL2 26.1 ALF 16.87

LAUNCH DATE MAY 25 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 8 1967

HELIOCENTRIC CONIC DISTANCE 359.835
RL 151.51 LAL .00 LOL 243.12 VL 26.849 GAL 1.64 AZL 94.97 HCA 154.91 SMA 128.72 ECC .17927 INC 4.9664 V1 29.406
RP 108.25 LAP -2.10 LOP 38.11 VP 37.698 GAP -4.80 AZP 85.50 TAL 172.45 TAP 327.36 RCA 105.65 APO 151.80 V2 35.009
RC 67.365 GL -40.65 GP 17.29 ZAL 82.70 ZAP 43.90 ETS 340.46 ZAE 146.19 ETE 42.47 ZAC 84.27 ETC 12.47 CLP -41.01
PLANETOCENTRIC CONIC
C3 12.720 VHL 3.566 DLA -30.55 RAL 147.29 RAD 6567.5 VEL 11.580 PTH 2.03 VHP 4.050 DPA 19.93 RAP 186.06 ECC 1.2093

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.04	9 25 50	1099.09	23.63	341.08	9.41	109.94	9 44 9	499.1	26.13	333.12
101.96	12 38 1	5768.46	23.64	273.40	9.42	109.93	14 14 10	5168.5	26.14	265.44
78.04	9 25 50	1099.09	23.63	341.08	9.41	109.94	9 44 9	499.1	26.13	333.12
101.96	12 38 1	5768.46	23.64	273.40	9.42	109.93	14 14 10	5168.5	26.14	265.44
110.00	11 33 10	684.37	14.70	306.37	4.90	121.21	11 44 34	84.4	18.73	299.57
110.00	15 29 51	5231.18	33.24	235.33	12.18	98.48	16 57 2	4631.2	34.05	226.18

DIFFERENTIAL CORRECTIONS
TDE .7817 TRA -.5380 TC3 .8864 BAU .2116
RDE .3516 RRA -.1431 RC3 .8734 FAU .10538
FDE-4.5053 FRA 1.3117 FC3-7.1723 BSP 6249
BDE .8571 BRA .5567 BC3 1.2443 FSP -2455

MID-COURSE EXECUTION ACCURACY
SGT 1727.4 SGR 882.3 SG3 794.4
RRT .8997 RRF -.9773 RTF -.9305
SGB 1939.7 R23 -.2388 R13 -.9550
SG1 1908.1 SG2 348.7 THA 25.60

ORBIT DETERMINATION ACCURACY
ST 1291.5 SR 570.8 SS 2546.4
CRT .9954 CRS .9991 CST .9910
LSA 2907.5 MSA 154.7 SSA 7.6
EL1 1411.2 EL2 50.2 ALF 23.78

LAUNCH DATE MAY 25 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 10 1967

HELIOCENTRIC CONIC DISTANCE 366.367
RL 151.51 LAL .00 LOL 243.12 VL 26.883 GAL 1.57 AZL 95.24 HCA 158.11 SMA 128.96 ECC .17700 INC 5.2415 V1 29.406
RP 108.20 LAP -1.95 LOP 41.31 VP 37.735 GAP -4.28 AZP 85.13 TAL 172.65 TAP 330.76 RCA 106.13 APO 151.78 V2 35.023
RC 69.409 GL -42.52 GP 20.59 ZAL 83.31 ZAP 48.57 ETS 340.01 ZAE 145.37 ETE 48.14 ZAC 84.27 ETC 12.43 CLP -45.02
PLANETOCENTRIC CONIC
C3 13.195 VHL 3.632 DLA -32.04 RAL 145.88 RAD 6567.5 VEL 11.601 PTH 2.03 VHP 3.900 DPA 23.23 RAP 186.87 ECC 1.2172

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.35	8 54 20	1188.46	24.54	348.20	9.01	111.27	9 14 9	588.5	27.21	340.23
105.65	12 58 18	5694.89	24.55	268.22	9.02	111.26	14 33 13	5094.9	27.22	260.25
74.35	8 54 20	1188.46	24.54	348.20	9.01	111.27	9 14 9	588.5	27.21	340.23
105.65	12 58 18	5694.89	24.55	268.22	9.02	111.26	14 33 13	5094.9	27.22	260.25
110.00	11 54 38	604.31	17.47	301.82	5.39	119.86	12 4 43	4.3	21.31	294.80
110.00	14 57 10	5327.04	32.04	242.55	11.60	102.60	16 25 57	4727.0	33.44	233.60

DIFFERENTIAL CORRECTIONS
TDE .7587 TRA -.4978 TC3 .7646 BAU .2211
RDE .4953 RRA -.1574 RC3 .9933 FAU .11181
FDE-5.0647 FRA 1.2829 FC3-7.3362 BSP 6282
BDE .9061 BRA .5221 BC3 1.2535 FSP -2668

MID-COURSE EXECUTION ACCURACY
SGT 1612.0 SGR 1103.1 SG3 855.0
RRT .9037 RRF -.9881 RTF -.9235
SGB 1953.3 R23 -.2298 R13 -.9637
SG1 1912.3 SG2 398.1 THA 33.37

ORBIT DETERMINATION ACCURACY
ST 1228.6 SR 786.5 SS 2703.0
CRT .9932 CRS .9997 CST .9904
LSA 3067.6 MSA 155.0 SSA 6.5
EL1 1456.8 EL2 77.4 ALF 32.55

LAUNCH DATE MAY 25 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 12 1967

HELIOCENTRIC CONIC DISTANCE 372.880
RL 151.51 LAL .00 LOL 243.12 VL 26.913 GAL 1.52 AZL 95.61 HCA 161.31 SMA 129.16 ECC .17505 INC 5.6058 V1 29.406
RP 108.16 LAP -1.79 LOP 44.52 VP 37.768 GAP -3.78 AZP 84.69 TAL 172.80 TAP 334.12 RCA 106.55 APO 151.77 V2 35.036
RC 71.485 GL -44.66 GP 24.84 ZAL 83.88 ZAP 53.72 ETS 339.55 ZAE 143.59 ETE 54.83 ZAC 84.28 ETC 12.46 CLP -49.30
PLANETOCENTRIC CONIC
C3 13.981 VHL 3.739 DLA -33.79 RAL 144.37 RAD 6567.6 VEL 11.635 PTH 2.04 VHP 3.804 DPA 27.48 RAP 188.00 ECC 1.2301

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.74	8 25 6	1272.88	25.48	355.11	8.95	112.99	8 46 19	672.9	28.36	347.16
109.26	13 15 30	5635.70	25.49	264.09	8.95	112.97	14 49 26	5035.7	28.38	256.14
70.74	8 25 6	1272.88	25.48	355.11	8.95	112.99	8 46 19	672.9	28.36	347.16
109.26	13 15 30	5635.70	25.49	264.09	8.95	112.97	14 49 26	5035.7	28.38	256.14
110.00	12 40 47	5741.79	22.33	270.76	7.36	116.58	14 16 29	5141.8	25.71	263.23
110.00	13 58 59	5502.83	28.73	255.15	10.36	109.37	15 30 42	4902.8	31.10	246.75

DIFFERENTIAL CORRECTIONS
TDE .7238 TRA -.4607 TC3 .6080 BAU .2382
RDE .6949 RRA -.1738 RC3 1.1199 FAU .11533
FDE-5.6280 FRA 1.2138 FC3-7.1416 BSP 6438
BDE 1.0033 BRA .4923 BC3 1.2743 FSP -2814

MID-COURSE EXECUTION ACCURACY
SGT 1469.1 SGR 1392.1 SG3 897.5
RRT .8967 RRF -.9939 RTF -.9104
SGB 2023.9 R23 -.1967 R13 -.9752
SG1 1971.1 SG2 459.2 THA 43.28

ORBIT DETERMINATION ACCURACY
ST 1138.0 SR 1069.4 SS 2843.3
CRT .9907 CRS .9999 CST .9890
LSA 3240.1 MSA 156.5 SSA 5.6
EL1 1558.0 EL2 106.1 ALF 43.20

LAUNCH DATE MAY 25 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 14 1967

HELIOCENTRIC CONIC DISTANCE 379.373

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.938 GAL   1.48 AZL  96.12 HCA 164.52 SMA 129.33 ECC .17342 INC 6.1152 VI  29.406
RP  108.12 LAP  -1.63 LOP  47.72 VP  37.798 GAP  -3.28 AZP  84.11 TAL 172.91 TAP 337.43 RCA 106.90 APO 151.76 V2  35.049
RC  73.590 GL  -47.21 GP   30.44 ZAL  84.41 ZAP  59.42 ETS 339.15 ZAE 140.28 ETE  62.17 ZAC  84.16 ETC  12.55 CLP -53.84
```

PLANETOCENTRIC CONIC

```
C3  15.284 VHL  3.909 DLA -35.93 RAL 142.66 RAD 6567.6 VEL 11.691 PTH   2.06 VHP  3.791 DPA  32.97 RAP 189.83 ECC 1.2515
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.89	7 55 58	1360.06	26.43	2.45	9.35	115.28	8 18 38	760.1	29.60	354.55
113.11	13 30 57	5588.13	26.44	260.82	9.35	115.27	15 4 5	4988.1	29.61	252.91
66.89	7 55 58	1360.06	26.43	2.45	9.35	115.28	8 18 38	760.1	29.60	354.55
113.11	13 30 57	5588.13	26.44	260.82	9.35	115.27	15 4 5	4988.1	29.61	252.91
66.89	7 55 58	1360.06	26.43	2.45	9.35	115.28	8 18 38	760.1	29.60	354.55
113.11	13 30 57	5588.13	26.44	260.82	9.35	115.27	15 4 5	4988.1	29.61	252.91

DIFFERENTIAL CORRECTIONS

```
TOE  .6818 TRA -.4252 TC3  .4331 BAU  .2679
RDE  .9853 RRA -.1880 RC3 1.2377 FAU .11397
FDE-6.1392 FRA 1.0687 FC3-6.4559 BSP  6958
BDE 1.1981 BRA  .4649 BC3 1.3113 FSP  -2860
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1305.8 SGR 1771.3 SG3  906.9
RRT  .8786 RRF -.9969 RTF -.8892
SGB 2200.6 R23 -.1406 R13 -.9874
SG1 2139.2 SG2  516.3 THA  54.70
```

ORBIT DETERMINATION ACCURACY

```
ST  1025.5 SR  1447.9 SS  2953.7
CRT  .9877 CRS 1.0000 CST  .9868
LSA 3442.0 MSA  157.9 SSA    4.6
EL1 1769.4 EL2  131.1 ALF  54.80
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 144.00 ARRIVAL DATE OCT 16 1967

HELIOCENTRIC CONIC DISTANCE 385.845

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.959 GAL   1.45 AZL  96.88 HCA 167.72 SMA 129.47 ECC .17208 INC 6.8834 VI  29.406
RP  108.08 LAP  -1.46 LOP  50.93 VP  37.825 GAP  -2.80 AZP  83.27 TAL 172.98 TAP 340.70 RCA 107.19 APO 151.75 V2  35.062
RC  75.721 GL  -50.38 GP   37.94 ZAL  84.95 ZAP  65.72 ETS 338.94 ZAE 134.65 ETE  69.46 ZAC  83.68 ETC  12.66 CLP -58.57
```

PLANETOCENTRIC CONIC

```
C3  17.582 VHL  4.193 DLA -38.63 RAL 140.54 RAD 6567.7 VEL 11.788 PTH   2.08 VHP  3.926 DPA  40.10 RAP 193.16 ECC 1.2894
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.54	7 25 1	1457.99	27.24	10.88	10.42	118.53	7 49 19	858.0	30.82	3.11
117.46	13 44 59	5554.22	27.25	258.52	10.43	118.52	15 17 33	4954.2	30.83	250.75
62.54	7 25 1	1457.99	27.24	10.88	10.42	118.53	7 49 19	858.0	30.82	3.11
117.46	13 44 59	5554.22	27.25	258.52	10.43	118.52	15 17 33	4954.2	30.83	250.75
62.54	7 25 1	1457.99	27.24	10.88	10.42	118.53	7 49 19	858.0	30.82	3.11
117.46	13 44 59	5554.22	27.25	258.52	10.43	118.52	15 17 33	4954.2	30.83	250.75

DIFFERENTIAL CORRECTIONS

```
TOE  .6378 TRA -.3937 TC3  .2583 BAU  .3136
RDE 1.4307 RRA -.1879 RC3 1.3091 FAU .10462
FDE-6.4571 FRA  .8087 FC3-5.1515 BSP  8082
BDE 1.5665 BRA  .4363 BC3 1.3343 FSP  -2739
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1131.7 SGR 2266.1 SG3  857.6
RRT  .8453 RRF -.9984 RTF -.8546
SGB 2533.0 R23 -.0804 R13 -.9954
SG1 2471.6 SG2  554.3 THA  65.82
```

ORBIT DETERMINATION ACCURACY

```
ST   895.7 SR  1957.8 SS  2996.4
CRT  .9834 CRS 1.0000 CST  .9830
LSA 3686.2 MSA  159.3 SSA    3.7
EL1 2147.8 EL2  148.3 ALF  65.65
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 146.00 ARRIVAL DATE OCT 18 1967

HELIOCENTRIC CONIC DISTANCE 392.294

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.976 GAL   1.44 AZL  98.18 HCA 170.93 SMA 129.59 ECC .17102 INC 8.1843 VI  29.406
RP  108.04 LAP  -1.29 LOP  54.14 VP  37.850 GAP  -2.33 AZP  81.92 TAL 172.98 TAP 343.91 RCA 107.42 APO 151.75 V2  35.075
RC  77.874 GL  -54.53 GP   48.20 ZAL  85.58 ZAP  72.59 ETS 339.05 ZAE 125.75 ETE  75.83 ZAC  82.46 ETC  12.52 CLP -63.33
```

PLANETOCENTRIC CONIC

```
C3  22.224 VHL  4.714 DLA -42.15 RAL 137.64 RAD 6567.9 VEL 11.983 PTH   2.14 VHP  4.371 DPA  49.21 RAP 200.00 ECC 1.3657
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.37	6 50 7	1579.15	27.43	21.33	12.63	123.35	7 16 26	979.2	31.61	13.90
122.63	13 56 47	5544.30	27.45	257.81	12.64	123.34	15 29 11	4944.3	31.62	250.38
57.37	6 50 7	1579.15	27.43	21.33	12.63	123.35	7 16 26	979.2	31.61	13.90
122.63	13 56 47	5544.30	27.45	257.81	12.64	123.34	15 29 11	4944.3	31.62	250.38
57.37	6 50 7	1579.15	27.43	21.33	12.63	123.35	7 16 26	979.2	31.61	13.90
122.63	13 56 47	5544.30	27.45	257.81	12.64	123.34	15 29 11	4944.3	31.62	250.38

DIFFERENTIAL CORRECTIONS

```
TOE  .6077 TRA -.3802 TC3  .0989 BAU  .3656
RDE 2.1546 RRA -.1550 RC3 1.2265 FAU .08153
FDE-6.2743 FRA  .4555 FC3-3.1762 BSP  9704
BDE 2.2387 BRA  .4106 BC3 1.2305 FSP  -2271
```

MID-COURSE EXECUTION ACCURACY

```
SGT  970.9 SGR 2873.9 SG3  710.8
RRT  .7886 RRF -.9991 RTF -.7984
SGB 3033.5 R23 -.0365 R13 -.9986
SG1 2978.3 SG2  576.1 THA  74.49
```

ORBIT DETERMINATION ACCURACY

```
ST   761.9 SR  2620.0 SS  2881.0
CRT  .9761 CRS 1.0000 CST  .9762
LSA 3964.7 MSA  162.5 SSA    2.8
EL1 2723.9 EL2  159.2 ALF  74.10
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 148.00 ARRIVAL DATE OCT 20 1967

HELIOCENTRIC CONIC DISTANCE 398.717

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.990 GAL   1.44 AZL 100.89 HCA 174.12 SMA 129.68 ECC .17022 INC10.8904 VI  29.406
RP  108.00 LAP  -1.11 LOP  57.35 VP  37.871 GAP  -1.87 AZP  79.17 TAL 172.93 TAP 347.05 RCA 107.60 APO 151.75 V2  35.088
RC  80.046 GL  -60.09 GP   62.36 ZAL  86.44 ZAP  79.74 ETS 339.27 ZAE 112.43 ETE  80.06 ZAC  79.94 ETC  10.99 CLP -67.41
```

PLANETOCENTRIC CONIC

```
C3  34.584 VHL  5.881 DLA -46.74 RAL 133.23 RAD 6568.4 VEL 12.488 PTH   2.26 VHP  5.670 DPA  59.75 RAP 216.50 ECC 1.5692
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
51.12	6 8 18	1752.80	25.27	35.30	16.85	130.73	6 37 31	1152.8	30.32	28.70
128.88	14 3 25	5590.45	25.28	260.18	16.86	130.73	15 36 36	4990.5	30.33	253.58
51.12	6 8 18	1752.80	25.27	35.30	16.85	130.73	6 37 31	1152.8	30.32	28.70
128.88	14 3 25	5590.45	25.28	260.18	16.86	130.73	15 36 36	4990.5	30.33	253.58
51.12	6 8 18	1752.80	25.27	35.30	16.85	130.73	6 37 31	1152.8	30.32	28.70
128.88	14 3 25	5590.45	25.28	260.18	16.86	130.73	15 36 36	4990.5	30.33	253.58

DIFFERENTIAL CORRECTIONS

```
TOE  .6971 TRA -.4292 TC3 -.0192 BAU  .3701
RDE 3.4558 RRA -.0467 RC3  .8002 FAU .04174
FDE-5.1656 FRA  .1111 FC3-1.0449 BSP  10773
BDE 3.5254 BRA  .4318 BC3  .8004 FSP  -1324
```

MID-COURSE EXECUTION ACCURACY

```
SGT  913.3 SGR 3496.6 SG3  447.8
RRT  .7221 RRF -.9994 RTF -.7366
SGB 3613.9 R23 -.0123 R13 -.9995
SG1 3560.2 SG2  620.6 THA  78.98
```

ORBIT DETERMINATION ACCURACY

```
ST   703.4 SR  3367.1 SS  2465.7
CRT  .9670 CRS 1.0000 CST  .9679
LSA 4228.5 MSA  176.1 SSA    1.9
EL1 3435.3 EL2  175.6 ALF  78.55
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 150.00 ARRIVAL DATE OCT 22 1967

HELIOCENTRIC CONIC DISTANCE 405.066
RL 151.51 LAL .00 LOL 243.12 VL 26.999 GAL 1.47 AZL 109.92 HCA 177.28 SMA 129.74 ECC .16968 INC19.9221 V1 29.406
RP 107.96 LAP -.93 LOP 60.56 VP 37.890 GAP -1.44 AZP 70.10 TAL 172.78 TAP 350.06 RCA 107.73 APO 151.76 V2 35.101
RC 82.236 GL -66.25 GP 82.66 ZAL 87.85 ZAP 86.19 ETS 316.27 ZAE 92.33 ETE 58.34 ZAC 75.07 ETC 342.83 CLP -58.65
PLANETOCENTRIC CONIC
C3 100.967 VHL 10.048 DLA -51.35 RAL 126.85 RAD 6570.0 VEL 14.910 PTH 2.69 VHP 10.934 DPA 65.21 RAP 260.35 ECC 2.6617

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
45.20	5 23 10	2057.72	14.24	53.62	25.13	139.88	5 57 28	1457.7	20.29	48.55
134.80	13 57 39	5800.28	14.25	269.03	25.15	139.87	15 34 19	5200.3	20.30	263.96
45.20	5 23 10	2057.72	14.24	53.62	25.13	139.88	5 57 28	1457.7	20.29	48.55
134.80	13 57 39	5800.28	14.25	269.03	25.15	139.87	15 34 19	5200.3	20.30	263.96
45.20	5 23 10	2057.72	14.24	53.62	25.13	139.88	5 57 28	1457.7	20.29	48.55
134.80	13 57 39	5800.28	14.25	269.03	25.15	139.87	15 34 19	5200.3	20.30	263.96

DIFFERENTIAL CORRECTIONS
TOE 4.6512 TRA -.3826 TC3 .0180 BAU .1045
ROE 5.5018 RRA .6878 RC3 .0753 FAU .00252
FOE-3.3914 FRA -.1619 FC3 -.0216 BSP 12226
BOE 7.2044 BRA .7871 BC3 .0774 FSP -479

MID-COURSE EXECUTION ACCURACY
SGT 2675.3 SGR 3202.9 SG3 167.6
RRT .9460 RRF -.9924 RTF -.9786
SGB 4173.3 R23 -.0115 R13 -.9999
SG1 4118.4 SG2 674.3 THA 50.41

ORBIT DETERMINATION ACCURACY
ST 2654.2 SR 3142.8 SS 1827.4
CRT .9951 CRS .9993 CST .9981
LSA 4496.7 MSA 201.7 SSA .7
EL1 4108.7 EL2 201.6 ALF 49.84

LAUNCH DATE MAY 25 1967 FLIGHT TIME 152.00 ARRIVAL DATE OCT 24 1967

HELIOCENTRIC CONIC DISTANCE 412.024
RL 151.51 LAL .00 LOL 243.12 VL 27.006 GAL 1.39 AZL 41.58 HCA 180.99 SMA 129.79 ECC .16908 INC48.4127 V1 29.406
RP 107.92 LAP -.74 LOP 63.78 VP 37.906 GAP -.85 AZP 138.42 TAL 173.14 TAP 354.13 RCA 107.84 APO 151.73 V2 35.113
RC 84.440 GL 60.36 GP -68.64 ZAL 89.16 ZAP 89.39 ETS 175.73 ZAE 73.48 ETE 74.44 ZAC 95.11 ETC 150.64 CLP 88.32
PLANETOCENTRIC CONIC
C3 539.863 VHL 23.235 DLA 61.78 RAL 198.85 RAD 6572.4 VEL 25.713 PTH 3.36 VHP 31.951 DPA -69.19 RAP 41.13 ECC 9.8848

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
32.49	21 33 43	5011.37	-1.86	240.71	107.86	28.23	22 57 14	4411.4	-8.90	237.31
147.51	7 21 30	3324.36	-1.85	101.38	107.84	28.23	8 16 54	2724.4	-8.89	97.98
32.49	21 33 43	5011.37	-1.86	240.71	107.86	28.23	22 57 14	4411.4	-8.90	237.31
147.51	7 21 30	3324.36	-1.85	101.38	107.84	28.23	8 16 54	2724.4	-8.89	97.98
32.49	21 33 43	5011.37	-1.86	240.71	107.86	28.23	22 57 14	4411.4	-8.90	237.31
147.51	7 21 30	3324.36	-1.85	101.38	107.84	28.23	8 16 54	2724.4	-8.89	97.98

DIFFERENTIAL CORRECTIONS
TOE-3.6565 TRA-2.3453 TC3 -.1210 BAU 2.0991
ROE-3.0555 RRA-7.2251 RC3 -.2645 FAU-.03534
FOE .6833 FRA 1.5378 FC3 .0567 BSP 4721
BOE 4.7651 BRA 7.5963 BC3 .2908 FSP -86

MID-COURSE EXECUTION ACCURACY
SGT 1620.2 SGR 4034.4 SG3 74.4
RRT .9147 RRF-1.0000 RTF -.9185
SGB 4347.6 R23 -.0442 R13 -.9990
SG1 4304.0 SG2 613.7 THA 69.39

ORBIT DETERMINATION ACCURACY
ST 973.6 SR 1359.0 SS 811.2
CRT .8274 CRS .9997 CST .8401
LSA 1795.7 MSA 477.9 SSA .3
EL1 1606.5 EL2 462.5 ALF 56.16

LAUNCH DATE MAY 25 1967 FLIGHT TIME 154.00 ARRIVAL DATE OCT 26 1967

HELIOCENTRIC CONIC DISTANCE 418.068
RL 151.51 LAL .00 LOL 243.12 VL 27.009 GAL 1.49 AZL 81.85 HCA 183.91 SMA 129.81 ECC .16912 INC 8.1461 V1 29.406
RP 107.89 LAP -.55 LOP 66.99 VP 37.920 GAP -.50 AZP 98.13 TAL 172.65 TAP 356.56 RCA 107.86 APO 151.77 V2 35.125
RC 86.655 GL 54.75 GP -74.88 ZAL 85.26 ZAP 89.15 ETS 4.28 ZAE 109.12 ETE 264.89 ZAC 107.66 ETC 350.21 CLP -86.76
PLANETOCENTRIC CONIC
C3 21.957 VHL 4.686 DLA 55.35 RAL 195.87 RAD 6567.9 VEL 11.972 PTH 2.13 VHP 7.816 DPA -56.06 RAP 122.57 ECC 1.3614

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
40.23	21 42 2	4363.47	-34.55	210.95	77.47	43.65	22 54 45	3763.5	-40.13	204.15
139.77	6 49 28	2754.13	-34.54	81.41	77.46	43.64	7 35 22	2154.1	-40.12	74.61
40.23	21 42 2	4363.47	-34.55	210.95	77.47	43.65	22 54 45	3763.5	-40.13	204.15
139.77	6 49 28	2754.13	-34.54	81.41	77.46	43.64	7 35 22	2154.1	-40.12	74.61
40.23	21 42 2	4363.47	-34.55	210.95	77.47	43.65	22 54 45	3763.5	-40.13	204.15
139.77	6 49 28	2754.13	-34.54	81.41	77.46	43.64	7 35 22	2154.1	-40.12	74.61

DIFFERENTIAL CORRECTIONS
TOE .6181 TRA .3959 TC3 -.4916 BAU .4945
ROE .6751 RRA 1.7884 RC3-1.6114 FAU .03090
FOE .4644 FRA 1.3014 FC3-1.2185 BSP 13019
BOE .9153 BRA 1.8317 BC3 1.6848 FSP -817

MID-COURSE EXECUTION ACCURACY
SGT 1228.3 SGR 4213.8 SG3 265.8
RRT .8878 RRF .9999 RTF .8837
SGB 4389.2 R23 .0415 R13 .9990
SG1 4354.9 SG2 547.0 THA 75.25

ORBIT DETERMINATION ACCURACY
ST 797.9 SR 1419.5 SS 684.9
CRT .8116 CRS -.9997 CST -.7960
LSA 1712.9 MSA 432.2 SSA 1.0
EL1 1573.1 EL2 420.6 ALF 63.43

LAUNCH DATE MAY 25 1967 FLIGHT TIME 156.00 ARRIVAL DATE OCT 28 1967

HELIOCENTRIC CONIC DISTANCE 424.391
RL 151.51 LAL .00 LOL 243.12 VL 27.010 GAL 1.55 AZL 87.05 HCA 187.10 SMA 129.82 ECC .16922 INC 2.9539 V1 29.406
RP 107.85 LAP -.37 LOP 70.21 VP 37.931 GAP -.08 AZP 92.93 TAL 172.37 TAP 359.47 RCA 107.85 APO 151.79 V2 35.137
RC 88.880 GL 29.35 GP -58.34 ZAL 81.62 ZAP 91.84 ETS 358.01 ZAE 124.80 ETE 257.34 ZAC 111.85 ETC 352.60 CLP -93.50
PLANETOCENTRIC CONIC
C3 8.062 VHL 2.839 DLA 33.54 RAL 177.10 RAD 6567.3 VEL 11.378 PTH 1.97 VHP 4.895 DPA -41.62 RAP 135.17 ECC 1.1327

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
71.22	22 36 50	3795.57	-28.04	155.76	33.65	70.80	23 40 5	3195.6	-30.40	147.42
108.78	3 24 53	2889.62	-28.03	88.32	33.65	70.78	4 13 2	2289.6	-30.39	79.98
71.22	22 36 50	3795.57	-28.04	155.76	33.65	70.80	23 40 5	3195.6	-30.40	147.42
108.78	3 24 53	2889.62	-28.03	88.32	33.65	70.78	4 13 2	2289.6	-30.39	79.98
110.00	4 22 29	2713.28	-31.57	75.83	34.86	76.16	5 7 42	2113.3	-33.15	66.96
110.00	2 42 20	3019.91	-24.62	96.91	32.12	65.50	3 32 40	2419.9	-27.71	89.11

DIFFERENTIAL CORRECTIONS
TOE .2935 TRA .3123 TC3-2.1410 BAU .5288
ROE .2519 RRA 1.0970 RC3-4.4148 FAU .07693
FOE .4032 FRA 1.9926 FC3-8.2613 BSP 12268
BOE .3868 BRA 1.1406 BC3 4.9065 FSP -1856

MID-COURSE EXECUTION ACCURACY
SGT 1549.5 SGR 3687.5 SG3 585.6
RRT .9377 RRF .9997 RTF .9363
SGB 3999.8 R23 .0537 R13 .9983
SG1 3968.4 SG2 500.4 THA 68.13

ORBIT DETERMINATION ACCURACY
ST 635.3 SR 948.1 SS 704.7
CRT .8045 CRS -.9984 CST -.7702
LSA 1293.5 MSA 355.1 SSA 2.6
EL1 1093.4 EL2 327.2 ALF 58.53

LAUNCH DATE MAY 25 1967 FLIGHT TIME 158.00 ARRIVAL DATE OCT 30 1967

HELIOCENTRIC CONIC DISTANCE 430.720

```
RL  151.51 LAL    .00 LOL 243.12 VL  27.008 GAL   1.61 AZL  89.02 HCA 190.32 SMA 129.81 ECC .16951 INC  .9743 V1  29.406
RP  107.82 LAP   -.17 LOP  73.43 VP  37.940 GAP    .34 AZP  90.96 TAL 172.06 TAP   2.37 RCA 107.80 APO 151.81 V2  35.149
RC  91.113 GL   10.63 GP  -46.65 ZAL  79.73 ZAP  96.22 ETS 354.34 ZAE 134.92 ETE 249.04 ZAC 114.69 ETC 355.64 CLP -99.08
```

PLANETOCENTRIC CONIC

```
C3   6.221 VHL  2.494 DLA  16.25 RAL 169.09 RAD 6567.2 VEL 11.297 PTH   1.94 VHP  3.957 DPA -30.49 RAP 139.94 ECC 1.1024
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 19 17	2505.65	-25.40	60.79	18.15	102.95	5 1 3	1905.7	-23.37	52.71
90.00	20 38 32	4087.82	-3.58	165.72	15.17	61.89	21 46 40	3487.8	-7.31	159.03
100.00	5 49 44	2214.00	-26.30	39.09	17.91	104.75	6 26 38	1614.0	-24.01	31.04
100.00	21 50 47	3854.70	-2.77	148.13	14.73	60.22	22 55 2	3254.7	-6.71	141.57
110.00	7 18 7	1937.43	-28.61	17.28	17.10	109.56	7 50 25	1337.4	-25.67	9.34
110.00	22 38 53	3704.04	-.72	135.43	13.45	55.82	23 40 37	3104.0	-5.20	129.20

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE  .0535 TRA  .3159 TC3-3.5054 BAU  .5026   SGT 1909.0 SGR 3124.9 SG3  865.3     ST   263.2 SR   615.0 SS   699.1
 RDE -.0874 RRA  .8033 RC3-4.9227 FAU .11436   RRT  .9593 RRF  .9995 RTF  .9588     CRT  .6795 CRS -.9911 CST -.5767
 FDE -.4001 FRA 2.5229 FC-15.9145 BSP  11214   SGB 3661.8 R23  .0761 R13  .9966     LSA  944.2 MSA  211.6 SSA    8.0
 BDE  .1025 BRA  .8632 BC3 6.0432 FSP  -2754   SG1 3632.3 SG2  464.0 THA  59.07     EL1  642.9 EL2  184.7 ALF  72.28
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 1 1967

HELIOCENTRIC CONIC DISTANCE 437.038

```
RL  151.51 LAL    .00 LOL 243.12 VL  27.004 GAL   1.69 AZL  90.07 HCA 193.54 SMA 129.78 ECC .16999 INC  .0581 V1  29.406
RP  107.78 LAP    .02 LOP  76.66 VP  37.948 GAP    .76 AZP  89.93 TAL 171.70 TAP   5.24 RCA 107.72 APO 151.84 V2  35.160
RC  93.352 GL    -.76 GP  -38.09 ZAL  78.73 ZAP 101.26 ETS 352.02 ZAE 141.06 ETE 239.38 ZAC 116.81 ETC 358.35 CLP-104.37
```

PLANETOCENTRIC CONIC

```
C3   6.051 VHL  2.460 DLA   5.44 RAL 165.33 RAD 6567.2 VEL 11.289 PTH   1.94 VHP  3.569 DPA -22.00 RAP 142.03 ECC 1.0996
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 34 16	2139.47	-17.68	36.78	11.41	112.49	6 9 55	1539.5	-14.48	29.57
90.00	18 53 32	4444.69	7.85	185.72	10.34	62.71	20 7 37	3844.7	4.13	179.01
100.00	6 58 10	1868.82	-18.38	16.56	11.09	114.00	7 29 19	1268.8	-14.98	9.42
100.00	20 12 19	4190.57	8.52	166.67	9.98	61.24	21 22 9	3590.8	4.62	160.06
110.00	8 12 18	1636.81	-20.23	357.98	10.13	118.16	8 39 35	1036.8	-16.31	351.06
110.00	21 14 40	3995.35	10.30	150.78	8.91	57.22	22 21 15	3395.3	5.91	144.44

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE -.1454 TRA  .3491 TC3-4.2970 BAU  .4895   SGT 2291.4 SGR 2619.9 SG3 1052.5     ST   422.7 SR   713.1 SS  1129.2
 RDE -.2390 RRA  .6283 RC3-4.2601 FAU .13853   RRT  .9694 RRF  .9991 RTF  .9696     CRT  .9971 CRS -.9956 CST -.9963
 FDE-1.3138 FRA 2.8332 FC-19.8215 BSP  10652   SGB 3480.6 R23  .1027 R13  .9938     LSA 1399.3 MSA   58.0 SSA   25.8
 BDE  .2797 BRA  .7188 BC3 6.0509 FSP  -3378   SG1 3454.3 SG2  426.4 THA  48.95     EL1  828.5 EL2   27.6 ALF  59.37
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 3 1967

HELIOCENTRIC CONIC DISTANCE 443.339

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.998 GAL   1.78 AZL  90.72 HCA 196.76 SMA 129.73 ECC .17065 INC  .7184 V1  29.406
RP  107.75 LAP    .21 LOP  79.88 VP  37.953 GAP   1.17 AZP  89.31 TAL 171.30 TAP   8.07 RCA 107.59 APO 151.87 V2  35.170
RC  95.596 GL   -7.78 GP  -31.67 ZAL  77.94 ZAP 106.42 ETS 350.58 ZAE 144.21 ETE 229.28 ZAC 118.45 ETC    .72 CLP-109.40
```

PLANETOCENTRIC CONIC

```
C3   6.254 VHL  2.501 DLA  -1.39 RAL 163.46 RAD 6567.2 VEL 11.298 PTH   1.94 VHP  3.404 DPA -15.47 RAP 142.98 ECC 1.1029
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 17 41	1932.69	-11.88	24.37	9.02	115.89	6 49 54	1332.7	-8.30	17.52
90.00	17 55 12	4662.55	14.38	198.39	9.30	65.34	19 12 54	4062.5	10.93	191.40
100.00	7 38 23	1672.38	-12.56	4.88	8.67	117.35	8 6 15	1072.4	-8.80	358.11
100.00	19 17 11	4398.09	15.06	178.61	8.96	63.87	20 30 29	3798.1	11.43	171.70
110.00	8 45 9	1463.38	-14.35	347.98	7.63	121.36	9 9 32	863.4	-10.10	341.46
110.00	20 26 54	4179.86	16.88	161.03	7.95	59.82	21 36 34	3579.9	12.74	154.36

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE -.3229 TRA  .3975 TC3-4.7837 BAU  .4933   SGT 2664.9 SGR 2192.0 SG3 1153.3     ST   791.9 SR   752.5 SS  1522.8
 RDE -.2892 RRA  .5132 RC3-3.4530 FAU .15058   RRT  .9747 RRF  .9983 RTF  .9754     CRT  .9907 CRS -.9968 CST -.9980
 FDE-2.0692 FRA 2.9911 FC-20.8460 BSP  10519   SGB 3450.6 R23  .1236 R13  .9907     LSA 1872.5 MSA   74.7 SSA   18.8
 BDE  .4335 BRA  .6491 BC3 5.8997 FSP  -3712   SG1 3429.5 SG2  380.8 THA  39.30     EL1 1089.9 EL2   74.5 ALF  43.53
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 5 1967

HELIOCENTRIC CONIC DISTANCE 449.623

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.989 GAL   1.88 AZL  91.16 HCA 199.99 SMA 129.67 ECC .17149 INC 1.1641 V1  29.406
RP  107.72 LAP    .40 LOP  83.11 VP  37.956 GAP   1.58 AZP  88.91 TAL 170.85 TAP  10.84 RCA 107.44 APO 151.91 V2  35.180
RC  97.843 GL  -12.36 GP  -26.73 ZAL  77.13 ZAP 111.42 ETS 349.71 ZAE 145.27 ETE 219.91 ZAC 119.71 ETC   2.79 CLP-114.14
```

PLANETOCENTRIC CONIC

```
C3   6.557 VHL  2.561 DLA  -5.99 RAL 162.60 RAD 6567.2 VEL 11.311 PTH   1.94 VHP  3.352 DPA -10.38 RAP 143.42 ECC 1.1079
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 48 45	1797.14	-7.74	16.56	8.43	117.32	7 18 42	1197.1	-4.02	9.86
90.00	17 17 16	4814.24	18.47	207.65	9.68	68.15	18 37 30	4214.2	15.34	200.37
100.00	8 7 15	1543.89	-8.44	357.57	8.06	118.78	8 32 59	943.9	-4.53	350.96
100.00	18 41 27	4542.73	19.19	187.36	9.36	66.63	19 57 9	3942.7	15.87	180.14
110.00	9 9 0	1350.57	-10.27	341.79	6.95	122.78	9 31 31	750.6	-5.88	335.45
110.00	19 56 11	4308.82	21.12	168.62	8.38	62.48	21 8 0	3708.8	17.27	161.61

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE -.4872 TRA  .4556 TC3-5.1187 BAU  .5102   SGT 3018.4 SGR 1839.4 SG3 1189.5     ST  1135.3 SR   713.4 SS  1795.4
 RDE -.2902 RRA  .4334 RC3-2.7691 FAU .15382   RRT  .9771 RRF  .9969 RTF  .9788     CRT  .9890 CRS -.9965 CST -.9977
 FDE-2.6091 FRA 3.0565 FC-20.3080 BSP  10755   SGB 3534.7 R23  .1336 R13  .9882     LSA 2238.8 MSA   93.1 SSA   15.4
 BDE  .5670 BRA  .6288 BC3 5.8197 FSP  -3830   SG1 3518.7 SG2  335.9 THA  31.09     EL1 1337.8 EL2   89.5 ALF  32.02
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 7 1967

DISTANCE 455.889

HELIOCENTRIC CONIC
RL 151.51 LAL .00 LOL 243.12 VL 26.979 GAL 1.99 AZL 91.49 HCA 203.23 SMA 129.60 ECC .17251 INC 1.4896 VI 29.406
RP 107.69 LAP .59 LOP 86.34 VP 37.958 GAP 1.99 AZP 88.63 TAL 170.35 TAP 13.58 RCA 107.25 APO 151.96 V2 35.190
RC 100.092 GL -15.49 GP -22.86 ZAL 76.25 ZAP 116.16 ETS 349.20 ZAE 144.98 ETE 211.98 ZAC 120.63 ETC 4.61 CLP-118.58

PLANETOCENTRIC CONIC
C3 6.890 VHL 2.625 DLA -9.29 RAL 162.35 RAD 6567.2 VEL 11.326 PTH 1.95 VHP 3.365 DPA -6.36 RAP 143.65 ECC 1.1134

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 13 29	1700.15	-4.68	11.08	8.75	117.96	7 41 49	1100.2	-.90	4.44
90.00	16 50 35	4928.40	21.20	214.90	10.73	70.77	18 12 44	4328.4	18.38	207.36
100.00	8 30 16	1452.40	-5.40	352.47	8.35	119.44	8 54 29	852.4	-1.44	345.92
100.00	18 16 29	4651.38	21.98	194.23	10.42	69.21	19 34 0	4051.4	18.95	186.74
110.00	9 28 10	1271.11	-7.31	337.54	7.17	123.49	9 49 21	671.1	-2.86	331.28
110.00	19 35 4	4405.44	24.04	174.60	9.48	64.93	20 48 30	3805.4	20.46	167.29

DIFFERENTIAL CORRECTIONS
TDE -.6427 TRA .5196 TC3-5.3665 BAU .5357
RDE -.2703 RRA .3744 RC3-2.2410 FAU .15174
FDE-2.9727 FRA 3.0531 FC-19.0664 BSP 11271
BDE .6973 BRA .6404 BC3 5.8157 FSP -3827

MID-COURSE EXECUTION ACCURACY
SGT 3350.5 SGR 1555.0 SG3 1184.3
RRT .9777 RRF .9944 RTF .9812
SGB 3693.8 R23 .1310 R13 .9867
SG1 3681.8 SG2 297.1 THA 24.58

ORBIT DETERMINATION ACCURACY
ST 1447.2 SR 641.2 SS 1978.1
CRT .9876 CRS -.9954 CST -.9980
LSA 2531.3 MSA 102.5 SSA 14.6
EL1 1580.2 EL2 92.0 ALF 23.72

LAUNCH DATE MAY 25 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 9 1967

DISTANCE 462.135

HELIOCENTRIC CONIC
RL 151.51 LAL .00 LOL 243.12 VL 26.966 GAL 2.12 AZL 91.74 HCA 206.46 SMA 129.52 ECC .17369 INC 1.7396 VI 29.406
RP 107.66 LAP .78 LOP 89.57 VP 37.958 GAP 2.39 AZP 88.44 TAL 169.81 TAP 16.27 RCA 107.02 APO 152.01 V2 35.199
RC 102.344 GL -17.71 GP -19.76 ZAL 75.28 ZAP 120.57 ETS 348.93 ZAE 143.92 ETE 205.68 ZAC 121.24 ETC 6.20 CLP-122.72

PLANETOCENTRIC CONIC
C3 7.233 VHL 2.689 DLA -11.78 RAL 162.53 RAD 6567.2 VEL 11.341 PTH 1.95 VHP 3.420 DPA -3.16 RAP 143.84 ECC 1.1190

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 34 32	1626.45	-2.31	6.96	9.59	118.23	8 1 38	1026.4	1.48	.33
90.00	16 30 55	5019.28	23.12	220.88	12.15	73.17	17 54 35	4419.3	20.59	213.11
100.00	8 49 54	1383.30	-3.08	348.66	9.17	119.75	9 12 57	783.3	.90	342.13
100.00	17 58 15	4737.66	23.95	199.87	11.86	71.56	19 17 12	4137.7	21.21	192.15
110.00	9 44 37	1211.91	-5.08	334.41	7.93	123.85	10 4 49	611.9	-.60	328.19
110.00	19 20 0	4481.82	26.15	179.53	10.95	67.16	20 34 42	3881.8	22.83	171.95

DIFFERENTIAL CORRECTIONS
TDE -.7904 TRA .5887 TC3-5.5511 BAU .5654
RDE -.2406 RRA .3304 RC3-1.8363 FAU .14625
FDE-3.1868 FRA 3.0130 FC-17.5052 BSP 11908
BDE .8262 BRA .6751 BC3 5.8469 FSP -3727

MID-COURSE EXECUTION ACCURACY
SGT 3659.5 SGR 1324.9 SG3 1151.9
RRT .9763 RRF .9905 RTF .9827
SGB 3892.0 R23 .1189 R13 .9860
SG1 3882.6 SG2 270.4 THA 19.57

ORBIT DETERMINATION ACCURACY
ST 1729.5 SR 556.9 SS 2090.2
CRT .9850 CRS -.9932 CST -.9983
LSA 2767.4 MSA 108.2 SSA 14.6
EL1 1814.6 EL2 91.7 ALF 17.64

LAUNCH DATE MAY 25 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 11 1967

DISTANCE 468.362

HELIOCENTRIC CONIC
RL 151.51 LAL .00 LOL 243.12 VL 26.952 GAL 2.26 AZL 91.94 HCA 209.70 SMA 129.42 ECC .17506 INC 1.9389 VI 29.406
RP 107.63 LAP .96 LOP 92.80 VP 37.956 GAP 2.79 AZP 88.32 TAL 169.23 TAP 18.92 RCA 106.77 APO 152.08 V2 35.208
RC 104.596 GL -19.32 GP -17.26 ZAL 74.21 ZAP 124.66 ETS 348.80 ZAE 142.46 ETE 200.81 ZAC 121.56 ETC 7.59 CLP-126.55

PLANETOCENTRIC CONIC
C3 7.585 VHL 2.754 DLA -13.74 RAL 163.01 RAD 6567.2 VEL 11.357 PTH 1.96 VHP 3.505 DPA -.60 RAP 144.08 ECC 1.1248

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 53 17	1567.98	-.43	3.70	10.79	118.31	8 19 25	968.0	3.36	357.06
90.00	16 16 0	5094.83	24.51	225.97	13.82	75.36	17 40 55	4494.8	22.26	218.02
100.00	9 7 24	1328.88	-1.24	345.67	10.34	119.87	9 29 33	728.9	2.75	339.15
100.00	17 44 35	4809.15	25.41	204.69	13.55	73.70	19 4 44	4209.2	22.93	196.77
110.00	9 59 24	1166.01	-3.33	332.00	9.03	124.04	10 18 50	566.0	1.16	325.80
110.00	19 9 4	4544.79	27.75	183.73	12.67	69.18	20 24 49	3944.8	24.66	175.92

DIFFERENTIAL CORRECTIONS
TDE -.9317 TRA .6623 TC3-5.6825 BAU .5966
RDE -.2077 RRA .2971 RC3-1.5239 FAU .13867
FDE-3.2916 FRA 2.9520 FC-15.8283 BSP 12634
BDE .9546 BRA .7259 BC3 5.8833 FSP -3583

MID-COURSE EXECUTION ACCURACY
SGT 3945.4 SGR 1138.5 SG3 1102.7
RRT .9723 RRF .9842 RTF .9837
SGB 4106.4 R23 .1014 R13 .9856
SG1 4098.4 SG2 256.2 THA 15.74

ORBIT DETERMINATION ACCURACY
ST 1986.8 SR 473.1 SS 2153.3
CRT .9801 CRS -.9893 CST -.9985
LSA 2965.7 MSA 112.0 SSA 14.9
EL1 2040.3 EL2 91.4 ALF 13.16

LAUNCH DATE MAY 25 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 13 1967

DISTANCE 474.570

HELIOCENTRIC CONIC
RL 151.51 LAL .00 LOL 243.12 VL 26.937 GAL 2.42 AZL 92.10 HCA 212.94 SMA 129.32 ECC .17659 INC 2.1021 VI 29.406
RP 107.61 LAP 1.14 LOP 96.04 VP 37.952 GAP 3.19 AZP 88.24 TAL 168.60 TAP 21.53 RCA 106.48 APO 152.15 V2 35.216
RC 106.849 GL -20.50 GP -15.20 ZAL 73.07 ZAP 128.44 ETS 348.75 ZAE 140.85 ETE 197.10 ZAC 121.61 ETC 8.78 CLP-130.11

PLANETOCENTRIC CONIC
C3 7.948 VHL 2.819 DLA -15.34 RAL 163.73 RAD 6567.3 VEL 11.373 PTH 1.96 VHP 3.612 DPA 1.45 RAP 144.43 ECC 1.1308

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 10 32	1520.13	1.12	1.03	12.25	118.30	8 35 53	920.1	4.89	354.38
90.00	16 4 28	5159.77	25.55	230.44	15.67	77.37	17 30 28	4559.8	23.56	222.34
100.00	9 23 30	1284.71	.26	343.24	11.77	119.89	9 44 55	684.7	4.24	336.71
100.00	17 34 11	4870.42	26.51	208.91	15.42	75.65	18 55 22	4270.4	24.28	200.82
110.00	10 13 5	1129.41	-1.94	330.09	10.40	124.13	10 31 54	529.4	2.56	323.89
110.00	19 1 6	4598.49	28.99	187.42	14.58	71.04	20 17 44	3998.5	26.13	179.40

DIFFERENTIAL CORRECTIONS
TDE-1.0660 TRA .7422 TC3-5.7609 BAU .6270
RDE -.1742 RRA .2720 RC3-1.2802 FAU .12992
FDE-3.3142 FRA 2.8843 FC-14.1519 BSP 13338
BDE 1.0801 BRA .7904 BC3 5.9015 FSP -3398

MID-COURSE EXECUTION ACCURACY
SGT 4206.0 SGR 987.4 SG3 1043.9
RRT .9651 RRF .9747 RTF .9842
SGB 4320.3 R23 .0817 R13 .9854
SG1 4313.0 SG2 252.0 THA 12.81

ORBIT DETERMINATION ACCURACY
ST 2218.8 SR 394.2 SS 2179.1
CRT .9716 CRS -.9823 CST -.9987
LSA 3132.6 MSA 114.9 SSA 15.3
EL1 2251.7 EL2 91.9 ALF 9.81

LAUNCH DATE MAY 25 1967 FLIGHT TIME 174.00 ARRIVAL DATE NOV 15 1967

HELIOCENTRIC CONIC DISTANCE 480.757

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.920 GAL   2.59 AZL  92.24 HCA 216.18 SMA 129.20 ECC .17830 INC 2.2392 VI  29.406
RP  107.59 LAP   1.32 LOP  99.27 VP  37.947 GAP   3.58 AZP  88.19 TAL 167.93 TAP  24.10 RCA 106.17 APO 152.24 V2  35.223
RC 109.101 GL  -21.36 GP  -13.50 ZAL  71.84 ZAP 131.93 ETS 348.76 ZAE 139.22 ETE 194.26 ZAC 121.43 ETC   9.81 CLP-133.41
```

PLANETOCENTRIC CONIC

```
C3   8.327 VHL  2.886 DLA -16.67 RAL 164.63 RAD 6567.3 VEL 11.389 PTH   1.97 VHP  3.737 DPA   3.08 RAP 144.91 ECC 1.1370
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 26 45	1480.10	2.41	358.79	13.91	118.22	8 51 26	880.1	6.16	352.13
90.00	15 55 29	5217.12	26.35	234.46	17.67	79.23	17 22 26	4617.1	24.59	226.23
100.00	9 38 39	1248.11	1.50	341.24	13.41	119.86	9 59 27	648.1	5.46	334.69
100.00	17 26 16	4924.34	27.36	212.69	17.44	77.47	18 48 21	4324.3	25.36	204.46
110.00	10 26 2	1099.68	-.80	328.54	11.97	124.17	10 44 22	499.7	3.69	322.33
110.00	18 55 23	4645.53	29.99	190.72	16.64	72.76	20 12 48	4045.5	27.34	182.53

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.1934 TRA  .8293 TC3-5.7889 BAU  .6557   SGT 4441.9 SGR  864.9 SG3  980.6     ST  2427.1 SR   322.8 SS  2177.0
RDE -.1416 RRA  .2532 RC3-1.0870 FAU .12053   RRT  .9538 RRF  .9611 RTF  .9844     CRT  .9564 CRS -.9693 CST -.9988
FDE-3.2776 FRA 2.8196 FC-12.5313 BSP  13999   SGB 4525.4 R23  .0634 R13  .9851     LSA 3274.2 MSA  117.7 SSA   15.8
BDE 1.2018 BRA  .8671 BC3 5.8901 FSP  -3193   SG1 4518.1 SG2  255.6 THA  10.55     EL1 2446.7 EL2   93.5 ALF   7.26
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 176.00 ARRIVAL DATE NOV 17 1967

HELIOCENTRIC CONIC DISTANCE 486.924

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.902 GAL   2.77 AZL  92.36 HCA 219.42 SMA 129.08 ECC .18018 INC 2.3567 VI  29.406
RP  107.57 LAP   1.50 LOP 102.51 VP  37.940 GAP   3.98 AZP  88.18 TAL 167.22 TAP  26.64 RCA 105.82 APO 152.34 V2  35.230
RC 111.351 GL  -21.96 GP  -12.07 ZAL  70.54 ZAP 135.14 ETS 348.78 ZAE 137.64 ETE 192.08 ZAC 121.02 ETC  10.67 CLP-136.46
```

PLANETOCENTRIC CONIC

```
C3   8.727 VHL  2.954 DLA -17.80 RAL 165.70 RAD 6567.3 VEL 11.407 PTH   1.97 VHP  3.875 DPA   4.38 RAP 145.53 ECC 1.1436
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 42 14	1446.13	3.50	356.90	15.75	118.12	9 6 20	846.1	7.24	350.21
90.00	15 48 30	5268.83	26.95	238.12	19.80	80.97	17 16 19	4668.8	25.43	229.78
100.00	9 53 7	1217.38	2.54	339.55	15.22	119.79	10 13 24	617.4	6.49	332.98
100.00	17 20 17	4972.82	28.03	216.13	19.59	79.17	18 43 10	4372.8	26.25	207.78
110.00	10 38 28	1075.32	.13	327.27	13.71	124.18	10 56 23	475.3	4.62	321.05
110.00	18 51 26	4687.65	30.80	193.73	18.84	74.38	20 9 34	4087.6	28.35	185.39

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.3178 TRA  .9203 TC3-5.7894 BAU  .6842   SGT 4663.3 SGR  767.2 SG3  918.2     ST  2618.9 SR   260.9 SS  2160.7
RDE -.1112 RRA  .2384 RC3 -.9366 FAU .11160   RRT  .9376 RRF  .9423 RTF  .9845     CRT  .9295 CRS -.9454 CST -.9989
FDE-3.2114 FRA 2.7488 FC-11.0712 BSP  14676   SGB 4726.0 R23  .0467 R13  .9850     LSA 3403.1 MSA  120.0 SSA   16.2
BDE 1.3224 BRA  .9507 BC3 5.8646 FSP  -2999   SG1 4718.6 SG2  263.6 THA   8.80     EL1 2630.2 EL2   95.8 ALF   5.30
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 178.00 ARRIVAL DATE NOV 19 1967

HELIOCENTRIC CONIC DISTANCE 493.069

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.882 GAL   2.97 AZL  92.46 HCA 222.66 SMA 128.95 ECC .18224 INC 2.4591 VI  29.406
RP  107.55 LAP   1.67 LOP 105.75 VP  37.932 GAP   4.38 AZP  88.19 TAL 166.48 TAP  29.13 RCA 105.45 APO 152.45 V2  35.236
RC 113.598 GL  -22.38 GP  -10.86 ZAL  69.18 ZAP 138.12 ETS 348.81 ZAE 136.16 ETE 190.39 ZAC 120.42 ETC  11.39 CLP-139.30
```

PLANETOCENTRIC CONIC

```
C3   9.154 VHL  3.026 DLA -18.77 RAL 166.89 RAD 6567.3 VEL 11.426 PTH   1.98 VHP  4.025 DPA   5.40 RAP 146.29 ECC 1.1507
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 57 8	1417.08	4.43	355.27	17.73	118.00	9 20 45	817.1	8.14	348.55
90.00	15 43 7	5316.26	27.41	241.52	22.05	82.61	17 11 43	4716.3	26.11	233.09
100.00	10 7 4	1191.43	3.42	338.12	17.17	119.71	10 26 55	591.4	7.35	331.54
100.00	17 15 53	5017.14	28.56	219.32	21.86	80.77	18 39 30	4417.1	26.99	210.87
110.00	10 50 30	1055.32	.90	326.23	15.60	124.17	11 8 5	455.3	5.38	320.00
110.00	18 48 56	4726.02	31.47	196.52	21.16	75.90	20 7 42	4126.0	29.21	188.04

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.4373 TRA 1.0181 TC3-5.7514 BAU  .7109   SGT 4864.9 SGR  688.6 SG3  856.9     ST  2791.5 SR   207.9 SS  2130.8
RDE -.0826 RRA  .2272 RC3 -.8151 FAU .10292   RRT  .9156 RRF  .9174 RTF  .9845     CRT  .8792 CRS -.8993 CST -.9990
FDE-3.1208 FRA 2.6809 FC3-9.7329 BSP  15314   SGB 4913.4 R23  .0325 R13  .9848     LSA 3515.8 MSA  122.2 SSA   16.6
BDE 1.4397 BRA 1.0431 BC3 5.8089 FSP  -2810   SG1 4905.7 SG2  274.5 THA   7.41     EL1 2797.5 EL2   98.9 ALF   3.75
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 180.00 ARRIVAL DATE NOV 21 1967

HELIOCENTRIC CONIC DISTANCE 499.192

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.862 GAL   3.18 AZL  92.55 HCA 225.90 SMA 128.81 ECC .18449 INC 2.5496 VI  29.406
RP  107.53 LAP   1.83 LOP 108.99 VP  37.923 GAP   4.78 AZP  88.23 TAL 165.70 TAP  31.60 RCA 105.05 APO 152.58 V2  35.241
RC 115.842 GL  -22.63 GP   -9.84 ZAL  67.77 ZAP 140.87 ETS 348.82 ZAE 134.78 ETE 189.06 ZAC 119.64 ETC  11.98 CLP-141.93
```

PLANETOCENTRIC CONIC

```
C3   9.615 VHL  3.101 DLA -19.62 RAL 168.20 RAD 6567.3 VEL 11.446 PTH   1.99 VHP  4.185 DPA   6.18 RAP 147.19 ECC 1.1582
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 11 36	1392.17	5.23	353.87	19.85	117.87	9 34 48	792.2	8.92	347.13
90.00	15 39 5	5360.33	27.76	244.69	24.40	84.17	17 8 26	4760.3	26.66	236.20
100.00	10 20 35	1169.53	4.16	336.91	19.27	119.63	10 40 4	569.5	8.07	330.31
100.00	17 12 47	5058.20	28.97	222.30	24.24	82.28	18 37 5	4458.2	27.60	213.77
110.00	11 2 14	1039.02	1.52	325.38	17.62	124.15	11 19 33	439.0	5.99	319.14
110.00	18 47 37	4761.47	32.03	199.13	23.60	77.35	20 6 59	4161.5	29.95	190.53

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.5526 TRA 1.1234 TC3-5.6789 BAU  .7358   SGT 5048.8 SGR  625.8 SG3  798.2     ST  2946.0 SR   165.1 SS  2090.8
RDE -.0554 RRA  .2187 RC3 -.7156 FAU .09461   RRT  .8870 RRF  .8857 RTF  .9843     CRT  .7823 CRS -.8080 CST -.9990
FDE-3.0148 FRA 2.6193 FC3-8.5185 BSP  15900   SGB 5087.4 R23  .0210 R13  .9845     LSA 3614.1 MSA  124.8 SSA   16.9
BDE 1.5536 BRA 1.1445 BC3 5.7238 FSP  -2624   SG1 5079.3 SG2  287.2 THA   6.29     EL1 2948.8 EL2  102.7 ALF   2.51
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 182.00 ARRIVAL DATE NOV 23 1967

HELIOCENTRIC CONIC DISTANCE 505.293
RL 151.51 LAL .00 LOL 243.12 VL 26.840 GAL 3.40 AZL 92.63 HCA 229.15 SMA 128.67 ECC .18693 INC 2.6307 V1 29.406
RP 107.50 LAP 1.99 LOP 112.24 VP 37.912 GAP 5.18 AZP 88.28 TAL 164.89 TAP 34.03 RCA 104.62 APO 152.72 V2 35.246
RC 118.080 GL -22.75 GP -8.96 ZAL 66.30 ZAP 143.42 ETS 348.81 ZAE 133.52 ETE 188.01 ZAC 118.71 ETC 12.46 CLP-144.39
PLANETOCENTRIC CONIC
C3 10.115 VHL 3.180 DLA -20.37 RAL 169.60 RAD 6567.4 VEL 11.468 PTH 1.99 VHP 4.355 DPA 6.76 RAP 148.22 ECC 1.1665

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 25 39	1370.93	5.90	352.67	22.10	117.75	9 48 30	770.9	9.57	345.91
90.00	15 36 12	5401.68	28.01	247.69	26.85	85.65	17 6 14	4801.7	27.11	239.14
100.00	10 33 44	1151.21	4.77	335.90	21.48	119.54	10 52 56	551.2	8.67	329.29
100.00	17 10 48	5096.63	29.29	225.12	26.71	83.73	18 35 45	4496.6	28.11	216.51
110.00	11 13 42	1026.00	2.02	324.70	19.76	124.13	11 30 48	426.0	6.48	318.46
110.00	18 47 21	4794.60	32.49	201.60	26.14	78.75	20 7 15	4194.6	30.60	192.90

DIFFERENTIAL CORRECTIONS
TOE-1.6642 TRA 1.2365 TC3-5.5757 BAU .7588
ROE -.0297 RRA .2124 RC3 -.6328 FAU .08677
FOE-2.9003 FRA 2.5627 FC3-7.4266 BSP 16447
BOE 1.6644 BRA 1.2546 BC3 5.6115 FSP -2449

MID-COURSE EXECUTION ACCURACY
SGT 5216.6 SGR 575.8 SG3 742.6
RRT .8516 RRF .8469 RTF .9841
SGB 5248.3 R23 .0117 R13 .9841
SG1 5239.7 SG2 300.5 THA 5.39

ORBIT DETERMINATION ACCURACY
ST 3083.4 SR 134.2 SS 2043.6
CRT .6016 CRS -.6340 CST -.9991
LSA 3699.4 MSA 127.8 SSA 17.2
EL1 3084.5 EL2 107.2 ALF 1.50

LAUNCH DATE MAY 25 1967 FLIGHT TIME 184.00 ARRIVAL DATE NOV 25 1967

HELIOCENTRIC CONIC DISTANCE 511.371
RL 151.51 LAL .00 LOL 243.12 VL 26.818 GAL 3.65 AZL 92.70 HCA 232.39 SMA 128.52 ECC .18956 INC 2.7042 V1 29.406
RP 107.50 LAP 2.14 LOP 115.48 VP 37.899 GAP 5.58 AZP 88.35 TAL 164.04 TAP 36.44 RCA 104.15 APO 152.88 V2 35.250
RC 120.312 GL -22.75 GP -8.21 ZAL 64.80 ZAP 145.80 ETS 348.77 ZAE 132.37 ETE 187.17 ZAC 117.64 ETC 12.84 CLP-146.68
PLANETOCENTRIC CONIC
C3 10.681 VHL 3.265 DLA -21.02 RAL 171.08 RAD 6567.4 VEL 11.491 PTH .2.00 VHP 4.532 DPA 7.17 RAP 149.36 ECC 1.1754

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 39 21	1353.02	6.47	351.66	24.44	117.63	10 1 54	753.0	10.12	344.88
90.00	15 34 20	5440.78	28.18	250.54	29.39	87.07	17 5 1	4840.8	27.47	241.95
100.00	10 46 33	1136.15	5.28	335.07	23.79	119.47	11 5 29	536.1	9.16	328.44
100.00	17 9 49	5132.89	29.53	227.79	29.28	85.12	18 35 22	4532.9	28.54	219.12
110.00	11 24 54	1015.95	2.40	324.17	22.01	124.11	11 41 50	416.0	6.86	317.93
110.00	18 47 57	4825.85	32.88	203.96	28.78	80.09	20 8 23	4225.8	31.17	195.15

DIFFERENTIAL CORRECTIONS
TOE-1.7707 TRA 1.3601 TC3-5.4372 BAU .7791
ROE -.0049 RRA .2080 RC3 -.5619 FAU .07923
FOE-2.7785 FRA 2.5159 FC3-6.4345 BSP 16902
BOE 1.7707 BRA 1.3759 BC3 5.4662 FSP -2276

MID-COURSE EXECUTION ACCURACY
SGT 5366.5 SGR 536.3 SG3 690.1
RRT .8093 RRF .8014 RTF .9836
SGB 5393.3 R23 .0045 R13 .9837
SG1 5384.1 SG2 314.0 THA 4.64

ORBIT DETERMINATION ACCURACY
ST 3202.3 SR 118.1 SS 1989.2
CRT .3109 CRS -.3489 CST -.9991
LSA 3769.4 MSA 131.4 SSA 17.3
EL1 3202.6 EL2 112.3 ALF .66

LAUNCH DATE MAY 25 1967 FLIGHT TIME 186.00 ARRIVAL DATE NOV 27 1967

HELIOCENTRIC CONIC DISTANCE 517.423
RL 151.51 LAL .00 LOL 243.12 VL 26.795 GAL 3.91 AZL 92.77 HCA 235.64 SMA 128.36 ECC .19240 INC 2.7716 V1 29.406
RP 107.49 LAP 2.29 LOP 118.73 VP 37.886 GAP 5.99 AZP 88.43 TAL 163.17 TAP 38.81 RCA 103.66 APO 153.06 V2 35.253
RC 122.538 GL -22.66 GP -7.56 ZAL 63.26 ZAP 148.02 ETS 348.70 ZAE 131.33 ETE 186.48 ZAC 116.44 ETC 13.14 CLP-148.83
PLANETOCENTRIC CONIC
C3 11.260 VHL 3.356 DLA -21.60 RAL 172.63 RAD 6567.4 VEL 11.517 PTH 2.01 VHP 4.718 DPA 7.43 RAP 150.61 ECC 1.1853

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 52 41	1338.28	6.93	350.83	26.89	117.52	10 14 59	738.3	10.57	344.03
90.00	15 33 22	5477.93	28.28	253.25	32.02	88.43	17 4 39	4877.9	27.76	244.63
100.00	10 59 1	1124.16	5.68	334.41	26.21	119.40	11 17 46	524.2	9.55	327.76
100.00	17 9 42	5167.29	29.70	230.33	31.94	86.44	18 35 49	4567.3	28.89	221.62
110.00	11 35 52	1008.70	2.68	323.79	24.34	124.09	11 52 40	408.7	7.13	317.54
110.00	18 49 21	4855.51	33.21	206.21	31.50	81.39	20 10 17	4255.5	31.66	197.32

DIFFERENTIAL CORRECTIONS
TOE-1.8774 TRA 1.4897 TC3-5.2859 BAU .7993
ROE .0187 RRA .2045 RC3 -.5023 FAU .07253
FOE-2.6632 FRA 2.4690 FC3-5.5771 BSP 17385
BOE 1.8775 BRA 1.5037 BC3 5.3097 FSP -2126

MID-COURSE EXECUTION ACCURACY
SGT 5508.6 SGR 505.7 SG3 642.2
RRT .7614 RRF .7501 RTF .9833
SGB 5531.8 R23 -.0019 R13 .9833
SG1 5522.1 SG2 327.1 THA 4.01

ORBIT DETERMINATION ACCURACY
ST 3310.7 SR 117.6 SS 1935.6
CRT -.0230 CRS -.0161 CST -.9992
LSA 3834.4 MSA 134.8 SSA 17.4
EL1 3310.7 EL2 117.5 ALF 179.95

LAUNCH DATE MAY 25 1967 FLIGHT TIME 188.00 ARRIVAL DATE NOV 29 1967

HELIOCENTRIC CONIC DISTANCE 523.450
RL 151.51 LAL .00 LOL 243.12 VL 26.770 GAL 4.18 AZL 92.83 HCA 238.89 SMA 128.20 ECC .19547 INC 2.8340 V1 29.406
RP 107.49 LAP 2.43 LOP 121.97 VP 37.871 GAP 6.40 AZP 88.53 TAL 162.28 TAP 41.16 RCA 103.14 APO 153.26 V2 35.256
RC 124.755 GL -22.48 GP -6.99 ZAL 61.70 ZAP 150.10 ETS 348.58 ZAE 130.38 ETE 185.92 ZAC 115.13 ETC 13.36 CLP-150.85
PLANETOCENTRIC CONIC
C3 11.919 VHL 3.452 DLA -22.11 RAL 174.23 RAD 6567.5 VEL 11.546 PTH 2.02 VHP 4.912 DPA 7.56 RAP 151.96 ECC 1.1962

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 5 37	1326.59	7.30	350.16	29.42	117.44	10 27 44	726.6	10.92	343.35
90.00	15 33 13	5513.37	28.32	255.85	34.72	89.73	17 5 6	4913.4	27.98	247.20
100.00	11 11 8	1115.13	5.98	333.91	28.70	119.34	11 29 43	515.1	9.85	327.25
100.00	17 10 23	5200.07	29.81	232.76	34.68	87.72	18 37 3	4600.1	29.18	224.01
110.00	11 46 33	1004.12	2.85	323.55	26.77	124.08	12 3 17	404.1	7.31	317.30
110.00	18 51 28	4883.84	33.48	208.38	34.32	82.64	20 12 51	4283.8	32.10	199.42

DIFFERENTIAL CORRECTIONS
TOE-1.9816 TRA 1.6285 TC3-5.1126 BAU .8179
ROE .0417 RRA .2019 RC3 -.4503 FAU .06630
FOE-2.5493 FRA 2.4270 FC3-4.8158 BSP 17825
BOE 1.9820 BRA 1.6410 BC3 5.1324 FSP -1986

MID-COURSE EXECUTION ACCURACY
SGT 5638.0 SGR 482.0 SG3 597.7
RRT .7084 RRF .6938 RTF .9829
SGB 5658.5 R23 -.0070 R13 .9828
SG1 5648.3 SG2 339.6 THA 3.48

ORBIT DETERMINATION ACCURACY
ST 3404.7 SR 129.1 SS 1879.5
CRT -.2999 CRS .2633 CST -.9992
LSA 3888.6 MSA 138.7 SSA 17.3
EL1 3404.9 EL2 123.1 ALF 179.35

LAUNCH DATE MAY 25 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 1 1967

HELIOCENTRIC CONIC DISTANCE 529.449

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.746 GAL   4.48 AZL  92.89 HCA 242.13 SMA 128.04 ECC .19876 INC 2.8923 V1  29.406
RP  107.48 LAP   2.56 LOP 125.22 VP  37.855 GAP   6.82 AZP  88.65 TAL 161.36 TAP  43.49 RCA 102.59 APO 153.49 V2  35.258
RC 126.964 GL  -22.23 GP   -6.49 ZAL  60.11 ZAP 152.06 ETS 348.43 ZAE 129.52 ETE 185.46 ZAC 113.72 ETC  13.53 CLP-152.76
PLANETOCENTRIC CONIC
C3  12.648 VHL  3.556 DLA -22.56 RAL 175.88 RAD 6567.5 VEL 11.577 PTH   2.02 VHP  5.114 DPA   7.57 RAP 153.39 ECC 1.2082
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 18 8	1317.91	7.57	349.67	32.03	117.37	10 40 6	717.9	11.18	342.85
90.00	15 33 51	5547.24	28.30	258.32	37.50	90.97	17 6 18	4947.2	28.14	249.66
100.00	11 22 52	1108.99	6.19	333.56	31.28	119.30	11 41 21	509.0	10.04	326.90
100.00	17 11 48	5231.39	29.88	235.09	37.49	88.94	18 38 59	4631.4	29.41	226.31
110.00	11 56 57	1002.12	2.93	323.45	29.26	124.07	12 13 39	402.1	7.38	317.19
110.00	18 54 12	4911.03	33.69	210.47	37.21	83.86	20 16 3	4311.0	32.48	201.45

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.0848 TRA 1.7764 TC3-4.9234 BAU  .8353   SGT 5757.3 SGR  463.8 SG3  556.8      ST  3486.5 SR   147.4 SS  1823.4
RDE  .0642 RRA  .1999 RC3 -.4044 FAU .06060   RRT  .6519 RRF  .6342 RTF  .9824     CRT -.4851 CRS  .4524 CST -.9992
FDE-2.4406 FRA 2.3891 FC3-4.1479 BSP  18251   SGB 5776.0 R23 -.0114 R13  .9824     LSA 3934.6 MSA  142.8 SSA   17.2
BDE 2.0857 BRA 1.7876 BC3 4.9400 FSP  -1859   SG1 5765.3 SG2  351.2 THA   3.02     EL1 3487.2 EL2  128.9 ALF 178.82
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 3 1967

HELIOCENTRIC CONIC DISTANCE 535.419

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.720 GAL   4.79 AZL  92.95 HCA 245.38 SMA 127.87 ECC .20229 INC 2.9471 V1  29.406
RP  107.48 LAP   2.68 LOP 128.47 VP  37.838 GAP   7.24 AZP  88.77 TAL 160.41 TAP  45.79 RCA 102.00 APO 153.74 V2  35.259
RC 129.165 GL  -21.91 GP   -6.05 ZAL  58.52 ZAP 153.90 ETS 348.23 ZAE 128.74 ETE 185.07 ZAC 112.23 ETC  13.65 CLP-154.57
PLANETOCENTRIC CONIC
C3  13.457 VHL  3.668 DLA -22.94 RAL 177.56 RAD 6567.5 VEL 11.612 PTH   2.03 VHP  5.324 DPA   7.49 RAP 154.90 ECC 1.2215
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 30 11	1312.23	7.75	349.35	34.70	117.32	10 52 4	712.2	11.35	342.52
90.00	15 35 12	5579.64	28.24	260.69	40.34	92.16	17 8 11	4979.6	28.24	252.03
100.00	11 34 10	1105.72	6.29	333.38	33.92	119.28	11 52 36	505.7	10.15	326.72
100.00	17 13 54	5261.39	29.89	237.32	40.38	90.12	18 41 35	4661.4	29.59	228.52
110.00	12 7 3	1002.64	2.91	323.48	31.82	124.07	12 23 45	402.6	7.36	317.22
110.00	18 57 31	4937.22	33.87	212.50	40.18	85.05	20 19 48	4337.2	32.81	203.42

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.1825 TRA 1.9385 TC3-4.7059 BAU  .8491   SGT 5860.9 SGR  450.0 SG3  518.6      ST  3550.2 SR   169.3 SS  1763.1
RDE  .0868 RRA  .1986 RC3 -.3623 FAU .05502   RRT  .5927 RRF  .5723 RTF  .9818     CRT -.6018 CRS  .5724 CST -.9993
FDE-2.3300 FRA 2.3610 FC3-3.5400 BSP  18547   SGB 5878.2 R23 -.0146 R13  .9818     LSA 3964.7 MSA  147.7 SSA   17.1
BDE 2.1842 BRA 1.9487 BC3 4.7198 FSP  -1729   SG1 5867.0 SG2  362.1 THA   2.62     EL1 3551.6 EL2  135.1 ALF 178.35
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 5 1967

HELIOCENTRIC CONIC DISTANCE 541.358

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.694 GAL   5.12 AZL  93.00 HCA 248.63 SMA 127.70 ECC .20609 INC 2.9992 V1  29.406
RP  107.48 LAP   2.79 LOP 131.72 VP  37.820 GAP   7.68 AZP  88.91 TAL 159.45 TAP  48.08 RCA 101.38 APO 154.02 V2  35.259
RC 131.355 GL  -21.54 GP   -5.67 ZAL  56.92 ZAP 155.65 ETS 347.97 ZAE 128.03 ETE 184.73 ZAC 110.66 ETC  13.73 CLP-156.28
PLANETOCENTRIC CONIC
C3  14.354 VHL  3.789 DLA -23.27 RAL 179.27 RAD 6567.6 VEL 11.651 PTH   2.05 VHP  5.542 DPA   7.31 RAP 156.48 ECC 1.2362
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 41 44	1309.59	7.83	349.20	37.44	117.30	11 3 34	709.6	11.43	342.37
90.00	15 37 14	5610.62	28.14	262.95	43.24	93.28	17 10 45	5010.6	28.30	254.29
100.00	11 45 2	1105.30	6.31	333.36	36.61	119.28	12 3 27	505.3	10.16	326.69
100.00	17 16 38	5290.14	29.87	239.45	43.32	91.24	18 44 48	4690.1	29.72	230.65
110.00	12 16 48	1005.67	2.79	323.64	34.44	124.08	12 33 34	405.7	7.25	317.38
110.00	19 1 21	4962.53	34.00	214.46	43.21	86.21	20 24 4	4362.5	33.10	205.34

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.2828 TRA 2.1074 TC3-4.4885 BAU  .8636   SGT 5959.9 SGR  439.5 SG3  483.8      ST  3607.1 SR   191.6 SS  1706.8
RDE  .1090 RRA  .1971 RC3 -.3251 FAU .05015   RRT  .5323 RRF  .5095 RTF  .9814     CRT -.6759 CRS  .6493 CST -.9993
FDE-2.2302 FRA 2.3315 FC3-3.0249 BSP  18910   SGB 5976.1 R23 -.0177 R13  .9813     LSA 3992.2 MSA  152.3 SSA   16.9
BDE 2.2854 BRA 2.1166 BC3 4.5002 FSP  -1621   SG1 5964.6 SG2  371.8 THA   2.26     EL1 3609.4 EL2  141.1 ALF 177.94
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 7 1967

HELIOCENTRIC CONIC DISTANCE 547.263

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.668 GAL   5.48 AZL  93.05 HCA 251.88 SMA 127.53 ECC .21016 INC 3.0490 V1  29.406
RP  107.48 LAP   2.90 LOP 134.97 VP  37.801 GAP   8.12 AZP  89.05 TAL 158.47 TAP  50.34 RCA 100.72 APO 154.33 V2  35.259
RC 133.537 GL  -21.12 GP   -5.33 ZAL  55.31 ZAP 157.31 ETS 347.66 ZAE 127.39 ETE 184.45 ZAC 109.01 ETC  13.78 CLP-157.91
PLANETOCENTRIC CONIC
C3  15.354 VHL  3.918 DLA -23.55 RAL 180.98 RAD 6567.6 VEL 11.694 PTH   2.06 VHP  5.769 DPA   7.06 RAP 158.11 ECC 1.2527
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 52 44	1310.01	7.82	349.22	40.22	117.30	11 14 34	710.0	11.42	342.39
90.00	15 39 57	5640.24	28.01	265.11	46.20	94.36	17 13 57	5040.2	28.32	256.46
100.00	11 55 24	1107.75	6.23	333.50	39.36	119.30	12 13 52	507.7	10.09	326.83
100.00	17 19 59	5317.73	29.81	241.50	46.32	92.32	18 48 36	4717.7	29.81	232.70
110.00	12 26 12	1011.17	2.58	323.92	37.10	124.10	12 43 3	411.2	7.04	317.67
110.00	19 5 40	4987.08	34.09	216.37	46.31	87.33	20 28 47	4387.1	33.35	207.21

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.3824 TRA 2.2879 TC3-4.2601 BAU  .8765   SGT 6049.9 SGR  431.6 SG3  451.9      ST  3653.0 SR   213.8 SS  1651.2
RDE  .1314 RRA  .1957 RC3 -.2910 FAU .04562   RRT  .4714 RRF  .4466 RTF  .9809     CRT -.7247 CRS  .7005 CST -.9993
FDE-2.1356 FRA 2.3067 FC3-2.5722 BSP  19244   SGB 6065.2 R23 -.0201 R13  .9809     LSA 4011.5 MSA  157.1 SSA   16.6
BDE 2.3860 BRA 2.2963 BC3 4.2701 FSP  -1520   SG1 6053.3 SG2  380.4 THA   1.93     EL1 3656.3 EL2  147.2 ALF 177.57
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 9 1967

HELIOCENTRIC CONIC DISTANCE 553.132
RL 151.51 LAL .00 LOL 243.12 VL 26.641 GAL 5.85 AZL 93.10 HCA 255.12 SMA 127.35 ECC .21454 INC 3.0970 V1 29.406
RP 107.48 LAP 2.99 LOP 138.22 VP 37.781 GAP 8.57 AZP 89.20 TAL 157.47 TAP 52.60 RCA 100.03 APO 154.67 V2 35.257
RC 135.709 GL -20.66 GP -5.02 ZAL 53.72 ZAP 158.89 ETS 347.29 ZAE 126.81 ETE 184.20 ZAC 107.31 ETC 13.81 CLP-159.47
PLANETOCENTRIC CONIC
C3 16.468 VHL 4.058 DLA -23.79 RAL 182.71 RAD 6567.7 VEL 11.741 PTH 2.07 VHP 6.006 DPA 6.73 RAP 159.80 ECC 1.2710

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 3 9	1313.53	7.71	349.42	43.04	117.33	11 25 2	713.5	11.31	342.60
90.00	15 43 18	5668.53	27.84	267.16	49.21	95.37	17 17 46	5068.5	28.30	258.53
100.00	12 5 15	1113.06	6.05	333.79	42.14	119.33	12 23 48	513.1	9.91	327.13
100.00	17 23 53	5344.23	29.72	243.47	49.38	93.35	18 52 57	4744.2	29.87	234.67
110.00	12 35 12	1019.11	2.28	324.34	39.81	124.12	12 52 11	419.1	6.74	318.09
110.00	19 10 25	5010.94	34.15	218.23	49.46	88.43	20 33 56	4410.9	33.56	209.04

DIFFERENTIAL CORRECTIONS
TDE-2.4819 TRA 2.4798 TC3-4.0255 BAU .8881
RDE .1539 RRA .1939 RC3 -.2597 FAU .04145
FDE-2.0466 FRA 2.2848 FC3-2.1790 BSP 19556
BDE 2.4866 BRA 2.4874 BC3 4.0339 FSP -1427

MID-COURSE EXECUTION ACCURACY
SGT 6131.3 SGR 425.7 SG3 422.4
RRT .4108 RRF .3842 RTF .9805
SG8 6146.1 R23 -.0221 R13 .9804
SG1 6133.8 SG2 387.9 THA 1.64

ORBIT DETERMINATION ACCURACY
ST 3688.6 SR 235.2 SS 1596.9
CRT -.7582 CRS .7359 CST -.9994
LSA 4023.0 MSA 161.9 SSA 16.3
EL1 3692.9 EL2 153.2 ALF 177.23

LAUNCH DATE MAY 25 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 11 1967

HELIOCENTRIC CONIC DISTANCE 558.962
RL 151.51 LAL .00 LOL 243.12 VL 26.614 GAL 6.25 AZL 93.14 HCA 258.37 SMA 127.17 ECC .21923 INC 3.1436 V1 29.406
RP 107.49 LAP 3.08 LOP 141.47 VP 37.760 GAP 9.04 AZP 89.37 TAL 156.46 TAP 54.83 RCA 99.29 APO 155.05 V2 35.255
RC 137.871 GL -20.16 GP -4.75 ZAL 52.13 ZAP 160.41 ETS 346.85 ZAE 126.27 ETE 183.99 ZAC 105.55 ETC 13.81 CLP-160.97
PLANETOCENTRIC CONIC
C3 17.714 VHL 4.209 DLA -23.97 RAL 184.43 RAD 6567.7 VEL 11.794 PTH 2.09 VHP 6.253 DPA 6.34 RAP 161.53 ECC 1.2915

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 12 55	1320.17	7.50	349.80	45.90	117.39	11 34 55	720.2	11.11	342.98
90.00	15 47 15	5695.52	27.66	269.12	52.27	96.34	17 22 11	5095.5	28.25	260.50
100.00	12 14 33	1121.22	5.78	334.24	44.96	119.38	12 33 14	521.2	9.65	327.60
100.00	17 28 19	5369.70	29.61	245.35	52.48	94.33	18 57 48	4769.7	29.89	236.56
110.00	12 43 48	1029.48	1.89	324.88	42.55	124.14	13 0 58	429.5	6.35	318.64
110.00	19 15 33	5034.21	34.18	220.05	52.66	89.51	20 39 27	4434.2	33.73	210.84

DIFFERENTIAL CORRECTIONS
TDE-2.5806 TRA 2.6846 TC3-3.7843 BAU .8979
RDE .1768 RRA .1918 RC3 -.2308 FAU .03754
FDE-1.9621 FRA 2.2668 FC3-1.8348 BSP 19836
BDE 2.5867 BRA 2.6915 BC3 3.7913 FSP -1340

MID-COURSE EXECUTION ACCURACY
SGT 6203.7 SGR 421.1 SG3 395.2
RRT .3508 RRF .3231 RTF .9800
SG8 6218.0 R23 -.0236 R13 .9800
SG1 6205.5 SG2 394.3 THA 1.37

ORBIT DETERMINATION ACCURACY
ST 3713.5 SR 255.6 SS 1543.6
CRT -.7819 CRS .7611 CST -.9994
LSA 4026.2 MSA 166.8 SSA 16.0
EL1 3718.9 EL2 159.1 ALF 176.91

LAUNCH DATE MAY 25 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 13 1967

HELIOCENTRIC CONIC DISTANCE 564.748
RL 151.51 LAL .00 LOL 243.12 VL 26.586 GAL 6.68 AZL 93.19 HCA 261.62 SMA 126.99 ECC .22428 INC 3.1891 V1 29.406
RP 107.50 LAP 3.16 LOP 144.72 VP 37.738 GAP 9.52 AZP 89.53 TAL 155.44 TAP 57.06 RCA 98.51 APO 155.47 V2 35.253
RC 140.023 GL -19.64 GP -4.51 ZAL 50.57 ZAP 161.86 ETS 346.32 ZAE 125.78 ETE 183.80 ZAC 103.74 ETC 13.80 CLP-162.41
PLANETOCENTRIC CONIC
C3 19.109 VHL 4.371 DLA -24.12 RAL 186.14 RAD 6567.8 VEL 11.853 PTH 2.10 VHP 6.512 DPA 5.89 RAP 163.31 ECC 1.3145

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 22 2	1329.95	7.19	350.35	48.78	117.46	11 44 12	729.9	10.82	343.55
90.00	15 51 48	5721.26	27.45	270.97	55.37	97.24	17 27 9	5121.3	28.17	262.38
100.00	12 23 17	1132.22	5.41	334.85	47.81	119.44	12 42 9	532.2	9.29	328.22
100.00	17 33 14	5394.21	29.47	247.16	55.62	95.28	19 3 8	4794.2	29.88	238.38
110.00	12 51 59	1042.22	1.40	325.54	45.32	124.16	13 9 21	442.2	5.87	319.31
110.00	19 21 1	5056.98	34.18	221.83	55.90	90.56	20 45 18	4457.0	33.88	212.60

DIFFERENTIAL CORRECTIONS
TDE-2.6769 TRA 2.9060 TC3-3.5341 BAU .9044
RDE .2001 RRA .1893 RC3 -.2040 FAU .03378
FDE-1.8801 FRA 2.2551 FC3-1.5306 BSP 20014
BDE 2.6844 BRA 2.9121 BC3 3.5400 FSP -1254

MID-COURSE EXECUTION ACCURACY
SGT 6266.7 SGR 417.7 SG3 370.1
RRT .2922 RRF .2640 RTF .9795
SG8 6280.7 R23 -.0244 R13 .9795
SG1 6267.9 SG2 399.4 THA 1.12

ORBIT DETERMINATION ACCURACY
ST 3726.4 SR 274.8 SS 1490.4
CRT -.7988 CRS .7790 CST -.9994
LSA 4019.1 MSA 171.9 SSA 15.7
EL1 3732.9 EL2 165.0 ALF 176.62

LAUNCH DATE MAY 25 1967 FLIGHT TIME 204.00 ARRIVAL DATE DEC 15 1967

HELIOCENTRIC CONIC DISTANCE 570.487
RL 151.51 LAL .00 LOL 243.12 VL 26.558 GAL 7.13 AZL 93.23 HCA 264.86 SMA 126.81 ECC .22970 INC 3.2339 V1 29.406
RP 107.51 LAP 3.22 LOP 147.98 VP 37.715 GAP 10.02 AZP 89.71 TAL 154.42 TAP 59.28 RCA 97.68 APO 155.94 V2 35.249
RC 142.165 GL -19.08 GP -4.29 ZAL 49.02 ZAP 163.26 ETS 345.70 ZAE 125.32 ETE 183.62 ZAC 101.89 ETC 13.78 CLP-163.80
PLANETOCENTRIC CONIC
C3 20.674 VHL 4.547 DLA -24.22 RAL 187.83 RAD 6567.8 VEL 11.919 PTH 2.12 VHP 6.782 DPA 5.39 RAP 165.11 ECC 1.3402

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 30 28	1342.85	6.79	351.08	51.68	117.56	11 52 50	742.8	10.43	344.30
90.00	15 56 53	5745.78	27.23	272.73	58.51	98.10	17 32 39	5145.8	28.07	264.16
100.00	12 31 26	1146.04	4.95	335.62	50.67	119.52	12 50 32	546.0	8.84	329.00
100.00	17 38 36	5417.82	29.31	248.90	58.80	96.18	19 8 54	4817.8	29.85	240.13
110.00	12 59 43	1057.32	.82	326.33	48.11	124.17	13 17 20	457.3	5.30	320.11
110.00	19 26 48	5079.31	34.15	223.57	59.19	91.59	20 51 27	4479.3	33.99	214.33

DIFFERENTIAL CORRECTIONS
TDE-2.7775 TRA 3.1378 TC3-3.2908 BAU .9109
RDE .2238 RRA .1858 RC3 -.1795 FAU .03043
FDE-1.8069 FRA 2.2433 FC3-1.2743 BSP 20262
BDE 2.7865 BRA 3.1433 BC3 3.2957 FSP -1180

MID-COURSE EXECUTION ACCURACY
SGT 6324.8 SGR 414.9 SG3 347.1
RRT .2342 RRF .2058 RTF .9791
SG8 6338.4 R23 -.0252 R13 .9791
SG1 6325.5 SG2 403.3 THA .88

ORBIT DETERMINATION ACCURACY
ST 3734.9 SR 292.4 SS 1441.4
CRT -.8117 CRS .7930 CST -.9994
LSA 4010.1 MSA 176.6 SSA 15.4
EL1 3742.4 EL2 170.4 ALF 176.36

LAUNCH DATE MAY 25 1967 FLIGHT TIME 206.00 ARRIVAL DATE DEC 17 1967

HELIOCENTRIC CONIC DISTANCE 576.174

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.530 GAL   7.61 AZL  93.28 HCA 268.11 SMA 126.63 ECC .23554 INC 3.2781 V1  29.406
RP  107.52 LAP   3.28 LOP 151.23 VP  37.691 GAP  10.54 AZP  89.89 TAL 153.39 TAP  61.49 RCA  96.80 APO 156.46 V2  35.245
RC 144.295 GL  -18.51 GP   -4.09 ZAL  47.50 ZAP 164.61 ETS 344.96 ZAE 124.90 ETE 183.46 ZAC 100.00 ETC  13.76 CLP-165.15
```

PLANETOCENTRIC CONIC

```
C3  22.433 VHL  4.736 DLA -24.29 RAL 189.50 RAD 6567.9 VEL 11.992 PTH   2.14 VHP  7.067 DPA   4.84 RAP 166.94 ECC 1.3692
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 38 11	1358.84	6.28	351.99	54.59	117.67	12 0 50	758.8	9.94	345.22
90.00	16 2 29	5769.16	26.99	274.40	61.68	98.91	17 38 38	5169.2	27.95	265.86
100.00	12 38 58	1162.62	4.39	336.53	53.55	119.60	12 58 21	562.6	8.30	329.93
100.00	17 44 23	5440.61	29.13	250.57	62.02	97.04	19 15 4	4840.6	29.80	241.83
110.00	13 7 0	1074.71	.16	327.24	50.91	124.18	13 24 55	474.7	4.64	321.02
110.00	19 32 51	5101.28	34.10	225.29	62.51	92.61	20 57 52	4501.3	34.08	216.04

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-2.8787 TRA 3.3847 TC3-3.0481 BAU  .9154   SGT 6375.2 SGR  412.5 SG3  325.7          ST  3735.0 SR   308.6 SS  1394.2
 RDE  .2480 RRA  .1815 RC3 -.1569 FAU .02729   RRT  .1775 RRF  .1492 RTF  .9788          CRT -.8215 CRS  .8037 CST -.9995
 FDE-1.7382 FRA 2.2349 FC3-1.0532 BSP  20479   SGB 6388.5 R23 -.0256 R13  .9788          LSA 3994.5 MSA  181.0 SSA   15.1
 BDE 2.8893 BRA 3.3896 BC3 3.0521 FSP  -1112   SG1 6375.6 SG2  405.9 THA   .66          EL1 3743.6 EL2  175.6 ALF 176.11
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 208.00 ARRIVAL DATE DEC 19 1967

HELIOCENTRIC CONIC DISTANCE 581.802

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.501 GAL   8.13 AZL  93.32 HCA 271.35 SMA 126.45 ECC .24184 INC 3.3222 V1  29.406
RP  107.53 LAP   3.32 LOP 154.48 VP  37.667 GAP  11.08 AZP  90.08 TAL 152.35 TAP  63.71 RCA  95.87 APO 157.03 V2  35.240
RC 146.414 GL  -17.92 GP   -3.91 ZAL  46.01 ZAP 165.91 ETS 344.08 ZAE 124.50 ETE 183.32 ZAC  98.08 ETC  13.73 CLP-166.45
```

PLANETOCENTRIC CONIC

```
C3  24.414 VHL  4.941 DLA -24.32 RAL 191.15 RAD 6568.0 VEL 12.074 PTH   2.16 VHP  7.366 DPA   4.25 RAP 168.80 ECC 1.4018
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 45 13	1377.84	5.68	353.06	57.50	117.79	12 8 10	777.8	9.36	346.31
90.00	16 8 33	5791.48	26.75	275.99	64.88	99.67	17 45 5	5191.5	27.81	267.48
100.00	12 45 55	1181.89	3.74	337.60	56.43	119.68	13 5 36	581.9	7.67	331.01
100.00	17 50 32	5462.66	28.93	252.18	65.26	97.86	19 21 35	4862.7	29.72	243.46
110.00	13 13 49	1094.35	-.60	328.26	53.73	124.18	13 32 4	494.4	3.89	322.05
110.00	19 39 7	5122.96	34.02	226.98	65.86	93.60	21 4 30	4523.0	34.14	217.73

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-2.9817 TRA 3.6477 TC3-2.8077 BAU  .9175   SGT 6418.5 SGR  410.4 SG3  306.1          ST  3728.3 SR   323.3 SS  1349.4
 RDE  .2727 RRA  .1762 RC3 -.1363 FAU .02434   RRT  .1218 RRF  .0942 RTF  .9786          CRT -.8290 CRS  .8120 CST -.9995
 FDE-1.6745 FRA 2.2298 FC3 -.8631 BSP  20676   SGB 6431.6 R23 -.0257 R13  .9786          LSA 3973.8 MSA  185.2 SSA   14.7
 BDE 2.9941 BRA 3.6520 BC3 2.8110 FSP  -1048   SG1 6418.7 SG2  407.3 THA   .45          EL1 3738.0 EL2  180.3 ALF 175.88
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 210.00 ARRIVAL DATE DEC 21 1967

HELIOCENTRIC CONIC DISTANCE 587.364

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.473 GAL   8.68 AZL  93.37 HCA 274.60 SMA 126.27 ECC .24863 INC 3.3664 V1  29.406
RP  107.55 LAP   3.36 LOP 157.73 VP  37.641 GAP  11.64 AZP  90.27 TAL 151.32 TAP  65.92 RCA  94.87 APO 157.66 V2  35.234
RC 148.521 GL  -17.32 GP   -3.75 ZAL  44.56 ZAP 167.18 ETS 343.03 ZAE 124.13 ETE 183.18 ZAC  96.14 ETC  13.71 CLP-167.73
```

PLANETOCENTRIC CONIC

```
C3  26.651 VHL  5.162 DLA -24.31 RAL 192.75 RAD 6568.1 VEL 12.167 PTH   2.18 VHP  7.683 DPA   3.62 RAP 170.67 ECC 1.4386
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 51 32	1399.78	4.98	354.30	60.41	117.91	12 14 52	799.8	8.68	347.57
90.00	16 15 3	5812.82	26.49	277.50	68.11	100.38	17 51 56	5212.8	27.66	269.03
100.00	12 52 15	1203.77	3.00	338.80	59.32	119.76	13 12 19	603.8	6.94	332.23
100.00	17 57 1	5484.06	28.72	253.73	68.53	98.66	19 28 25	4884.1	29.62	245.04
110.00	13 20 11	1116.18	-1.43	329.40	56.55	124.16	13 38 47	516.2	3.06	323.20
110.00	19 45 34	5144.42	33.91	228.64	69.24	94.58	21 11 19	4544.4	34.17	219.41

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-3.0831 TRA 3.9317 TC3-2.5663 BAU  .9153   SGT 6454.2 SGR  408.4 SG3  287.8          ST  3712.0 SR   336.5 SS  1305.5
 RDE  .2980 RRA  .1696 RC3 -.1174 FAU .02146   RRT  .0677 RRF  .0414 RTF  .9784          CRT -.8345 CRS  .8181 CST -.9995
 FDE-1.6127 FRA 2.2301 FC3 -.6972 BSP  20761   SGB 6467.1 R23 -.0252 R13  .9784          LSA 3944.6 MSA  189.3 SSA   14.4
 BDE 3.0975 BRA 3.9353 BC3 2.5690 FSP   -983   SG1 6454.3 SG2  407.4 THA   .25          EL1 3722.6 EL2  184.9 ALF 175.66
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 212.00 ARRIVAL DATE DEC 23 1967

HELIOCENTRIC CONIC DISTANCE 592.851

```
RL  151.51 LAL    .00 LOL 243.12 VL  26.444 GAL   9.26 AZL  93.41 HCA 277.84 SMA 126.09 ECC .25597 INC 3.4110 V1  29.406
RP  107.57 LAP   3.38 LOP 160.97 VP  37.615 GAP  12.24 AZP  90.47 TAL 150.29 TAP  68.13 RCA  93.81 APO 158.36 V2  35.228
RC 150.615 GL  -16.71 GP   -3.61 ZAL  43.14 ZAP 168.41 ETS 341.76 ZAE 123.77 ETE 183.06 ZAC  94.17 ETC  13.69 CLP-168.98
```

PLANETOCENTRIC CONIC

```
C3  29.182 VHL  5.402 DLA -24.27 RAL 194.32 RAD 6568.2 VEL 12.270 PTH   2.21 VHP  8.018 DPA   2.97 RAP 172.55 ECC 1.4803
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 57 10	1424.53	4.19	355.68	63.31	118.03	12 20 54	824.5	7.91	348.98
90.00	16 21 55	5833.29	26.23	278.94	71.36	101.06	17 59 8	5233.3	27.50	270.50
100.00	12 57 59	1228.19	2.18	340.14	62.20	119.82	13 18 27	628.2	6.13	333.59
100.00	18 3 46	5504.86	28.50	255.24	71.82	99.42	19 35 31	4904.9	29.51	246.58
110.00	13 26 4	1140.11	-2.34	330.65	59.38	124.11	13 45 4	540.1	2.15	324.45
110.00	19 52 11	5165.70	33.78	230.29	72.63	95.55	21 18 17	4565.7	34.18	221.07

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-3.1918 TRA 4.2293 TC3-2.3377 BAU  .9129   SGT 6484.9 SGR  406.3 SG3  271.0          ST  3694.0 SR   348.1 SS  1266.1
 RDE  .3238 RRA  .1616 RC3 -.1004 FAU .01889   RRT  .0139 RRF -.0111 RTF  .9783          CRT -.8393 CRS  .8235 CST -.9995
 FDE-1.5589 FRA 2.2307 FC3 -.5605 BSP  20933   SGB 6497.6 R23 -.0247 R13  .9783          LSA 3915.6 MSA  192.6 SSA   14.0
 BDE 3.2082 BRA 4.2324 BC3 2.3398 FSP   -928   SG1 6484.9 SG2  406.3 THA   .05          EL1 3705.5 EL2  188.6 ALF 175.47
```

LAUNCH DATE MAY 25 1967 FLIGHT TIME 214.00 ARRIVAL DATE DEC 25 1967

HELIOCENTRIC CONIC DISTANCE 598.254

RL 151.51 LAL .00 LOL 243.12 VL 26.416 GAL 9.89 AZL 93.46 HCA 281.08 SMA 125.91 ECC .26392 INC 3.4563 V1 29.406
RP 107.59 LAP 3.39 LOP 164.22 VP 37.589 GAP 12.86 AZP 90.67 TAL 149.28 TAP 70.36 RCA 92.68 APO 159.14 V2 35.221
RC 152.696 GL -16.09 GP -3.48 ZAL 41.76 ZAP 169.62 ETS 340.19 ZAE 123.42 ETE 182.94 ZAC 92.19 ETC 13.68 CLP-170.21

PLANETOCENTRIC CONIC

C3 32.054 VHL 5.662 DLA -24.20 RAL 195.84 RAD 6568.3 VEL 12.387 PTH 2.24 VHP 8.374 DPA 2.28 RAP 174.45 ECC 1.5275

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 2 7	1451.98	3.31	357.22	66.21	118.14	12 26 19	852.0	7.05	350.54
90.00	16 29 6	5852.97	25.97	280.32	74.62	101.70	18 6 39	5253.0	27.32	271.92
100.00	13 3 8	1255.01	1.27	341.62	65.07	119.87	13 24 3	655.0	5.23	335.07
100.00	18 10 46	5525.17	28.27	256.70	75.12	100.16	19 42 51	4925.2	29.38	248.08
110.00	13 31 30	1166.08	-3.33	332.01	62.20	124.04	13 50 56	566.1	1.16	325.80
110.00	19 58 54	5186.87	33.63	231.93	76.04	96.51	21 25 21	4586.9	34.17	222.72

DIFFERENTIAL CORRECTIONS
TOE-3.3037 TRA 4.5474 TC3-2.1148 BAU .9070
RDE .3502 RRA .1521 RC3 -.0851 FAU .01645
FDE-1.5093 FRA 2.2352 FC3 -.4442 BSP 21080
BDE 3.3222 BRA 4.5500 BC3 2.1165 FSP -877

MID-COURSE EXECUTION ACCURACY
SGT 6509.2 SGR 404.2 SG3 255.4
RRT -.0390 RRF -.0623 RTF .9784
SGB 6521.8 R23 .0239 R13 -.9784
SG1 6509.2 SG2 403.9 THA 179.86

ORBIT DETERMINATION ACCURACY
ST 3670.7 SR 358.0 SS 1229.3
CRT -.8432 CRS .8279 CST -.9995
LSA 3882.7 MSA 195.4 SSA 13.7
EL1 3683.1 EL2 191.8 ALF 175.29

LAUNCH DATE MAY 25 1967 FLIGHT TIME 216.00 ARRIVAL DATE DEC 27 1967

HELIOCENTRIC CONIC DISTANCE 603.560

RL 151.51 LAL .00 LOL 243.12 VL 26.387 GAL 10.57 AZL 93.50 HCA 284.32 SMA 125.73 ECC .27255 INC 3.5025 V1 29.406
RP 107.62 LAP 3.39 LOP 167.47 VP 37.562 GAP 13.52 AZP 90.87 TAL 148.28 TAP 72.60 RCA 91.46 APO 159.99 V2 35.214
RC 154.762 GL -15.46 GP -3.36 ZAL 40.43 ZAP 170.79 ETS 338.22 ZAE 123.08 ETE 182.82 ZAC 90.20 ETC 13.67 CLP-171.42

PLANETOCENTRIC CONIC

C3 35.324 VHL 5.943 DLA -24.11 RAL 197.31 RAD 6568.4 VEL 12.518 PTH 2.27 VHP 8.754 DPA 1.57 RAP 176.35 ECC 1.5813

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 6 25	1481.96	2.35	358.90	69.09	118.23	12 31 7	882.0	6.11	352.23
90.00	16 36 33	5871.98	25.70	281.65	77.90	102.32	18 14 25	5272.0	27.14	273.28
100.00	13 7 42	1284.14	.28	343.21	67.94	119.89	13 29 6	684.1	4.26	336.68
100.00	18 17 57	5545.03	28.02	258.13	78.43	100.87	19 50 22	4945.0	29.23	249.54
110.00	13 36 27	1194.00	-4.40	333.47	65.02	123.93	13 56 21	594.0	.09	327.26
110.00	20 5 42	5207.94	33.46	233.55	79.45	97.45	21 32 30	4607.9	34.13	224.37

DIFFERENTIAL CORRECTIONS
TOE-3.4198 TRA 4.8868 TC3-1.8996 BAU .8977
RDE .3772 RRA .1408 RC3 -.0716 FAU .01413
FDE-1.4640 FRA 2.2431 FC3 -.3463 BSP 21207
BDE 3.4406 BRA 4.8888 BC3 1.9010 FSP -829

MID-COURSE EXECUTION ACCURACY
SGT 6527.2 SGR 402.0 SG3 240.9
RRT -.0913 RRF -.1124 RTF .9786
SGB 6539.6 R23 .0229 R13 -.9786
SG1 6527.3 SG2 400.3 THA 179.68

ORBIT DETERMINATION ACCURACY
ST 3642.9 SR 366.4 SS 1195.2
CRT -.8464 CRS .8317 CST -.9996
LSA 3846.3 MSA 197.7 SSA 13.3
EL1 3656.1 EL2 194.4 ALF 175.12

LAUNCH DATE MAY 25 1967 FLIGHT TIME 218.00 ARRIVAL DATE DEC 29 1967

HELIOCENTRIC CONIC DISTANCE 608.755

RL 151.51 LAL .00 LOL 243.12 VL 26.359 GAL 11.29 AZL 93.55 HCA 287.56 SMA 125.55 ECC .28192 INC 3.5501 V1 29.406
RP 107.64 LAP 3.38 LOP 170.71 VP 37.534 GAP 14.22 AZP 91.07 TAL 147.29 TAP 74.85 RCA 90.15 APO 160.94 V2 35.205
RC 156.813 GL -14.84 GP -3.25 ZAL 39.14 ZAP 171.94 ETS 335.69 ZAE 122.75 ETE 182.71 ZAC 88.20 ETC 13.67 CLP-172.62

PLANETOCENTRIC CONIC

C3 39.058 VHL 6.250 DLA -23.98 RAL 198.73 RAD 6568.5 VEL 12.666 PTH 2.30 VHP 9.161 DPA .84 RAP 178.26 ECC 1.6428

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 10 5	1514.34	1.31	.71	71.95	118.29	12 35 20	914.3	5.08	354.06
90.00	16 44 13	602.34	25.43	305.02	81.18	102.90	16 54 16	2.3	26.95	296.69
100.00	13 11 42	1315.44	-.78	344.93	70.79	119.88	13 33 38	715.4	3.20	338.41
100.00	18 25 18	5564.51	27.76	259.52	81.74	101.56	19 58 2	4964.5	29.07	250.96
110.00	13 40 56	1223.77	-5.53	335.04	67.84	123.79	14 1 20	623.8	-1.05	328.81
110.00	20 12 33	5228.95	33.26	235.15	82.86	98.39	21 39 42	4628.9	34.06	226.01

DIFFERENTIAL CORRECTIONS
TOE-3.5369 TRA 5.2542 TC3-1.6882 BAU .8821
RDE .4048 RRA .1275 RC3 -.0596 FAU .01182
FDE-1.4208 FRA 2.2570 FC3 -.2621 BSP 21206
BDE 3.5600 BRA 5.2557 BC3 1.6893 FSP -779

MID-COURSE EXECUTION ACCURACY
SGT 6539.2 SGR 399.6 SG3 227.5
RRT -.1422 RRF -.1609 RTF .9789
SGB 6551.4 R23 .0213 R13 -.9789
SG1 6539.4 SG2 395.5 THA 179.50

ORBIT DETERMINATION ACCURACY
ST 3608.3 SR 373.1 SS 1162.8
CRT -.8487 CRS .8343 CST -.9996
LSA 3804.1 MSA 199.6 SSA 13.0
EL1 3622.2 EL2 196.6 ALF 174.97

LAUNCH DATE MAY 25 1967 FLIGHT TIME 220.00 ARRIVAL DATE DEC 31 1967

HELIOCENTRIC CONIC DISTANCE 613.821

RL 151.51 LAL .00 LOL 243.12 VL 26.331 GAL 12.08 AZL 93.60 HCA 290.80 SMA 125.37 ECC .29214 INC 3.5994 V1 29.406
RP 107.67 LAP 3.36 LOP 173.95 VP 37.506 GAP 14.97 AZP 91.28 TAL 146.34 TAP 77.13 RCA 88.75 APO 162.00 V2 35.197
RC 158.850 GL -14.21 GP -3.15 ZAL 37.91 ZAP 173.06 ETS 332.33 ZAE 122.41 ETE 182.61 ZAC 86.20 ETC 13.69 CLP-173.81

PLANETOCENTRIC CONIC

C3 43.337 VHL 6.583 DLA -23.83 RAL 200.10 RAD 6568.6 VEL 12.834 PTH 2.34 VHP 9.598 DPA .09 RAP 180.16 ECC 1.7132

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 13 8	1548.95	.19	2.64	74.79	118.32	12 38 57	948.9	3.97	356.00
90.00	16 52 3	620.20	25.15	306.26	84.45	103.46	17 2 24	20.2	26.75	297.96
100.00	13 15 8	1348.79	-1.91	346.76	73.62	119.84	13 37 37	748.8	2.07	340.24
100.00	18 32 44	5583.63	27.49	260.88	85.05	102.22	20 5 48	4983.6	28.90	252.36
110.00	13 44 57	1255.31	-6.72	336.70	70.64	123.60	14 5 52	655.3	-2.26	330.46
110.00	20 19 25	5249.87	33.04	236.75	86.27	99.30	21 46 55	4649.9	33.97	227.63

DIFFERENTIAL CORRECTIONS
TOE-3.6654 TRA 5.6419 TC3-1.4916 BAU .8647
RDE .4330 RRA .1121 RC3 -.0492 FAU .00974
FDE-1.3848 FRA 2.2724 FC3 -.1946 BSP 21315
BDE 3.6909 BRA 5.6430 BC3 1.4924 FSP -738

MID-COURSE EXECUTION ACCURACY
SGT 6545.8 SGR 397.0 SG3 215.0
RRT -.1933 RRF -.2094 RTF .9794
SGB 6557.9 R23 .0198 R13 -.9794
SG1 6546.3 SG2 389.5 THA 179.33

ORBIT DETERMINATION ACCURACY
ST 3574.1 SR 378.2 SS 1135.0
CRT -.8512 CRS .8373 CST -.9996
LSA 3763.6 MSA 200.5 SSA 12.6
EL1 3588.6 EL2 197.7 ALF 174.84

LAUNCH DATE MAY 26 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 4 1967

HELIOCENTRIC CONIC DISTANCE 143.438

RL 151.54 LAL .00 LOL 244.08 VL 19.173 GAL 11.03 AZL 92.73 HCA 50.82 SMA 95.89 ECC .60083 INC 2.7270 V1 29.401
RP 108.92 LAP -2.11 LOP 294.87 VP 32.451 GAP -36.21 AZP 91.72 TAL 172.46 TAP 223.28 RCA 38.28 APO 153.51 V2 34.793
RC 56.154 GL -4.60 GP 1.16 ZAL 72.48 ZAP 24.15 ETS 184.15 ZAE 154.12 ETE 161.66 ZAC 124.72 ETC 19.81 CLP 24.12

PLANETOCENTRIC CONIC

C3 124.492 VHL 11.158 DLA -.92 RAL 170.53 RAD 6570.3 VEL 15.679 PTH 2.79 VHP 21.082 DPA 19.10 RAP 142.77 ECC 3.0488

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 38 31	2621.32	-26.91	68.92	62.65	99.15	7 22 12	2021.3	-25.37	60.59
90.00	18 22 53	5322.49	27.47	241.96	63.56	82.83	19 51 36	4722.5	26.19	233.53
100.00	7 59 26	2360.31	-28.41	49.44	62.37	99.70	8 38 46	1760.3	-26.78	41.02
100.00	19 44 39	5058.73	28.97	222.34	63.33	82.30	21 8 58	4458.7	27.61	213.81
110.00	9 6 41	2149.77	-32.48	32.59	61.50	101.29	9 42 31	1549.8	-30.59	23.88
110.00	20 53 53	4842.04	33.07	205.18	62.63	80.79	22 14 35	4242.0	31.44	196.34

DIFFERENTIAL CORRECTIONS
TDE .5763 TRA-1.3980 TC3 -.0970 BAU .1685
RDE -.7687 RRA -.3974 RC3 .0290 FAU .01463
FDE -.3213 FRA .5507 FC3 -.1017 BSP 2087
BDE .9608 BRA 1.4534 BC3 .1012 FSP -72

MID-COURSE EXECUTION ACCURACY
SGT 806.2 SGR 449.1 SG3 34.4
RRT .0434 RRF -.0406 RTF -.6313
SGB 922.8 R23 -.0010 R13 -.6314
SG1 806.5 SG2 448.5 THA 2.01

ORBIT DETERMINATION ACCURACY
ST 366.1 SR 399.5 SS 338.2
CRT -.7087 CRS -.8080 CST .9867
LSA 599.7 MSA 219.4 SSA 13.9
EL1 501.2 EL2 205.8 ALF 131.48

LAUNCH DATE MAY 26 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 6 1967

HELIOCENTRIC CONIC DISTANCE 149.573

RL 151.54 LAL .00 LOL 244.08 VL 19.780 GAL 10.59 AZL 92.79 HCA 53.98 SMA 97.56 ECC .57406 INC 2.7906 V1 29.401
RP 108.93 LAP -2.26 LOP 298.03 VP 32.810 GAP -34.47 AZP 91.64 TAL 171.92 TAP 225.90 RCA 41.56 APO 153.57 V2 34.790
RC 54.407 GL -5.14 GP 1.20 ZAL 71.64 ZAP 22.61 ETS 184.36 ZAE 155.23 ETE 159.52 ZAC 123.17 ETC 19.37 CLP 22.58

PLANETOCENTRIC CONIC

C3 111.557 VHL 10.562 DLA -1.75 RAL 171.10 RAD 6570.1 VEL 15.261 PTH 2.74 VHP 20.173 DPA 18.66 RAP 144.41 ECC 2.8359

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 46 58	2573.49	-26.35	65.53	61.18	100.76	7 29 51	1973.5	-24.60	57.30
90.00	18 19 0	5326.24	27.50	242.23	62.87	82.96	19 47 46	4726.2	26.24	233.79
100.00	8 7 30	2313.73	-27.83	46.10	60.86	101.37	8 46 3	1713.7	-25.98	37.79
100.00	19 41 9	5061.23	29.00	222.53	62.65	82.40	21 5 31	4461.2	27.64	213.99
110.00	9 13 52	2105.96	-31.85	29.33	59.85	103.12	9 48 58	1506.0	-29.72	20.77
110.00	20 51 16	4841.76	33.06	205.16	61.95	80.78	22 11 58	4241.8	31.44	196.32

DIFFERENTIAL CORRECTIONS
TDE .5763 TRA-1.3902 TC3 -.0989 BAU .1557
RDE -.7328 RRA -.3810 RC3 .0334 FAU .01496
FDE -.3372 FRA .5681 FC3 -.1161 BSP 2239
BDE .9323 BRA 1.4414 BC3 .1044 FSP -80

MID-COURSE EXECUTION ACCURACY
SGT 843.0 SGR 453.6 SG3 37.5
RRT .0444 RRF -.0423 RTF -.6515
SGB 957.3 R23 -.0016 R13 -.6516
SG1 843.3 SG2 453.0 THA 1.92

ORBIT DETERMINATION ACCURACY
ST 386.0 SR 402.3 SS 357.5
CRT -.7099 CRS -.8115 CST .9861
LSA 623.2 MSA 223.9 SSA 14.2
EL1 515.6 EL2 212.1 ALF 133.33

LAUNCH DATE MAY 26 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 8 1967

HELIOCENTRIC CONIC DISTANCE 155.779

RL 151.54 LAL .00 LOL 244.08 VL 20.345 GAL 10.15 AZL 92.85 HCA 57.15 SMA 99.22 ECC .54820 INC 2.8493 V1 29.401
RP 108.93 LAP -2.39 LOP 301.19 VP 33.151 GAP -32.82 AZP 91.55 TAL 171.40 TAP 228.55 RCA 44.83 APO 153.61 V2 34.787
RC 52.748 GL -5.71 GP 1.24 ZAL 70.88 ZAP 21.09 ETS 184.62 ZAE 156.44 ETE 157.02 ZAC 121.60 ETC 18.96 CLP 21.05

PLANETOCENTRIC CONIC

C3 100.031 VHL 10.002 DLA -2.59 RAL 171.59 RAD 6569.9 VEL 14.879 PTH 2.69 VHP 19.300 DPA 18.21 RAP 146.07 ECC 2.6463

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 55 6	2524.83	-25.69	62.12	59.61	102.34	7 37 11	1924.8	-23.73	54.00
90.00	18 14 46	5329.19	27.52	242.45	62.03	83.07	19 43 35	4729.2	26.28	234.00
100.00	8 15 14	2266.32	-27.15	42.75	59.24	103.01	8 53 0	1666.3	-25.09	34.55
100.00	19 37 19	5062.93	29.01	222.65	61.82	82.46	21 1 42	4462.9	27.67	214.11
110.00	9 20 43	2061.34	-31.11	26.06	58.11	104.93	9 55 4	1461.3	-28.75	17.65
110.00	20 48 20	4840.68	33.05	205.08	61.12	80.74	22 9 0	4240.7	31.42	196.24

DIFFERENTIAL CORRECTIONS
TDE .5764 TRA-1.3817 TC3 -.0998 BAU .1430
RDE -.6975 RRA -.3645 RC3 .0384 FAU .01533
FDE -.3539 FRA .5854 FC3 -.1327 BSP 2392
BDE .9048 BRA 1.4290 BC3 .1069 FSP -89

MID-COURSE EXECUTION ACCURACY
SGT 881.3 SGR 457.4 SG3 40.9
RRT .0456 RRF -.0441 RTF -.6709
SGB 992.9 R23 -.0023 R13 -.6710
SG1 881.6 SG2 456.8 THA 1.85

ORBIT DETERMINATION ACCURACY
ST 406.9 SR 404.5 SS 377.7
CRT -.7112 CRS -.8150 CST .9855
LSA 647.8 MSA 227.9 SSA 14.4
EL1 530.7 EL2 218.0 ALF 135.24

LAUNCH DATE MAY 26 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 10 1967

HELIOCENTRIC CONIC DISTANCE 162.052

RL 151.54 LAL .00 LOL 244.08 VL 20.871 GAL 9.70 AZL 92.90 HCA 60.31 SMA 100.85 ECC .52329 INC 2.9039 V1 29.401
RP 108.94 LAP -2.52 LOP 304.35 VP 33.475 GAP -31.25 AZP 91.44 TAL 170.92 TAP 231.22 RCA 48.08 APO 153.63 V2 34.786
RC 51.183 GL -6.32 GP 1.29 ZAL 70.20 ZAP 19.57 ETS 184.93 ZAE 157.75 ETE 154.06 ZAC 120.01 ETC 18.57 CLP 19.53

PLANETOCENTRIC CONIC

C3 89.755 VHL 9.474 DLA -3.42 RAL 171.99 RAD 6569.8 VEL 14.529 PTH 2.64 VHP 18.461 DPA 17.74 RAP 147.73 ECC 2.4771

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 2 55	2475.36	-24.92	58.70	57.94	103.89	7 44 10	1875.4	-22.77	50.69
90.00	18 10 11	5331.48	27.54	242.61	61.06	83.15	19 39 2	4731.5	26.31	234.16
100.00	8 22 39	2218.12	-26.37	39.38	57.53	104.62	8 59 38	1618.1	-24.10	31.31
100.00	19 33 7	5063.96	29.02	222.72	60.85	82.50	20 57 31	4464.0	27.68	214.18
110.00	9 27 14	2016.95	-30.27	22.79	56.29	106.69	10 0 50	1415.9	-27.69	14.55
110.00	20 45 2	4838.89	33.03	204.95	60.15	80.66	22 5 41	4238.9	31.39	196.11

DIFFERENTIAL CORRECTIONS
TDE .5770 TRA-1.3720 TC3 -.0992 BAU .1302
RDE -.6628 RRA -.3481 RC3 .0439 FAU .01573
FDE -.3714 FRA .6027 FC3 -.1518 BSP 2553
BDE .8788 BRA 1.4155 BC3 .1085 FSP -99

MID-COURSE EXECUTION ACCURACY
SGT 920.9 SGR 460.5 SG3 44.6
RRT .0466 RRF -.0458 RTF -.6897
SGB 1029.6 R23 -.0030 R13 -.6898
SG1 921.2 SG2 459.8 THA 1.78

ORBIT DETERMINATION ACCURACY
ST 428.9 SR 405.8 SS 398.8
CRT -.7130 CRS -.8188 CST .9850
LSA 673.8 MSA 231.3 SSA 14.6
EL1 546.6 EL2 223.3 ALF 137.22

LAUNCH DATE MAY 26 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 12 1967

HELIOCENTRIC CONIC DISTANCE 168.387

RL	151.54	LAL	.00	LOL	244.08	VL	21.361	GAL	9.26	AZL	92.96	HCA	63.47	SMA	102.46	ECC	.49935	INC	2.9552
RP	108.94	LAP	-2.64	LOP	307.52	VP	33.781	GAP	-29.76	AZP	91.32	TAL	170.46	TAP	233.93	RCA	51.30	APO	153.63
RC	49.723	GL	-6.95	GP	1.34	ZAL	69.61	ZAP	18.07	ETS	185.33	ZAE	159.14	ETE	150.52	ZAC	118.42	ETC	18.20

V1	29.401	V2	34.784	CLP	18.02														

PLANETOCENTRIC CONIC

C3	80.589	VHL	8.977	DLA	-4.25	RAL	172.31	RAD	6569.6	VEL	14.210	PTH	2.59	VHP	17.652	DPA	17.26	RAP	149.38
ECC	2.3263																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 10 25	2425.14	-24.06	55.28	56.19	105.40	7 50 50	1825.1	-21.71	47.39
90.00	18 5 12	5333.23	27.56	242.74	59.94	83.21	19 34 6	4733.2	26.33	234.28
100.00	8 29 46	2169.17	-25.48	36.01	55.75	106.18	9 5 55	1569.2	-23.02	28.08
100.00	19 28 35	5064.43	29.03	222.76	59.74	82.52	20 52 57	4464.4	27.69	214.21
110.00	9 33 27	1969.83	-29.33	19.53	54.40	108.41	10 6 17	1369.8	-26.53	11.46
110.00	20 41 22	4836.53	33.01	204.77	59.04	80.55	22 1 58	4236.5	31.35	195.93

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.5757	TRA	-1.3635	TC3	-.0979	BAU	.1185	SGT	963.0	SGR	462.9	SG3	48.6	ST	451.2	SR	406.4	SS	420.9
RDE	-.6289	RRA	-.3317	RC3	.0501	FAU	.01617	RRT	.0492	RRF	-.0479	RTF	-.7067	CRT	-.7135	CRS	-.8224	CST	.9841
FDE	-.3898	FRA	.6203	FC3	-.1737	BSP	2669	SGB	1068.5	R23	-.0028	R13	-.7068	LSA	700.5	MSA	234.6	SSA	14.8
BDE	.8526	BRA	1.4033	BC3	.1100	FSP	-109	SG1	963.4	SG2	462.1	THA	1.76	EL1	562.7	EL2	228.3	ALF	139.18

LAUNCH DATE MAY 26 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 14 1967

HELIOCENTRIC CONIC DISTANCE 174.779

RL	151.54	LAL	.00	LOL	244.08	VL	21.818	GAL	8.82	AZL	93.00	HCA	66.63	SMA	104.05	ECC	.47640	INC	3.0038
RP	108.94	LAP	-2.76	LOP	310.68	VP	34.071	GAP	-28.33	AZP	91.19	TAL	170.05	TAP	236.68	RCA	54.48	APO	153.61
RC	48.377	GL	-7.63	GP	1.40	ZAL	69.10	ZAP	16.58	ETS	185.83	ZAE	160.59	ETE	146.25	ZAC	116.82	ETC	17.84

V1	29.401	V2	34.784	CLP	16.52														

PLANETOCENTRIC CONIC

C3	72.411	VHL	8.509	DLA	-5.08	RAL	172.54	RAD	6569.4	VEL	13.920	PTH	2.54	VHP	16.873	DPA	16.77	RAP	151.04
ECC	2.1917																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 17 38	2374.21	-23.09	51.85	54.36	106.86	7 57 12	1774.2	-20.57	44.09
90.00	17 59 50	5334.59	27.57	242.83	58.70	83.26	19 28 44	4734.6	26.35	234.38
100.00	8 36 34	2119.53	-24.50	32.65	53.88	107.69	9 11 54	1519.5	-21.85	24.86
100.00	19 23 34	5064.50	29.03	222.76	58.49	82.52	20 47 59	4464.5	27.69	214.22
110.00	9 39 20	1923.07	-28.28	16.30	52.44	110.06	10 11 23	1323.1	-25.28	8.40
110.00	20 37 18	4833.73	32.97	204.55	57.80	80.43	21 57 52	4233.7	31.30	195.73

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.5769	TRA	-1.3518	TC3	-.0937	BAU	.1062	SGT	1005.6	SGR	464.5	SG3	53.0	ST	475.5	SR	406.1	SS	444.3
RDE	-.5957	RRA	-.3154	RC3	.0570	FAU	.01667	RRT	.0504	RRF	-.0499	RTF	-.7240	CRT	-.7160	CRS	-.8265	CST	.9836
FDE	-.4095	FRA	.6377	FC3	-.1993	BSP	2836	SGB	1107.7	R23	-.0035	R13	-.7241	LSA	729.5	MSA	236.7	SSA	15.0
BDE	.8292	BRA	1.3881	BC3	.1097	FSP	-121	SG1	1006.0	SG2	463.7	THA	1.69	EL1	580.6	EL2	232.2	ALF	141.23

LAUNCH DATE MAY 26 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 16 1967

HELIOCENTRIC CONIC DISTANCE 181.222

RL	151.54	LAL	.00	LOL	244.08	VL	22.243	GAL	8.38	AZL	93.05	HCA	69.79	SMA	105.60	ECC	.45446	INC	3.0501
RP	108.94	LAP	-2.86	LOP	313.84	VP	34.345	GAP	-26.97	AZP	91.05	TAL	169.67	TAP	239.46	RCA	57.61	APO	153.58
RC	47.155	GL	-8.34	GP	1.46	ZAL	68.68	ZAP	15.09	ETS	186.46	ZAE	162.04	ETE	141.03	ZAC	115.21	ETC	17.50

V1	29.401	V2	34.784	CLP	15.02														

PLANETOCENTRIC CONIC

C3	65.115	VHL	8.069	DLA	-5.92	RAL	172.68	RAD	6569.2	VEL	13.655	PTH	2.50	VHP	16.123	DPA	16.28	RAP	152.70
ECC	2.0716																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 24 32	2322.64	-22.04	48.44	52.47	108.25	8 3 15	1722.6	-19.34	40.81
90.00	17 54 1	5335.74	27.58	242.92	57.33	83.30	19 22 57	4735.7	26.36	234.46
100.00	8 43 4	2069.28	-23.42	29.31	51.96	109.13	9 17 34	1469.3	-20.59	21.65
100.00	19 18 10	5064.33	29.02	222.75	57.13	82.51	20 42 34	4464.3	27.68	214.21
110.00	9 44 54	1875.74	-27.13	13.10	50.44	111.64	10 16 9	1275.7	-23.95	5.38
110.00	20 32 50	4830.64	32.94	204.32	56.44	80.30	21 53 21	4230.6	31.25	195.50

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.5785	TRA	-1.3388	TC3	-.0871	BAU	.0944	SGT	1049.7	SGR	465.3	SG3	57.9	ST	501.0	SR	405.0	SS	468.9
RDE	-.5632	RRA	-.2993	RC3	.0647	FAU	.01722	RRT	.0518	RRF	-.0520	RTF	-.7405	CRT	-.7191	CRS	-.8307	CST	.9831
FDE	-.4307	FRA	.6551	FC3	-.2289	BSP	3004	SGB	1148.2	R23	-.0043	R13	-.7406	LSA	760.3	MSA	238.1	SSA	15.2
BDE	.8074	BRA	1.3718	BC3	.1084	FSP	-134	SG1	1050.0	SG2	464.5	THA	1.63	EL1	599.8	EL2	235.1	ALF	143.29

LAUNCH DATE MAY 26 1967 FLIGHT TIME 84.00 ARRIVAL DATE AUG 18 1967

HELIOCENTRIC CONIC DISTANCE 187.711

RL	151.54	LAL	.00	LOL	244.08	VL	22.638	GAL	7.95	AZL	93.09	HCA	72.95	SMA	107.11	ECC	.43352	INC	3.0945
RP	108.94	LAP	-2.96	LOP	317.01	VP	34.604	GAP	-25.67	AZP	90.91	TAL	169.34	TAP	242.29	RCA	60.67	APO	153.54
RC	46.068	GL	-9.10	GP	1.53	ZAL	68.35	ZAP	13.61	ETS	187.27	ZAE	163.43	ETE	134.62	ZAC	113.59	ETC	17.18

V1	29.401	V2	34.785	CLP	13.53														

PLANETOCENTRIC CONIC

C3	58.607	VHL	7.655	DLA	-6.76	RAL	172.72	RAD	6569.1	VEL	13.415	PTH	2.45	VHP	15.400	DPA	15.77	RAP	154.35
ECC	1.9645																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 31 10	2270.51	-20.89	45.06	50.52	109.57	8 9 0	1670.5	-18.03	37.55
90.00	17 47 45	5336.85	27.58	243.00	55.85	83.34	19 16 42	4736.9	26.37	234.54
100.00	8 49 16	2018.51	-22.25	25.99	49.99	110.50	9 22 55	1418.5	-19.26	18.47
100.00	19 12 19	5064.09	29.02	222.73	55.64	82.50	20 36 43	4464.1	27.68	214.19
110.00	9 50 8	1827.94	-25.89	9.93	48.39	113.14	10 20 36	1227.9	-22.53	2.39
110.00	20 27 57	4827.42	32.90	204.08	54.95	80.16	21 48 24	4227.4	31.19	195.27

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.5808	TRA	-1.3241	TC3	-.0773	BAU	.0834	SGT	1094.9	SGR	465.3	SG3	63.2	ST	527.8	SR	403.0	SS	495.1
RDE	-.5316	RRA	-.2835	RC3	.0731	FAU	.01783	RRT	.0531	RRF	-.0542	RTF	-.7564	CRT	-.7229	CRS	-.8352	CST	.9827
FDE	-.4535	FRA	.6726	FC3	-.2634	BSP	3188	SGB	1189.7	R23	-.0053	R13	-.7565	LSA	793.1	MSA	238.6	SSA	15.4
BDE	.7874	BRA	1.3541	BC3	.1064	FSP	-149	SG1	1095.3	SG2	464.5	THA	1.58	EL1	620.4	EL2	236.9	ALF	145.35

LAUNCH DATE MAY 26 1967 FLIGHT TIME 86.00 ARRIVAL DATE AUG 20 1967

DISTANCE 194.242

HELIOCENTRIC CONIC
RL 151.54 LAL .00 LOL 244.08 VL 23.006 GAL 7.54 AZL 93.14 HCA 76.11 SMA 108.58 ECC .41358 INC 3.1375 V1 29.401
RP 108.93 LAP -3.05 LOP 320.17 VP 34.847 GAP -24.43 AZP 90.75 TAL 169.05 TAP 245.16 RCA 63.67 APO 153.49 V2 34.787
RC 45.125 GL -9.89 GP 1.61 ZAL 68.11 ZAP 12.13 ETS 188.34 ZAE 164.70 ETE 126.77 ZAC 111.97 ETC 16.88 CLP 12.03

PLANETOCENTRIC CONIC
C3 52.804 VHL 7.267 DLA -7.61 RAL 172.67 RAD 6568.9 VEL 13.197 PTH 2.41 VHP 14.703 DPA 15.27 RAP 155.99 ECC 1.8690

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 37 30	2217.91	-19.65	41.69	48.53	110.81	8 14 28	1617.9	-16.64	34.31
90.00	17 41 1	5338.11	27.59	243.09	54.25	83.38	19 9 59	4738.1	26.39	234.63
100.00	8 55 11	1967.30	-20.99	22.71	47.97	111.79	9 27 58	1367.3	-17.85	15.32
100.00	19 6 0	5063.96	29.02	222.73	54.05	82.50	20 30 24	4464.0	27.68	214.18
110.00	9 55 4	1779.77	-24.56	6.82	46.31	114.56	10 24 44	1179.8	-21.04	359.44
110.00	20 22 36	4824.25	32.86	203.84	53.36	80.02	21 43 1	4224.2	31.14	195.04

DIFFERENTIAL CORRECTIONS
TDE .5835 TRA-1.3080 TC3 -.0643 BAU .0738
RDE -.5008 RRA -.2681 RC3 .0824 FAU .01851
FDE -.4782 FRA .6901 FC3 -.3035 BSP 3369
BDE .7689 BRA 1.3352 BC3 .1045 FSP -165

MID-COURSE EXECUTION ACCURACY
SGT 1141.5 SGR 464.5 SG3 69.0
RRT .0547 RRF -.0567 RTF -.7715
SGB 1232.4 R23 -.0061 R13 -.7716
SG1 1141.9 SG2 463.6 THA 1.53

ORBIT DETERMINATION ACCURACY
ST 556.0 SR 400.0 SS 523.0
CRT -.7271 CRS -.8398 CST .9824
LSA 828.0 MSA 238.5 SSA 15.6
EL1 642.4 EL2 237.7 ALF 147.38

LAUNCH DATE MAY 26 1967 FLIGHT TIME 88.00 ARRIVAL DATE AUG 22 1967

DISTANCE 200.810

HELIOCENTRIC CONIC
RL 151.54 LAL .00 LOL 244.08 VL 23.348 GAL 7.13 AZL 93.18 HCA 79.27 SMA 110.01 ECC .39464 INC 3.1793 V1 29.401
RP 108.93 LAP -3.12 LOP 323.34 VP 35.077 GAP -23.24 AZP 90.59 TAL 168.80 TAP 248.07 RCA 66.59 APO 153.42 V2 34.790
RC 44.335 GL -10.73 GP 1.69 ZAL 67.97 ZAP 10.66 ETS 189.77 ZAE 165.71 ETE 117.33 ZAC 110.36 ETC 16.59 CLP 10.52

PLANETOCENTRIC CONIC
C3 47.633 VHL 6.902 DLA -8.46 RAL 172.52 RAD 6568.8 VEL 13.000 PTH 2.37 VHP 14.031 DPA 14.76 RAP 157.63 ECC 1.7839

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 43 34	2164.94	-18.33	38.36	46.50	111.97	8 19 38	1564.9	-15.19	31.09
90.00	17 33 46	5339.73	27.61	243.20	52.56	83.44	19 2 46	4739.7	26.41	234.74
100.00	9 0 48	1915.76	-19.65	19.46	45.92	112.99	9 32 44	1315.8	-16.37	12.21
100.00	18 59 12	5064.14	29.02	222.74	52.36	82.51	20 23 37	4464.1	27.68	214.19
110.00	9 59 41	1731.36	-23.16	3.76	44.21	115.87	10 28 33	1131.4	-19.49	356.55
110.00	20 16 48	4821.30	32.83	203.61	51.67	79.89	21 37 10	4221.3	31.09	194.82

DIFFERENTIAL CORRECTIONS
TDE .5846 TRA-1.2931 TC3 -.0495 BAU .0669
RDE -.4708 RRA -.2530 RC3 .0926 FAU .01924
FDE -.5046 FRA .7084 FC3 -.3497 BSP 3498
BDE .7506 BRA 1.3176 BC3 .1050 FSP -183

MID-COURSE EXECUTION ACCURACY
SGT 1190.9 SGR 462.8 SG3 75.4
RRT .0581 RRF -.0599 RTF -.7846
SGB 1277.6 R23 -.0063 R13 -.7847
SG1 1191.2 SG2 461.9 THA 1.52

ORBIT DETERMINATION ACCURACY
ST 584.4 SR 396.1 SS 552.2
CRT -.7300 CRS -.8443 CST .9817
LSA 863.9 MSA 238.2 SSA 15.8
EL1 664.6 EL2 238.0 ALF 149.33

LAUNCH DATE MAY 26 1967 FLIGHT TIME 90.00 ARRIVAL DATE AUG 24 1967

DISTANCE 207.411

HELIOCENTRIC CONIC
RL 151.54 LAL .00 LOL 244.08 VL 23.666 GAL 6.73 AZL 93.22 HCA 82.44 SMA 111.39 ECC .37668 INC 3.2203 V1 29.401
RP 108.92 LAP -3.19 LOP 326.50 VP 35.292 GAP -22.09 AZP 90.42 TAL 168.60 TAP 251.04 RCA 69.43 APO 153.35 V2 34.793
RC 43.707 GL -11.61 GP 1.78 ZAL 67.92 ZAP 9.18 ETS 191.75 ZAE 166.35 ETE 106.41 ZAC 108.75 ETC 16.32 CLP 9.01

PLANETOCENTRIC CONIC
C3 43.028 VHL 6.560 DLA -9.32 RAL 172.27 RAD 6568.6 VEL 12.822 PTH 2.33 VHP 13.382 DPA 14.25 RAP 159.25 ECC 1.7081

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 49 21	2111.71	-16.95	35.07	44.43	113.03	8 24 33	1511.7	-13.68	27.91
90.00	17 25 59	5341.88	27.62	243.36	50.77	83.51	18 55 1	4741.9	26.44	234.89
100.00	9 6 8	1864.00	-18.24	16.27	43.84	114.10	9 37 12	1264.0	-14.84	9.13
100.00	18 51 54	5064.81	29.03	222.79	50.58	82.53	20 16 19	4464.8	27.69	214.24
110.00	10 4 0	1682.83	-21.68	.76	42.09	117.10	10 32 2	1082.8	-17.88	353.70
110.00	20 10 32	4818.75	32.80	203.42	49.89	79.78	21 30 50	4218.8	31.04	194.64

DIFFERENTIAL CORRECTIONS
TDE .5885 TRA-1.2742 TC3 -.0284 BAU .0619
RDE -.4418 RRA -.2384 RC3 .1038 FAU .02008
FDE -.5339 FRA .7262 FC3 -.4041 BSP 3680
BDE .7359 BRA 1.2963 BC3 .1076 FSP -203

MID-COURSE EXECUTION ACCURACY
SGT 1240.0 SGR 460.4 SG3 82.5
RRT .0605 RRF -.0633 RTF -.7981
SGB 1322.8 R23 -.0074 R13 -.7982
SG1 1240.4 SG2 459.4 THA 1.49

ORBIT DETERMINATION ACCURACY
ST 615.4 SR 391.1 SS 583.8
CRT -.7353 CRS -.8493 CST .9815
LSA 903.5 MSA 236.5 SSA 16.0
EL1 689.7 EL2 236.5 ALF 151.27

LAUNCH DATE MAY 26 1967 FLIGHT TIME 92.00 ARRIVAL DATE AUG 26 1967

DISTANCE 214.040

HELIOCENTRIC CONIC
RL 151.54 LAL .00 LOL 244.08 VL 23.962 GAL 6.35 AZL 93.26 HCA 85.60 SMA 112.72 ECC .35969 INC 3.2606 V1 29.401
RP 108.90 LAP -3.25 LOP 329.67 VP 35.495 GAP -21.00 AZP 90.25 TAL 168.45 TAP 254.04 RCA 72.18 APO 153.26 V2 34.797
RC 43.245 GL -12.54 GP 1.89 ZAL 67.97 ZAP 7.72 ETS 194.61 ZAE 166.51 ETE 94.57 ZAC 107.14 ETC 16.06 CLP 7.48

PLANETOCENTRIC CONIC
C3 38.930 VHL 6.239 DLA -10.18 RAL 171.93 RAD 6568.5 VEL 12.661 PTH 2.30 VHP 12.758 DPA 13.74 RAP 160.86 ECC 1.6407

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 54 53	2058.31	-15.50	31.82	42.35	114.00	8 29 12	1458.3	-12.12	24.77
90.00	17 17 40	5344.77	27.65	243.57	48.91	83.62	18 46 45	4744.8	26.47	235.10
100.00	9 11 11	1812.14	-16.77	13.12	41.74	115.11	9 41 24	1212.1	-13.25	6.10
100.00	18 44 3	5066.16	29.04	222.89	48.72	82.58	20 8 30	4466.2	27.71	214.34
110.00	10 7 59	1634.29	-20.15	357.83	39.96	118.21	10 35 13	1034.3	-16.22	350.91
110.00	20 3 45	4816.78	32.78	203.27	48.04	79.70	21 24 2	4216.8	31.01	194.50

DIFFERENTIAL CORRECTIONS
TDE .5932 TRA-1.2536 TC3 -.0026 BAU .0603
RDE -.4137 RRA -.2242 RC3 .1158 FAU .02101
FDE -.5661 FRA .7444 FC3 -.4672 BSP 3867
BDE .7232 BRA 1.2735 BC3 .1159 FSP -225

MID-COURSE EXECUTION ACCURACY
SGT 1290.2 SGR 457.1 SG3 90.3
RRT .0632 RRF -.0672 RTF -.8109
SGB 1368.7 R23 -.0086 R13 -.8110
SG1 1290.5 SG2 456.1 THA 1.47

ORBIT DETERMINATION ACCURACY
ST 647.9 SR 385.0 SS 617.5
CRT -.7411 CRS -.8543 CST .9813
LSA 945.7 MSA 234.1 SSA 16.1
EL1 716.5 EL2 233.7 ALF 153.15

LAUNCH DATE MAY 26 1967 FLIGHT TIME 94.00 ARRIVAL DATE AUG 28 1967

HELIOCENTRIC CONIC DISTANCE 220.692

RL	151.54	LAL	.00	LOL	244.08	VL	24.236	GAL	5.98	AZL	93.30	HCA	88.76	SMA	114.00	ECC	.34364	INC	3.3007	V1	29.401
RP	108.89	LAP	-3.30	LOP	332.84	VP	35.685	GAP	-19.94	AZP	90.07	TAL	168.34	TAP	257.10	RCA	74.83	APO	153.18	V2	34.801
RC	42.956	GL	-13.51	GP	2.00	ZAL	68.11	ZAP	6.27	ETS	198.96	ZAE	166.14	ETE	82.73	ZAC	105.55	ETC	15.81	CLP	5.94

PLANETOCENTRIC CONIC

C3	35.289	VHL	5.940	DLA	-11.04	RAL	171.48	RAD	6568.4	VEL	12.516	PTH	2.27	VHP	12.155	DPA	13.25	RAP	162.45	ECC	1.5808

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 0 11	2004.86	-13.99	28.62	40.25	114.87	8 33 36	1404.9	-10.52	21.66
90.00	17 8 47	5348.59	27.67	243.84	46.97	83.75	18 37 56	4748.6	26.52	235.37
100.00	9 15 59	1760.30	-15.25	10.02	39.63	116.03	9 45 19	1160.3	-11.63	3.10
100.00	18 35 40	5068.38	29.06	223.05	46.79	82.67	20 0 9	4468.4	27.74	214.49
110.00	10 11 40	1585.90	-18.57	354.97	37.82	119.23	10 38 6	985.9	-14.53	348.18
110.00	19 56 28	4815.55	32.76	203.18	46.12	79.64	21 16 44	4215.5	30.99	194.41

DIFFERENTIAL CORRECTIONS

TDE	.5986	TRA	-1.2316	TC3	.0289	BAU	.0623
RDE	-.3864	RRA	-.2106	RC3	.1289	FAU	.02204
FDE	-.6016	FRA	.7629	FC3	-.5408	BSP	4054
BDE	.7125	BRA	1.2495	BC3	.1321	FSP	-249

MID-COURSE EXECUTION ACCURACY

SGT	1341.4	SGR	453.0	SG3	98.9		
RRT	.0668	RRF	-.0719	RTF	-.8231		
SGB	1415.8	R23	-.0099	R13	-.8232		
SG1	1341.8	SG2	451.8	THA	1.46		

ORBIT DETERMINATION ACCURACY

ST	682.1	SR	377.9	SS	653.8		
CRT	-.7474	CRS	-.8595	CST	.9813		
LSA	990.9	MSA	230.9	SSA	16.3		
EL1	745.1	EL2	229.8	ALF	154.96		

LAUNCH DATE MAY 26 1967 FLIGHT TIME 96.00 ARRIVAL DATE AUG 30 1967

HELIOCENTRIC CONIC DISTANCE 227.365

RL	151.54	LAL	.00	LOL	244.08	VL	24.491	GAL	5.62	AZL	93.34	HCA	91.93	SMA	115.23	ECC	.32852	INC	3.3406	V1	29.401
RP	108.87	LAP	-3.34	LOP	336.01	VP	35.864	GAP	-18.93	AZP	89.89	TAL	168.28	TAP	260.21	RCA	77.37	APO	153.08	V2	34.806
RC	42.841	GL	-14.53	GP	2.12	ZAL	68.36	ZAP	4.87	ETS	206.14	ZAE	165.26	ETE	71.84	ZAC	103.97	ETC	15.58	CLP	4.38

PLANETOCENTRIC CONIC

C3	32.058	VHL	5.662	DLA	-11.92	RAL	170.92	RAD	6568.3	VEL	12.387	PTH	2.24	VHP	11.574	DPA	12.76	RAP	164.03	ECC	1.5276

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 5 14	1951.46	-12.44	25.47	38.14	115.64	8 37 46	1351.5	-8.89	18.59
90.00	16 59 19	5353.54	27.71	244.20	44.98	83.93	18 28 33	4753.5	26.58	235.72
100.00	9 20 31	1708.59	-13.68	6.98	37.51	116.84	9 49 0	1108.6	-9.97	.16
100.00	18 26 44	5071.64	29.09	223.29	44.80	82.79	19 51 15	4471.6	27.78	214.73
110.00	10 15 4	1537.77	-16.94	352.19	35.68	120.14	10 40 41	937.8	-12.81	345.51
110.00	19 48 40	4815.23	32.76	203.15	44.14	79.63	21 8 56	4215.2	30.98	194.38

DIFFERENTIAL CORRECTIONS

TDE	.6051	TRA	-1.2078	TC3	.0664	BAU	.0675
RDE	-.3601	RRA	-.1976	RC3	.1429	FAU	.02320
FDE	-.6410	FRA	.7815	FC3	-.6266	BSP	4251
BDE	.7041	BRA	1.2239	BC3	.1575	FSP	-277

MID-COURSE EXECUTION ACCURACY

SGT	1393.2	SGR	448.0	SG3	108.5		
RRT	.0711	RRF	-.0775	RTF	-.8345		
SGB	1463.4	R23	-.0114	R13	-.8346		
SG1	1393.6	SG2	446.7	THA	1.46		

ORBIT DETERMINATION ACCURACY

ST	717.9	SR	369.5	SS	692.9		
CRT	-.7544	CRS	-.8647	CST	.9813		
LSA	1039.3	MSA	227.1	SSA	16.4		
EL1	775.5	EL2	224.5	ALF	156.71		

LAUNCH DATE MAY 26 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 1 1967

HELIOCENTRIC CONIC DISTANCE 234.053

RL	151.54	LAL	.00	LOL	244.08	VL	24.727	GAL	5.27	AZL	93.38	HCA	95.09	SMA	116.40	ECC	.31431	INC	3.3807	V1	29.401
RP	108.86	LAP	-3.37	LOP	339.18	VP	36.031	GAP	-17.95	AZP	89.70	TAL	168.27	TAP	263.37	RCA	79.82	APO	152.99	V2	34.812
RC	42.900	GL	-15.59	GP	2.26	ZAL	68.69	ZAP	3.60	ETS	219.15	ZAE	163.97	ETE	62.44	ZAC	102.40	ETC	15.36	CLP	2.80

PLANETOCENTRIC CONIC

C3	29.193	VHL	5.403	DLA	-12.79	RAL	170.27	RAD	6568.2	VEL	12.271	PTH	2.21	VHP	11.014	DPA	12.28	RAP	165.58	ECC	1.4805

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 10 4	1898.24	-10.85	22.36	36.03	116.32	8 41 43	1298.2	-7.23	15.56
90.00	16 49 16	5359.78	27.76	244.65	42.93	84.15	18 18 36	4759.8	26.65	236.16
100.00	9 24 48	1657.13	-12.08	4.00	35.39	117.55	9 52 25	1057.1	-8.30	357.25
100.00	18 17 13	5076.12	29.13	223.61	42.76	82.96	19 41 49	4476.1	27.85	215.04
110.00	10 18 9	1490.05	-15.29	349.47	33.54	120.95	10 42 59	890.1	-11.08	342.91
110.00	19 40 21	4815.96	32.77	203.21	42.11	79.66	21 0 37	4216.0	30.99	194.44

DIFFERENTIAL CORRECTIONS

TDE	.6126	TRA	-1.1827	TC3	.1099	BAU	.0751
RDE	-.3346	RRA	-.1852	RC3	.1578	FAU	.02448
FDE	-.6850	FRA	.8007	FC3	-.7260	BSP	4434
BDE	.6980	BRA	1.1971	BC3	.1923	FSP	-308

MID-COURSE EXECUTION ACCURACY

SGT	1445.7	SGR	442.2	SG3	119.1		
RRT	.0763	RRF	-.0843	RTF	-.8452		
SGB	1511.8	R23	-.0132	R13	-.8453		
SG1	1446.1	SG2	440.8	THA	1.47		

ORBIT DETERMINATION ACCURACY

ST	755.5	SR	360.0	SS	734.9		
CRT	-.7617	CRS	-.8699	CST	.9815		
LSA	1091.2	MSA	222.6	SSA	16.6		
EL1	808.0	EL2	218.1	ALF	158.40		

LAUNCH DATE MAY 26 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 3 1967

HELIOCENTRIC CONIC DISTANCE 240.754

RL	151.54	LAL	.00	LOL	244.08	VL	24.945	GAL	4.94	AZL	93.42	HCA	98.26	SMA	117.52	ECC	.30097	INC	3.4212	V1	29.401
RP	108.84	LAP	-3.39	LOP	342.35	VP	36.188	GAP	-17.01	AZP	89.51	TAL	168.31	TAP	266.57	RCA	82.15	APO	152.89	V2	34.819
RC	43.133	GL	-16.69	GP	2.42	ZAL	69.13	ZAP	2.69	ETS	243.97	ZAE	162.40	ETE	54.67	ZAC	100.86	ETC	15.15	CLP	1.19

PLANETOCENTRIC CONIC

C3	26.660	VHL	5.163	DLA	-13.67	RAL	169.51	RAD	6568.1	VEL	12.167	PTH	2.18	VHP	10.475	DPA	11.83	RAP	167.10	ECC	1.4387

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 14 43	1845.29	-9.24	19.31	33.92	116.89	8 45 28	1245.3	-5.56	12.57
90.00	16 38 36	5367.48	27.81	245.21	40.85	84.42	18 8 3	4767.5	26.74	236.71
100.00	9 28 52	1606.04	-10.45	1.08	33.27	118.16	9 55 38	1006.0	-6.61	354.40
100.00	18 7 8	5081.95	29.17	224.04	40.68	83.18	19 31 50	4482.0	27.92	215.46
110.00	10 20 58	1442.87	-13.62	346.84	31.41	121.66	10 45 1	842.9	-9.34	340.36
110.00	19 31 31	4817.89	32.79	203.36	40.05	79.75	20 51 49	4217.9	31.03	194.58

DIFFERENTIAL CORRECTIONS

TDE	.6209	TRA	-1.1559	TC3	.1605	BAU	.0843
RDE	-.3100	RRA	-.1735	RC3	.1737	FAU	.02593
FDE	-.7341	FRA	.8202	FC3	-.8419	BSP	4625
BDE	.6940	BRA	1.1689	BC3	.2365	FSP	-342

MID-COURSE EXECUTION ACCURACY

SGT	1498.3	SGR	435.6	SG3	130.9		
RRT	.0832	RRF	-.0928	RTF	-.8552		
SGB	1560.4	R23	-.0152	R13	-.8553		
SG1	1498.8	SG2	434.0	THA	1.51		

ORBIT DETERMINATION ACCURACY

ST	794.7	SR	349.2	SS	780.3		
CRT	-.7693	CRS	-.8750	CST	.9818		
LSA	1146.6	MSA	217.7	SSA	16.7		
EL1	842.1	EL2	210.5	ALF	160.03		

LAUNCH DATE MAY 26 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 5 1967

DISTANCE 247.464

HELIOCENTRIC CONIC
RL 151.54 LAL .00 LOL 244.08 VL 25.148 GAL 4.62 AZL 93.46 HCA 101.43 SMA 118.59 ECC .28848 INC 3.4624 V1 29.401
RP 108.81 LAP -3.39 LOP 345.53 VP 36.334 GAP -16.11 AZP 89.31 TAL 168.40 TAP 269.82 RCA 84.38 APO 152.80 V2 34.826
RC 43.534 GL -17.84 GP 2.59 ZAL 69.65 ZAP 2.63 ETS 280.11 ZAE 160.65 ETE 48.38 ZAC 99.35 ETC 14.96 CLP -.46

PLANETOCENTRIC CONIC
C3 24.422 VHL 4.942 DLA -14.56 RAL 168.66 RAD 6568.0 VEL 12.075 PTH 2.16 VHP 9.955 DPA 11.40 RAP 168.60 ECC 1.4019

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 19 11	1792.70	-7.60	16.31	31.82	117.36	8 49 3	1192.7	-3.88	9.61
90.00	16 27 20	5376.78	27.87	245.89	38.74	84.76	17 56 56	4776.8	26.85	237.37
100.00	9 32 43	1555.44	-8.81	358.22	31.17	118.68	9 58 38	955.4	-4.92	351.59
100.00	17 56 29	5089.28	29.23	224.58	38.58	83.45	19 21 18	4489.3	28.02	215.98
110.00	10 23 30	1396.35	-11.95	344.28	29.29	122.27	10 46 46	796.4	-7.60	337.88
110.00	19 22 11	4821.12	32.83	203.60	37.96	79.89	20 42 32	4221.1	31.08	194.81

DIFFERENTIAL CORRECTIONS
TDE .6165 TRA-1.1304 TC3 .2077 BAU .0920
ROE -.2861 RRA -.1625 RC3 .1905 FAU .02752
FOE -.7892 FRA .8405 FC3 -.9756 BSP 4703
BOE .6796 BRA 1.1420 BC3 .2819 FSP -381

MID-COURSE EXECUTION ACCURACY
SGT 1544.8 SGR 428.2 SG3 144.1
RRT .0985 RRF -.1037 RTF -.8599
SGB 1603.0 R23 -.0121 R13 -.8601
SG1 1545.4 SG2 425.9 THA 1.69

ORBIT DETERMINATION ACCURACY
ST 822.2 SR 336.8 SS 829.2
CRT -.7703 CRS -.8799 CST .9802
LSA 1195.9 MSA 215.8 SSA 16.8
EL1 864.7 EL2 204.2 ALF 161.41

LAUNCH DATE MAY 26 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 7 1967

DISTANCE 254.180

HELIOCENTRIC CONIC
RL 151.54 LAL .00 LOL 244.08 VL 25.335 GAL 4.32 AZL 93.50 HCA 104.60 SMA 119.59 ECC .27681 INC 3.5046 V1 29.401
RP 108.79 LAP -3.39 LOP 348.70 VP 36.471 GAP -15.23 AZP 89.12 TAL 168.53 TAP 273.12 RCA 86.49 APO 152.70 V2 34.834
RC 44.099 GL -19.02 GP 2.78 ZAL 70.26 ZAP 3.51 ETS 307.62 ZAE 158.83 ETE 43.32 ZAC 97.87 ETC 14.77 CLP -2.14

PLANETOCENTRIC CONIC
C3 22.451 VHL 4.738 DLA -15.44 RAL 167.71 RAD 6567.9 VEL 11.993 PTH 2.14 VHP 9.455 DPA 10.99 RAP 170.07 ECC 1.3695

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 23 29	1740.56	-5.96	13.36	29.73	117.73	8 52 30	1140.6	-2.20	6.70
90.00	16 15 27	5387.82	27.93	246.69	36.61	85.15	17 45 15	4787.8	26.97	238.15
100.00	9 36 22	1505.40	-7.17	355.41	29.07	119.10	10 1 28	905.4	-3.23	348.84
100.00	17 45 15	5098.22	29.30	225.23	36.46	83.79	19 10 14	4498.2	28.13	216.62
110.00	10 25 47	1350.63	-10.27	341.79	27.19	122.78	10 48 18	750.6	-5.88	335.45
110.00	19 12 20	4825.76	32.88	203.95	35.87	80.09	20 32 46	4225.8	31.17	195.15

DIFFERENTIAL CORRECTIONS
TDE .6410 TRA-1.0975 TC3 .2829 BAU .1054
ROE -.2631 RRA -.1522 RC3 .2080 FAU .02933
FOE -.8518 FRA .8609 FC3-1.1311 BSP 5017
BOE .6929 BRA 1.1080 BC3 .3512 FSP -425

MID-COURSE EXECUTION ACCURACY
SGT 1602.6 SGR 420.2 SG3 158.8
RRT .1027 RRF -.1163 RTF -.8737
SGB 1656.8 R23 -.0202 R13 -.8739
SG1 1603.2 SG2 417.8 THA 1.65

ORBIT DETERMINATION ACCURACY
ST 878.4 SR 323.4 SS 882.4
CRT -.7849 CRS +.8846 CST .9828
LSA 1269.6 MSA 206.5 SSA 16.8
EL1 916.1 EL2 192.1 ALF 163.12

LAUNCH DATE MAY 26 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 9 1967

DISTANCE 260.898

HELIOCENTRIC CONIC
RL 151.54 LAL .00 LOL 244.08 VL 25.507 GAL 4.03 AZL 93.55 HCA 107.77 SMA 120.55 ECC .26594 INC 3.5480 V1 29.401
RP 108.76 LAP -3.38 LOP 351.88 VP 36.599 GAP -14.39 AZP 88.92 TAL 168.70 TAP 276.46 RCA 88.49 APO 152.60 V2 34.842
RC 44.820 GL -20.24 GP 3.00 ZAL 70.96 ZAP 4.90 ETS 322.20 ZAE 157.02 ETE 39.26 ZAC 96.42 ETC 14.59 CLP -3.88

PLANETOCENTRIC CONIC
C3 20.719 VHL 4.552 DLA -16.33 RAL 166.67 RAD 6567.8 VEL 11.921 PTH 2.12 VHP 8.973 DPA 10.63 RAP 171.50 ECC 1.3410

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 27 41	1688.94	-4.32	10.46	27.66	118.01	8 55 50	1088.9	-.54	3.82
90.00	16 2 58	5400.73	28.00	247.62	34.47	85.62	17 32 59	4800.7	27.10	239.07
100.00	9 39 52	1456.04	-5.53	352.67	27.00	119.42	10 4 8	856.0	-1.56	346.12
100.00	17 33 29	5108.87	29.38	226.02	34.33	84.20	18 58 38	4508.9	28.26	217.39
110.00	10 27 50	1305.80	-8.61	339.38	25.11	123.21	10 49 36	705.8	-4.18	333.10
110.00	19 2 1	4831.87	32.95	204.41	33.77	80.35	20 22 32	4231.9	31.27	195.59

DIFFERENTIAL CORRECTIONS
TDE .6523 TRA-1.0664 TC3 .3540 BAU .1164
ROE -.2407 RRA -.1427 RC3 .2264 FAU .03135
FOE -.9222 FRA .8824 FC3-1.3101 BSP 5189
BOE .6953 BRA 1.0759 BC3 .4202 FSP -473

MID-COURSE EXECUTION ACCURACY
SGT 1653.6 SGR 411.5 SG3 175.1
RRT .1169 RRF -.1328 RTF -.8819
SGB 1704.0 R23 -.0232 R13 -.8821
SG1 1654.3 SG2 408.5 THA 1.77

ORBIT DETERMINATION ACCURACY
ST 922.1 SR 308.2 SS 939.8
CRT -.7922 CRS -.8886 CST .9833
LSA 1337.1 MSA 200.7 SSA 16.8
EL1 955.2 EL2 181.6 ALF 164.60

LAUNCH DATE MAY 26 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 11 1967

DISTANCE 267.616

HELIOCENTRIC CONIC
RL 151.54 LAL .00 LOL 244.08 VL 25.666 GAL 3.76 AZL 93.59 HCA 110.94 SMA 121.44 ECC .25584 INC 3.5929 V1 29.401
RP 108.74 LAP -3.36 LOP 355.06 VP 36.718 GAP -13.58 AZP 88.71 TAL 168.91 TAP 279.85 RCA 90.37 APO 152.51 V2 34.851
RC 45.690 GL -21.49 GP 3.25 ZAL 71.73 ZAP 6.53 ETS 330.06 ZAE 155.26 ETE 36.00 ZAC 95.02 ETC 14.42 CLP -5.66

PLANETOCENTRIC CONIC
C3 19.202 VHL 4.382 DLA -17.21 RAL 165.55 RAD 6567.8 VEL 11.857 PTH 2.10 VHP 8.510 DPA 10.30 RAP 172.89 ECC 1.3160

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 31 49	1637.88	-2.68	7.60	25.63	118.20	8 59 7	1037.9	1.11	.97
90.00	15 49 54	5415.61	28.08	248.71	32.34	86.16	17 20 10	4815.6	27.25	240.14
100.00	9 43 15	1407.40	-3.89	349.98	24.95	119.66	10 6 42	807.4	.09	343.45
100.00	17 21 10	5121.33	29.46	226.93	32.21	84.67	18 46 31	4521.3	28.41	218.29
110.00	10 29 40	1261.96	-6.97	337.05	23.05	123.55	10 50 42	662.0	-2.51	330.80
110.00	18 51 14	4839.53	33.04	204.99	31.68	80.69	20 11 53	4239.5	31.40	196.15

DIFFERENTIAL CORRECTIONS
TDE .6667 TRA-1.0315 TC3 .4352 BAU .1283
ROE -.2187 RRA -.1341 RC3 .2456 FAU .03366
FOE-1.0034 FRA .9034 FC3-1.5177 BSP 5419
BOE .7017 BRA 1.0402 BC3 .4998 FSP -530

MID-COURSE EXECUTION ACCURACY
SGT 1702.7 SGR 402.3 SG3 193.6
RRT .1341 RRF -.1531 RTF -.8905
SGB 1749.6 R23 -.0270 R13 -.8907
SG1 1703.6 SG2 398.4 THA 1.92

ORBIT DETERMINATION ACCURACY
ST 969.3 SR 291.3 SS 1002.8
CRT -.8001 CRS -.8923 CST .9843
LSA 1411.4 MSA 194.0 SSA 16.7
EL1 997.8 EL2 169.8 ALF 166.07

LAUNCH DATE MAY 26 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 13 1967

HELIOCENTRIC CONIC DISTANCE 274.333

RL 151.54 LAL .00 LOL 244.08 VL 25.812 GAL 3.50 AZL 93.64 HCA 114.11 SMA 122.29 ECC .24647 INC 3.6399 V1 29.401
RP 108.71 LAP -3.32 LOP 358.23 VP 36.830 GAP -12.79 AZP 88.51 TAL 169.16 TAP 283.27 RCA 92.15 APO 152.42 V2 34.860
RC 46.700 GL -22.76 GP 3.53 ZAL 72.56 ZAP 8.30 ETS 334.70 ZAE 153.61 ETE 33.38 ZAC 93.67 ETC 14.26 CLP -7.51

PLANETOCENTRIC CONIC

C3 17.878 VHL 4.228 DLA -18.09 RAL 164.36 RAD 6567.7 VEL 11.801 PTH 2.09 VHP 8.065 DPA 10.03 RAP 174.24 ECC 1.2942

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 35 56	1587.40	-1.05	4.78	23.63	118.30	9 2 23	987.4	2.74	358.15
90.00	15 36 15	5432.59	28.15	249.94	30.23	86.77	17 6 48	4832.6	27.40	241.36
100.00	9 46 32	1359.54	-2.28	347.35	22.95	119.81	10 9 12	759.5	1.71	340.83
100.00	17 8 20	5135.68	29.54	227.99	30.12	85.22	18 33 55	4535.7	28.57	219.32
110.00	10 31 20	1219.19	-5.35	334.79	21.03	123.81	10 51 39	619.2	-.88	328.57
110.00	18 40 1	4848.79	33.14	205.70	29.61	81.09	20 0 50	4248.8	31.55	196.83

DIFFERENTIAL CORRECTIONS
TDE .6795 TRA -.9982 TC3 .5169 BAU .1389
ROE -.1971 RRA -.1262 RC3 .2657 FAU .03621
FDE-1.0944 FRA .9265 FC3-1.7533 BSP 5582
BDE .7075 BRA 1.0062 BC3 .5811 FSP -592

MID-COURSE EXECUTION ACCURACY
SGT 1750.4 SGR 392.7 SG3 214.1
RRT .1575 RRF -.1794 RTF -.8974
SGB 1793.9 R23 -.0312 R13 -.8977
SG1 1751.5 SG2 387.5 THA 2.13

ORBIT DETERMINATION ACCURACY
ST 1015.0 SR 272.6 SS 1070.0
CRT -.8053 CRS -.8945 CST .9849
LSA 1487.9 MSA 188.4 SSA 16.5
EL1 1039.1 EL2 157.9 ALF 167.50

LAUNCH DATE MAY 26 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 15 1967

HELIOCENTRIC CONIC DISTANCE 281.044

RL 151.54 LAL .00 LOL 244.08 VL 25.946 GAL 3.26 AZL 93.69 HCA 117.29 SMA 123.07 ECC .23781 INC 3.6893 V1 29.401
RP 108.68 LAP -3.28 LOP 1.42 VP 36.933 GAP -12.03 AZP 88.31 TAL 169.44 TAP 286.72 RCA 93.81 APO 152.34 V2 34.870
RC 47.841 GL -24.05 GP 3.85 ZAL 73.45 ZAP 10.18 ETS 337.64 ZAE 152.11 ETE 31.30 ZAC 92.37 ETC 14.10 CLP -9.43

PLANETOCENTRIC CONIC

C3 16.729 VHL 4.090 DLA -18.96 RAL 163.10 RAD 6567.7 VEL 11.752 PTH 2.07 VHP 7.637 DPA 9.81 RAP 175.54 ECC 1.2753

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 40 5	1537.46	.56	1.99	21.68	118.31	9 5 43	937.5	4.34	355.35
90.00	15 22 2	5451.78	28.21	251.34	28.14	87.47	16 52 54	4851.8	27.56	242.74
100.00	9 49 49	1312.46	-.68	344.77	20.99	119.89	10 11 41	712.5	3.30	338.24
100.00	16 54 59	5152.01	29.63	229.20	28.05	85.85	18 20 51	4552.0	28.74	220.51
110.00	10 32 52	1177.55	-3.77	332.61	19.06	124.00	10 52 29	577.6	.72	326.40
110.00	18 28 25	4859.69	33.25	206.53	27.58	81.57	19 49 25	4259.7	31.73	197.63

DIFFERENTIAL CORRECTIONS
TDE .6932 TRA -.9635 TC3 .6027 BAU .1493
ROE -.1757 RRA -.1192 RC3 .2867 FAU .03908
FDE-1.1984 FRA .9505 FC3-2.0224 BSP 5744
BDE .7151 BRA .9709 BC3 .6674 FSP -663

MID-COURSE EXECUTION ACCURACY
SGT 1795.2 SGR 383.1 SG3 237.2
RRT .1872 RRF -.2126 RTF -.9039
SGB 1835.7 R23 -.0362 R13 -.9043
SG1 1796.7 SG2 376.0 THA 2.39

ORBIT DETERMINATION ACCURACY
ST 1061.4 SR 251.8 SS 1142.7
CRT -.8088 CRS -.8952 CST .9857
LSA 1569.1 MSA 182.8 SSA 16.3
EL1 1081.1 EL2 145.4 ALF 168.93

LAUNCH DATE MAY 26 1967 FLIGHT TIME 114.00 ARRIVAL DATE SEP 17 1967

HELIOCENTRIC CONIC DISTANCE 287.748

RL 151.54 LAL .00 LOL 244.08 VL 26.069 GAL 3.03 AZL 93.74 HCA 120.47 SMA 123.81 ECC .22983 INC 3.7416 V1 29.401
RP 108.64 LAP -3.22 LOP 4.60 VP 37.029 GAP -11.30 AZP 88.10 TAL 169.74 TAP 290.21 RCA 95.35 APO 152.26 V2 34.881
RC 49.103 GL -25.36 GP 4.22 ZAL 74.38 ZAP 12.17 ETS 339.59 ZAE 150.76 ETE 29.68 ZAC 91.14 ETC 13.95 CLP -11.42

PLANETOCENTRIC CONIC

C3 15.735 VHL 3.967 DLA -19.83 RAL 161.78 RAD 6567.6 VEL 11.710 PTH 2.06 VHP 7.227 DPA 9.67 RAP 176.78 ECC 1.2590

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 44 23	1487.99	2.16	359.23	19.79	118.24	9 9 11	888.0	5.91	352.57
90.00	15 7 14	5473.35	28.27	252.92	26.10	88.26	16 38 27	4873.4	27.73	244.30
100.00	9 53 8	1266.13	.89	342.23	19.08	119.88	10 14 14	666.1	4.86	335.69
100.00	16 41 10	5170.44	29.71	230.56	26.02	86.57	18 7 21	4570.4	28.92	221.85
110.00	10 34 19	1137.06	-2.23	330.49	17.13	124.12	10 53 16	537.1	2.26	324.29
110.00	18 16 28	4872.28	33.37	207.49	25.60	82.13	19 37 40	4272.3	31.92	198.56

DIFFERENTIAL CORRECTIONS
TDE .7071 TRA -.9280 TC3 .6891 BAU .1589
ROE -.1540 RRA -.1132 RC3 .3089 FAU .04230
FDE-1.3174 FRA .9757 FC3-2.3272 BSP 5893
BDE .7237 BRA .9348 BC3 .7552 FSP -742

MID-COURSE EXECUTION ACCURACY
SGT 1836.3 SGR 373.8 SG3 263.1
RRT .2249 RRF -.2543 RTF -.9097
SGB 1874.0 R23 -.0424 R13 -.9102
SG1 1838.3 SG2 363.9 THA 2.73

ORBIT DETERMINATION ACCURACY
ST 1107.3 SR 228.6 SS 1221.3
CRT -.8091 CRS -.8934 CST .9864
LSA 1654.7 MSA 177.7 SSA 16.0
EL1 1122.8 EL2 132.5 ALF 170.38

LAUNCH DATE MAY 26 1967 FLIGHT TIME 116.00 ARRIVAL DATE SEP 19 1967

HELIOCENTRIC CONIC DISTANCE 294.444

RL 151.54 LAL .00 LOL 244.08 VL 26.182 GAL 2.81 AZL 93.80 HCA 123.64 SMA 124.49 ECC .22249 INC 3.7975 V1 29.401
RP 108.61 LAP -3.16 LOP 7.78 VP 37.119 GAP -10.59 AZP 87.89 TAL 170.07 TAP 293.72 RCA 96.79 APO 152.19 V2 34.891
RC 50.476 GL -26.67 GP 4.64 ZAL 75.34 ZAP 14.27 ETS 340.91 ZAE 149.60 ETE 28.46 ZAC 89.98 ETC 13.80 CLP -13.51

PLANETOCENTRIC CONIC

C3 14.884 VHL 3.858 DLA -20.69 RAL 160.42 RAD 6567.6 VEL 11.673 PTH 2.05 VHP 6.834 DPA 9.61 RAP 177.96 ECC 1.2450

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 48 55	1438.81	3.74	356.49	17.97	118.09	9 12 54	838.8	7.46	349.79
90.00	14 51 51	5497.51	28.31	254.69	24.11	89.15	16 23 28	4897.5	27.89	246.05
100.00	9 56 34	1220.46	2.44	339.72	17.25	119.80	10 16 55	620.5	6.39	333.16
100.00	16 26 52	5191.09	29.79	232.09	24.06	87.37	17 53 23	4591.1	29.10	223.35
110.00	10 35 45	1097.69	-.72	328.44	15.27	124.18	10 54 2	497.7	3.77	322.23
110.00	18 4 11	4886.63	33.50	208.59	23.68	82.77	19 25 38	4286.6	32.14	199.63

DIFFERENTIAL CORRECTIONS
TDE .7212 TRA -.8914 TC3 .7763 BAU .1681
ROE -.1319 RRA -.1081 RC3 .3326 FAU .04595
FDE-1.4539 FRA 1.0020 FC3-2.6725 BSP 6033
BDE .7331 BRA .8979 BC3 .8446 FSP -832

MID-COURSE EXECUTION ACCURACY
SGT 1873.1 SGR 365.6 SG3 292.3
RRT .2727 RRF -.3065 RTF -.9151
SGB 1908.4 R23 -.0498 R13 -.9157
SG1 1875.8 SG2 351.2 THA 3.16

ORBIT DETERMINATION ACCURACY
ST 1152.3 SR 202.7 SS 1306.3
CRT -.8042 CRS -.8875 CST .9872
LSA 1745.0 MSA 173.0 SSA 15.7
EL1 1163.8 EL2 119.3 ALF 171.86

LAUNCH DATE MAY 26 1967 FLIGHT TIME 118.00 ARRIVAL DATE SEP 21 1967

HELIOCENTRIC CONIC DISTANCE 301.130

```
RL  151.54 LAL    .00 LOL 244.08 VL  26.285 GAL   2.61 AZL  93.86 HCA 126.83 SMA 125.12 ECC .21577 INC 3.8577 V1  29.401
RP  108.58 LAP  -3.09 LOP  10.97 VP  37.202 GAP  -9.90 AZP  87.69 TAL 170.42 TAP 297.24 RCA  98.13 APO 152.12 V2  34.903
RC  51.950 GL  -28.00 GP    5.13 ZAL  76.33 ZAP  16.50 ETS 341.82 ZAE 148.64 ETE  27.62 ZAC  88.90 ETC  13.66 CLP -15.70
```

PLANETOCENTRIC CONIC

```
C3  14.161 VHL  3.763 DLA -21.55 RAL 159.03 RAD 6567.6 VEL 11.642 PTH   2.04 VHP  6.459 DPA   9.66 RAP 179.08 ECC 1.2331
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 53 50	1389.66	5.31	353.73	16.24	117.86	9 16 59	789.7	8.99	346.99
90.00	14 35 49	5524.55	28.32	256.66	22.18	90.14	16 7 54	4924.6	28.04	248.01
100.00	10 0 15	1175.28	3.96	337.23	15.50	119.65	10 19 51	575.3	7.88	330.64
100.00	16 12 5	5214.17	29.85	233.81	22.16	88.27	17 38 59	4614.2	29.29	225.05
110.00	10 37 14	1059.38	.74	326.44	13.49	124.18	10 54 53	459.4	5.22	320.22
110.00	17 51 36	4902.83	33.63	209.84	21.84	83.49	19 13 19	4302.8	32.37	200.83

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE  .7370 TRA -.8524 TC3  .8651 BAU  .1773   SGT 1905.3 SGR  359.4 SG3  325.3          ST  1197.9 SR   173.5 SS  1399.4
 RDE -.1088 RRA -.1040 RC3  .3583 FAU .05011   RRT  .3319 RRF -.3708 RTF -.9207          CRT -.7906 CRS -.8741 CST  .9881
 FDE-1.6126 FRA 1.0283 FC3-3.0638 BSP   6201   SGB 1938.9 R23 -.0586 R13 -.9214          LSA 1842.5 MSA  168.1 SSA   15.2
 BDE  .7450 BRA  .8587 BC3  .9363 FSP   -938   SGI 1909.1 SG2  338.3 THA   3.70          EL1 1205.8 EL2  105.5 ALF 173.42
```

LAUNCH DATE MAY 26 1967 FLIGHT TIME 120.00 ARRIVAL DATE SEP 23 1967

HELIOCENTRIC CONIC DISTANCE 307.803

```
RL  151.54 LAL    .00 LOL 244.08 VL  26.378 GAL   2.43 AZL  93.92 HCA 130.01 SMA 125.71 ECC .20963 INC 3.9231 V1  29.401
RP  108.54 LAP  -3.00 LOP  14.15 VP  37.279 GAP  -9.24 AZP  87.48 TAL 170.77 TAP 300.78 RCA  99.36 APO 152.06 V2  34.914
RC  53.515 GL  -29.32 GP    5.70 ZAL  77.32 ZAP  18.86 ETS 342.42 ZAE 147.88 ETE  27.14 ZAC  87.92 ETC  13.51 CLP -18.01
```

PLANETOCENTRIC CONIC

```
C3  13.555 VHL  3.682 DLA -22.41 RAL 157.62 RAD 6567.5 VEL 11.616 PTH   2.04 VHP  6.101 DPA   9.82 RAP 180.13 ECC 1.2231
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 59 19	1340.09	6.87	350.93	14.61	117.54	9 21 40	740.1	10.51	344.14
90.00	14 19 5	5554.96	28.29	258.89	20.34	91.25	15 51 40	4955.0	28.17	250.22
100.00	10 4 20	1130.29	5.47	334.75	13.84	119.43	10 23 10	530.3	9.36	328.11
100.00	15 56 46	5239.99	29.88	235.72	20.34	89.28	17 24 6	4640.0	29.46	226.94
110.00	10 38 52	1022.00	2.17	324.49	11.79	124.12	10 55 54	422.0	6.63	318.25
110.00	17 38 43	4921.05	33.76	211.25	20.09	84.32	19 0 44	4321.0	32.61	202.20

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE  .7496 TRA -.8149 TC3  .9395 BAU  .1841   SGT 1929.1 SGR  356.6 SG3  362.1          ST  1237.2 SR   140.8 SS  1497.9
 RDE -.0842 RRA -.1010 RC3  .3867 FAU .05468   RRT  .4032 RRF -.4479 RTF -.9246          CRT -.7556 CRS -.8435 CST  .9887
 FDE-1.7929 FRA 1.0575 FC3-3.4924 BSP   6268   SGB 1961.7 R23 -.0700 R13 -.9256          LSA 1940.9 MSA  164.7 SSA   14.6
 BDE  .7543 BRA  .8212 BC3 1.0160 FSP  -1050   SGI 1934.6 SG2  325.4 THA   4.39          EL1 1241.8 EL2   91.9 ALF 175.06
```

LAUNCH DATE MAY 26 1967 FLIGHT TIME 122.00 ARRIVAL DATE SEP 25 1967

HELIOCENTRIC CONIC DISTANCE 314.464

```
RL  151.54 LAL    .00 LOL 244.08 VL  26.463 GAL   2.26 AZL  94.00 HCA 133.19 SMA 126.24 ECC .20405 INC 3.9951 V1  29.401
RP  108.50 LAP  -2.91 LOP  17.34 VP  37.350 GAP  -8.59 AZP  87.26 TAL 171.13 TAP 304.33 RCA 100.48 APO 152.00 V2  34.926
RC  55.163 GL  -30.65 GP    6.37 ZAL  78.30 ZAP  21.38 ETS 342.80 ZAE 147.33 ETE  27.04 ZAC  87.04 ETC  13.37 CLP -20.45
```

PLANETOCENTRIC CONIC

```
C3  13.058 VHL  3.614 DLA -23.26 RAL 156.20 RAD 6567.5 VEL 11.595 PTH   2.03 VHP  5.760 DPA  10.12 RAP 181.09 ECC 1.2149
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 5 39	1289.43	8.46	348.05	13.10	117.12	9 27 9	689.4	12.03	341.19
90.00	14 1 27	5589.40	28.21	261.40	18.58	92.51	15 34 37	4989.4	28.26	252.74
100.00	10 8 58	1085.07	6.98	332.23	12.31	119.14	10 27 3	485.1	10.81	325.54
100.00	15 40 50	5268.99	29.89	237.88	18.63	90.41	17 8 39	4669.0	29.63	229.09
110.00	10 40 47	985.33	3.57	322.57	10.20	124.02	10 57 12	385.3	8.01	316.30
110.00	17 25 31	4941.49	33.89	212.83	18.45	85.25	18 47 52	4341.5	32.86	203.74

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE  .7616 TRA -.7761 TC3 1.0070 BAU  .1904   SGT 1944.8 SGR  359.4 SG3  403.6          ST  1272.9 SR   104.7 SS  1604.7
 RDE -.0573 RRA -.0991 RC3  .4188 FAU .05987   RRT  .4862 RRF -.5367 RTF -.9283          CRT -.6666 CRS -.7658 CST  .9894
 FDE-2.0017 FRA 1.0868 FC3-3.9691 BSP   6357   SGB 1977.7 R23 -.0840 R13 -.9296          LSA 2044.5 MSA  161.5 SSA   13.9
 BDE  .7638 BRA  .7824 BC3 1.0906 FSP  -1182   SGI 1952.8 SG2  312.7 THA   5.27          EL1 1274.9 EL2   77.9 ALF 176.85
```

LAUNCH DATE MAY 26 1967 FLIGHT TIME 124.00 ARRIVAL DATE SEP 27 1967

HELIOCENTRIC CONIC DISTANCE 321.110

```
RL  151.54 LAL    .00 LOL 244.08 VL  26.540 GAL   2.10 AZL  94.08 HCA 136.38 SMA 126.73 ECC .19900 INC 4.0750 V1  29.401
RP  108.46 LAP  -2.81 LOP  20.53 VP  37.416 GAP  -7.97 AZP  87.05 TAL 171.49 TAP 307.87 RCA 101.51 APO 151.95 V2  34.938
RC  56.885 GL  -31.98 GP    7.16 ZAL  79.25 ZAP  24.06 ETS 342.99 ZAE 146.98 ETE  27.35 ZAC  86.27 ETC  13.22 CLP -23.03
```

PLANETOCENTRIC CONIC

```
C3  12.662 VHL  3.558 DLA -24.13 RAL 154.79 RAD 6567.5 VEL 11.578 PTH   2.02 VHP  5.437 DPA  10.59 RAP 181.98 ECC 1.2084
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 13 13	1236.58	10.08	345.02	11.75	116.60	9 33 49	636.6	13.58	338.08
90.00	13 42 39	5629.01	28.06	264.29	16.92	93.95	15 16 28	5029.0	28.32	255.64
100.00	10 14 26	1038.95	8.50	329.65	10.91	118.77	10 31 45	438.9	12.28	322.90
100.00	15 24 7	5301.88	29.85	240.32	17.02	91.70	16 52 29	4701.9	29.77	231.52
110.00	10 43 6	949.07	4.95	320.67	8.73	123.87	10 58 55	349.1	9.36	314.36
110.00	17 11 57	4964.52	34.01	214.62	16.93	86.30	18 34 41	4364.5	33.12	205.49

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE  .7708 TRA -.7383 TC3 1.0560 BAU  .1947   SGT 1949.9 SGR  370.6 SG3  449.8          ST  1301.4 SR    68.8 SS  1718.6
 RDE -.0271 RRA -.0986 RC3  .4557 FAU .06555   RRT  .5758 RRF -.6325 RTF -.9309          CRT -.3758 CRS -.5003 CST  .9899
 FDE-2.2412 FRA 1.1193 FC3-4.4822 BSP   6374   SGB 1984.8 R23 -.1020 R13 -.9328          LSA 2150.9 MSA  159.4 SSA   13.1
 BDE  .7713 BRA  .7448 BC3 1.1501 FSP  -1326   SGI 1961.8 SG2  301.1 THA   6.40          EL1 1301.7 EL2   63.7 ALF 178.86
```

LAUNCH DATE MAY 26 1967 FLIGHT TIME 126.00 ARRIVAL DATE SEP 29 1967

HELIOCENTRIC CONIC DISTANCE 327.740
RL 151.54 LAL .00 LOL 244.08 VL 26.609 GAL 1.96 AZL 94.16 HCA 139.57 SMA 127.18 ECC .19444 INC 4.1649 V1 29.401
RP 108.43 LAP -2.70 LOP 23.73 VP 37.477 GAP -7.36 AZP 86.83 TAL 171.84 TAP 311.41 RCA 102.45 APO 151.91 V2 34.951
RC 58.673 GL -33.32 GP 8.10 ZAL 80.18 ZAP 26.95 ETS 343.05 ZAE 146.82 ETE 28.12 ZAC 85.62 ETC 13.08 CLP -25.79
PLANETOCENTRIC CONIC
C3 12.362 VHL 3.516 DLA -25.01 RAL 153.40 RAD 6567.5 VEL 11.565 PTH 2.02 VHP 5.133 DPA 11.26 RAP 182.78 ECC 1.2035

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 22 36	1179.77	11.80	341.72	10.57	115.93	9 42 16	579.8	15.19	334.69
90.00	13 22 8	5675.62	27.80	267.68	15.35	95.63	14 56 44	5075.6	28.29	259.05
100.00	10 21 6	990.91	10.06	326.94	9.66	118.30	10 37 37	390.9	13.77	320.11
100.00	15 6 20	5339.71	29.74	243.13	15.52	93.17	16 35 19	4739.7	29.86	234.33
110.00	10 46 0	912.76	6.32	318.76	7.39	123.66	11 1 13	312.8	10.70	312.40
110.00	16 57 54	4990.62	34.10	216.65	15.55	87.50	18 21 5	4390.6	33.38	207.48

DIFFERENTIAL CORRECTIONS
TOE .7779 TRA -.6991 TC3 1.0924 BAU .1985
ROE .0076 RRA -.0994 RC3 .4993 FAU .07200
FOE-2.5183 FRA 1.1505 FC3-5.0421 BSP 6393
BOE .7780 BRA .7062 BC3 1.2011 FSP -1492

MID-COURSE EXECUTION ACCURACY
SGT 1943.6 SGR 394.2 SG3 501.5
RRT .6658 RRF -.7279 RTF -.9331
SGB 1983.2 R23 -.1237 R13 -.9358
SG1 1961.7 SG2 291.4 THA 7.87

ORBIT DETERMINATION ACCURACY
ST 1322.8 SR 56.0 SS 1841.2
CRT .4876 CRS .3660 CST .9903
LSA 2262.3 MSA 157.5 SSA 12.3
EL1 1323.1 EL2 48.9 ALF 1.18

LAUNCH DATE MAY 26 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 1 1967

HELIOCENTRIC CONIC DISTANCE 334.355
RL 151.54 LAL .00 LOL 244.08 VL 26.671 GAL 1.83 AZL 94.27 HCA 142.76 SMA 127.58 ECC .19036 INC 4.2675 V1 29.401
RP 108.39 LAP -2.58 LOP 26.92 VP 37.533 GAP -6.77 AZP 86.60 TAL 172.18 TAP 314.94 RCA 103.30 APO 151.87 V2 34.964
RC 60.521 GL -34.67 GP 9.23 ZAL 81.05 ZAP 30.05 ETS 342.98 ZAE 146.82 ETE 29.43 ZAC 85.11 ETC 12.94 CLP -28.73
PLANETOCENTRIC CONIC
C3 12.158 VHL 3.487 DLA -25.92 RAL 152.02 RAD 6567.5 VEL 11.556 PTH 2.02 VHP 4.848 DPA 12.18 RAP 183.49 ECC 1.2001

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 34 53	1115.67	13.68	337.95	9.61	115.04	9 53 29	515.7	16.94	330.80
90.00	12 58 54	5732.65	27.35	271.79	13.88	97.64	14 34 26	5132.7	28.12	263.21
100.00	10 29 30	939.32	11.71	324.00	8.61	117.70	10 45 9	339.3	15.33	317.08
100.00	14 46 58	5384.23	29.53	246.42	14.15	94.89	16 16 42	4784.2	29.89	237.64
110.00	10 49 45	875.77	7.71	316.80	6.22	123.41	11 4 21	275.8	12.05	310.39
110.00	16 43 13	5020.54	34.17	218.98	14.33	88.88	18 6 53	4420.5	33.63	209.78

DIFFERENTIAL CORRECTIONS
TOE .7835 TRA -.6586 TC3 1.1117 BAU .2017
ROE .0488 RRA -.1017 RC3 .5518 FAU .07918
FOE-2.8406 FRA 1.1793 FC3-5.6384 BSP 6399
BOE .7850 BRA .6664 BC3 1.2411 FSP -1680

MID-COURSE EXECUTION ACCURACY
SGT 1925.2 SGR 434.8 SG3 559.2
RRT .7469 RRF -.8130 RTF -.9350
SGB 1973.7 R23 -.1488 R13 -.9390
SG1 1953.0 SG2 285.0 THA 9.79

ORBIT DETERMINATION ACCURACY
ST 1337.3 SR 98.4 SS 1974.4
CRT .9401 CRS .8882 CST .9908
LSA 2381.6 MSA 155.6 SSA 11.4
EL1 1340.5 EL2 33.5 ALF 3.96

LAUNCH DATE MAY 26 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 3 1967

HELIOCENTRIC CONIC DISTANCE 340.952
RL 151.54 LAL .00 LOL 244.08 VL 26.726 GAL 1.71 AZL 94.39 HCA 145.96 SMA 127.95 ECC .18671 INC 4.3865 V1 29.401
RP 108.35 LAP -2.45 LOP 30.11 VP 37.584 GAP -6.20 AZP 86.36 TAL 172.50 TAP 318.45 RCA 104.06 APO 151.84 V2 34.977
RC 62.420 GL -36.06 GP 10.59 ZAL 81.88 ZAP 33.41 ETS 342.82 ZAE 146.95 ETE 31.39 ZAC 84.74 ETC 12.81 CLP -31.87
PLANETOCENTRIC CONIC
C3 12.051 VHL 3.471 DLA -26.88 RAL 150.68 RAD 6567.5 VEL 11.552 PTH 2.02 VHP 4.584 DPA 13.40 RAP 184.12 ECC 1.1983

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 52 28	1036.86	15.89	333.23	8.96	113.75	10 9 44	436.9	18.97	325.90
90.00	12 30 36	5807.72	26.55	277.14	12.45	100.21	14 7 23	5207.7	27.70	268.66
100.00	10 40 37	881.29	13.53	320.65	7.80	116.91	10 55 18	281.3	17.03	313.61
100.00	14 25 7	5438.52	29.14	250.41	12.89	96.96	15 55 46	4838.5	29.80	241.67
110.00	10 54 40	837.17	9.15	314.73	5.23	123.08	11 8 38	237.2	13.45	308.27
110.00	16 27 33	5055.41	34.18	221.71	13.27	90.49	17 51 49	4455.4	33.87	212.48

DIFFERENTIAL CORRECTIONS
TOE .7815 TRA -.6194 TC3 1.0973 BAU .2026
ROE .0987 RRA -.1058 RC3 .6145 FAU .08679
FOE-3.2058 FRA 1.2076 FC3-6.2348 BSP 6328
BOE .7877 BRA .6284 BC3 1.2577 FSP -1883

MID-COURSE EXECUTION ACCURACY
SGT 1886.3 SGR 496.9 SG3 621.4
RRT .8104 RRF -.8804 RTF -.9350
SGB 1950.6 R23 -.1792 R13 -.9412
SG1 1929.8 SG2 284.6 THA 12.32

ORBIT DETERMINATION ACCURACY
ST 1335.2 SR 173.6 SS 2112.9
CRT .9947 CRS .9747 CST .9909
LSA 2500.6 MSA 154.9 SSA 10.4
EL1 1346.3 EL2 17.6 ALF 7.37

LAUNCH DATE MAY 26 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 5 1967

HELIOCENTRIC CONIC DISTANCE 347.532
RL 151.54 LAL .00 LOL 244.08 VL 26.775 GAL 1.61 AZL 94.53 HCA 149.15 SMA 128.27 ECC .18349 INC 4.5269 V1 29.401
RP 108.31 LAP -2.32 LOP 33.31 VP 37.631 GAP -5.64 AZP 86.11 TAL 172.79 TAP 321.94 RCA 104.74 APO 151.81 V2 34.990
RC 64.367 GL -37.49 GP 12.25 ZAL 82.64 ZAP 37.05 ETS 342.57 ZAE 147.12 ETE 34.16 ZAC 84.52 ETC 12.69 CLP -35.24
PLANETOCENTRIC CONIC
C3 12.048 VHL 3.471 DLA -27.91 RAL 149.36 RAD 6567.5 VEL 11.551 PTH 2.02 VHP 4.342 DPA 14.98 RAP 184.69 ECC 1.1983

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 24 1	915.51	19.07	325.74	8.87	111.34	10 39 16	315.5	21.80	318.13
90.00	11 48 30	640.94	24.81	307.68	10.85	104.10	11 59 11	40.9	26.51	299.43
100.00	10 56 21	810.93	15.65	316.51	7.31	115.80	11 9 52	210.9	19.00	309.31
100.00	13 58 50	5508.79	28.46	255.52	11.70	99.56	15 30 39	4908.8	29.48	246.87
110.00	11 1 15	795.55	10.69	312.49	4.46	122.66	11 14 31	195.5	14.92	305.95
110.00	16 10 26	5096.94	34.11	224.95	12.40	92.41	17 35 23	4496.9	34.07	215.70

DIFFERENTIAL CORRECTIONS
TOE .7762 TRA -.5790 TC3 1.0616 BAU .2040
ROE .1611 RRA -.1117 RC3 .6912 FAU .09505
FOE-3.6273 FRA 1.2285 FC3-6.8296 BSP 6269
BOE .7927 BRA .5897 BC3 1.2668 FSP -2109

MID-COURSE EXECUTION ACCURACY
SGT 1831.5 SGR 587.0 SG3 689.0
RRT .8559 RRF -.9285 RTF -.9344
SGB 1923.2 R23 -.2084 R13 -.9443
SG1 1900.9 SG2 292.5 THA 15.72

ORBIT DETERMINATION ACCURACY
ST 1321.8 SR 273.6 SS 2261.8
CRT .9992 CRS .9928 CST .9911
LSA 2629.5 MSA 154.0 SSA 9.4
EL1 1349.8 EL2 10.6 ALF 11.69

LAUNCH DATE MAY 26 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 7 1967

HELIOCENTRIC CONIC DISTANCE 354.094

RL 151.54 LAL .00 LOL 244.08 VL 26.819 GAL 1.53 AZL 94.70 HCA 152.35 SMA 128.56 ECC .18065 INC 4.6965 V1 29.401
RP 108.27 LAP -2.18 LOP 36.51 VP 37.674 GAP -5.10 AZP 85.84 TAL 173.05 TAP 325.40 RCA 105.34 APO 151.79 V2 35.003
RC 66.356 GL -39.00 GP 14.31 ZAL 83.33 ZAP 41.02 ETS 342.25 ZAE 147.23 ETE 37.89 ZAC 84.44 ETC 12.60 CLP -38.86

PLANETOCENTRIC CONIC

C3 12.166 VHL 3.488 DLA -29.03 RAL 148.05 RAD 6567.5 VEL 11.557 PTH 2.02 VHP 4.127 DPA 17.02 RAP 185.21 ECC 1.2002

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.30	10 5 30	959.94	22.71	330.41	9.09	108.59	10 21 30	359.9	25.04	322.45
96.70	11 56 36	600.63	22.72	304.06	9.09	108.57	12 6 37	.6	25.05	296.11
100.00	11 22 18	710.85	18.52	310.46	7.35	113.89	11 34 9	110.9	21.59	303.01
100.00	13 22 30	5612.99	27.05	262.95	10.45	103.23	14 56 3	5013.0	28.60	254.49
110.00	11 10 17	748.64	12.40	309.94	3.98	122.11	11 22 46	148.6	16.56	303.29
110.00	15 50 59	5147.97	33.89	228.92	11.71	94.75	17 16 47	4548.0	34.18	219.69

DIFFERENTIAL CORRECTIONS
TOE .7617 TRA -.5409 TC3 .9866 BAU .2048
RDE .2409 RRA -.1201 RC3 .7828 FAU .10330
FDE-4.0999 FRA 1.2440 FC3-7.3510 BSP 6132
BDE .7989 BRA .5541 BC3 1.2594 FSP -2337

MID-COURSE EXECUTION ACCURACY
SGT 1752.7 SGR 711.1 SG3 758.7
RRT .8827 RRF -.9596 RTF -.9311
SGB 1891.5 R23 -.2346 R13 -.9475
SG1 1865.2 SG2 314.0 THA 20.30

ORBIT DETERMINATION ACCURACY
ST 1288.0 SR 401.7 SS 2415.1
CRT .9973 CRS .9977 CST .9908
LSA 2762.1 MSA 154.3 SSA 8.4
EL1 1348.9 EL2 28.3 ALF 17.29

LAUNCH DATE MAY 26 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 9 1967

HELIOCENTRIC CONIC DISTANCE 360.638

RL 151.54 LAL .00 LOL 244.08 VL 26.856 GAL 1.45 AZL 94.91 HCA 155.55 SMA 128.81 ECC .17818 INC 4.9067 V1 29.401
RP 108.22 LAP -2.03 LOP 39.71 VP 37.713 GAP -4.58 AZP 85.53 TAL 173.27 TAP 328.83 RCA 105.86 APO 151.77 V2 35.016
RC 68.382 GL -40.64 GP 16.90 ZAL 83.94 ZAP 45.35 ETS 341.88 ZAE 147.07 ETE 42.76 ZAC 84.48 ETC 12.56 CLP -42.74

PLANETOCENTRIC CONIC

C3 12.434 VHL 3.526 DLA -30.30 RAL 146.75 RAD 6567.5 VEL 11.568 PTH 2.02 VHP 3.943 DPA 19.63 RAP 185.76 ECC 1.2046

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.74	9 24 54	1077.84	23.56	339.47	8.46	109.63	9 42 52	477.8	26.02	331.50
101.26	12 26 46	5780.00	23.57	274.23	8.47	109.61	14 3 6	5180.0	26.03	266.26
78.74	9 24 54	1077.84	23.56	339.47	8.46	109.63	9 42 52	477.8	26.02	331.50
101.26	12 26 46	5780.00	23.57	274.23	8.47	109.61	14 3 6	5180.0	26.03	266.26
110.00	11 23 13	692.29	14.42	306.82	3.86	121.33	11 34 46	92.3	18.46	300.04
110.00	15 27 38	5213.55	33.41	233.98	11.18	97.70	16 54 31	4613.6	34.11	224.81

DIFFERENTIAL CORRECTIONS
TOE .7388 TRA -.5034 TC3 .8764 BAU .2077
RDE .3457 RRA -.1308 RC3 .8907 FAU .11108
FDE-4.6250 FRA 1.2432 FC3-7.7345 BSP 6017
BDE .8157 BRA .5201 BC3 1.2495 FSP -2565

MID-COURSE EXECUTION ACCURACY
SGT 1649.4 SGR 877.9 SG3 827.4
RRT .8949 RRF -.9782 RTF -.9249
SGB 1868.5 R23 -.2476 R13 -.9529
SG1 1835.0 SG2 352.2 THA 26.52

ORBIT DETERMINATION ACCURACY
ST 1233.7 SR 566.9 SS 2572.0
CRT .9947 CRS .9992 CST .9903
LSA 2904.3 MSA 155.0 SSA 7.4
EL1 1356.7 EL2 53.2 ALF 24.60

LAUNCH DATE MAY 26 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 11 1967

HELIOCENTRIC CONIC DISTANCE 367.162

RL 151.54 LAL .00 LOL 244.08 VL 26.889 GAL 1.39 AZL 95.18 HCA 158.76 SMA 129.03 ECC .17605 INC 5.1762 V1 29.401
RP 108.18 LAP -1.87 LOP 42.91 VP 37.749 GAP -4.06 AZP 85.17 TAL 173.46 TAP 332.22 RCA 106.32 APO 151.75 V2 35.029
RC 70.443 GL -42.46 GP 20.19 ZAL 84.50 ZAP 50.11 ETS 341.48 ZAE 146.34 ETE 48.84 ZAC 84.61 ETC 12.58 CLP -46.89

PLANETOCENTRIC CONIC

C3 12.906 VHL 3.592 DLA -31.77 RAL 145.40 RAD 6567.5 VEL 11.588 PTH 2.03 VHP 3.799 DPA 22.99 RAP 186.44 ECC 1.2124

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.96	8 52 38	1170.73	24.46	346.82	8.11	110.93	9 12 8	570.7	27.08	338.84
105.04	12 48 18	5703.05	24.47	268.81	8.12	110.92	14 23 21	5103.0	27.09	260.83
74.96	8 52 38	1170.73	24.46	346.82	8.11	110.93	9 12 8	570.7	27.08	338.84
105.04	12 48 18	5703.05	24.47	268.81	8.12	110.92	14 23 21	5103.0	27.09	260.83
110.00	11 43 19	617.08	17.04	302.56	4.33	120.09	11 53 36	17.1	20.91	295.57
110.00	14 56 47	5304.70	32.36	240.88	10.74	101.66	16 25 12	4704.7	33.63	231.88

DIFFERENTIAL CORRECTIONS
TOE .7078 TRA -.4644 TC3 .7430 BAU .2174
RDE .4883 RRA -.1429 RC3 1.0176 FAU .11801
FDE-5.1961 FRA 1.2055 FC3-7.9162 BSP 6039
BDE .8599 BRA .4859 BC3 1.2600 FSP -2787

MID-COURSE EXECUTION ACCURACY
SGT 1522.6 SGR 1101.4 SG3 890.1
RRT .8963 RRF -.9887 RTF -.9155
SGB 1879.2 R23 -.2353 R13 -.9626
SG1 1835.0 SG2 405.3 THA 34.91

ORBIT DETERMINATION ACCURACY
ST 1158.9 SR 783.3 SS 2729.5
CRT .9921 CRS .9997 CST .9894
LSA 3063.1 MSA 155.4 SSA 6.4
EL1 1396.4 EL2 81.3 ALF 33.98

LAUNCH DATE MAY 26 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 13 1967

HELIOCENTRIC CONIC DISTANCE 373.667

RL 151.54 LAL .00 LOL 244.08 VL 26.917 GAL 1.35 AZL 95.54 HCA 161.96 SMA 129.22 ECC .17425 INC 5.5365 V1 29.401
RP 108.14 LAP -1.71 LOP 46.12 VP 37.781 GAP -3.56 AZP 84.73 TAL 173.60 TAP 335.56 RCA 106.71 APO 151.74 V2 35.042
RC 72.534 GL -44.57 GP 24.47 ZAL 84.99 ZAP 55.33 ETS 341.10 ZAE 144.58 ETE 56.01 ZAC 84.73 ETC 12.69 CLP -51.32

PLANETOCENTRIC CONIC

C3 13.685 VHL 3.699 DLA -33.52 RAL 143.95 RAD 6567.5 VEL 11.622 PTH 2.04 VHP 3.709 DPA 27.32 RAP 187.44 ECC 1.2252

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
71.27	8 22 45	1258.20	25.41	353.94	8.11	112.63	8 43 43	658.2	28.25	345.97
108.73	13 6 38	5641.01	25.42	264.47	8.12	112.62	14 40 39	5041.0	28.26	256.50
71.27	8 22 45	1258.20	25.41	353.94	8.11	112.63	8 43 43	658.2	28.25	345.97
108.73	13 6 38	5641.01	25.42	264.47	8.12	112.62	14 40 39	5041.0	28.26	256.50
110.00	12 23 21	5773.56	21.35	272.70	6.05	117.35	13 59 35	5173.6	24.84	265.29
110.00	14 5 12	5461.69	29.62	252.29	9.86	107.89	15 36 14	4861.7	31.78	243.74

DIFFERENTIAL CORRECTIONS
TOE .6634 TRA -.4301 TC3 .5708 BAU .2350
RDE .6875 RRA -.1571 RC3 1.1508 FAU .12149
FDE-5.7674 FRA 1.1329 FC3-7.6857 BSP 6194
BDE .9554 BRA .4579 BC3 1.2846 FSP -2930

MID-COURSE EXECUTION ACCURACY
SGT 1368.4 SGR 1394.2 SG3 932.8
RRT .8842 RRF -.9943 RTF -.8976
SGB 1953.6 R23 -.1961 R13 -.9756
SG1 1896.2 SG2 470.1 THA 45.61

ORBIT DETERMINATION ACCURACY
ST 1055.2 SR 1068.7 SS 2870.0
CRT .9891 CRS .9999 CST .9874
LSA 3235.3 MSA 157.0 SSA 5.4
EL1 1497.7 EL2 110.7 ALF 45.37

LAUNCH DATE MAY 26 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 15 1967

HELIOCENTRIC CONIC DISTANCE 380.152

RL 151.54 LAL .00 LOL 244.08 VL 26.940 GAL 1.31 AZL 96.05 HCA 165.17 SMA 129.38 ECC .17275 INC 6.0469 V1 29.401
RP 108.10 LAP -1.55 LOP 49.33 VP 37.810 GAP -3.07 AZP 84.15 TAL 173.69 TAP 338.86 RCA 107.03 APO 151.73 V2 35.056
RC 74.652 GL -47.13 GP 30.16 ZAL 85.43 ZAP 61.09 ETS 340.79 ZAE 141.15 ETE 63.79 ZAC 84.69 ETC 12.89 CLP -56.00

PLANETOCENTRIC CONIC

C3 14.988 VHL 3.871 DLA -35.69 RAL 142.29 RAD 6567.6 VEL 11.678 PTH 2.05 VHP 3.704 DPA 32.96 RAP 189.17 ECC 1.2467

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
67.31	7 52 51	1348.82	26.38	1.53	8.59	114.95	8 15 20	748.8	29.52	353.61
112.69	13 23 14	5590.62	26.40	260.99	8.59	114.94	14 56 25	4990.6	29.53	253.07
67.31	7 52 51	1348.82	26.38	1.53	8.59	114.95	8 15 20	748.8	29.52	353.61
112.69	13 23 14	5590.62	26.40	260.99	8.59	114.94	14 56 25	4990.6	29.53	253.07
67.31	7 52 51	1348.82	26.38	1.53	8.59	114.95	8 15 20	748.8	29.52	353.61
112.69	13 23 14	5590.62	26.40	260.99	8.59	114.94	14 56 25	4990.6	29.53	253.07

DIFFERENTIAL CORRECTIONS
TDE .6088 TRA -.3987 TC3 .3822 BAU .2666
RDE .9793 RRA -.1692 RC3 1.2745 FAU .11952
FDE-6.2741 FRA .9871 FC3-6.9035 BSP 6733
BDE 1.1531 BRA .4331 BC3 1.3306 FSP -2955

MID-COURSE EXECUTION ACCURACY
SGT 1194.6 SGR 1780.2 SG3 938.7
RRT .8566 RRF -.9972 RTF -.8672
SGB 2143.9 R23 -.1329 R13 -.9886
SG1 2077.8 SG2 528.1 THA 57.78

ORBIT DETERMINATION ACCURACY
ST 927.0 SR 1452.5 SS 2976.7
CRT .9849 CRS 1.0000 CST .9839
LSA 3435.8 MSA 158.7 SSA 4.4
EL1 1717.8 EL2 135.7 ALF 57.62

LAUNCH DATE MAY 26 1967 FLIGHT TIME 144.00 ARRIVAL DATE OCT 17 1967

HELIOCENTRIC CONIC DISTANCE 386.616

RL 151.54 LAL .00 LOL 244.08 VL 26.960 GAL 1.29 AZL 96.83 HCA 168.37 SMA 129.51 ECC .17153 INC 6.8319 V1 29.401
RP 108.06 LAP -1.37 LOP 52.53 VP 37.836 GAP -2.59 AZP 83.31 TAL 173.74 TAP 342.11 RCA 107.30 APO 151.73 V2 35.069
RC 76.795 GL -50.38 GP 37.90 ZAL 85.88 ZAP 67.42 ETS 340.70 ZAE 135.20 ETE 71.40 ZAC 84.23 ETC 13.14 CLP -60.88

PLANETOCENTRIC CONIC

C3 17.329 VHL 4.163 DLA -38.48 RAL 140.19 RAD 6567.7 VEL 11.778 PTH 2.08 VHP 3.852 DPA 40.36 RAP 192.51 ECC 1.2852

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.78	7 20 53	1451.20	27.25	10.32	9.79	118.29	7 45 4	851.2	30.80	2.54
117.22	13 38 28	5554.28	27.26	258.53	9.79	118.28	15 11 2	4954.3	30.81	250.74
62.78	7 20 53	1451.20	27.25	10.32	9.79	118.29	7 45 4	851.2	30.80	2.54
117.22	13 38 28	5554.28	27.26	258.53	9.79	118.28	15 11 2	4954.3	30.81	250.74
62.78	7 20 53	1451.20	27.25	10.32	9.79	118.29	7 45 4	851.2	30.80	2.54
117.22	13 38 28	5554.28	27.26	258.53	9.79	118.28	15 11 2	4954.3	30.81	250.74

DIFFERENTIAL CORRECTIONS
TDE .5482 TRA -.3730 TC3 .1978 BAU .3151
RDE 1.4330 RRA -.1668 RC3 1.3455 FAU .10851
FDE-6.5628 FRA .7282 FC3-5.4210 BSP 7904
BDE 1.5343 BRA .4086 BC3 1.3600 FSP -2793

MID-COURSE EXECUTION ACCURACY
SGT 1013.1 SGR 2287.2 SG3 879.4
RRT .8048 RRF -.9986 RTF -.8144
SGB 2501.5 R23 -.0695 R13 -.9963
SG1 2437.1 SG2 564.3 THA 69.21

ORBIT DETERMINATION ACCURACY
ST 779.7 SR 1974.7 SS 3009.1
CRT .9779 CRS 1.0000 CST .9775
LSA 3679.2 MSA 160.6 SSA 3.5
EL1 2117.6 EL2 152.1 ALF 68.77

LAUNCH DATE MAY 26 1967 FLIGHT TIME 146.00 ARRIVAL DATE OCT 19 1967

HELIOCENTRIC CONIC DISTANCE 393.057

RL 151.54 LAL .00 LOL 244.08 VL 26.975 GAL 1.29 AZL 98.21 HCA 171.58 SMA 129.62 ECC .17058 INC 8.2052 V1 29.401
RP 108.02 LAP -1.20 LOP 55.74 VP 37.859 GAP -2.13 AZP 81.88 TAL 173.73 TAP 345.31 RCA 107.51 APO 151.73 V2 35.082
RC 78.958 GL -54.72 GP 48.70 ZAL 86.39 ZAP 74.28 ETS 340.98 ZAE 125.64 ETE 77.90 ZAC 82.89 ETC 13.14 CLP -65.77

PLANETOCENTRIC CONIC

C3 22.232 VHL 4.715 DLA -42.19 RAL 137.23 RAD 6567.9 VEL 11.984 PTH 2.14 VHP 4.338 DPA 49.94 RAP 199.80 ECC 1.3659

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.31	6 44 17	1579.94	27.45	21.41	12.24	123.39	7 10 37	979.9	31.64	13.98
122.69	13 51 28	5543.68	27.47	257.77	12.25	123.38	15 23 52	4943.7	31.65	250.34
57.31	6 44 17	1579.94	27.45	21.41	12.24	123.39	7 10 37	979.9	31.64	13.98
122.69	13 51 28	5543.68	27.47	257.77	12.25	123.38	15 23 52	4943.7	31.65	250.34
57.31	6 44 17	1579.94	27.45	21.41	12.24	123.39	7 10 37	979.9	31.64	13.98
122.69	13 51 28	5543.68	27.47	257.77	12.25	123.38	15 23 52	4943.7	31.65	250.34

DIFFERENTIAL CORRECTIONS
TDE .4991 TRA -.3662 TC3 .0435 BAU .3723
RDE 2.1946 RRA -.1225 RC3 1.2519 FAU .08289
FDE-6.3084 FRA .3584 FC3-3.2277 BSP 9707
BDE 2.2506 BRA .3861 BC3 1.2526 FSP -2279

MID-COURSE EXECUTION ACCURACY
SGT 854.5 SGR 2923.3 SG3 714.4
RRT .7152 RRF -.9992 RTF -.7256
SGB 3045.6 R23 -.0267 R13 -.9990
SG1 2989.1 SG2 584.1 THA 77.72

ORBIT DETERMINATION ACCURACY
ST 632.7 SR 2667.7 SS 2874.4
CRT .9647 CRS 1.0000 CST .9649
LSA 3968.9 MSA 164.4 SSA 2.6
EL1 2736.9 EL2 162.4 ALF 77.07

LAUNCH DATE MAY 26 1967 FLIGHT TIME 148.00 ARRIVAL DATE OCT 21 1967

HELIOCENTRIC CONIC DISTANCE 399.471

RL 151.54 LAL .00 LOL 244.08 VL 26.987 GAL 1.30 AZL 101.25 HCA 174.78 SMA 129.70 ECC .16988 INC11.2482 V1 29.401
RP 107.98 LAP -1.02 LOP 58.96 VP 37.879 GAP -1.67 AZP 78.80 TAL 173.65 TAP 348.42 RCA 107.66 APO 151.73 V2 35.094
RC 81.139 GL -60.70 GP 63.99 ZAL 87.14 ZAP 81.32 ETS 341.37 ZAE 111.07 ETE 82.01 ZAC 79.99 ETC 11.55 CLP -69.88

PLANETOCENTRIC CONIC

C3 36.420 VHL 6.035 DLA -47.17 RAL 132.54 RAD 6568.4 VEL 12.561 PTH 2.28 VHP 5.838 DPA 61.04 RAP 218.66 ECC 1.5994

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
50.56	5 59 38	1770.81	24.87	36.64	17.08	131.47	6 29 9	1170.8	30.00	30.14
129.44	13 58 41	5598.58	24.88	260.57	17.09	131.46	15 32 0	4998.6	30.01	254.07
50.56	5 59 38	1770.81	24.87	36.64	17.08	131.47	6 29 9	1170.8	30.00	30.14
129.44	13 58 41	5598.58	24.88	260.57	17.09	131.46	15 32 0	4998.6	30.01	254.07
50.56	5 59 38	1770.81	24.87	36.64	17.08	131.47	6 29 9	1170.8	30.00	30.14
129.44	13 58 41	5598.58	24.88	260.57	17.09	131.46	15 32 0	4998.6	30.01	254.07

DIFFERENTIAL CORRECTIONS
TDE .5866 TRA -.4305 TC3 -.0477 BAU .3682
RDE 3.6278 RRA .0062 RC3 .7548 FAU .03849
FDE-5.0050 FRA .0328 FC3 -.9148 BSP 10661
BDE 3.6749 BRA .4305 BC3 .7563 FSP -1218

MID-COURSE EXECUTION ACCURACY
SGT 821.4 SGR 3562.6 SG3 421.5
RRT .6357 RRF -.9995 RTF -.6513
SGB 3656.1 R23 -.0056 R13 -.9997
SG1 3601.9 SG2 627.2 THA 81.40

ORBIT DETERMINATION ACCURACY
ST 585.3 SR 3444.3 SS 2396.8
CRT .9511 CRS 1.0000 CST .9522
LSA 4233.0 MSA 178.8 SSA 1.7
EL1 3489.1 EL2 178.5 ALF 80.79

LAUNCH DATE MAY 26 1967 FLIGHT TIME 150.00 ARRIVAL DATE OCT 23 1967

DISTANCE 405.791

HELIOCENTRIC CONIC
RL 151.54 LAL .00 LOL 244.08 VL 26.995 GAL 1.33 AZL 113.60 HCA 177.92 SMA 129.75 ECC .16945 INC23.6025 V1 29.401
RP 107.94 LAP -.83 LOP 62.17 VP 37.897 GAP -1.25 AZP 66.41 TAL 173.46 TAP 351.38 RCA 107.77 APO 151.74 V2 35.107
RC 83.336 GL -66.58 GP 86.78 ZAL 88.45 ZAP 87.38 ETS 231.50 ZAE 87.88 ETE 333.02 ZAC 74.12 ETC 255.45 CLP -35.39

PLANETOCENTRIC CONIC
C3 138.674 VHL 11.776 DLA -51.50 RAL 126.28 RAD 6570.5 VEL 16.125 PTH 2.84 VHP 13.165 DPA 64.31 RAP 270.97 ECC 3.2822

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
45.00	5 16 22	2122.68	10.94	56.37	27.43	140.65	5 51 45	1522.7	17.07	51.49
135.00	13 52 3	5862.51	10.95	271.49	27.44	140.65	15 29 45	5262.5	17.08	266.61
45.00	5 16 22	2122.68	10.94	56.37	27.43	140.65	5 51 45	1522.7	17.07	51.49
135.00	13 52 3	5862.51	10.95	271.49	27.44	140.65	15 29 45	5262.5	17.08	266.61
45.00	5 16 22	2122.68	10.94	56.37	27.43	140.65	5 51 45	1522.7	17.07	51.49
135.00	13 52 3	5862.51	10.95	271.49	27.44	140.65	15 29 45	5262.5	17.08	266.61

DIFFERENTIAL CORRECTIONS
TOE 8.4928 TRA .8436 TC3 -.0352 BAU .0764
ROE .3245 RRA .5638 RC3 .0214 FAU-.00331
FOE-3.1601 FRA -.1926 FC3 .0207 BSP 12113
BOE 8.4990 BRA 1.0146 BC3 .0412 FSP -375

MID-COURSE EXECUTION ACCURACY
SGT 4185.2 SGR 470.8 SG3 133.5
RRT .4765 RRF -.4214 RTF -.9981
SGB 4211.6 R23 .0669 R13 -.9978
SG1 4191.3 SG2 413.3 THA 3.10

ORBIT DETERMINATION ACCURACY
ST 4136.9 SR 205.9 SS 1749.6
CRT .7966 CRS .7853 CST .9998
LSA 4494.5 MSA 128.4 SSA .7
EL1 4140.1 EL2 124.4 ALF 2.27

LAUNCH DATE MAY 26 1967 FLIGHT TIME 152.00 ARRIVAL DATE OCT 25 1967

DISTANCE 412.548

HELIOCENTRIC CONIC
RL 151.54 LAL .00 LOL 244.08 VL 27.000 GAL 1.29 AZL 63.60 HCA 181.46 SMA 129.79 ECC .16905 INC26.3950 V1 29.401
RP 107.91 LAP -.65 LOP 65.39 VP 37.912 GAP -.71 AZP 116.39 TAL 173.62 TAP 355.08 RCA 107.85 APO 151.73 V2 35.119
RC 85.546 GL 66.46 GP -83.29 ZAL 88.68 ZAP 89.23 ETS 156.99 ZAE 87.78 ETE 57.06 ZAC 101.15 ETC 135.57 CLP 83.42

PLANETOCENTRIC CONIC
C3 171.355 VHL 13.090 DLA 64.45 RAL 211.25 RAD 6570.9 VEL 17.108 PTH 2.93 VHP 18.924 DPA -69.10 RAP 83.15 ECC 3.8201

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
29.33	22 11 46	4886.26	-10.34	239.11	116.26	26.00	23 33 12	4286.3	-17.51	235.86
150.67	8 14 34	3174.23	-10.34	96.12	116.24	26.00	9 7 28	2574.2	-17.50	92.87
29.33	22 11 46	4886.26	-10.34	239.11	116.26	26.00	23 33 12	4286.3	-17.51	235.86
150.67	8 14 34	3174.23	-10.34	96.12	116.24	26.00	9 7 28	2574.2	-17.50	92.87
29.33	22 11 46	4886.26	-10.34	239.11	116.26	26.00	23 33 12	4286.3	-17.51	235.86
150.67	8 14 34	3174.23	-10.34	96.12	116.24	26.00	9 7 28	2574.2	-17.50	92.87

DIFFERENTIAL CORRECTIONS
TOE-1.5806 TRA-1.9561 TC3 -.0673 BAU .2482
ROE .1291 RRA-3.8380 RC3 -.0849 FAU-.00486
FOE .1108 FRA 1.0668 FC3 .0246 BSP 12177
BOE 1.5859 BRA 4.3078 BC3 .1084 FSP -268

MID-COURSE EXECUTION ACCURACY
SGT 2109.7 SGR 3902.0 SG3 93.8
RRT .9394 RRF -.9982 RTF -.9580
SGB 4435.8 R23 -.0172 R13 -.9998
SG1 4388.9 SG2 643.1 THA 62.43

ORBIT DETERMINATION ACCURACY
ST 912.9 SR 1169.9 SS 537.0
CRT .6151 CRS .9807 CST .7572
LSA 1447.8 MSA 628.0 SSA .2
EL1 1345.5 EL2 625.9 ALF 56.09

LAUNCH DATE MAY 26 1967 FLIGHT TIME 154.00 ARRIVAL DATE OCT 27 1967

DISTANCE 418.770

HELIOCENTRIC CONIC
RL 151.54 LAL .00 LOL 244.08 VL 27.003 GAL 1.36 AZL 84.19 HCA 184.55 SMA 129.81 ECC .16908 INC 5.8097 V1 29.401
RP 107.87 LAP -.46 LOP 68.60 VP 37.924 GAP -.32 AZP 95.79 TAL 173.27 TAP 357.82 RCA 107.86 APO 151.75 V2 35.131
RC 87.767 GL 46.82 GP -69.05 ZAL 84.89 ZAP 90.02 ETS 1.08 ZAE 114.66 ETE 261.81 ZAC 109.27 ETC 350.46 CLP -90.05

PLANETOCENTRIC CONIC
C3 14.049 VHL 3.748 DLA 49.04 RAL 188.03 RAD 6567.6 VEL 11.638 PTH 2.04 VHP 6.462 DPA -51.16 RAP 127.97 ECC 1.2312

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
48.13	21 30 51	4205.60	-35.71	195.38	59.42	53.84	22 40 56	3605.6	-40.14	187.34
131.87	5 50 10	2705.14	-35.70	77.45	59.41	53.83	6 35 15	2105.1	-40.13	69.42
48.13	21 30 51	4205.60	-35.71	195.38	59.42	53.84	22 40 56	3605.6	-40.14	187.34
131.87	5 50 10	2705.14	-35.70	77.45	59.41	53.83	6 35 15	2105.1	-40.13	69.42
48.13	21 30 51	4205.60	-35.71	195.38	59.42	53.84	22 40 56	3605.6	-40.14	187.34
131.87	5 50 10	2705.14	-35.70	77.45	59.41	53.83	6 35 15	2105.1	-40.13	69.42

DIFFERENTIAL CORRECTIONS
TOE .5291 TRA .3641 TC3 -.9829 BAU .5283
ROE .6257 RRA 1.4467 RC3-2.6356 FAU .04521
FOE .6141 FRA 1.4813 FC3-2.7859 BSP 12735
BOE .8194 BRA 1.4918 BC3 2.8129 FSP -1109

MID-COURSE EXECUTION ACCURACY
SGT 1384.8 SGR 4024.5 SG3 358.0
RRT .9138 RRF .9998 RTF .9114
SGB 4256.0 R23 .0462 R13 .9988
SG1 4222.2 SG2 536.0 THA 72.25

ORBIT DETERMINATION ACCURACY
ST 848.2 SR 1393.7 SS 781.4
CRT .8735 CRS -.9998 CST -.8630
LSA 1769.4 MSA 376.5 SSA 1.2
EL1 1590.9 EL2 361.7 ALF 60.32

LAUNCH DATE MAY 26 1967 FLIGHT TIME 156.00 ARRIVAL DATE OCT 29 1967

DISTANCE 425.097

HELIOCENTRIC CONIC
RL 151.54 LAL .00 LOL 244.08 VL 27.002 GAL 1.42 AZL 88.00 HCA 187.75 SMA 129.80 ECC .16926 INC 2.0027 V1 29.401
RP 107.83 LAP -.27 LOP 71.82 VP 37.935 GAP .11 AZP 91.99 TAL 172.98 TAP .73 RCA 107.83 APO 151.77 V2 35.143
RC 89.996 GL 21.08 GP -53.36 ZAL 82.06 ZAP 93.55 ETS 356.18 ZAE 129.23 ETE 254.19 ZAC 112.99 ETC 353.89 CLP -95.96

PLANETOCENTRIC CONIC
C3 6.889 VHL 2.625 DLA 26.17 RAL 172.77 RAD 6567.2 VEL 11.326 PTH 1.95 VHP 4.424 DPA -36.98 RAP 137.59 ECC 1.1134

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 18 19	2996.58	-28.01	96.18	26.26	85.63	3 8 15	2396.6	-28.32	87.53
90.00	23 0 57	3631.93	-17.21	139.19	23.43	67.16	24 1 29	3031.9	-20.16	131.76
100.00	4 7 43	2643.90	-29.87	70.33	26.36	88.85	4 51 46	2043.9	-29.71	61.53
100.00	23 54 14	3459.84	-15.51	125.75	22.63	64.12	24 51 54	2859.8	-18.86	118.56
110.00	6 5 22	2275.76	-33.76	42.19	26.18	95.74	6 43 18	1675.8	-32.59	33.15
110.00	0 17 0	3400.75	-12.11	119.33	20.68	57.79	1 13 41	2800.7	-16.28	112.70

DIFFERENTIAL CORRECTIONS
TOE .2025 TRA .2948 TC3-2.8006 BAU .5208
ROE .1102 RRA .9256 RC3-4.9125 FAU .09308
FOE .1844 FRA 2.1445 FC-11.6975 BSP 11733
BOE .2305 BRA .9714 BC3 5.6547 FSP -2211

MID-COURSE EXECUTION ACCURACY
SGT 1694.3 SGR 3431.6 SG3 697.0
RRT .9479 RRF .9997 RTF .9471
SGB 3827.1 R23 .0629 R13 .9977
SG1 3795.9 SG2 487.8 THA 64.47

ORBIT DETERMINATION ACCURACY
ST 493.5 SR 721.1 SS 621.6
CRT .7165 CRS -.9960 CST -.6512
LSA 1018.1 MSA 336.6 SSA 3.6
EL1 819.6 EL2 302.9 ALF 59.23

LAUNCH DATE MAY 26 1967 FLIGHT TIME 158.00 ARRIVAL DATE OCT 31 1967

HELIOCENTRIC CONIC DISTANCE 431.422

RL 151.54 LAL .00 LOL 244.08 VL 26.999 GAL 1.50 AZL 89.58 HCA 190.97 SMA 129.78 ECC .16962 INC .4144 VI 29.401
RP 107.80 LAP -.08 LOP 75.05 VP 37.943 GAP .52 AZP 90.41 TAL 172.65 TAP 3.61 RCA 107.77 APO 151.79 V2 35.154
RC 92.232 GL 4.60 GP -42.37 ZAL 80.70 ZAP 98.38 ETS 353.24 ZAE 138.26 ETE 245.02 ZAC 115.51 ETC 357.13 CLP-101.37

PLANETOCENTRIC CONIC

C3 6.004 VHL 2.450 DLA 10.76 RAL 166.50 RAD 6567.2 VEL 11.287 PTH 1.94 VHP 3.734 DPA -26.37 RAP 141.35 ECC 1.0988

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 53 13	2309.41	-21.75	47.58	13.61	108.59	5 31 42	1709.4	-19.01	39.98
90.00	19 36 5	4272.20	2.37	176.01	11.57	61.77	20 47 17	3672.2	-1.42	169.38
100.00	6 19 56	2029.72	-22.51	26.72	13.32	110.20	6 53 46	1429.7	-19.56	19.17
100.00	20 52 3	4027.12	3.07	157.60	11.17	60.25	21 59 10	3427.1	-.91	151.08
110.00	7 40 22	1778.01	-24.51	6.71	12.42	114.61	8 10 0	1178.0	-20.99	359.33
110.00	21 48 6	3851.60	4.91	143.14	10.03	56.13	22 52 18	3251.6	.43	136.92

DIFFERENTIAL CORRECTIONS
TOE -.0328 TRA .3017 TC3-3.9420 BAU .4942
ROE -.1640 RRA .6816 RC3-4.7285 FAU .12767
FOE -.7794 FRA 2.5786 FC-18.4086 BSP 10784
BOE .1672 BRA .7454 BC3 6.1561 FSP -3052

MID-COURSE EXECUTION ACCURACY
SGT 2062.5 SGR 2854.7 SG3 955.8
RRT .9632 RRF .9994 RTF .9632
SGB 3521.8 R23 .0904 R13 .9953
SG1 3492.5 SG2 452.8 THA 54.48

ORBIT DETERMINATION ACCURACY
ST 235.9 SR 623.5 SS 840.3
CRT .9403 CRS -.9937 CST -.8987
LSA 1067.0 MSA 108.0 SSA 14.7
EL1 662.3 EL2 75.6 ALF 70.15

LAUNCH DATE MAY 26 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 2 1967

HELIOCENTRIC CONIC DISTANCE 437.733

RL 151.54 LAL .00 LOL 244.08 VL 26.994 GAL 1.58 AZL 90.46 HCA 194.19 SMA 129.74 ECC .17017 INC .4540 VI 29.401
RP 107.77 LAP .11 LOP 78.27 VP 37.949 GAP .94 AZP 89.56 TAL 172.27 TAP 6.46 RCA 107.67 APO 151.82 V2 35.165
RC 94.474 GL -5.00 GP -34.45 ZAL 79.85 ZAP 103.58 ETS 351.47 ZAE 143.31 ETE 234.66 ZAC 117.38 ETC 359.88 CLP-106.54

PLANETOCENTRIC CONIC

C3 6.076 VHL 2.465 DLA 1.57 RAL 163.59 RAD 6567.2 VEL 11.290 PTH 1.94 VHP 3.453 DPA -18.44 RAP 142.99 ECC 1.1000

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 52 21	2019.48	-14.41	29.49	9.14	114.64	6 26 1	1419.5	-10.96	22.51
90.00	18 13 41	4566.07	11.57	192.70	8.83	63.97	19 29 47	3966.1	7.97	185.86
100.00	7 14 26	1754.75	-15.08	9.69	8.81	116.12	7 43 40	1154.7	-11.45	2.78
100.00	19 34 18	4306.03	12.23	173.23	8.48	62.51	20 46 4	3706.0	8.46	166.48
110.00	8 24 21	1535.89	-16.88	352.08	7.81	120.18	8 49 57	935.9	-12.74	345.41
110.00	20 40 52	4097.66	14.01	156.39	7.45	58.50	21 49 9	3497.7	9.74	149.89

DIFFERENTIAL CORRECTIONS
TOE -.2270 TRA .3357 TC3-4.5613 BAU .4861
ROE -.2665 RRA .5356 RC3-3.8732 FAU .14726
FOE-1.6867 FRA 2.8084 FC-20.9827 BSP 10346
BOE .3501 BRA .6321 BC3 5.9839 FSP -3559

MID-COURSE EXECUTION ACCURACY
SGT 2438.1 SGR 2362.4 SG3 1109.9
RRT .9710 RRF .9989 RTF .9715
SGB 3394.8 R23 .1177 R13 .9920
SG1 3370.2 SG2 408.4 THA 44.07

ORBIT DETERMINATION ACCURACY
ST 581.1 SR 725.7 SS 1310.7
CRT .9916 CRS -.9968 CST -.9979
LSA 1605.6 MSA 61.6 SSA 22.3
EL1 927.9 EL2 58.8 ALF 51.37

LAUNCH DATE MAY 26 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 4 1967

HELIOCENTRIC CONIC DISTANCE 444.027

RL 151.54 LAL .00 LOL 244.08 VL 26.986 GAL 1.67 AZL 91.01 HCA 197.42 SMA 129.69 ECC .17090 INC 1.0111 VI 29.401
RP 107.73 LAP .30 LOP 81.50 VP 37.954 GAP 1.35 AZP 89.03 TAL 171.84 TAP 9.26 RCA 107.53 APO 151.86 V2 35.175
RC 96.719 GL -10.89 GP -28.57 ZAL 79.05 ZAP 108.72 ETS 350.42 ZAE 145.52 ETE 224.42 ZAC 118.80 ETC 2.20 CLP-111.44

PLANETOCENTRIC CONIC

C3 6.356 VHL 2.521 DLA -4.23 RAL 162.20 RAD 6567.2 VEL 11.303 PTH 1.94 VHP 3.345 DPA -12.43 RAP 143.72 ECC 1.1046

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 29 57	1847.01	-9.29	19.41	7.76	116.87	7 0 44	1247.0	-5.61	12.66
90.00	17 25 4	4753.73	16.89	203.90	8.62	66.93	18 44 17	4153.7	13.63	196.75
100.00	7 49 18	1591.00	-9.97	.22	7.40	118.33	8 15 49	991.0	-6.11	353.57
100.00	18 48 23	4484.97	17.60	183.81	8.30	65.44	20 3 8	3885.0	14.14	176.73
110.00	8 53 0	1391.59	-11.77	344.02	6.33	122.33	9 16 12	791.6	-7.42	337.62
110.00	20 1 11	4257.15	19.46	165.53	7.31	61.33	21 12 8	3657.2	15.49	158.67

DIFFERENTIAL CORRECTIONS
TOE -.4014 TRA .3825 TC3-4.9614 BAU .4963
ROE -.2898 RRA .4390 RC3-3.0825 FAU .15551
FOE-2.3756 FRA 2.9062 FC-21.1813 BSP 10416
BOE .4950 BRA .5823 BC3 5.8410 FSP -3807

MID-COURSE EXECUTION ACCURACY
SGT 2801.8 SGR 1962.2 SG3 1181.7
RRT .9751 RRF .9979 RTF .9763
SGB 3420.6 R23 .1349 R13 .9888
SG1 3401.8 SG2 358.3 THA 34.77

ORBIT DETERMINATION ACCURACY
ST 951.9 SR 725.2 SS 1665.0
CRT .9889 CRS -.9972 CST -.9970
LSA 2048.5 MSA 88.1 SSA 15.3
EL1 1193.6 EL2 85.8 ALF 37.22

LAUNCH DATE MAY 26 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 6 1967

HELIOCENTRIC CONIC DISTANCE 450.303

RL 151.54 LAL .00 LOL 244.08 VL 26.976 GAL 1.78 AZL 91.40 HCA 200.65 SMA 129.63 ECC .17180 INC 1.3976 VI 29.401
RP 107.70 LAP .49 LOP 84.72 VP 37.956 GAP 1.75 AZP 88.69 TAL 171.36 TAP 12.01 RCA 107.36 APO 151.90 V2 35.185
RC 98.967 GL -14.74 GP -24.08 ZAL 78.19 ZAP 113.63 ETS 349.83 ZAE 145.86 ETE 215.41 ZAC 119.86 ETC 4.19 CLP-116.04

PLANETOCENTRIC CONIC

C3 6.686 VHL 2.586 DLA -8.18 RAL 161.66 RAD 6567.2 VEL 11.317 PTH 1.95 VHP 3.327 DPA -7.79 RAP 144.05 ECC 1.1100

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 58 3	1730.67	-5.65	12.80	7.71	117.79	7 26 53	1130.7	-1.88	6.14
90.00	16 52 39	4887.40	20.26	212.27	9.42	69.78	18 14 7	4287.4	17.32	204.82
100.00	8 15 26	1481.02	-6.36	354.06	7.32	119.27	8 40 7	881.0	-2.41	347.49
100.00	18 17 57	4612.29	21.01	191.72	9.11	68.24	19 34 50	4012.3	17.87	184.34
110.00	9 14 39	1295.58	-8.23	338.84	6.18	123.30	9 36 15	695.6	-3.79	332.56
110.00	19 35 13	4370.49	23.01	172.41	8.16	64.00	20 48 4	3770.5	19.33	165.21

DIFFERENTIAL CORRECTIONS
TOE -.5618 TRA .4391 TC3-5.2448 BAU .5177
ROE -.2768 RRA .3727 RC3-2.4579 FAU .15580
FOE-2.8364 FRA 2.9345 FC-20.1748 BSP 10775
BOE .6263 BRA .5760 BC3 5.7922 FSP -3846

MID-COURSE EXECUTION ACCURACY
SGT 3142.1 SGR 1639.5 SG3 1195.7
RRT .9767 RRF .9960 RTF .9792
SGB 3544.1 R23 .1394 R13 .9866
SG1 3530.2 SG2 313.5 THA 27.24

ORBIT DETERMINATION ACCURACY
ST 1282.0 SR 663.6 SS 1895.4
CRT .9880 CRS -.9965 CST -.9973
LSA 2380.3 MSA 101.8 SSA 13.8
EL1 1440.7 EL2 91.0 ALF 27.20

LAUNCH DATE MAY 26 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 8 1967

HELIOCENTRIC CONIC DISTANCE 456.560
RL 151.54 LAL .00 LOL 244.08 VL 26.965 GAL 1.90 AZL 91.68 HCA 203.88 SMA 129.55 ECC .17287 INC 1.6834 VI 29.401
RP 107.67 LAP .68 LOP 87.95 VP 37.956 GAP 2.16 AZP 88.46 TAL 170.84 TAP 14.72 RCA 107.15 APO 151.94 V2 35.195
RC 101.218 GL -17.38 GP -20.58 ZAL 77.24 ZAP 118.23 ETS 349.51 ZAE 145.10 ETE 208.12 ZAC 120.61 ETC 5.89 CLP-120.34
PLANETOCENTRIC CONIC
C3 7.025 VHL 2.651 DLA -11.05 RAL 161.65 RAD 6567.2 VEL 11.332 PTH 1.95 VHP 3.363 DPA -4.16 RAP 144.25 ECC 1.1156

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 21 3	1645.66	-2.93	8.03	8.35	118.18	7 48 28	1045.7	.86	1.40
90.00	16 29 34	4989.75	22.52	218.92	10.72	72.37	17 52 44	4389.7	19.90	211.23
100.00	8 36 51	1401.11	-3.68	349.64	7.94	119.69	9 0 12	801.1	.30	343.11
100.00	17 56 27	4709.53	23.33	198.01	10.42	70.77	19 14 57	4109.5	20.50	190.37
110.00	9 32 32	1226.73	-5.64	335.19	6.72	123.77	9 52 59	626.7	-1.16	328.96
110.00	19 17 16	4456.67	25.48	177.89	9.50	66.40	20 31 32	3856.7	22.06	170.40

DIFFERENTIAL CORRECTIONS
TDE -.7138 TRA .5012 TC3-5.4627 BAU .5461
RDE -.2501 RRA .3242 RC3-1.9904 FAU .15174
FDE-3.1275 FRA 2.9115 FC-18.6990 BSP 11381
BDE .7564 BRA .5969 BC3 5.8140 FSP -3795

MID-COURSE EXECUTION ACCURACY
SGT 3462.0 SGR 1384.0 SG3 1175.4
RRT .9763 RRF .9928 RTF .9812
SGB 3728.4 R23 .1318 R13 .9856
SG1 3717.9 SG2 278.9 THA 21.45

ORBIT DETERMINATION ACCURACY
ST 1580.6 SR 582.4 SS 2043.9
CRT .9863 CRS -.9949 CST -.9978
LSA 2646.3 MSA 108.7 SSA 13.6
EL1 1682.1 EL2 90.2 ALF 20.03

LAUNCH DATE MAY 26 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 10 1967

HELIOCENTRIC CONIC DISTANCE 462.798
RL 151.54 LAL .00 LOL 244.08 VL 26.952 GAL 2.03 AZL 91.90 HCA 207.12 SMA 129.46 ECC .17412 INC 1.9047 VI 29.401
RP 107.65 LAP .87 LOP 91.19 VP 37.955 GAP 2.56 AZP 88.30 TAL 170.27 TAP 17.39 RCA 106.92 APO 152.00 V2 35.204
RC 103.470 GL -19.26 GP -17.80 ZAL 76.20 ZAP 122.49 ETS 349.37 ZAE 143.75 ETE 202.50 ZAC 121.06 ETC 7.37 CLP-124.35
PLANETOCENTRIC CONIC
C3 7.369 VHL 2.715 DLA -13.24 RAL 162.01 RAD 6567.2 VEL 11.347 PTH 1.96 VHP 3.434 DPA -1.29 RAP 144.45 ECC 1.1213

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 41 2	1579.95	-.81	4.36	9.42	118.31	8 7 22	979.9	2.98	357.73
90.00	16 12 26	5072.44	24.12	224.45	12.30	74.69	17 36 58	4472.4	21.78	216.56
100.00	8 55 28	1339.78	-1.61	346.27	8.98	119.85	9 17 48	739.8	2.38	339.74
100.00	17 40 40	4787.84	24.99	203.24	12.02	73.04	19 0 28	4187.8	22.43	195.38
110.00	9 48 11	1174.68	-3.66	332.46	7.70	124.01	10 7 46	574.7	.83	326.25
110.00	19 4 27	4525.70	27.28	182.45	11.13	68.55	20 19 53	3925.7	24.12	174.71

DIFFERENTIAL CORRECTIONS
TDE -.8585 TRA .5680 TC3-5.6299 BAU .5776
RDE -.2181 RRA .2881 RC3-1.6386 FAU .14513
FDE-3.2868 FRA 2.8596 FC-17.0500 BSP 12089
BDE .8858 BRA .6369 BC3 5.8635 FSP -3672

MID-COURSE EXECUTION ACCURACY
SGT 3760.7 SGR 1180.5 SG3 1134.0
RRT .9737 RRF .9876 RTF .9826
SGB 3941.6 R23 .1155 R13 .9851
SG1 3933.2 SG2 257.2 THA 17.07

ORBIT DETERMINATION ACCURACY
ST 1851.6 SR 497.6 SS 2132.7
CRT .9829 CRS -.9921 CST -.9981
LSA 2865.6 MSA 112.7 SSA 14.0
EL1 1915.3 EL2 88.7 ALF 14.83

LAUNCH DATE MAY 26 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 12 1967

HELIOCENTRIC CONIC DISTANCE 469.016
RL 151.54 LAL .00 LOL 244.08 VL 26.937 GAL 2.18 AZL 92.08 HCA 210.36 SMA 129.36 ECC .17554 INC 2.0818 VI 29.401
RP 107.62 LAP 1.05 LOP 94.42 VP 37.952 GAP 2.95 AZP 88.20 TAL 169.66 TAP 20.02 RCA 106.65 APO 152.06 V2 35.212
RC 105.723 GL -20.61 GP -15.55 ZAL 75.06 ZAP 126.43 ETS 349.34 ZAE 142.14 ETE 198.24 ZAC 121.24 ETC 8.63 CLP-128.06
PLANETOCENTRIC CONIC
C3 7.718 VHL 2.778 DLA -14.99 RAL 162.64 RAD 6567.3 VEL 11.363 PTH 1.96 VHP 3.531 DPA .98 RAP 144.72 ECC 1.1270

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 59 7	1527.08	.89	1.42	10.79	118.30	8 24 34	927.1	4.67	354.77
90.00	15 59 22	5142.06	25.28	229.22	14.08	76.81	17 25 4	4542.1	23.22	221.16
100.00	9 12 20	1290.83	.05	343.58	10.32	119.89	9 33 51	690.8	4.03	337.05
100.00	17 28 50	4853.54	26.22	207.74	13.82	75.10	18 49 44	4253.5	23.92	199.69
110.00	10 2 28	1133.84	-2.10	330.32	8.97	124.13	10 21 21	533.8	2.39	324.12
110.00	18 55 12	4583.30	28.65	186.37	12.97	70.50	20 11 36	3983.3	25.72	178.41

DIFFERENTIAL CORRECTIONS
TDE -.9951 TRA .6419 TC3-5.7392 BAU .6087
RDE -.1843 RRA .2617 RC3-1.3655 FAU .13655
FDE-3.3430 FRA 2.8028 FC-15.3168 BSP 12799
BDE 1.0120 BRA .6932 BC3 5.8994 FSP -3498

MID-COURSE EXECUTION ACCURACY
SGT 4032.3 SGR 1016.0 SG3 1078.4
RRT .9679 RRF .9795 RTF .9834
SGB 4158.3 R23 .0959 R13 .9849
SG1 4150.9 SG2 248.1 THA 13.76

ORBIT DETERMINATION ACCURACY
ST 2095.3 SR 416.0 SS 2174.9
CRT .9764 CRS -.9870 CST -.9983
LSA 3046.3 MSA 115.6 SSA 14.5
EL1 2134.4 EL2 88.1 ALF 10.99

LAUNCH DATE MAY 26 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 14 1967

HELIOCENTRIC CONIC DISTANCE 475.215
RL 151.54 LAL .00 LOL 244.08 VL 26.920 GAL 2.34 AZL 92.23 HCA 213.60 SMA 129.25 ECC .17712 INC 2.2280 VI 29.401
RP 107.60 LAP 1.23 LOP 97.66 VP 37.948 GAP 3.35 AZP 88.14 TAL 169.01 TAP 22.61 RCA 106.35 APO 152.14 V2 35.220
RC 107.975 GL -21.59 GP -13.71 ZAL 73.85 ZAP 130.07 ETS 349.35 ZAE 140.45 ETE 195.02 ZAC 121.18 ETC 9.71 CLP-131.50
PLANETOCENTRIC CONIC
C3 8.077 VHL 2.842 DLA -16.43 RAL 163.49 RAD 6567.3 VEL 11.378 PTH 1.97 VHP 3.647 DPA 2.79 RAP 145.12 ECC 1.1329

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 15 57	1483.30	2.31	358.97	12.38	118.23	8 40 40	883.3	6.06	352.31
90.00	15 49 17	5202.59	26.16	233.43	16.02	78.75	17 16 0	4602.6	24.34	225.24
100.00	9 28 3	1250.67	1.42	341.38	11.88	119.86	9 48 53	650.7	5.38	334.83
100.00	17 19 52	4910.46	27.15	211.71	15.78	76.99	18 41 43	4310.5	25.09	203.51
110.00	10 15 50	1100.96	-.85	328.61	10.47	124.17	10 34 11	501.0	3.64	322.40
110.00	18 48 34	4632.92	29.73	189.83	14.98	72.29	20 5 47	4032.9	27.02	181.68

DIFFERENTIAL CORRECTIONS
TDE-1.1263 TRA .7203 TC3-5.8113 BAU .6399
RDE -.1517 RRA .2415 RC3-1.1566 FAU .12762
FDE-3.3345 FRA 2.7364 FC-13.6779 BSP 13533
BDE 1.1364 BRA .7597 BC3 5.9253 FSP -3314

MID-COURSE EXECUTION ACCURACY
SGT 4284.7 SGR 885.0 SG3 1017.6
RRT .9584 RRF .9676 RTF .9839
SGB 4375.1 R23 .0752 R13 .9848
SG1 4368.1 SG2 247.9 THA 11.23

ORBIT DETERMINATION ACCURACY
ST 2317.6 SR 342.1 SS 2188.1
CRT .9652 CRS -.9776 CST -.9985
LSA 3203.4 MSA 117.6 SSA 15.0
EL1 2341.1 EL2 88.6 ALF 8.12

```
LAUNCH DATE  MAY 26 1967                          FLIGHT TIME 174.00                          ARRIVAL DATE  NOV 16 1967

  HELIOCENTRIC CONIC                                  DISTANCE 481.394
   RL  151.54 LAL    .00 LOL 244.08 VL  26.903 GAL   2.51 AZL  92.35 HCA 216.84 SMA 129.13 ECC .17888 INC 2.3512 VI  29.401
   RP  107.58 LAP   1.41 LOP 100.89 VP  37.942 GAP   3.74 AZP  88.12 TAL 168.32 TAP  25.15 RCA 106.03 APO 152.22 V2  35.227
   RC 110.226 GL  -22.29 GP  -12.18 ZAL  72.55 ZAP 133.42 ETS 349.40 ZAE 138.80 ETE 192.57 ZAC 120.89 ETC  10.61 CLP-134.68
  PLANETOCENTRIC CONIC
   C3   8.453 VHL  2.907 DLA -17.64 RAL 164.51 RAD 6567.3 VEL 11.395 PTH   1.97 VHP  3.778 DPA   4.23 RAP 145.65 ECC 1.1391
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     8 31 55   1446.31       3.50     356.90      14.16      118.12    8 56  1     846.3       7.23      350.22
      90.00    15 41 27   5256.58      26.82     237.25      18.10       80.55   17  9  4    4656.6      25.24      228.94
     100.00     9 42 57   1217.07       2.55     339.53      13.64      119.79   10  3 14     617.1       6.50      332.97
     100.00    17 13  6   4961.05      27.88     215.29      17.88       78.75   18 35 47    4361.0      26.04      206.97
     110.00    10 28 36   1074.07        .18     327.20      12.15      124.18   10 46 30     474.1       4.66      320.99
     110.00    18 43 57   4676.82      30.60     192.95      17.13       73.96   20  1 54    4076.8      28.09      184.65
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE-1.2492 TRA  .8078 TC3-5.8274 BAU  .6680      SGT 4509.1 SGR  778.8 SG3  952.5      ST  2514.2 SR   275.7 SS  2173.0
   RDE -.1200 RRA  .2270 RC3 -.9883 FAU .11791      RRT  .9436 RRF  .9505 RTF  .9839      CRT  .9439 CRS -.9594 CST -.9986
   FDE-3.2691 FRA 2.6809 FC-12.0753 BSP  14166      SGB 4575.9 R23  .0577 R13  .9845      LSA 3332.4 MSA  120.2 SSA   15.6
   BDE 1.2549 BRA  .8391 BC3 5.9106 FSP  -3096      SG1 4568.8 SG2  254.5 THA   9.28      EL1 2527.7 EL2   90.6 ALF   5.92

LAUNCH DATE  MAY 26 1967                          FLIGHT TIME 176.00                          ARRIVAL DATE  NOV 18 1967

  HELIOCENTRIC CONIC                                  DISTANCE 487.552
   RL  151.54 LAL    .00 LOL 244.08 VL  26.884 GAL   2.70 AZL  92.46 HCA 220.08 SMA 129.00 ECC .18081 INC 2.4572 VI  29.401
   RP  107.56 LAP   1.58 LOP 104.13 VP  37.934 GAP   4.14 AZP  88.12 TAL 167.59 TAP  27.66 RCA 105.67 APO 152.32 V2  35.233
   RC 112.475 GL  -22.77 GP  -10.90 ZAL  71.20 ZAP 136.51 ETS 349.45 ZAE 137.24 ETE 190.70 ZAC 120.39 ETC  11.37 CLP-137.63
  PLANETOCENTRIC CONIC
   C3   8.851 VHL  2.975 DLA -18.67 RAL 165.67 RAD 6567.3 VEL 11.412 PTH   1.98 VHP  3.922 DPA   5.35 RAP 146.32 ECC 1.1457
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     8 47 15   1414.66       4.51     355.13      16.10      117.99    9 10 50     814.7       8.22      348.42
      90.00    15 35 25   5305.70      27.32     240.76      20.30       82.24   17  3 50    4705.7      25.96      232.35
     100.00     9 57 17   1188.67       3.51     337.97      15.55      119.70   10 17  6     588.7       7.44      331.38
     100.00    17  8  4   5006.91      28.44     218.58      20.10       80.39   18 31 31    4406.9      26.82      210.16
     110.00    10 40 56   1051.91       1.03     326.05      14.00      124.17   10 58 28     451.9       5.50      319.82
     110.00    18 40 54   4716.44      31.31     195.82      19.40       75.52   19 59 31    4116.4      29.00      187.37
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE-1.3699 TRA  .8991 TC3-5.8179 BAU  .6959      SGT 4720.6 SGR  695.1 SG3  890.2      ST  2696.5 SR   219.6 SS  2149.5
   RDE -.0910 RRA  .2155 RC3 -.8577 FAU .10893      RRT  .9234 RRF  .9275 RTF  .9840      CRT  .9052 CRS -.9247 CST -.9987
   FDE-3.1863 FRA 2.6176 FC-10.6548 BSP  14828      SGB 4771.5 R23  .0417 R13  .9843      LSA 3453.2 MSA  122.0 SSA   16.1
   BDE 1.3729 BRA  .9245 BC3 5.8808 FSP  -2904      SG1 4764.1 SG2  264.4 THA   7.77      EL1 2703.9 EL2   93.1 ALF   4.22

LAUNCH DATE  MAY 26 1967                          FLIGHT TIME 178.00                          ARRIVAL DATE  NOV 20 1967

  HELIOCENTRIC CONIC                                  DISTANCE 493.688
   RL  151.54 LAL    .00 LOL 244.08 VL  26.864 GAL   2.91 AZL  92.55 HCA 223.32 SMA 128.86 ECC .18292 INC 2.5498 VI  29.401
   RP  107.54 LAP   1.75 LOP 107.37 VP  37.925 GAP   4.53 AZP  88.14 TAL 166.82 TAP  30.14 RCA 105.29 APO 152.43 V2  35.239
   RC 114.720 GL  -23.07 GP   -9.83 ZAL  69.78 ZAP 139.37 ETS 349.49 ZAE 135.78 ETE 189.24 ZAC 119.71 ETC  11.99 CLP-140.38
  PLANETOCENTRIC CONIC
   C3   9.277 VHL  3.046 DLA -19.57 RAL 166.96 RAD 6567.3 VEL 11.431 PTH   1.98 VHP  4.076 DPA   6.22 RAP 147.13 ECC 1.1527
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     9  2  7   1387.39       5.38     353.60      18.18      117.84    9 25 15     787.4       9.06      346.86
      90.00    15 30 49   5351.09      27.69     244.03      22.61       83.84   17  0  0    4751.1      26.55      235.54
     100.00    10 11 11   1164.56       4.32     336.64      17.60      119.61   10 30 35     564.6       8.24      330.04
     100.00    17  4 27   5049.16      28.88     221.65      22.44       81.95   18 28 36    4449.2      27.47      213.13
     110.00    10 52 57   1033.67       1.72     325.10      15.98      124.14   11 10 10     433.7       6.19      318.86
     110.00    18 39 11   4752.80      31.89     198.49      21.79       77.00   19 58 23    4152.8      29.78      189.92
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE-1.4861 TRA  .9975 TC3-5.7740 BAU  .7221      SGT 4914.6 SGR  628.7 SG3  830.1      ST  2860.7 SR   173.1 SS  2114.4
   RDE -.0638 RRA  .2071 RC3 -.7522 FAU .10034      RRT  .8966 RRF  .8976 RTF  .9839      CRT  .8298 CRS -.8550 CST -.9988
   FDE-3.0843 FRA 2.5590 FC3-9.3645 BSP  15451      SGB 4954.6 R23  .0285 R13  .9841      LSA 3559.3 MSA  124.0 SSA   16.5
   BDE 1.4875 BRA 1.0188 BC3 5.8228 FSP  -2718      SG1 4946.9 SG2  276.6 THA   6.56      EL1 2864.3 EL2   96.5 ALF   2.88

LAUNCH DATE  MAY 26 1967                          FLIGHT TIME 180.00                          ARRIVAL DATE  NOV 22 1967

  HELIOCENTRIC CONIC                                  DISTANCE 499.802
   RL  151.54 LAL    .00 LOL 244.08 VL  26.842 GAL   3.12 AZL  92.63 HCA 226.57 SMA 128.72 ECC .18522 INC 2.6319 VI  29.401
   RP  107.52 LAP   1.91 LOP 110.61 VP  37.915 GAP   4.93 AZP  88.19 TAL 166.02 TAP  32.58 RCA 104.88 APO 152.56 V2  35.244
   RC 116.961 GL  -23.23 GP   -8.91 ZAL  68.30 ZAP 142.02 ETS 349.51 ZAE 134.44 ETE 188.10 ZAC 118.86 ETC  12.49 CLP-142.93
  PLANETOCENTRIC CONIC
   C3   9.737 VHL  3.120 DLA -20.36 RAL 168.35 RAD 6567.4 VEL 11.451 PTH   1.99 VHP  4.240 DPA   6.86 RAP 148.08 ECC 1.1602
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     9 16 36   1363.91       6.12     352.28      20.39      117.70    9 39 20     763.9       9.78      345.51
      90.00    15 27 27   5393.54      27.97     247.10      25.02       85.36   16 57 21    4793.5      27.03      238.56
     100.00    10 24 42   1144.14       5.01     335.51      19.78      119.51   10 43 46     544.1       8.90      328.89
     100.00    17  2  3   5088.54      29.23     224.52      24.88       83.43   18 26 51    4488.5      28.01      215.93
     110.00    11  4 41   1018.83       2.29     324.32      18.09      124.12   11 21 40     418.8       6.75      318.08
     110.00    18 38 33   4786.62      32.39     201.00      24.29       78.41   19 58 19    4186.6      30.45      192.32
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE-1.5982 TRA 1.1035 TC3-5.6967 BAU  .7466      SGT 5091.3 SGR  576.0 SG3  772.7      ST  3007.3 SR   137.6 SS  2070.4
   RDE -.0380 RRA  .2008 RC3 -.6650 FAU .09218      RRT  .8627 RRF  .8605 RTF  .9838      CRT  .6827 CRS -.7149 CST -.9989
   FDE-2.9704 FRA 2.5050 FC3-8.1965 BSP  16028      SGB 5123.8 R23  .0179 R13  .9839      LSA 3651.5 MSA  126.2 SSA   16.9
   BDE 1.5987 BRA 1.1216 BC3 5.7354 FSP  -2539      SG1 5115.6 SG2  289.9 THA   5.59      EL1 3008.8 EL2  100.5 ALF   1.79
```

LAUNCH DATE MAY 26 1967 FLIGHT TIME 182.00 ARRIVAL DATE NOV 24 1967

HELIOCENTRIC CONIC DISTANCE 505.894
RL 151.54 LAL .00 LOL 244.08 VL 26.820 GAL 3.36 AZL 92.71 HCA 229.81 SMA 128.57 ECC .18771 INC 2.7057 V1 29.401
RP 107.51 LAP 2.07 LOP 113.86 VP 37.903 GAP 5.33 AZP 88.25 TAL 165.19 TAP 35.00 RCA 104.44 APO 152.70 V2 35.248
RC 119.197 GL -23.27 GP -8.13 ZAL 66.79 ZAP 144.49 ETS 349.50 ZAE 133.22 ETE 187.20 ZAC 117.86 ETC 12.89 CLP-145.31
PLANETOCENTRIC CONIC
C3 10.237 VHL 3.200 DLA -21.05 RAL 169.84 RAD 6567.4 VEL 11.473 PTH 1.99 VHP 4.412 DPA 7.33 RAP 149.15 ECC 1.1685

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 30 44	1343.82	6.76	351.14	22.71	117.56	9 53 8	743.8	10.40	344.35
90.00	15 25 9	5433.60	28.15	250.02	27.52	86.81	16 55 43	4833.6	27.41	241.43
100.00	10 37 54	1127.05	5.58	334.57	22.07	119.41	10 56 41	527.0	9.46	327.92
100.00	17 0 40	5125.60	29.48	227.25	27.41	84.84	18 26 6	4525.6	28.46	218.60
110.00	11 16 12	1007.04	2.74	323.71	20.31	124.09	11 32 59	407.0	7.20	317.45
110.00	18 38 52	4818.38	32.79	203.39	26.89	79.77	19 59 10	4218.4	31.04	194.61

DIFFERENTIAL CORRECTIONS
TDE-1.7068 TRA 1.2177 TC3-5.5889 BAU .7692
RDE -.0135 RRA .1964 RC3 -.5920 FAU .08454
FDE-2.8518 FRA 2.4566 FC3-7.1493 BSP 16550
BDE 1.7068 BRA 1.2334 BC3 5.6202 FSP -2368

MID-COURSE EXECUTION ACCURACY
SGT 5252.8 SGR 534.9 SG3 718.9
RRT .8220 RRF .8163 RTF .9835
SGB 5279.9 R23 .0092 R13 .9836
SG1 5271.2 SG2 303.6 THA 4.80

ORBIT DETERMINATION ACCURACY
ST 3137.6 SR 116.2 SS 2020.8
CRT .4238 CRS -.4630 CST -.9990
LSA 3731.6 MSA 128.8 SSA 17.1
EL1 3138.0 EL2 105.2 ALF .90

LAUNCH DATE MAY 26 1967 FLIGHT TIME 184.00 ARRIVAL DATE NOV 26 1967

HELIOCENTRIC CONIC DISTANCE 511.962
RL 151.54 LAL .00 LOL 244.08 VL 26.797 GAL 3.60 AZL 92.77 HCA 233.06 SMA 128.42 ECC .19039 INC 2.7727 V1 29.401
RP 107.50 LAP 2.22 LOP 117.10 VP 37.890 GAP 5.73 AZP 88.33 TAL 164.32 TAP 37.38 RCA 103.97 APO 152.87 V2 35.252
RC 121.426 GL -23.20 GP -7.45 ZAL 65.23 ZAP 146.78 ETS 349.46 ZAE 132.11 ETE 186.47 ZAC 116.74 ETC 13.20 CLP-147.54
PLANETOCENTRIC CONIC
C3 10.785 VHL 3.284 DLA -21.66 RAL 171.39 RAD 6567.4 VEL 11.497 PTH 2.00 VHP 4.593 DPA 7.64 RAP 150.33 ECC 1.1775

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 44 32	1326.87	7.29	350.18	25.14	117.44	10 6 38	726.9	10.91	343.37
90.00	15 23 47	5471.65	28.26	252.80	30.12	88.20	16 54 59	4871.7	27.72	244.17
100.00	10 50 47	1113.04	6.05	333.79	24.46	119.33	11 9 20	513.0	9.91	327.13
100.00	17 0 13	5160.72	29.67	229.84	30.04	86.19	18 26 14	4560.7	28.83	221.14
110.00	11 27 28	998.05	3.08	323.24	22.62	124.06	11 44 6	398.1	7.53	316.98
110.00	18 40 1	4848.47	33.14	205.67	29.58	81.08	20 0 50	4248.5	31.55	196.81

DIFFERENTIAL CORRECTIONS
TDE-1.8106 TRA 1.3428 TC3-5.4460 BAU .7889
RDE .0102 RRA .1935 RC3 -.5288 FAU .07718
FDE-2.7276 FRA 2.4179 FC3-6.1951 BSP 16987
BDE 1.8106 BRA 1.3567 BC3 5.4717 FSP -2200

MID-COURSE EXECUTION ACCURACY
SGT 5397.0 SGR 502.8 SG3 668.2
RRT .7745 RRF .7656 RTF .9830
SGB 5420.3 R23 .0026 R13 .9831
SG1 5411.0 SG2 317.3 THA 4.14

ORBIT DETERMINATION ACCURACY
ST 3249.8 SR 110.9 SS 1964.7
CRT .0762 CRS -.1188 CST -.9990
LSA 3796.9 MSA 132.3 SSA 17.3
EL1 3249.9 EL2 110.6 ALF .15

LAUNCH DATE MAY 26 1967 FLIGHT TIME 186.00 ARRIVAL DATE NOV 28 1967

HELIOCENTRIC CONIC DISTANCE 518.005
RL 151.54 LAL .00 LOL 244.08 VL 26.773 GAL 3.87 AZL 92.83 HCA 236.30 SMA 128.26 ECC .19328 INC 2.8343 V1 29.401
RP 107.49 LAP 2.36 LOP 120.35 VP 37.876 GAP 6.14 AZP 88.43 TAL 163.43 TAP 39.74 RCA 103.47 APO 153.05 V2 35.255
RC 123.648 GL -23.04 GP -6.87 ZAL 63.64 ZAP 148.93 ETS 349.38 ZAE 131.10 ETE 185.88 ZAC 115.49 ETC 13.44 CLP-149.63
PLANETOCENTRIC CONIC
C3 11.388 VHL 3.375 DLA -22.20 RAL 173.01 RAD 6567.4 VEL 11.523 PTH 2.01 VHP 4.781 DPA 7.81 RAP 151.62 ECC 1.1874

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 57 58	1312.96	7.73	349.39	27.66	117.33	10 19 51	713.0	11.33	342.56
90.00	15 23 16	5507.94	28.31	255.45	32.79	89.53	16 55 4	4907.9	27.95	246.80
100.00	11 3 20	1101.98	6.42	333.17	26.95	119.26	11 21 42	502.0	10.27	326.50
100.00	17 0 35	5194.15	29.80	232.32	32.75	87.49	18 27 10	4594.2	29.13	223.58
110.00	11 38 30	991.75	3.32	322.91	25.03	124.04	11 55 1	391.8	7.77	316.64
110.00	18 41 55	4877.14	33.42	207.86	32.37	82.34	20 3 12	4277.1	32.00	198.92

DIFFERENTIAL CORRECTIONS
TDE-1.9147 TRA 1.4736 TC3-5.2918 BAU .8089
RDE .0328 RRA .1912 RC3 -.4753 FAU .07068
FDE-2.6117 FRA 2.3777 FC3-5.3736 BSP 17464
BDE 1.9150 BRA 1.4860 BC3 5.3131 FSP -2058

MID-COURSE EXECUTION ACCURACY
SGT 5534.1 SGR 478.5 SG3 622.0
RRT .7222 RRF .7099 RTF .9827
SGB 5554.8 R23 -.0033 R13 .9827
SG1 5545.0 SG2 330.3 THA 3.59

ORBIT DETERMINATION ACCURACY
ST 3352.2 SR 119.4 SS 1910.2
CRT -.2364 CRS .1958 CST -.9991
LSA 3857.7 MSA 135.5 SSA 17.4
EL1 3352.3 EL2 116.0 ALF 179.52

LAUNCH DATE MAY 26 1967 FLIGHT TIME 188.00 ARRIVAL DATE NOV 30 1967

HELIOCENTRIC CONIC DISTANCE 524.022
RL 151.54 LAL .00 LOL 244.08 VL 26.748 GAL 4.15 AZL 92.89 HCA 239.55 SMA 128.09 ECC .19639 INC 2.8914 V1 29.401
RP 107.48 LAP 2.49 LOP 123.60 VP 37.861 GAP 6.55 AZP 88.53 TAL 162.52 TAP 42.07 RCA 102.94 APO 153.25 V2 35.257
RC 125.861 GL -22.81 GP -6.36 ZAL 62.03 ZAP 150.95 ETS 349.27 ZAE 130.19 ETE 185.39 ZAC 114.14 ETC 13.61 CLP-151.60
PLANETOCENTRIC CONIC
C3 12.053 VHL 3.472 DLA -22.67 RAL 174.68 RAD 6567.5 VEL 11.552 PTH 2.02 VHP 4.976 DPA 7.86 RAP 153.00 ECC 1.1984

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 11 1	1302.01	8.07	348.77	30.26	117.24	10 32 43	702.0	11.66	341.93
90.00	15 23 33	5542.64	28.31	257.99	35.55	90.80	16 55 56	4942.6	28.12	249.33
100.00	11 15 31	1093.79	6.69	332.72	29.51	119.20	11 33 45	493.8	10.53	326.04
100.00	17 1 44	5226.09	29.87	234.69	35.54	88.73	18 28 50	4626.1	29.37	225.92
110.00	11 49 15	988.03	3.47	322.71	27.52	124.03	12 5 43	388.0	7.91	316.44
110.00	18 44 29	4904.61	33.65	209.98	35.24	83.57	20 6 14	4304.6	32.39	200.97

DIFFERENTIAL CORRECTIONS
TDE-2.0162 TRA 1.6145 TC3-5.1150 BAU .8271
RDE .0549 RRA .1897 RC3 -.4279 FAU .06462
FDE-2.4977 FRA 2.3429 FC3-4.6420 BSP 17893
BDE 2.0170 BRA 1.6256 BC3 5.1329 FSP -1924

MID-COURSE EXECUTION ACCURACY
SGT 5659.0 SGR 460.0 SG3 579.2
RRT .6658 RRF .6503 RTF .9823
SGB 5677.7 R23 -.0081 R13 .9823
SG1 5667.4 SG2 342.7 THA 3.11

ORBIT DETERMINATION ACCURACY
ST 3440.1 SR 136.6 SS 1853.4
CRT -.4525 CRS .4161 CST -.9991
LSA 3907.5 MSA 139.3 SSA 17.4
EL1 3440.6 EL2 121.8 ALF 178.97

LAUNCH DATE MAY 26 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 2 1967

DISTANCE 530.010

HELIOCENTRIC CONIC
RL 151.54 LAL .00 LOL 244.08 VL 26.723 GAL 4.45 AZL 92.94 HCA 242.80 SMA 127.93 ECC .19974 INC 2.9448 VI 29.401
RP 107.48 LAP 2.62 LOP 126.85 VP 37.844 GAP 6.97 AZP 88.65 TAL 161.58 TAP 44.38 RCA 102.37 APO 153.48 V2 35.258
RC 128.066 GL -22.50 GP -5.91 ZAL 60.40 ZAP 152.85 ETS 349.11 ZAE 129.37 ETE 184.99 ZAC 112.69 ETC 13.73 CLP-153.46

PLANETOCENTRIC CONIC
C3 12.789 VHL 3.576 DLA -23.08 RAL 176.39 RAD 6567.5 VEL 11.583 PTH 2.03 VHP 5.180 DPA 7.80 RAP 154.47 ECC 1.2105

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 23 38	1294.03	8.32	348.31	32.93	117.17	10 45 12	694.0	11.89	341.46
90.00	15 24 34	5575.85	28.25	260.42	38.37	92.02	16 57 30	4975.9	28.23	251.75
100.00	11 27 20	1088.45	6.87	332.42	32.15	119.16	11 45 28	488.5	10.71	325.74
100.00	17 3 34	5256.66	29.89	236.96	38.40	89.93	18 31 11	4656.7	29.56	228.17
110.00	11 59 44	986.85	3.51	322.65	30.08	124.02	12 16 11	386.8	7.95	316.38
110.00	18 47 39	4931.03	33.83	212.02	38.19	84.77	20 9 50	4331.0	32.74	202.95

DIFFERENTIAL CORRECTIONS
TDE-2.1164 TRA 1.7647 TC3-4.9211 BAU .8440
RDE .0768 RRA .1885 RC3 -.3856 FAU .05904
FDE-2.3886 FRA 2.3115 FC3-3.9967 BSP 18297
BDE 2.1178 BRA 1.7747 BC3 4.9362 FSP -1800

MID-COURSE EXECUTION ACCURACY
SGT 5773.4 SGR 446.1 SG3 539.7
RRT .6067 RRF .5883 RTF .9818
SGB 5790.6 R23 -.0122 R13 .9818
SG1 5779.7 SG2 354.2 THA 2.69

ORBIT DETERMINATION ACCURACY
ST 3515.6 SR 157.8 SS 1796.4
CRT -.5867 CRS .5544 CST -.9992
LSA 3948.5 MSA 143.3 SSA 17.3
EL1 3516.8 EL2 127.8 ALF 178.49

LAUNCH DATE MAY 26 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 4 1967

DISTANCE 535.970

HELIOCENTRIC CONIC
RL 151.54 LAL .00 LOL 244.08 VL 26.697 GAL 4.77 AZL 93.00 HCA 246.05 SMA 127.76 ECC .20333 INC 2.9952 VI 29.401
RP 107.48 LAP 2.74 LOP 130.10 VP 37.826 GAP 7.39 AZP 88.78 TAL 160.62 TAP 46.66 RCA 101.78 APO 153.73 V2 35.259
RC 130.261 GL -22.14 GP -5.52 ZAL 58.77 ZAP 154.65 ETS 348.91 ZAE 128.62 ETE 184.65 ZAC 111.17 ETC 13.82 CLP-155.22

PLANETOCENTRIC CONIC
C3 13.606 VHL 3.689 DLA -23.44 RAL 178.13 RAD 6567.5 VEL 11.619 PTH 2.04 VHP 5.391 DPA 7.65 RAP 156.00 ECC 1.2239

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 35 47	1289.04	8.47	348.03	35.68	117.12	10 57 16	689.0	12.04	341.17
90.00	15 26 18	5607.65	28.15	262.74	41.26	93.18	16 59 46	5007.7	28.30	254.07
100.00	11 38 42	1085.96	6.95	332.28	34.86	119.15	11 56 48	486.0	10.79	325.59
100.00	17 6 5	5285.96	29.87	239.14	41.33	91.08	18 34 11	4686.0	29.70	230.34
110.00	12 9 54	988.16	3.46	322.72	32.70	124.03	12 26 22	388.2	7.90	316.45
110.00	18 51 23	4956.52	33.97	214.00	41.20	85.93	20 13 59	4356.5	33.03	204.88

DIFFERENTIAL CORRECTIONS
TDE-2.2122 TRA 1.9289 TC3-4.7020 BAU .8576
RDE .0987 RRA .1878 RC3 -.3467 FAU .05366
FDE-2.2797 FRA 2.2891 FC3-3.4142 BSP 18593
BDE 2.2144 BRA 1.9380 BC3 4.7147 FSP -1677

MID-COURSE EXECUTION ACCURACY
SGT 5874.0 SGR 436.0 SG3 503.1
RRT .5462 RRF .5253 RTF .9812
SGB 5890.2 R23 -.0151 R13 .9812
SG1 5878.9 SG2 364.9 THA 2.33

ORBIT DETERMINATION ACCURACY
ST 3574.6 SR 180.8 SS 1736.5
CRT -.6696 CRS .6404 CST -.9992
LSA 3975.3 MSA 148.2 SSA 17.1
EL1 3576.6 EL2 134.2 ALF 178.06

LAUNCH DATE MAY 26 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 6 1967

DISTANCE 541.898

HELIOCENTRIC CONIC
RL 151.54 LAL .00 LOL 244.08 VL 26.671 GAL 5.11 AZL 93.04 HCA 249.29 SMA 127.58 ECC .20718 INC 3.0431 VI 29.401
RP 107.48 LAP 2.85 LOP 133.35 VP 37.808 GAP 7.83 AZP 88.92 TAL 159.64 TAP 48.93 RCA 101.15 APO 154.01 V2 35.259
RC 132.447 GL -21.72 GP -5.17 ZAL 57.12 ZAP 156.35 ETS 348.65 ZAE 127.94 ETE 184.36 ZAC 109.56 ETC 13.86 CLP-156.89

PLANETOCENTRIC CONIC
C3 14.516 VHL 3.810 DLA -23.75 RAL 179.89 RAD 6567.6 VEL 11.658 PTH 2.05 VHP 5.611 DPA 7.42 RAP 157.60 ECC 1.2389

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 47 25	1287.11	8.53	347.92	38.47	117.10	11 8 52	687.1	12.10	341.05
90.00	15 28 43	5638.06	28.02	264.95	44.20	94.28	17 2 41	5038.1	28.32	256.30
100.00	11 49 36	1086.34	6.94	332.30	37.61	119.15	12 7 43	486.3	10.77	325.62
100.00	17 9 13	5314.06	29.82	241.23	44.32	92.17	18 37 47	4714.1	29.80	232.42
110.00	12 19 42	991.97	3.32	322.92	35.38	124.04	12 36 14	392.0	7.76	316.65
110.00	18 55 36	4981.20	34.07	215.92	44.29	87.06	20 18 37	4381.2	33.29	206.76

DIFFERENTIAL CORRECTIONS
TDE-2.3104 TRA 2.1001 TC3-4.4819 BAU .8719
RDE .1205 RRA .1869 RC3 -.3117 FAU .04893
FDE-2.1818 FRA 2.2650 FC3-2.9183 BSP 18946
BDE 2.3135 BRA 2.1084 BC3 4.4928 FSP -1573

MID-COURSE EXECUTION ACCURACY
SGT 5970.0 SGR 428.5 SG3 469.7
RRT .4853 RRF .4622 RTF .9808
SGB 5985.3 R23 -.0180 R13 .9808
SG1 5973.6 SG2 374.4 THA 2.00

ORBIT DETERMINATION ACCURACY
ST 3626.8 SR 203.4 SS 1680.5
CRT -.7232 CRS .6966 CST -.9992
LSA 3999.5 MSA 152.7 SSA 16.9
EL1 3629.8 EL2 140.4 ALF 177.67

LAUNCH DATE MAY 26 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 8 1967

DISTANCE 547.792

HELIOCENTRIC CONIC
RL 151.54 LAL .00 LOL 244.08 VL 26.644 GAL 5.47 AZL 93.09 HCA 252.54 SMA 127.41 ECC .21132 INC 3.0890 VI 29.401
RP 107.48 LAP 2.95 LOP 136.60 VP 37.788 GAP 8.27 AZP 89.07 TAL 158.64 TAP 51.18 RCA 100.48 APO 154.33 V2 35.258
RC 134.624 GL -21.26 GP -4.86 ZAL 55.49 ZAP 157.97 ETS 348.34 ZAE 127.32 ETE 184.11 ZAC 107.89 ETC 13.88 CLP-158.49

PLANETOCENTRIC CONIC
C3 15.530 VHL 3.941 DLA -24.00 RAL 181.66 RAD 6567.6 VEL 11.701 PTH 2.06 VHP 5.840 DPA 7.11 RAP 159.26 ECC 1.2556

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 58 27	1288.29	8.49	347.98	41.31	117.11	11 19 56	688.3	12.06	341.12
90.00	15 31 48	5667.09	27.85	267.06	47.21	95.32	17 6 15	5067.1	28.30	258.42
100.00	12 0 0	1089.60	6.83	332.49	40.41	119.17	12 18 10	489.6	10.67	325.80
100.00	17 12 56	5341.01	29.73	243.23	47.37	93.22	18 41 57	4741.0	29.86	234.43
110.00	12 29 8	998.23	3.08	323.25	38.10	124.06	12 45 47	398.2	7.53	316.99
110.00	19 0 17	5005.15	34.14	217.78	47.43	88.17	20 23 43	4405.1	33.51	208.60

DIFFERENTIAL CORRECTIONS
TDE-2.4075 TRA 2.2832 TC3-4.2508 BAU .8844
RDE .1425 RRA .1859 RC3 -.2795 FAU .04452
FDE-2.0883 FRA 2.2450 FC3-2.4819 BSP 19268
BDE 2.4117 BRA 2.2908 BC3 4.2600 FSP -1476

MID-COURSE EXECUTION ACCURACY
SGT 6056.6 SGR 423.0 SG3 439.0
RRT .4247 RRF .3997 RTF .9803
SGB 6071.3 R23 -.0202 R13 .9803
SG1 6059.3 SG2 382.8 THA 1.71

ORBIT DETERMINATION ACCURACY
ST 3667.5 SR 225.4 SS 1625.0
CRT -.7590 CRS .7347 CST -.9993
LSA 4014.6 MSA 157.5 SSA 16.6
EL1 3671.5 EL2 146.6 ALF 177.32

LAUNCH DATE MAY 26 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 10 1967

HELIOCENTRIC CONIC DISTANCE 553.649

```
RL  151.54 LAL    .00 LOL 244.08 VL  26.616 GAL   5.86 AZL  93.13 HCA 255.79 SMA 127.23 ECC .21575 INC 3.1333 V1  29.401
RP  107.48 LAP   3.04 LOP 139.85 VP  37.767 GAP   8.73 AZP  89.23 TAL 157.63 TAP  53.42 RCA  99.78 APO 154.68 V2  35.256
RC 136.791 GL  -20.77 GP   -4.59 ZAL  53.86 ZAP 159.52 ETS 347.97 ZAE 126.76 ETE 183.89 ZAC 106.16 ETC  13.88 CLP-160.02
```

PLANETOCENTRIC CONIC

```
C3  16.662 VHL  4.082 DLA -24.21 RAL 183.44 RAD 6567.7 VEL 11.749 PTH   2.07 VHP  6.078 DPA   6.74 RAP 160.97 ECC 1.2742
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 8 52	1292.63	8.36	348.23	44.19	117.15	11 30 25	692.6	11.94	341.38
90.00	15 35 31	5694.77	27.66	269.06	50.26	96.31	17 10 26	5094.8	28.25	260.44
100.00	12 9 51	1095.76	6.63	332.83	43.25	119.22	12 28 7	495.8	10.47	326.15
100.00	17 17 13	5366.88	29.62	245.14	50.46	94.22	18 46 40	4766.9	29.89	236.35
110.00	12 38 11	1006.95	2.75	323.70	40.85	124.09	12 54 57	407.0	7.20	317.45
110.00	19 5 23	5028.45	34.18	219.60	50.62	89.24	20 29 12	4428.5	33.69	210.39

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.5044 TRA 2.4780 TC3-4.0128 BAU  .8956   SGT 6134.7 SGR  419.1 SG3  410.6   ST  3698.1 SR   246.5 SS  1570.8
RDE  .1647 RRA  .1845 RC3 -.2497 FAU .04044   RRT  .3649 RRF  .3385 RTF  .9799   CRT -.7841 CRS  .7614 CST -.9993
FDE-2.0006 FRA 2.2278 FC3-2.1015 BSP  19567   SGB 6149.0 R23 -.0220 R13  .9799   LSA 4022.1 MSA  162.4 SSA   16.3
BDE 2.5098 BRA 2.4849 BC3 4.0206 FSP  -1387   SG1 6136.6 SG2  390.1 THA   1.43   EL1 3703.2 EL2  152.8 ALF 177.00
```

LAUNCH DATE MAY 26 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 12 1967

HELIOCENTRIC CONIC DISTANCE 559.467

```
RL  151.54 LAL    .00 LOL 244.08 VL  26.589 GAL   6.27 AZL  93.18 HCA 259.04 SMA 127.05 ECC .22052 INC 3.1763 V1  29.401
RP  107.49 LAP   3.12 LOP 143.10 VP  37.745 GAP   9.20 AZP  89.40 TAL 156.60 TAP  55.64 RCA  99.03 APO 155.06 V2  35.254
RC 138.949 GL  -20.23 GP   -4.35 ZAL  52.24 ZAP 161.00 ETS 347.53 ZAE 126.25 ETE 183.70 ZAC 104.38 ETC  13.87 CLP-161.49
```

PLANETOCENTRIC CONIC

```
C3  17.929 VHL  4.234 DLA -24.38 RAL 185.20 RAD 6567.7 VEL 11.803 PTH   2.09 VHP  6.327 DPA   6.30 RAP 162.72 ECC 1.2951
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 18 37	1300.17	8.12	348.66	47.09	117.22	11 40 18	700.2	11.71	341.82
90.00	15 39 52	5721.12	27.45	270.96	53.35	97.24	17 15 13	5121.1	28.17	262.37
100.00	12 19 8	1104.81	6.32	333.33	46.12	119.28	12 37 33	504.8	10.18	326.67
100.00	17 22 2	5391.71	29.48	246.98	53.60	95.18	18 51 53	4791.7	29.89	238.19
110.00	12 46 47	1018.09	2.32	324.28	43.64	124.11	13 3 45	418.1	6.78	318.04
110.00	19 10 52	5051.19	34.18	221.38	53.87	90.30	20 35 3	4451.2	33.85	212.15

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.5974 TRA 2.6898 TC3-3.7612 BAU  .9031   SGT 6202.2 SGR  416.3 SG3  384.4   ST  3714.7 SR   266.5 SS  1515.8
RDE  .1874 RRA  .1827 RC3 -.2218 FAU .03647   RRT  .3066 RRF  .2795 RTF  .9793   CRT -.8015 CRS  .7799 CST -.9993
FDE-1.9142 FRA 2.2178 FC3-1.7610 BSP  19752   SGB 6216.1 R23 -.0231 R13  .9793   LSA 4017.4 MSA  167.7 SSA   16.1
BDE 2.6041 BRA 2.6960 BC3 3.7677 FSP  -1296   SG1 6203.5 SG2  396.2 THA   1.18   EL1 3720.8 EL2  159.1 ALF 176.70
```

LAUNCH DATE MAY 26 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 14 1967

HELIOCENTRIC CONIC DISTANCE 565.240

```
RL  151.54 LAL    .00 LOL 244.08 VL  26.560 GAL   6.70 AZL  93.22 HCA 262.28 SMA 126.87 ECC .22564 INC 3.2184 V1  29.401
RP  107.50 LAP   3.19 LOP 146.35 VP  37.723 GAP   9.68 AZP  89.57 TAL 155.57 TAP  57.85 RCA  98.24 APO 155.49 V2  35.251
RC 141.095 GL  -19.68 GP   -4.13 ZAL  50.64 ZAP 162.43 ETS 347.01 ZAE 125.77 ETE 183.53 ZAC 102.55 ETC  13.84 CLP-162.90
```

PLANETOCENTRIC CONIC

```
C3  19.348 VHL  4.399 DLA -24.50 RAL 186.95 RAD 6567.8 VEL 11.863 PTH   2.10 VHP  6.587 DPA   5.81 RAP 164.50 ECC 1.3184
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 27 40	1310.93	7.79	349.27	50.02	117.31	11 49 31	710.9	11.39	342.44
90.00	15 44 47	5746.15	27.22	272.76	56.49	98.11	17 20 34	5146.2	28.06	264.19
100.00	12 27 49	1116.75	5.93	334.00	49.01	119.35	12 46 26	516.7	9.79	327.34
100.00	17 27 20	5415.57	29.32	248.73	56.79	96.09	18 57 35	4815.6	29.86	239.97
110.00	12 54 58	1031.63	1.80	324.99	46.45	124.14	13 12 9	431.6	6.27	318.75
110.00	19 16 41	5073.45	34.16	223.12	57.16	91.32	20 41 14	4473.4	33.97	213.88

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.6950 TRA 2.9107 TC3-3.5166 BAU  .9111   SGT 6265.3 SGR  414.1 SG3  360.3   ST  3727.4 SR   284.9 SS  1465.4
RDE  .2105 RRA  .1802 RC3 -.1963 FAU .03297   RRT  .2491 RRF  .2214 RTF  .9790   CRT -.8147 CRS  .7944 CST -.9993
FDE-1.8376 FRA 2.2063 FC3-1.4752 BSP  20013   SGB 6279.0 R23 -.0242 R13  .9789   LSA 4011.5 MSA  172.5 SSA   15.7
BDE 2.7032 BRA 2.9162 BC3 3.5221 FSP  -1220   SG1 6266.2 SG2  401.0 THA    .95   EL1 3734.7 EL2  164.9 ALF 176.43
```

LAUNCH DATE MAY 26 1967 FLIGHT TIME 204.00 ARRIVAL DATE DEC 16 1967

HELIOCENTRIC CONIC DISTANCE 570.965

```
RL  151.54 LAL    .00 LOL 244.08 VL  26.532 GAL   7.16 AZL  93.26 HCA 265.53 SMA 126.69 ECC .23114 INC 3.2598 V1  29.401
RP  107.51 LAP   3.25 LOP 149.60 VP  37.699 GAP  10.18 AZP  89.75 TAL 154.53 TAP  60.06 RCA  97.40 APO 155.97 V2  35.247
RC 143.232 GL  -19.09 GP   -3.93 ZAL  49.07 ZAP 163.80 ETS 346.39 ZAE 125.33 ETE 183.37 ZAC 100.68 ETC  13.81 CLP-164.27
```

PLANETOCENTRIC CONIC

```
C3  20.943 VHL  4.576 DLA -24.59 RAL 188.69 RAD 6567.9 VEL 11.930 PTH   2.12 VHP  6.860 DPA   5.28 RAP 166.32 ECC 1.3447
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 36 0	1324.89	7.35	350.07	52.96	117.42	11 58 5	724.9	10.97	343.26
90.00	15 50 17	5769.93	26.98	274.46	59.66	98.93	17 26 27	5169.9	27.94	265.92
100.00	12 35 53	1131.54	5.43	334.82	51.91	119.44	12 54 45	531.5	9.31	328.18
100.00	17 33 4	5438.51	29.14	250.41	60.01	96.96	19 3 43	4838.5	29.80	241.67
110.00	13 2 40	1047.53	1.20	325.82	49.28	124.16	13 20 8	447.5	5.67	319.59
110.00	19 22 47	5095.28	34.11	224.82	60.48	92.33	20 47 42	4495.3	34.06	215.58

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.7933 TRA 3.1456 TC3-3.2718 BAU  .9173   SGT 6321.0 SGR  412.4 SG3  338.1   ST  3731.8 SR   302.0 SS  1416.3
RDE  .2340 RRA  .1768 RC3 -.1726 FAU .02970   RRT  .1929 RRF  .1652 RTF  .9786   CRT -.8246 CRS  .8053 CST -.9994
FDE-1.7660 FRA 2.1982 FC3-1.2278 BSP  20252   SGB 6334.5 R23 -.0249 R13  .9786   LSA 3999.2 MSA  177.1 SSA   15.4
BDE 2.8031 BRA 3.1506 BC3 3.2764 FSP  -1150   SG1 6321.5 SG2  404.6 THA    .72   EL1 3740.1 EL2  170.4 ALF 176.17
```

LAUNCH DATE MAY 26 1967 FLIGHT TIME 206.00 ARRIVAL DATE DEC 18 1967

HELIOCENTRIC CONIC DISTANCE 576.636
RL 151.54 LAL .00 LOL 244.08 VL 26.504 GAL 7.65 AZL 93.30 HCA 268.77 SMA 126.50 ECC .23707 INC 3.3009 V1 29.401
RP 107.53 LAP 3.30 LOP 152.85 VP 37.675 GAP 10.70 AZP 89.93 TAL 153.49 TAP 62.26 RCA 96.51 APO 156.49 V2 35.243
RC 145.356 GL -18.49 GP -3.75 ZAL 47.53 ZAP 165.12 ETS 345.65 ZAE 124.92 ETE 183.23 ZAC 98.78 ETC 13.78 CLP-165.59
PLANETOCENTRIC CONIC
C3 22.737 VHL 4.768 DLA -24.63 RAL 190.39 RAD 6567.9 VEL 12.005 PTH 2.14 VHP 7.147 DPA 4.70 RAP 168.16 ECC 1.3742

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 43 35	1342.02	6.81	351.04	55.90	117.55	12 5 57	742.0	10.45	344.25
90.00	15 56 17	5792.51	26.73	276.06	62.87	99.70	17 32 50	5192.5	27.80	267.56
100.00	12 43 20	1149.12	4.84	335.79	54.83	119.53	13 2 29	549.1	8.74	329.17
100.00	17 39 14	5460.63	28.95	252.03	63.26	97.79	19 10 14	4860.6	29.73	243.31
110.00	13 9 55	1065.74	.50	326.77	52.12	124.18	13 27 41	465.7	4.98	320.55
110.00	19 29 8	5116.78	34.04	226.50	63.84	93.32	20 54 25	4516.8	34.13	217.25

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-2.8922 TRA 3.3963 TC3-3.0273 BAU .9213 SGT 6369.4 SGR 410.9 SG3 317.5 ST 3728.2 SR 317.6 SS 1370.3
RDE .2581 RRA .1725 RC3 -.1508 FAU .02663 RRT .1380 RRF .1106 RTF .9783 CRT -.8321 CRS .8136 CST -.9994
FDE-1.6989 FRA 2.1933 FC3-1.0140 BSP 20465 SGB 6382.7 R23 -.0252 R13 .9783 LSA 3980.5 MSA 181.7 SSA 15.1
BDE 2.9037 BRA 3.4007 BC3 3.0311 FSP -1084 SG1 6369.7 SG2 406.9 THA .51 EL1 3737.5 EL2 175.7 ALF 175.94

LAUNCH DATE MAY 26 1967 FLIGHT TIME 208.00 ARRIVAL DATE DEC 20 1967

HELIOCENTRIC CONIC DISTANCE 582.247
RL 151.54 LAL .00 LOL 244.08 VL 26.475 GAL 8.17 AZL 93.34 HCA 272.02 SMA 126.32 ECC .24346 INC 3.3418 V1 29.401
RP 107.54 LAP 3.34 LOP 156.10 VP 37.650 GAP 11.24 AZP 90.12 TAL 152.44 TAP 64.46 RCA 95.57 APO 157.07 V2 35.237
RC 147.469 GL -17.88 GP -3.59 ZAL 46.01 ZAP 166.41 ETS 344.78 ZAE 124.54 ETE 183.10 ZAC 96.85 ETC 13.74 CLP-166.88
PLANETOCENTRIC CONIC
C3 24.759 VHL 4.976 DLA -24.65 RAL 192.06 RAD 6568.0 VEL 12.089 PTH 2.16 VHP 7.449 DPA 4.08 RAP 170.02 ECC 1.4075

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 50 26	1362.22	6.18	352.18	58.85	117.69	12 13 9	762.2	9.84	345.41
90.00	16 2 47	5813.99	26.48	277.58	66.11	100.42	17 39 41	5214.0	27.65	269.11
100.00	12 50 9	1169.44	4.16	336.91	57.74	119.63	13 9 39	569.4	8.08	330.31
100.00	17 45 45	5482.00	28.74	253.58	66.54	98.58	19 17 7	4882.0	29.63	244.89
110.00	13 16 42	1086.20	-.28	327.84	54.98	124.18	13 34 48	486.2	4.20	321.63
110.00	19 35 42	5138.01	33.95	228.15	67.22	94.29	21 1 20	4538.0	34.17	218.91

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-2.9930 TRA 3.6628 TC3-2.7860 BAU .9232 SGT 6410.7 SGR 409.5 SG3 298.5 ST 3717.9 SR 331.7 SS 1326.2
RDE .2827 RRA .1670 RC3 -.1309 FAU .02376 RRT .0842 RRF .0575 RTF .9781 CRT -.8379 CRS .8202 CST -.9994
FDE-1.6368 FRA 2.1909 FC3 -.8307 BSP 20654 SGB 6423.8 R23 -.0252 R13 .9781 LSA 3956.9 MSA 185.8 SSA 14.7
BDE 3.0064 BRA 3.6666 BC3 2.7890 FSP -1022 SG1 6410.8 SG2 408.0 THA .31 EL1 3728.3 EL2 180.5 ALF 175.72

LAUNCH DATE MAY 26 1967 FLIGHT TIME 210.00 ARRIVAL DATE DEC 22 1967

HELIOCENTRIC CONIC DISTANCE 587.791
RL 151.54 LAL .00 LOL 244.08 VL 26.446 GAL 8.73 AZL 93.38 HCA 275.26 SMA 126.14 ECC .25036 INC 3.3829 V1 29.401
RP 107.56 LAP 3.37 LOP 159.35 VP 37.624 GAP 11.81 AZP 90.31 TAL 151.40 TAP 66.66 RCA 94.56 APO 157.72 V2 35.231
RC 149.570 GL -17.25 GP -3.45 ZAL 44.54 ZAP 167.66 ETS 343.73 ZAE 124.18 ETE 182.97 ZAC 94.89 ETC 13.71 CLP-168.14
PLANETOCENTRIC CONIC
C3 27.044 VHL 5.200 DLA -24.62 RAL 193.70 RAD 6568.1 VEL 12.183 PTH 2.19 VHP 7.769 DPA 3.43 RAP 171.90 ECC 1.4451

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 56 34	1385.40	5.44	353.49	61.79	117.83	12 19 39	785.4	9.12	346.74
90.00	16 9 41	5834.47	26.22	279.03	69.37	101.10	17 46 56	5234.5	27.49	270.59
100.00	12 56 21	1192.39	3.39	338.17	60.66	119.72	13 16 14	592.4	7.32	331.59
100.00	17 52 35	5502.72	28.52	255.09	69.84	99.34	19 24 18	4902.7	29.52	246.42
110.00	13 22 59	1108.85	-1.15	329.02	57.83	124.17	13 41 28	508.8	3.34	322.81
110.00	19 42 26	5159.03	33.83	229.78	70.63	95.25	21 8 25	4559.0	34.18	220.55

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-3.0921 TRA 3.9507 TC3-2.5437 BAU .9206 SGT 6444.5 SGR 408.1 SG3 281.0 ST 3698.0 SR 344.2 SS 1283.0
RDE .3079 RRA .1603 RC3 -.1126 FAU .02094 RRT .0320 RRF .0068 RTF .9779 CRT -.8419 CRS .8247 CST -.9994
FDE-1.5764 FRA 2.1943 FC3 -.6702 BSP 20736 SGB 6457.4 R23 -.0247 R13 .9779 LSA 3924.7 MSA 190.0 SSA 14.4
BDE 3.1074 BRA 3.9539 BC3 2.5462 FSP -959 SG1 6444.5 SG2 407.9 THA .12 EL1 3709.4 EL2 185.2 ALF 175.51

LAUNCH DATE MAY 26 1967 FLIGHT TIME 212.00 ARRIVAL DATE DEC 24 1967

HELIOCENTRIC CONIC DISTANCE 593.258
RL 151.54 LAL .00 LOL 244.08 VL 26.417 GAL 9.33 AZL 93.42 HCA 278.50 SMA 125.95 ECC .25781 INC 3.4244 V1 29.401
RP 107.58 LAP 3.39 LOP 162.60 VP 37.597 GAP 12.41 AZP 90.51 TAL 150.36 TAP 68.87 RCA 93.48 APO 158.43 V2 35.225
RC 151.657 GL -16.62 GP -3.32 ZAL 43.10 ZAP 168.88 ETS 342.45 ZAE 123.83 ETE 182.86 ZAC 92.92 ETC 13.69 CLP-169.38
PLANETOCENTRIC CONIC
C3 29.632 VHL 5.444 DLA -24.57 RAL 195.29 RAD 6568.2 VEL 12.288 PTH 2.21 VHP 8.107 DPA 2.74 RAP 173.79 ECC 1.4877

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 1 59	1411.44	4.61	354.95	64.72	117.97	12 25 30	811.4	8.32	348.23
90.00	16 16 58	5854.05	25.95	280.40	72.65	101.74	17 54 32	5254.1	27.31	271.99
100.00	13 1 56	1217.88	2.53	339.58	63.57	119.80	13 22 14	617.9	6.47	333.01
100.00	17 59 42	5522.85	28.29	256.54	73.15	100.07	19 31 44	4922.8	29.39	247.91
110.00	13 28 49	1133.60	-2.10	330.31	60.68	124.13	13 47 42	533.6	2.40	324.11
110.00	19 49 19	5179.89	33.68	231.39	74.05	96.19	21 15 39	4579.9	34.17	222.18

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-3.1985 TRA 4.2528 TC3-2.3138 BAU .9174 SGT 6473.2 SGR 406.5 SG3 264.7 ST 3676.9 SR 355.2 SS 1244.3
RDE .3337 RRA .1521 RC3 -.0961 FAU .01841 RRT -.0200 RRF -.0437 RTF .9779 CRT -.8455 CRS .8290 CST -.9995
FDE-1.5240 FRA 2.1979 FC3 -.5378 BSP 20899 SGB 6486.0 R23 .0241 R13 -.9779 LSA 3893.1 MSA 193.3 SSA 14.0
BDE 3.2158 BRA 4.2555 BC3 2.3158 FSP -906 SG1 6473.3 SG2 406.5 THA 179.93 EL1 3689.1 EL2 189.0 ALF 175.32

LAUNCH DATE MAY 26 1967 FLIGHT TIME 214.00 ARRIVAL DATE DEC 26 1967

HELIOCENTRIC CONIC DISTANCE 598.639

RL	151.54	LAL	.00	LOL	244.08	VL	26.388	GAL	9.97	AZL	93.47	HCA	281.74	SMA	125.77	ECC	.26589	INC	3.4667
RP	107.60	LAP	3.39	LOP	165.84	VP	37.570	GAP	13.04	AZP	90.71	TAL	149.34	TAP	71.08	RCA	92.33	APO	159.21
RC	153.730	GL	-15.98	GP	-3.20	ZAL	41.71	ZAP	170.07	ETS	340.87	ZAE	123.49	ETE	182.74	ZAC	90.93	ETC	13.67

V1	29.401	V2	35.217	CLP	-170.59														

PLANETOCENTRIC CONIC

C3	32.573	VHL	5.707	DLA	-24.48	RAL	196.83	RAD	6568.3	VEL	12.407	PTH	2.24	VHP	8.467	DPA	2.04	RAP	175.69

ECC	1.5361														

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 6 42	1440.18	3.69	356.56	67.63	118.10	12 30 42	840.2	7.42	349.87
90.00	16 24 33	5872.85	25.69	281.71	75.94	102.35	18 2 26	5272.9	27.13	273.34
100.00	13 6 55	1245.78	1.58	341.11	66.46	119.85	13 27 41	645.8	5.54	334.56
100.00	18 7 2	5542.48	28.05	257.95	76.48	100.78	19 39 24	4942.5	29.25	249.35
110.00	13 34 9	1160.38	-3.12	331.71	63.53	124.06	13 53 29	560.4	1.37	325.50
110.00	19 56 17	5200.64	33.52	232.99	77.49	97.13	21 22 58	4600.6	34.14	223.80

DIFFERENTIAL CORRECTIONS

TDE	-3.3082	TRA	4.5751	TC3	-2.0909	BAU	.9112
RDE	.3600	RRA	.1422	RC3	-.0814	FAU	.01602
FDE	-1.4758	FRA	2.2048	FC3	-.4258	BSP	21041
BDE	3.3278	BRA	4.5773	BC3	2.0925	FSP	-857

MID-COURSE EXECUTION ACCURACY

SGT	6495.9	SGR	404.8	SG3	249.6		
RRT	-.0711	RRF	-.0930	RTF	.9781		
SGB	6508.5	R23	.0233	R13	-.9781		
SG1	6495.9	SG2	403.8	THA	179.75		

ORBIT DETERMINATION ACCURACY

ST	3650.7	SR	364.5	SS	1208.2
CRT	-.8484	CRS	.8324	CST	-.9995
LSA	3857.7	MSA	196.2	SSA	13.7
EL1	3663.8	EL2	192.3	ALF	175.14

LAUNCH DATE MAY 26 1967 FLIGHT TIME 216.00 ARRIVAL DATE DEC 28 1967

HELIOCENTRIC CONIC DISTANCE 603.921

RL	151.54	LAL	.00	LOL	244.08	VL	26.360	GAL	10.66	AZL	93.51	HCA	284.98	SMA	125.59	ECC	.27466	INC	3.5098
RP	107.63	LAP	3.39	LOP	169.09	VP	37.543	GAP	13.70	AZP	90.91	TAL	148.33	TAP	73.31	RCA	91.10	APO	160.09
RC	155.789	GL	-15.34	GP	-3.09	ZAL	40.37	ZAP	171.24	ETS	338.87	ZAE	123.15	ETE	182.64	ZAC	88.93	ETC	13.67

V1	29.401	V2	35.210	CLP	-171.79														

PLANETOCENTRIC CONIC

C3	35.922	VHL	5.994	DLA	-24.37	RAL	198.32	RAD	6568.4	VEL	12.542	PTH	2.27	VHP	8.851	DPA	1.31	RAP	177.60

ECC	1.5912														

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 10 46	1471.45	2.69	358.31	70.53	118.20	12 35 17	871.5	6.44	351.64
90.00	16 32 24	602.93	25.42	305.06	79.24	102.92	16 42 27	2.9	26.95	296.73
100.00	13 11 19	1275.97	.56	342.76	69.35	119.89	13 32 35	676.0	4.53	336.23
100.00	18 14 32	5561.68	27.80	259.32	79.82	101.46	19 47 14	4961.7	29.10	250.75
110.00	13 39 1	1189.10	-4.21	333.21	66.38	123.95	13 58 50	589.1	.28	327.00
110.00	20 3 20	5221.32	33.33	234.57	80.92	98.05	21 30 21	4621.3	34.09	225.41

DIFFERENTIAL CORRECTIONS

TDE	-3.4220	TRA	4.9196	TC3	-1.8751	BAU	.9011
RDE	.3870	RRA	.1306	RC3	-.0682	FAU	.01374
FDE	-1.4318	FRA	2.2154	FC3	-.3311	BSP	21162
BDE	3.4438	BRA	4.9214	BC3	1.8764	FSP	-810

MID-COURSE EXECUTION ACCURACY

SGT	6512.3	SGR	402.9	SG3	235.6		
RRT	-.1214	RRF	-.1412	RTF	.9783		
SGB	6524.7	R23	.0221	R13	-.9783		
SG1	6512.4	SG2	399.9	THA	179.57		

ORBIT DETERMINATION ACCURACY

ST	3620.1	SR	372.2	SS	1174.9
CRT	-.8507	CRS	.8353	CST	-.9995
LSA	3818.9	MSA	198.4	SSA	13.3
EL1	3633.9	EL2	194.9	ALF	174.99

LAUNCH DATE MAY 26 1967 FLIGHT TIME 218.00 ARRIVAL DATE DEC 30 1967

HELIOCENTRIC CONIC DISTANCE 609.088

RL	151.54	LAL	.00	LOL	244.08	VL	26.331	GAL	11.40	AZL	93.55	HCA	288.22	SMA	125.41	ECC	.28419	INC	3.5543
RP	107.65	LAP	3.38	LOP	172.33	VP	37.515	GAP	14.41	AZP	91.11	TAL	147.34	TAP	75.56	RCA	89.77	APO	161.05
RC	157.834	GL	-14.70	GP	-2.99	ZAL	39.07	ZAP	172.38	ETS	336.27	ZAE	122.82	ETE	182.53	ZAC	86.92	ETC	13.67

V1	29.401	V2	35.201	CLP	-172.98														

PLANETOCENTRIC CONIC

C3	39.751	VHL	6.305	DLA	-24.23	RAL	199.76	RAD	6568.5	VEL	12.693	PTH	2.31	VHP	9.263	DPA	.56	RAP	179.50

ECC	1.6542														

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 14 10	1505.10	1.60	.19	73.40	118.28	12 39 15	905.1	5.37	353.54
90.00	16 40 27	620.47	25.14	306.28	82.55	103.47	16 50 48	20.5	26.75	297.98
100.00	13 15 8	1308.33	-.54	344.54	72.21	119.89	13 36 56	708.3	3.44	338.01
100.00	18 22 11	5580.52	27.54	260.66	83.15	102.12	19 55 12	4980.5	28.93	252.13
110.00	13 43 24	1219.66	-5.37	334.82	69.21	123.81	14 3 44	619.7	-.89	328.60
110.00	20 10 24	5241.95	33.13	236.15	84.36	98.96	21 37 46	4641.9	34.01	227.02

DIFFERENTIAL CORRECTIONS

TDE	-3.5370	TRA	5.2919	TC3	-1.6640	BAU	.8848
RDE	.4145	RRA	.1170	RC3	-.0567	FAU	.01147
FDE	-1.3899	FRA	2.2316	FC3	-.2498	BSP	21165
BDE	3.5612	BRA	5.2932	BC3	1.6650	FSP	-762

MID-COURSE EXECUTION ACCURACY

SGT	6522.6	SGR	400.7	SG3	222.6		
RRT	-.1706	RRF	-.1879	RTF	.9786		
SGB	6534.9	R23	.0206	R13	-.9786		
SG1	6522.9	SG2	394.8	THA	179.40		

ORBIT DETERMINATION ACCURACY

ST	3583.1	SR	378.3	SS	1143.3
CRT	-.8523	CRS	.8372	CST	-.9995
LSA	3774.7	MSA	200.4	SSA	12.9
EL1	3597.6	EL2	197.1	ALF	174.84

LAUNCH DATE MAY 26 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 1 1968

HELIOCENTRIC CONIC DISTANCE 614.121

RL	151.54	LAL	.00	LOL	244.08	VL	26.303	GAL	12.20	AZL	93.60	HCA	291.46	SMA	125.23	ECC	.29458	INC	3.6005
RP	107.68	LAP	3.35	LOP	175.58	VP	37.486	GAP	15.17	AZP	91.32	TAL	146.38	TAP	77.83	RCA	88.34	APO	162.13
RC	159.863	GL	-14.06	GP	-2.90	ZAL	37.83	ZAP	173.49	ETS	332.77	ZAE	122.49	ETE	182.43	ZAC	84.91	ETC	13.69

V1	29.401	V2	35.192	CLP	-174.17														

PLANETOCENTRIC CONIC

C3	44.143	VHL	6.644	DLA	-24.06	RAL	201.14	RAD	6568.7	VEL	12.865	PTH	2.34	VHP	9.706	DPA	-.20	RAP	181.41

ECC	1.7265														

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 16 58	1540.94	.45	2.19	76.25	118.31	12 42 38	940.9	4.23	355.55
90.00	16 48 39	637.49	24.87	307.45	85.84	104.00	16 59 16	37.5	26.55	299.18
100.00	13 18 22	1342.70	-1.71	346.43	75.06	119.85	13 40 45	742.7	2.28	339.90
100.00	18 29 55	5599.00	27.27	261.96	86.48	102.75	20 3 14	4999.0	28.75	253.47
110.00	13 47 18	1251.96	-6.59	336.52	72.03	123.62	14 8 10	652.0	-2.13	330.28
110.00	20 17 29	5262.51	32.90	237.71	87.78	99.86	21 45 11	4662.5	33.91	228.61

DIFFERENTIAL CORRECTIONS

TDE	-3.6635	TRA	5.6855	TC3	-1.4673	BAU	.8664
RDE	.4427	RRA	.1012	RC3	-.0467	FAU	.00941
FDE	-1.3551	FRA	2.2497	FC3	-.1845	BSP	21268
BDE	3.6901	BRA	5.6864	BC3	1.4680	FSP	-722

MID-COURSE EXECUTION ACCURACY

SGT	6527.8	SGR	398.4	SG3	210.6		
RRT	-.2199	RRF	-.2347	RTF	.9792		
SGB	6539.9	R23	.0190	R13	-.9792		
SG1	6528.4	SG2	388.6	THA	179.23		

ORBIT DETERMINATION ACCURACY

ST	3546.7	SR	382.8	SS	1116.3
CRT	-.8542	CRS	.8395	CST	-.9996
LSA	3732.4	MSA	201.2	SSA	12.6
EL1	3561.8	EL2	198.2	ALF	174.72

LAUNCH DATE MAY 27 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 5 1967

HELIOCENTRIC CONIC DISTANCE 144.127

RL 151.57 LAL .00 LOL 245.04 VL 19.330 GAL 10.49 AZL 92.80 HCA 51.44 SMA 96.34 ECC .59235 INC 2.7959 V1 29.396
RP 108.92 LAP -2.19 LOP 296.45 VP 32.548 GAP -35.65 AZP 91.74 TAL 172.59 TAP 224.03 RCA 39.27 APO 153.41 V2 34.792
RC 55.270 GL -4.86 GP 1.09 ZAL 72.89 ZAP 23.70 ETS 183.98 ZAE 155.00 ETE 160.53 ZAC 123.66 ETC 19.44 CLP 23.68

PLANETOCENTRIC CONIC

C3 119.567 VHL 10.935 DLA -1.38 RAL 170.93 RAD 6570.2 VEL 15.521 PTH 3.77 VHP 20.781 DPA 18.70 RAP 143.90 ECC 2.9678

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 39 35	2599.13	-26.66	67.34	62.24	99.90	7 22 55	1999.1	-25.03	59.06
90.00	18 17 10	5328.68	27.52	242.41	63.58	83.05	19 45 59	4728.7	26.27	233.96
100.00	8 0 18	2338.81	-28.16	47.90	61.94	100.48	8 39 16	1738.8	-26.42	39.53
100.00	19 39 10	5064.23	29.02	222.75	63.37	82.51	21 3 34	4464.2	27.68	214.20
110.00	9 7 4	2129.80	-32.21	31.10	61.00	102.13	9 42 34	1529.8	-30.20	22.46
110.00	20 48 53	4846.02	33.11	205.49	62.67	80.97	22 9 39	4246.0	31.51	196.63

DIFFERENTIAL CORRECTIONS

TDE .5677 TRA-1.3722 TC3 -.0948 BAU .1592
RDE -.7525 RRA -.3874 RC3 .0305 FAU .01477
FDE -.3210 FRA .5435 FC3 -.1069 BSP 2102
BDE .9426 BRA 1.4259 BC3 .0996 FSP -73

MID-COURSE EXECUTION ACCURACY

SGT 805.5 SGR 448.5 SG3 35.0
RRT .0413 RRF -.0390 RTF -.6326
SGB 921.9 R23 -.0012 R13 -.6327
SG1 805.8 SG2 447.9 THA 1.91

ORBIT DETERMINATION ACCURACY

ST 367.5 SR 399.0 SS 339.0
CRT -.7103 CRS -.8112 CST .9862
LSA 601.0 MSA 218.6 SSA 13.9
EL1 502.0 EL2 205.6 ALF 131.70

LAUNCH DATE MAY 27 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 7 1967

HELIOCENTRIC CONIC DISTANCE 150.285

RL 151.57 LAL .00 LOL 245.04 VL 19.929 GAL 10.07 AZL 92.85 HCA 54.61 SMA 98.01 ECC .56571 INC 2.8537 V1 29.396
RP 108.93 LAP -2.33 LOP 299.61 VP 32.903 GAP -33.93 AZP 91.65 TAL 172.06 TAP 226.67 RCA 42.57 APO 153.46 V2 34.789
RC 53.566 GL -5.42 GP 1.13 ZAL 72.08 ZAP 22.16 ETS 184.18 ZAE 156.16 ETE 158.21 ZAC 122.11 ETC 19.02 CLP 22.14

PLANETOCENTRIC CONIC

C3 107.060 VHL 10.347 DLA -2.21 RAL 171.47 RAD 6570.1 VEL 15.113 PTH 2.72 VHP 19.880 DPA 18.25 RAP 145.53 ECC 2.7619

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 47 55	2550.74	-26.05	63.93	60.71	101.51	7 30 26	1950.7	-24.20	55.75
90.00	18 13 8	5331.96	27.55	242.64	62.82	83.16	19 42 0	4732.0	26.31	234.19
100.00	8 8 14	2291.67	-27.53	44.54	60.37	102.14	8 46 25	1691.7	-25.58	36.28
100.00	19 35 30	5066.26	29.04	222.89	62.61	82.59	20 59 57	4466.3	27.71	214.34
110.00	9 14 6	2085.44	-31.52	27.82	59.30	103.96	9 48 52	1485.4	-29.28	19.33
110.00	20 46 7	4845.25	33.10	205.43	61.92	80.94	22 6 52	4245.3	31.50	196.57

DIFFERENTIAL CORRECTIONS

TDE .5676 TRA-1.3636 TC3 -.0962 BAU .1466
RDE -.7170 RRA -.3710 RC3 .0351 FAU .01511
FDE -.3370 FRA .5604 FC3 -.1222 BSP 2252
BDE .9144 BRA 1.4132 BC3 .1024 FSP -81

MID-COURSE EXECUTION ACCURACY

SGT 842.3 SGR 452.9 SG3 38.2
RRT .0423 RRF -.0406 RTF -.6528
SGB 956.4 R23 -.0018 R13 -.6529
SG1 842.6 SG2 452.4 THA 1.83

ORBIT DETERMINATION ACCURACY

ST 387.6 SR 401.8 SS 358.5
CRT -.7116 CRS -.8148 CST .9856
LSA 624.7 MSA 223.0 SSA 14.2
EL1 516.5 EL2 211.8 ALF 133.55

LAUNCH DATE MAY 27 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 9 1967

HELIOCENTRIC CONIC DISTANCE 156.512

RL 151.57 LAL .00 LOL 245.04 VL 20.486 GAL 9.65 AZL 92.91 HCA 57.77 SMA 99.67 ECC .54000 INC 2.9071 V1 29.396
RP 108.94 LAP -2.46 LOP 302.77 VP 33.241 GAP -32.29 AZP 91.55 TAL 171.57 TAP 229.34 RCA 45.85 APO 153.49 V2 34.786
RC 51.953 GL -6.00 GP 1.17 ZAL 71.36 ZAP 20.63 ETS 184.43 ZAE 157.41 ETE 155.47 ZAC 120.54 ETC 18.63 CLP 20.60

PLANETOCENTRIC CONIC

C3 95.927 VHL 9.794 DLA -3.05 RAL 171.92 RAD 6569.9 VEL 14.740 PTH 2.67 VHP 19.013 DPA 17.78 RAP 147.18 ECC 2.5787

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 55 55	2501.53	-25.34	60.51	59.09	103.08	7 37 36	1901.5	-23.29	52.44
90.00	18 8 44	5334.46	27.57	242.82	61.91	83.25	19 37 39	4734.5	26.34	234.37
100.00	8 15 50	2243.72	-26.80	41.16	58.70	103.77	8 53 14	1643.7	-24.64	33.03
100.00	19 31 30	5067.50	29.05	222.98	61.70	82.63	20 55 58	4467.5	27.73	214.43
110.00	9 20 49	2040.29	-30.74	24.54	57.51	105.75	9 54 49	1440.3	-28.27	16.21
110.00	20 43 0	4843.70	33.08	205.31	61.02	80.87	22 3 44	4243.7	31.47	196.46

DIFFERENTIAL CORRECTIONS

TDE .5681 TRA-1.3539 TC3 -.0962 BAU .1338
RDE -.6821 RRA -.3545 RC3 .0403 FAU .01550
FDE -.3538 FRA .5772 FC3 -.1399 BSP 2413
BDE .8876 BRA 1.3995 BC3 .1043 FSP -91

MID-COURSE EXECUTION ACCURACY

SGT 880.4 SGR 456.7 SG3 41.6
RRT .0429 RRF -.0421 RTF -.6724
SGB 991.8 R23 -.0026 R13 -.6726
SG1 880.7 SG2 456.1 THA 1.74

ORBIT DETERMINATION ACCURACY

ST 408.8 SR 403.8 SS 378.9
CRT -.7135 CRS -.8186 CST .9851
LSA 649.7 MSA 226.8 SSA 14.4
EL1 531.9 EL2 217.5 ALF 135.49

LAUNCH DATE MAY 27 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 11 1967

HELIOCENTRIC CONIC DISTANCE 162.805

RL 151.57 LAL .00 LOL 245.04 VL 21.004 GAL 9.22 AZL 92.96 HCA 60.93 SMA 101.30 ECC .51527 INC 2.9568 V1 29.396
RP 108.94 LAP -2.58 LOP 305.94 VP 33.562 GAP -30.74 AZP 91.44 TAL 171.11 TAP 232.03 RCA 49.11 APO 153.50 V2 34.785
RC 50.440 GL -6.62 GP 1.21 ZAL 70.72 ZAP 19.12 ETS 184.74 ZAE 158.76 ETE 152.21 ZAC 118.96 ETC 18.25 CLP 19.08

PLANETOCENTRIC CONIC

C3 86.011 VHL 9.274 DLA -3.88 RAL 172.28 RAD 6569.7 VEL 14.400 PTH 2.62 VHP 18.180 DPA 17.31 RAP 148.82 ECC 2.4155

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 3 35	2451.54	-24.52	57.07	57.37	104.62	7 44 27	1851.5	-22.28	49.12
90.00	18 3 59	5336.31	27.58	242.96	60.86	83.32	19 32 55	4736.3	26.37	234.50
100.00	8 23 7	2194.99	-25.96	37.78	56.94	105.36	8 59 42	1595.0	-23.60	29.78
100.00	19 27 8	5068.09	29.06	223.03	60.65	82.65	20 51 36	4468.1	27.74	214.47
110.00	9 27 12	1994.38	-29.84	21.26	55.65	107.50	10 0 26	1394.4	-27.16	13.10
110.00	20 39 33	4841.47	33.06	205.14	59.97	80.77	22 0 14	4241.5	31.43	196.29

DIFFERENTIAL CORRECTIONS

TDE .5661 TRA-1.3459 TC3 -.0959 BAU .1223
RDE -.6479 RRA -.3381 RC3 .0460 FAU .01591
FDE -.3712 FRA .5943 FC3 -.1602 BSP 2516
BDE .8603 BRA 1.3877 BC3 .1064 FSP -100

MID-COURSE EXECUTION ACCURACY

SGT 921.1 SGR 459.7 SG3 45.4
RRT .0456 RRF -.0440 RTF -.6900
SGB 1029.5 R23 -.0022 R13 -.6901
SG1 921.5 SG2 459.1 THA 1.74

ORBIT DETERMINATION ACCURACY

ST 429.9 SR 405.2 SS 400.0
CRT -.7135 CRS -.8221 CST .9841
LSA 675.0 MSA 230.6 SSA 14.6
EL1 547.0 EL2 223.1 ALF 137.38

LAUNCH DATE MAY 27 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 13 1967

DISTANCE 169.158

HELIOCENTRIC CONIC
RL 151.57 LAL .00 LOL 245.04 VL 21.487 GAL 8.79 AZL 93.00 HCA 64.09 SMA 102.92 ECC .49152 INC 3.0036 V1 29.396
RP 108.94 LAP -2.70 LOP 309.10 VP 33.865 GAP -29.27 AZP 91.31 TAL 170.68 TAP 234.77 RCA 52.33 APO 153.50 V2 34.784
RC 49.035 GL -7.28 GP 1.26 ZAL 70.16 ZAP 17.61 ETS 185.13 ZAE 160.17 ETE 148.28 ZAC 117.37 ETC 17.90 CLP 17.57

PLANETOCENTRIC CONIC
C3 77.175 VHL 8.785 DLA -4.71 RAL 172.56 RAD 6569.5 VEL 14.090 PTH 2.57 VHP 17.378 DPA 16.82 RAP 150.47 ECC 2.2701

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 10 57	2400.82	-23.61	53.63	55.56	106.11	7 50 58	1800.8	-21.17	45.81
90.00	17 58 49	5337.66	27.59	243.06	59.67	83.36	19 27 47	4737.7	26.38	234.60
100.00	8 30 5	2145.56	-25.03	34.40	55.10	106.91	9 5 50	1545.6	-22.47	26.54
100.00	19 22 23	5068.15	29.06	223.03	59.46	82.66	20 46 51	4468.2	27.74	214.48
110.00	9 33 15	1947.79	-28.84	18.00	53.71	109.20	10 5 43	1347.8	-25.95	10.01
110.00	20 35 42	4838.68	33.03	204.93	58.78	80.65	21 56 20	4238.7	31.39	196.09

DIFFERENTIAL CORRECTIONS
TDE .5669 TRA-1.3344 TC3 -.0927 BAU .1100
RDE -.6144 RRA -.3218 RC3 .0525 FAU .01638
FDE -.3899 FRA .6111 FC3 -.1838 BSP 2678
BDE .8360 BRA 1.3727 BC3 .1066 FSP -111

MID-COURSE EXECUTION ACCURACY
SGT 962.2 SGR 462.0 SG3 49.5
RRT .0466 RRF -.0457 RTF -.7080
SGB 1067.4 R23 -.0029 R13 -.7081
SG1 962.5 SG2 461.3 THA 1.66

ORBIT DETERMINATION ACCURACY
ST 453.2 SR 405.7 SS 422.4
CRT -.7160 CRS -.8262 CST .9836
LSA 702.7 MSA 233.3 SSA 14.8
EL1 564.1 EL2 227.5 ALF 139.41

LAUNCH DATE MAY 27 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 15 1967

DISTANCE 175.566

HELIOCENTRIC CONIC
RL 151.57 LAL .00 LOL 245.04 VL 21.936 GAL 8.36 AZL 93.05 HCA 67.25 SMA 104.50 ECC .46879 INC 3.0480 V1 29.396
RP 108.94 LAP -2.81 LOP 312.26 VP 34.152 GAP -27.86 AZP 91.18 TAL 170.29 TAP 237.54 RCA 55.51 APO 153.48 V2 34.784
RC 47.750 GL -7.97 GP 1.32 ZAL 69.70 ZAP 16.11 ETS 185.62 ZAE 161.61 ETE 143.50 ZAC 115.77 ETC 17.55 CLP 16.06

PLANETOCENTRIC CONIC
C3 69.300 VHL 8.325 DLA -5.54 RAL 172.75 RAD 6569.3 VEL 13.808 PTH 2.52 VHP 16.606 DPA 16.32 RAP 152.11 ECC 2.1405

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 18 0	2349.43	-22.60	50.21	53.69	107.53	7 57 9	1749.4	-19.99	42.51
90.00	17 53 15	5338.66	27.60	243.13	58.35	83.40	19 22 13	4738.7	26.40	234.67
100.00	8 36 43	2095.48	-23.99	31.04	53.20	108.39	9 11 39	1495.5	-21.26	23.31
100.00	19 17 12	5067.85	29.06	223.01	58.14	82.65	20 41 40	4467.8	27.73	214.46
110.00	9 38 58	1900.60	-27.74	14.77	51.71	110.82	10 10 39	1300.6	-24.66	6.96
110.00	20 31 27	4835.49	32.99	204.69	57.46	80.51	21 52 3	4235.5	31.33	195.86

DIFFERENTIAL CORRECTIONS
TDE .5683 TRA-1.3216 TC3 -.0872 BAU .0979
RDE -.5816 RRA -.3056 RC3 .0597 FAU .01690
FDE -.4099 FRA .6278 FC3 -.2112 BSP 2849
BDE .8132 BRA 1.3565 BC3 .1057 FSP -124

MID-COURSE EXECUTION ACCURACY
SGT 1004.6 SGR 463.5 SG3 54.1
RRT .0475 RRF -.0474 RTF -.7253
SGB 1106.4 R23 -.0037 R13 -.7254
SG1 1004.9 SG2 462.8 THA 1.59

ORBIT DETERMINATION ACCURACY
ST 477.7 SR 405.3 SS 446.1
CRT -.7190 CRS -.8305 CST .9831
LSA 732.1 MSA 235.2 SSA 15.0
EL1 582.3 EL2 231.1 ALF 141.46

LAUNCH DATE MAY 27 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 17 1967

DISTANCE 182.024

HELIOCENTRIC CONIC
RL 151.57 LAL .00 LOL 245.04 VL 22.354 GAL 7.94 AZL 93.09 HCA 70.41 SMA 106.04 ECC .44707 INC 3.0904 V1 29.396
RP 108.94 LAP -2.91 LOP 315.42 VP 34.423 GAP -26.51 AZP 91.04 TAL 169.94 TAP 240.35 RCA 58.63 APO 153.45 V2 34.785
RC 46.594 GL -8.70 GP 1.38 ZAL 69.32 ZAP 14.62 ETS 186.25 ZAE 163.03 ETE 137.63 ZAC 114.17 ETC 17.23 CLP 14.55

PLANETOCENTRIC CONIC
C3 62.282 VHL 7.892 DLA -6.38 RAL 172.84 RAD 6569.2 VEL 13.551 PTH 2.48 VHP 15.862 DPA 15.82 RAP 153.75 ECC 2.0250

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 24 45	2297.46	-21.49	46.80	51.76	108.90	8 3 2	1697.5	-18.71	39.23
90.00	17 47 14	5339.49	27.61	243.19	56.90	83.43	19 16 13	4739.5	26.41	234.73
100.00	8 43 3	2044.84	-22.86	27.70	51.24	109.80	9 17 8	1444.8	-19.96	20.11
100.00	19 11 36	5067.34	29.05	222.97	56.70	82.63	20 36 4	4467.3	27.73	214.42
110.00	9 44 21	1852.90	-26.55	11.58	49.67	112.37	10 15 14	1252.9	-23.28	3.94
110.00	20 26 47	4832.04	32.96	204.43	56.02	80.36	21 47 20	4232.0	31.27	195.61

DIFFERENTIAL CORRECTIONS
TDE .5701 TRA-1.3075 TC3 -.0790 BAU .0866
RDE -.5497 RRA -.2897 RC3 .0677 FAU .01748
FDE -.4314 FRA .6446 FC3 -.2430 BSP 3021
BDE .7919 BRA 1.3392 BC3 .1040 FSP -137

MID-COURSE EXECUTION ACCURACY
SGT 1048.4 SGR 464.2 SG3 59.0
RRT .0486 RRF -.0493 RTF -.7420
SGB 1146.6 R23 -.0045 R13 -.7421
SG1 1048.7 SG2 463.5 THA 1.53

ORBIT DETERMINATION ACCURACY
ST 503.4 SR 404.1 SS 471.1
CRT -.7225 CRS -.8349 CST .9827
LSA 763.3 MSA 236.3 SSA 15.2
EL1 601.7 EL2 233.7 ALF 143.52

LAUNCH DATE MAY 27 1967 FLIGHT TIME 84.00 ARRIVAL DATE AUG 19 1967

DISTANCE 188.527

HELIOCENTRIC CONIC
RL 151.57 LAL .00 LOL 245.04 VL 22.743 GAL 7.53 AZL 93.13 HCA 73.57 SMA 107.55 ECC .42637 INC 3.1311 V1 29.396
RP 108.94 LAP -3.00 LOP 318.59 VP 34.678 GAP -25.23 AZP 90.89 TAL 169.63 TAP 243.20 RCA 61.69 APO 153.41 V2 34.786
RC 45.578 GL -9.47 GP 1.44 ZAL 69.04 ZAP 13.13 ETS 187.07 ZAE 164.36 ETE 130.42 ZAC 112.56 ETC 16.92 CLP 13.05

PLANETOCENTRIC CONIC
C3 5.030 VHL 7.485 DLA -7.22 RAL 172.83 RAD 6569.0 VEL 13.319 PTH 2.43 VHP 15.145 DPA 15.31 RAP 155.39 ECC 1.9221

LNC AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 31 12	2244.99	-20.29	43.42	49.77	110.18	8 8 37	1645.0	-17.36	35.97
90.00	17 40 45	5340.33	27.61	243.25	55.34	83.46	19 9 45	4740.3	26.42	234.78
100.00	8 49 5	1993.73	-21.65	24 40	49.22	111.13	9 22 18	1393.7	-18.58	16.94
100.00	19 5 33	5066.82	29.05	222.93	55.14	82.61	20 30 0	4466.8	27.72	214.38
110.00	9 49 25	1804.80	-25.26	8.43	47.59	113.83	10 19 30	1204.8	-21.82	.96
110.00	20 21 42	4828.52	32.91	204.16	54.46	80.21	21 42 10	4228.5	31.21	195.35

DIFFERENTIAL CORRECTIONS
TDE .5702 TRA-1.2944 TC3 -.0693 BAU .0773
RDE -.5186 RRA -.2741 RC3 .0764 FAU .01811
FDE -.4542 FRA .6618 FC3 -.2798 BSP 3147
BDE .7707 BRA 1.3231 BC3 .1032 FSP -152

MID-COURSE EXECUTION ACCURACY
SGT 1094.8 SGR 464.1 SG3 64.5
RRT .0513 RRF -.0517 RTF -.7566
SGB 1189.1 R23 -.0044 R13 -.7567
SG1 1095.1 SG2 463.3 THA 1.52

ORBIT DETERMINATION ACCURACY
ST 529.4 SR 402.0 SS 497.4
CRT -.7248 CRS -.8392 CST .9819
LSA 795.4 MSA 237.3 SSA 15.4
EL1 621.4 EL2 235.9 ALF 145.52

LAUNCH DATE MAY 27 1967 FLIGHT TIME 86.00 ARRIVAL DATE AUG 21 1967

HELIOCENTRIC CONIC DISTANCE 195.070

RL 151.57 LAL .00 LOL 245.04 VL 23.105 GAL 7.12 AZL 93.17 HCA 76.73 SMA 109.02 ECC .40669 INC 3.1706 V1 29.396
RP 108.93 LAP -3.09 LOP 321.75 VP 34.918 GAP -24.00 AZP 90.73 TAL 169.37 TAP 246.10 RCA 64.68 APO 153.35 V2 34.788
RC 44.711 GL -10.28 GP 1.51 ZAL 68.85 ZAP 11.64 ETS 188.15 ZAE 165.49 ETE 121.63 ZAC 110.95 ETC 16.63 CLP 11.54

PLANETOCENTRIC CONIC

C3 50.462 VHL 7.104 DLA -8.06 RAL 172.73 RAD 6568.9 VEL 13.108 PTH 2.39 VHP 14.454 DPA 14.79 RAP 157.02 ECC 1.8305

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 37 21	2192.12	-19.02	40.06	47.74	111.38	8 13 53	1592.1	-15.94	32.74
90.00	17 33 47	5341.36	27.62	243.32	53.67	83.50	19 2 48	4741.4	26.43	234.86
100.00	8 54 48	1942.27	-20.35	21.13	47.17	112.38	9 27 10	1342.3	-17.14	13.80
100.00	18 59 1	5066.45	29.04	222.91	53.48	82.59	20 23 28	4466.5	27.71	214.36
110.00	9 54 9	1756.40	-23.89	5.33	45.48	115.21	10 23 26	1156.4	-20.30	358.04
110.00	20 16 9	4825.00	32.87	203.90	52.79	80.06	21 36 34	4225.1	31.15	195.10

DIFFERENTIAL CORRECTIONS
TDE .5728 TRA-1.2777 TC3 -.0546 BAU .0688
RDE -.4883 RRA -.2588 RC3 .0861 FAU .01882
FDE -.4792 FRA .6788 FC3 -.3228 BSP 3322
BDE .7527 BRA 1.3036 BC3 .1019 FSP -168

MID-COURSE EXECUTION ACCURACY
SGT 1141.4 SGR 463.2 SG3 70.5
RRT .0529 RRF -.0540 RTF -.7716
SGB 1231.8 R23 -.0052 R13 -.7717
SG1 1141.7 SG2 462.4 THA 1.47

ORBIT DETERMINATION ACCURACY
ST 557.6 SR 398.9 SS 525.5
CRT -.7292 CRS -.8440 CST .9815
LSA 830.5 MSA 237.1 SSA 15.6
EL1 643.5 EL2 236.5 ALF 147.54

LAUNCH DATE MAY 27 1967 FLIGHT TIME 88.00 ARRIVAL DATE AUG 23 1967

HELIOCENTRIC CONIC DISTANCE 201.649

RL 151.57 LAL .00 LOL 245.04 VL 23.441 GAL 6.73 AZL 93.21 HCA 79.90 SMA 110.44 ECC .38800 INC 3.2090 V1 29.396
RP 108.92 LAP -3.16 LOP 324.92 VP 35.145 GAP -22.82 AZP 90.56 TAL 169.15 TAP 249.05 RCA 67.59 APO 153.28 V2 34.791
RC 44.000 GL -11.14 GP 1.59 ZAL 68.75 ZAP 10.15 ETS 189.62 ZAE 166.31 ETE 111.24 ZAC 109.34 ETC 16.36 CLP 10.02

PLANETOCENTRIC CONIC

C3 45.506 VHL 6.746 DLA -8.91 RAL 172.53 RAD 6568.7 VEL 12.918 PTH 2.35 VHP 13.788 DPA 14.28 RAP 158.64 ECC 1.7489

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 43 12	2138.97	-17.66	36.75	45.67	112.50	8 18 51	1539.0	-14.46	29.54
90.00	17 26 18	5342.79	27.63	243.43	51.91	83.55	18 55 21	4742.8	26.45	234.96
100.00	9 0 12	1890.56	-18.97	17.90	45.09	113.54	9 31 43	1290.6	-15.63	10.70
100.00	18 52 0	5066.43	29.04	222.91	51.71	82.59	20 16 26	4466.4	27.71	214.35
110.00	9 58 34	1707.84	-22.45	2.30	43.35	116.48	10 27 1	1107.8	-18.71	355.16
110.00	20 10 8	4821.91	32.84	203.66	51.03	79.92	21 30 30	4221.9	31.10	194.87

DIFFERENTIAL CORRECTIONS
TDE .5762 TRA-1.2594 TC3 -.0359 BAU .0627
RDE -.4589 RRA -.2439 RC3 .0966 FAU .01961
FDE -.5065 FRA .6957 FC3 -.3730 BSP 3504
BDE .7367 BRA 1.2828 BC3 .1031 FSP -187

MID-COURSE EXECUTION ACCURACY
SGT 1189.2 SGR 461.4 SG3 77.1
RRT .0545 RRF -.0566 RTF -.7858
SGB 1275.6 R23 -.0062 R13 -.7859
SG1 1189.5 SG2 460.6 THA 1.43

ORBIT DETERMINATION ACCURACY
ST 587.4 SR 394.9 SS 555.6
CRT -.7345 CRS -.8490 CST .9813
LSA 868.2 MSA 236.0 SSA 15.8
EL1 667.3 EL2 235.9 ALF 149.52

LAUNCH DATE MAY 27 1967 FLIGHT TIME 90.00 ARRIVAL DATE AUG 25 1967

HELIOCENTRIC CONIC DISTANCE 208.259

RL 151.57 LAL .00 LOL 245.04 VL 23.754 GAL 6.34 AZL 93.25 HCA 83.06 SMA 111.81 ECC .37030 INC 3.2467 V1 29.396
RP 108.91 LAP -3.22 LOP 328.09 VP 35.357 GAP -21.69 AZP 90.39 TAL 168.98 TAP 252.04 RCA 70.40 APO 153.21 V2 34.795
RC 43.455 GL -12.04 GP 1.68 ZAL 68.76 ZAP 8.66 ETS 191.69 ZAE 166.69 ETE 99.60 ZAC 107.74 ETC 16.09 CLP 8.50

PLANETOCENTRIC CONIC

C3 41.098 VHL 6.411 DLA -9.76 RAL 172.23 RAD 6568.6 VEL 12.746 PTH 2.32 VHP 13.146 DPA 13.76 RAP 160.24 ECC 1.6764

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 48 47	2085.64	-16.25	33.48	43.58	113.52	8 23 33	1485.6	-12.93	26.37
90.00	17 18 18	5344.80	27.65	243.57	50.05	83.62	18 47 23	4744.8	26.47	235.10
100.00	9 5 20	1838.73	-17.53	14.72	42.98	114.60	9 35 58	1238.7	-14.07	7.65
100.00	18 44 27	5066.95	29.05	222.94	49.86	82.61	20 8 54	4467.0	27.72	214.39
110.00	10 2 38	1659.25	-20.95	359.33	41.20	117.65	10 30 18	1059.3	-17.08	352.34
110.00	20 3 38	4819.19	32.80	203.45	49.19	79.80	21 23 57	4219.2	31.05	194.67

DIFFERENTIAL CORRECTIONS
TDE .5803 TRA-1.2397 TC3 -.0124 BAU .0598
RDE -.4305 RRA -.2294 RC3 .1081 FAU .02048
FDE -.5364 FRA .7129 FC3 -.4315 BSP 3683
BDE .7226 BRA 1.2608 BC3 .1088 FSP -208

MID-COURSE EXECUTION ACCURACY
SGT 1238.3 SGR 458.8 SG3 84.4
RRT .0566 RRF -.0597 RTF -.7994
SGB 1320.5 R23 -.0072 R13 -.7994
SG1 1238.6 SG2 458.0 THA 1.39

ORBIT DETERMINATION ACCURACY
ST 618.7 SR 389.8 SS 587.7
CRT -.7402 CRS -.8542 CST .9811
LSA 908.3 MSA 234.1 SSA 16.0
EL1 692.8 EL2 234.1 ALF 151.44

LAUNCH DATE MAY 27 1967 FLIGHT TIME 92.00 ARRIVAL DATE AUG 27 1967

HELIOCENTRIC CONIC DISTANCE 214.896

RL 151.57 LAL .00 LOL 245.04 VL 24.044 GAL 5.97 AZL 93.28 HCA 86.22 SMA 113.13 ECC .35358 INC 3.2838 V1 29.396
RP 108.90 LAP -3.28 LOP 331.26 VP 35.557 GAP -20.60 AZP 90.22 TAL 168.86 TAP 255.08 RCA 73.13 APO 153.13 V2 34.799
RC 43.079 GL -12.98 GP 1.78 ZAL 68.86 ZAP 7.18 ETS 194.75 ZAE 166.54 ETE 87.52 ZAC 106.15 ETC 15.85 CLP 6.96

PLANETOCENTRIC CONIC

C3 37.182 VHL 6.098 DLA -10.62 RAL 171.82 RAD 6568.4 VEL 12.592 PTH 2.28 VHP 12.527 DPA 13.25 RAP 161.83 ECC 1.6119

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 54 6	2032.25	-14.77	30.26	41.46	114.44	8 27 58	1432.2	-11.35	23.25
90.00	17 9 45	5347.60	27.67	243.77	48.12	83.72	18 38 52	4747.6	26.51	235.30
100.00	9 10 9	1786.89	-16.04	11.60	40.85	115.57	9 39 56	1186.9	-12.46	4.63
100.00	18 36 23	5068.19	29.06	223.03	47.94	82.66	20 0 51	4468.2	27.74	214.48
110.00	10 6 24	1610.78	-19.39	356.44	39.05	118.72	10 33 14	1010.8	-15.41	349.58
110.00	19 56 38	4817.07	32.78	203.29	47.26	79.71	21 16 55	4217.1	31.01	194.52

DIFFERENTIAL CORRECTIONS
TDE .5852 TRA-1.2185 TC3 .0164 BAU .0604
RDE -.4029 RRA -.2155 RC3 .1205 FAU .02146
FDE -.5693 FRA .7302 FC3 -.4997 BSP 3869
BDE .7105 BRA 1.2374 BC3 .1216 FSP -231

MID-COURSE EXECUTION ACCURACY
SGT 1288.3 SGR 455.4 SG3 92.4
RRT .0592 RRF -.0633 RTF -.8122
SGB 1366.4 R23 -.0084 R13 -.8123
SG1 1288.6 SG2 454.5 THA 1.37

ORBIT DETERMINATION ACCURACY
ST 651.5 SR 383.7 SS 622.0
CRT -.7465 CRS -.8594 CST .9810
LSA 951.2 MSA 231.5 SSA 16.2
EL1 719.9 EL2 231.0 ALF 153.31

LAUNCH DATE MAY 27 1967 FLIGHT TIME 94.00 ARRIVAL DATE AUG 29 1967

HELIOCENTRIC CONIC DISTANCE 221.555

```
RL  151.57 LAL    .00 LOL 245.04 VL  24.313 GAL   5.61 AZL  93.32 HCA  89.39 SMA 114.40 ECC .33780 INC 3.3208 V1  29.396
RP  108.88 LAP  -3.32 LOP 334.42 VP  35.744 GAP -19.56 AZP  90.04 TAL 168.79 TAP 258.17 RCA  75.75 APO 153.04 V2  34.804
RC   42.876 GL  -13.97 GP    1.89 ZAL  69.06 ZAP   5.73 ETS 199.56 ZAE 165.87 ETE  76.02 ZAC 104.57 ETC  15.61 CLP   5.41
```

PLANETOCENTRIC CONIC

```
C3  33.707 VHL  5.806 DLA -11.47 RAL 171.31 RAD 6568.3 VEL 12.453 PTH   2.25 VHP 11.930 DPA  12.75 RAP 163.40 ECC 1.5547
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 59 9	1978.92	-13.24	27.08	39.33	115.26	8 32 8	1378.9	-9.73	20.16
90.00	17 0 38	5351.36	27.70	244.04	46.12	83.85	18 29 49	4751.4	26.55	235.56
100.00	9 14 42	1735.19	-14.49	8.54	38.71	116.43	9 43 37	1135.2	-10.83	1.67
100.00	18 27 46	5070.33	29.08	223.19	45.94	82.74	19 52 16	4470.3	27.77	214.63
110.00	10 9 50	1562.54	-17.79	353.61	36.88	119.68	10 35 52	962.5	-13.70	346.88
110.00	19 49 7	4815.74	32.76	203.19	45.28	79.65	21 9 23	4215.7	30.99	194.42

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .5911 TRA-1.1952 TC3  .0509 BAU  .0645   SGT 1338.8 SGR  451.1 SG3  101.4     ST   686.0 SR   376.4 SS   659.0
RDE -.3763 RRA -.2022 RC3  .1338 FAU .02255   RRT  .0622 RRF -.0675 RTF -.8242     CRT -.7535 CRS -.8649 CST  .9810
FDE -.6058 FRA  .7475 FC3 -.5791 BSP   4058   SGB 1412.8 R23 -.0097 R13 -.8243     LSA  997.2 MSA  228.1 SSA   16.3
BDE  .7007 BRA 1.2122 BC3  .1432 FSP   -256   SG1 1339.1 SG2  450.1 THA   1.35     EL1  748.9 EL2  226.7 ALF 155.10
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 96.00 ARRIVAL DATE AUG 31 1967

HELIOCENTRIC CONIC DISTANCE 228.233

```
RL  151.57 LAL    .00 LOL 245.04 VL  24.563 GAL   5.26 AZL  93.36 HCA  92.55 SMA 115.61 ECC .32295 INC 3.3576 V1  29.396
RP  108.87 LAP  -3.35 LOP 337.59 VP  35.920 GAP -18.55 AZP  89.85 TAL 168.76 TAP 261.31 RCA  78.28 APO 152.95 V2  34.809
RC   42.849 GL  -15.00 GP    2.01 ZAL  69.36 ZAP   4.32 ETS 207.89 ZAE 164.73 ETE  65.85 ZAC 103.00 ETC  15.39 CLP   3.83
```

PLANETOCENTRIC CONIC

```
C3  30.626 VHL  5.534 DLA -12.34 RAL 170.70 RAD 6568.2 VEL 12.329 PTH   2.22 VHP 11.355 DPA  12.26 RAP 164.96 ECC 1.5040
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 3 57	1925.78	-11.68	23.96	37.20	115.98	8 36 3	1325.8	-8.09	17.12
90.00	16 50 56	5356.26	27.73	244.40	44.07	84.02	18 20 12	4756.3	26.61	235.91
100.00	9 18 58	1683.74	-12.91	5.54	36.56	117.19	9 47 2	1083.7	-9.17	358.75
100.00	18 18 36	5073.53	29.10	223.42	43.89	82.86	19 43 9	4473.5	27.81	214.86
110.00	10 12 57	1514.70	-16.15	350.87	34.72	120.54	10 38 11	914.7	-11.98	344.25
110.00	19 41 7	4815.34	32.76	203.16	43.23	79.64	21 1 22	4215.3	30.98	194.39

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .5979 TRA-1.1708 TC3  .0918 BAU  .0714   SGT 1390.3 SGR  446.0 SG3  111.3     ST   722.3 SR   368.0 SS   698.9
RDE -.3506 RRA -.1894 RC3  .1481 FAU .02376   RRT  .0662 RRF -.0727 RTF -.8356     CRT -.7610 CRS -.8703 CST  .9811
FDE -.6463 FRA  .7652 FC3 -.6717 BSP   4247   SGB 1460.1 R23 -.0112 R13 -.8357     LSA 1046.4 MSA  224.1 SSA   16.5
BDE  .6931 BRA 1.1860 BC3  .1743 FSP   -285   SG1 1390.7 SG2  444.9 THA   1.35     EL1  779.9 EL2  221.1 ALF 156.84
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 2 1967

HELIOCENTRIC CONIC DISTANCE 234.926

```
RL  151.57 LAL    .00 LOL 245.04 VL  24.794 GAL   4.93 AZL  93.39 HCA  95.72 SMA 116.78 ECC .30901 INC 3.3947 V1  29.396
RP  108.85 LAP  -3.38 LOP 340.77 VP  36.084 GAP -17.59 AZP  89.66 TAL 168.79 TAP 264.50 RCA  80.69 APO 152.86 V2  34.815
RC   42.995 GL  -16.08 GP    2.14 ZAL  69.76 ZAP   3.09 ETS 223.99 ZAE 163.26 ETE  57.34 ZAC 101.46 ETC  15.18 CLP   2.23
```

PLANETOCENTRIC CONIC

```
C3  27.901 VHL  5.282 DLA -13.20 RAL 169.98 RAD 6568.1 VEL 12.218 PTH   2.20 VHP 10.801 DPA  11.78 RAP 166.48 ECC 1.4592
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 8 31	1872.93	-10.08	20.90	35.06	116.60	8 39 44	1272.9	-6.43	14.13
90.00	16 40 39	5362.46	27.77	244.85	41.97	84.24	18 10 2	4762.5	26.69	236.35
100.00	9 22 59	1632.68	-11.31	2.60	34.41	117.86	9 50 11	1032.7	-7.49	355.89
100.00	18 8 52	5077.95	29.14	223.75	41.79	83.03	19 33 30	4477.9	27.87	215.18
110.00	10 15 45	1467.39	-14.50	348.20	32.56	121.30	10 40 12	867.4	-10.25	341.68
110.00	19 32 35	4816.00	32.77	203.21	41.15	79.66	20 52 51	4216.0	30.99	194.44

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .6052 TRA-1.1449 TC3  .1394 BAU  .0801   SGT 1442.1 SGR  440.1 SG3  122.2     ST   759.9 SR   358.4 SS   741.6
RDE -.3258 RRA -.1773 RC3  .1633 FAU .02511   RRT  .0714 RRF -.0793 RTF -.8463     CRT -.7686 CRS -.8756 CST  .9813
FDE -.6913 FRA  .7833 FC3 -.7792 BSP   4434   SGB 1507.8 R23 -.0127 R13 -.8464     LSA 1098.8 MSA  219.6 SSA   16.6
BDE  .6873 BRA 1.1585 BC3  .2147 FSP   -317   SG1 1442.5 SG2  438.8 THA   1.38     EL1  812.3 EL2  214.5 ALF 158.50
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 4 1967

HELIOCENTRIC CONIC DISTANCE 241.630

```
RL  151.57 LAL    .00 LOL 245.04 VL  25.008 GAL   4.61 AZL  93.43 HCA  98.88 SMA 117.88 ECC .29594 INC 3.4322 V1  29.396
RP  108.83 LAP  -3.39 LOP 343.94 VP  36.238 GAP -16.66 AZP  89.47 TAL 168.86 TAP 267.74 RCA  83.00 APO 152.77 V2  34.822
RC   43.312 GL  -17.19 GP    2.29 ZAL  70.25 ZAP   2.36 ETS 255.49 ZAE 161.56 ETE  50.40 ZAC  99.94 ETC  14.98 CLP    .60
```

PLANETOCENTRIC CONIC

```
C3  25.493 VHL  5.049 DLA -14.07 RAL 169.16 RAD 6568.0 VEL 12.119 PTH   2.17 VHP 10.267 DPA  11.32 RAP 167.99 ECC 1.4195
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 12 51	1820.50	-8.47	17.89	32.92	117.12	8 43 12	1220.5	-4.77	11.17
90.00	16 29 47	5370.11	27.82	245.40	39.83	84.52	17 59 17	4770.1	26.77	236.89
100.00	9 26 44	1582.13	-9.68	359.72	32.27	118.42	9 53 6	982.1	-5.81	353.07
100.00	17 58 35	5083.72	29.19	224.17	39.66	83.24	19 23 19	4483.7	27.95	215.59
110.00	10 18 15	1420.75	-12.83	345.61	30.40	121.96	10 41 56	820.8	-8.52	339.17
110.00	19 23 33	4817.86	32.79	203.35	39.03	79.74	20 43 51	4217.9	31.03	194.57

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .6140 TRA-1.1172 TC3  .1939 BAU  .0900   SGT 1494.0 SGR  433.3 SG3  134.5     ST   799.6 SR   347.5 SS   788.0
RDE -.3019 RRA -.1658 RC3  .1794 FAU .02663   RRT  .0776 RRF -.0872 RTF -.8563     CRT -.7768 CRS -.8810 CST  .9817
FDE -.7421 FRA  .8016 FC3 -.9044 BSP   4622   SGB 1555.6 R23 -.0147 R13 -.8564     LSA 1155.3 MSA  214.5 SSA   16.7
BDE  .6842 BRA 1.1294 BC3  .2641 FSP   -353   SG1 1494.4 SG2  431.9 THA   1.41     EL1  847.0 EL2  206.6 ALF 160.11
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 6 1967

HELIOCENTRIC CONIC DISTANCE 248.342
RL 151.57 LAL .00 LOL 245.04 VL 25.206 GAL 4.30 AZL 93.47 HCA 102.05 SMA 118.93 ECC .28373 INC 3.4704 V1 29.396
RP 108.80 LAP -3.39 LOP 347.11 VP 36.382 GAP -15.76 AZP 89.27 TAL 168.98 TAP 271.03 RCA 85.19 APO 152.67 V2 34.830
RC 43.796 GL -18.34 GP 2.45 ZAL 70.83 ZAP 2.68 ETS 293.66 ZAE 159.76 ETE 44.82 ZAC 98.45 ETC 14.80 CLP -1.07

PLANETOCENTRIC CONIC
C3 23.370 VHL 4.834 DLA -14.93 RAL 168.25 RAD 6567.9 VEL 12.031 PTH 2.15 VHP 9.753 DPA 10.89 RAP 169.46 ECC 1.3846

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 17 0	1768.59	-6.85	14.94	30.79	117.54	8 46 29	1168.6	-3.10	8.26
90.00	16 18 20	5379.33	27.88	246.07	37.67	84.85	17 48 0	4779.3	26.88	237.55
100.00	9 30 16	1532.20	-8.05	356.91	30.14	118.88	9 55 48	932.2	-4.14	350.31
100.00	17 47 46	5090.95	29.24	224.70	37.51	83.52	19 12 37	4490.9	28.04	216.10
110.00	10 20 29	1374.92	-11.17	343.11	28.26	122.52	10 43 23	774.9	-6.80	336.74
110.00	19 14 2	4820.99	32.83	203.59	36.90	79.88	20 34 23	4221.0	31.08	194.80

DIFFERENTIAL CORRECTIONS
TDE .6241 TRA-1.0875 TC3 .2556 BAU .1007
RDE -.2788 RRA -.1550 RC3 .1962 FAU .02833
FDE -.7990 FRA .8203 FC3-1.0496 BSP 4825
BDE .6835 BRA 1.0984 BC3 .3223 FSP -393

MID-COURSE EXECUTION ACCURACY
SGT 1545.2 SGR 425.8 SG3 148.1
RRT .0854 RRF -.0973 RTF -.8658
SGB 1602.8 R23 -.0174 R13 -.8659
SG1 1545.6 SG2 424.1 THA 1.46

ORBIT DETERMINATION ACCURACY
ST 841.0 SR 335.3 SS 838.0
CRT -.7855 CRS -.8861 CST .9823
LSA 1215.8 MSA 208.8 SSA 16.8
EL1 883.6 EL2 197.5 ALF 161.66

LAUNCH DATE MAY 27 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 8 1967

HELIOCENTRIC CONIC DISTANCE 255.058
RL 151.57 LAL .00 LOL 245.04 VL 25.389 GAL 4.01 AZL 93.51 HCA 105.22 SMA 119.92 ECC .27233 INC 3.5095 V1 29.396
RP 108.78 LAP -3.39 LOP 350.29 VP 36.517 GAP -14.90 AZP 89.08 TAL 169.14 TAP 274.36 RCA 87.27 APO 152.58 V2 34.838
RC 44.440 GL -19.53 GP 2.64 ZAL 71.49 ZAP 3.84 ETS 316.50 ZAE 157.92 ETE 40.33 ZAC 96.99 ETC 14.62 CLP -2.78

PLANETOCENTRIC CONIC
C3 21.503 VHL 4.637 DLA -15.80 RAL 167.24 RAD 6567.9 VEL 11.953 PTH 2.13 VHP 9.259 DPA 10.49 RAP 170.89 ECC 1.3539

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 20 59	1717.29	-5.22	12.05	28.68	117.87	8 49 36	1117.3	-1.45	5.40
90.00	16 6 19	5390.24	27.95	246.86	35.49	85.24	17 36 9	4790.2	26.99	238.32
100.00	9 33 35	1483.01	-6.43	354.17	28.02	119.26	9 58 18	883.0	-2.48	347.60
100.00	17 36 24	5099.74	29.31	225.35	35.34	83.85	19 1 23	4499.7	28.15	216.73
110.00	10 22 25	1330.02	-9.51	340.68	26.14	122.99	10 44 35	730.0	-5.10	334.37
110.00	19 4 3	4825.50	32.88	203.93	34.75	80.07	20 24 28	4225.5	31.16	195.13

DIFFERENTIAL CORRECTIONS
TDE .6346 TRA-1.0576 TC3 .3249 BAU .1118
RDE -.2564 RRA -.1450 RC3 .2139 FAU .03024
FDE -.8633 FRA .8396 FC3-1.2174 BSP 5004
BDE .6844 BRA 1.0675 BC3 .3890 FSP -438

MID-COURSE EXECUTION ACCURACY
SGT 1596.8 SGR 417.6 SG3 163.4
RRT .0964 RRF -.1099 RTF -.8746
SGB 1650.5 R23 -.0196 R13 -.8748
SG1 1597.4 SG2 415.5 THA 1.55

ORBIT DETERMINATION ACCURACY
ST 883.6 SR 321.7 SS 892.1
CRT -.7934 CRS -.8909 CST .9828
LSA 1280.0 MSA 203.2 SSA 16.8
EL1 921.4 EL2 187.8 ALF 163.17

LAUNCH DATE MAY 27 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 10 1967

HELIOCENTRIC CONIC DISTANCE 261.777
RL 151.57 LAL .00 LOL 245.04 VL 25.557 GAL 3.73 AZL 93.55 HCA 108.39 SMA 120.86 ECC .26173 INC 3.5498 V1 29.396
RP 108.75 LAP -3.37 LOP 353.47 VP 36.642 GAP -14.06 AZP 88.88 TAL 169.34 TAP 277.74 RCA 89.23 APO 152.49 V2 34.846
RC 45.237 GL -20.75 GP 2.85 ZAL 72.24 ZAP 5.36 ETS 327.83 ZAE 156.12 ETE 36.73 ZAC 95.58 ETC 14.45 CLP -4.55

PLANETOCENTRIC CONIC
C3 19.866 VHL 4.457 DLA -16.66 RAL 166.14 RAD 6567.8 VEL 11.885 PTH 2.11 VHP 8.783 DPA 10.12 RAP 172.29 ECC 1.3269

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 24 49	1666.67	-3.60	9.21	26.59	118.11	8 52 36	1066.7	.18	2.57
90.00	15 53 44	5402.93	28.02	247.78	33.31	85.70	17 23 47	4802.9	27.12	239.23
100.00	9 36 43	1434.65	-4.81	351.49	25.92	119.54	10 0 38	834.7	-.84	344.95
100.00	17 24 31	5110.18	29.38	226.11	33.17	84.25	18 49 41	4510.2	28.28	217.48
110.00	10 24 7	1286.17	-7.88	338.34	24.03	123.37	10 45 33	686.2	-3.43	332.07
110.00	18 53 37	4831.43	32.95	204.38	32.61	80.33	20 14 8	4231.4	31.26	195.56

DIFFERENTIAL CORRECTIONS
TDE .6458 TRA-1.0259 TC3 .3995 BAU .1227
RDE -.2346 RRA -.1357 RC3 .2322 FAU .03236
FDE -.9360 FRA .8594 FC3-1.4102 BSP 5181
BDE .6871 BRA 1.0349 BC3 .4621 FSP -489

MID-COURSE EXECUTION ACCURACY
SGT 1646.5 SGR 408.6 SG3 180.4
RRT .1100 RRF -.1258 RTF -.8827
SGB 1696.5 R23 -.0225 R13 -.8829
SG1 1647.2 SG2 406.0 THA 1.67

ORBIT DETERMINATION ACCURACY
ST 927.3 SR 306.6 SS 950.5
CRT -.8012 CRS -.8952 CST .9834
LSA 1348.3 MSA 197.5 SSA 16.8
EL1 960.5 EL2 177.1 ALF 164.63

LAUNCH DATE MAY 27 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 12 1967

HELIOCENTRIC CONIC DISTANCE 268.495
RL 151.57 LAL .00 LOL 245.04 VL 25.712 GAL 3.46 AZL 93.59 HCA 111.57 SMA 121.74 ECC .25188 INC 3.5917 V1 29.396
RP 108.72 LAP -3.34 LOP 356.65 VP 36.759 GAP -13.26 AZP 88.68 TAL 169.59 TAP 281.15 RCA 91.08 APO 152.41 V2 34.856
RC 46.178 GL -21.99 GP 3.09 ZAL 73.06 ZAP 7.07 ETS 333.99 ZAE 154.41 ETE 33.83 ZAC 94.21 ETC 14.29 CLP -6.36

PLANETOCENTRIC CONIC
C3 18.434 VHL 4.294 DLA -17.51 RAL 164.97 RAD 6567.7 VEL 11.824 PTH 2.09 VHP 8.325 DPA 9.80 RAP 173.65 ECC 1.3034

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 28 33	1616.80	-2.00	6.42	24.53	118.25	8 55 30	1016.8	1.79	359.79
90.00	15 40 37	5417.49	28.08	248.84	31.14	86.22	17 10 55	4817.5	27.27	240.27
100.00	9 39 43	1387.19	-3.21	348.87	23.86	119.74	10 2 50	787.2	.77	342.35
100.00	17 12 9	5122.33	29.46	227.01	31.02	84.71	18 37 31	4522.3	28.42	218.36
110.00	10 25 35	1243.47	-6.27	336.07	21.96	123.67	10 46 19	643.5	-1.80	329.84
110.00	18 42 46	4838.82	33.03	204.94	30.48	80.65	20 3 25	4238.8	31.39	196.10

DIFFERENTIAL CORRECTIONS
TDE .6580 TRA -.9929 TC3 .4804 BAU .1336
RDE -.2134 RRA -.1272 RC3 .2513 FAU .03477
FDE-1.0187 FRA .8797 FC3-1.6327 BSP 5351
BDE .6917 BRA 1.0010 BC3 .5421 FSP -546

MID-COURSE EXECUTION ACCURACY
SGT 1694.6 SGR 399.2 SG3 199.4
RRT .1276 RRF -.1460 RTF -.8902
SGB 1741.0 R23 -.0261 R13 -.8904
SG1 1695.4 SG2 395.7 THA 1.82

ORBIT DETERMINATION ACCURACY
ST 972.1 SR 289.8 SS 1013.7
CRT -.8083 CRS -.8989 CST .9841
LSA 1421.1 MSA 191.7 SSA 16.7
EL1 1000.7 EL2 165.8 ALF 166.06

LAUNCH DATE MAY 27 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 14 1967

HELIOCENTRIC CONIC DISTANCE 275.209

RL	151.57	LAL	.00	LOL	245.04	VL	25.855	GAL	3.21	AZL	93.64	HCA	114.74	SMA	122.57	ECC	.24277	INC	3.6355	V1	29.396
RP	108.69	LAP	-3.30	LOP	359.83	VP	36.868	GAP	-12.48	AZP	88.48	TAL	169.86	TAP	284.60	RCA	92.81	APO	152.33	V2	34.865
RC	47.255	GL	-23.25	GP	3.36	ZAL	73.93	ZAP	8.90	ETS	337.68	ZAE	152.83	ETE	31.49	ZAC	92.89	ETC	14.14	CLP	-8.25

PLANETOCENTRIC CONIC

C3	17.187	VHL	4.146	DLA	-18.36	RAL	163.72	RAD	6567.7	VEL	11.772	PTH	2.08	VHP	7.885	DPA	9.53	RAP	174.96	ECC	1.2829

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 32 15	1567.69	-.42	3.68	22.51	118.31	8 58 23	967.7	3.37	357.05
90.00	15 26 59	5434.01	28.15	250.05	29.00	86.82	16 57 33	4834.0	27.42	241.46
100.00	9 42 36	1340.68	-1.64	346.31	21.83	119.85	10 4 57	740.7	2.35	339.79
100.00	16 59 19	5136.25	29.55	228.03	28.89	85.25	18 24 55	4536.2	28.57	219.36
110.00	10 26 52	1201.98	-4.70	333.89	19.92	123.90	10 46 54	602.0	-.22	327.67
110.00	18 31 32	4847.72	33.13	205.62	28.38	81.04	19 52 20	4247.7	31.54	196.75

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	.6732	TRA	-.9567	TC3	.5712	BAU	.1453	SGT	1740.8	SGR	389.4	SG3	221.0	ST	1020.0
RDE	-.1925	RRA	-.1195	RC3	.2711	FAU	.03752	RRT	.1496	RRF	-.1714	RTF	-.8982	CRT	-.8155
FDE	-1.1141	FRA	.8997	FC3	-1.8901	BSP	5570	SGB	1783.9	R23	-.0304	R13	-.8985	LSA	1500.8
BDE	.7002	BRA	.9641	BC3	.6323	FSP	-614	SG1	1741.9	SG2	384.8	THA	2.02	EL1	1044.3

SR	271.2	SS	1083.1	CRS	-.9017	CST	.9851	MSA	185.2	SSA	16.6	EL2	153.3	ALF	167.49

LAUNCH DATE MAY 27 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 16 1967

HELIOCENTRIC CONIC DISTANCE 281.918

RL	151.57	LAL	.00	LOL	245.04	VL	25.985	GAL	2.98	AZL	93.68	HCA	117.92	SMA	123.34	ECC	.23437	INC	3.6816	V1	29.396
RP	108.66	LAP	-3.25	LOP	3.01	VP	36.970	GAP	-11.73	AZP	88.27	TAL	170.17	TAP	288.09	RCA	94.43	APO	152.25	V2	34.875
RC	48.458	GL	-24.53	GP	3.67	ZAL	74.86	ZAP	10.84	ETS	340.05	ZAE	151.41	ETE	29.64	ZAC	91.63	ETC	13.99	CLP	-10.20

PLANETOCENTRIC CONIC

C3	16.106	VHL	4.013	DLA	-19.20	RAL	162.41	RAD	6567.6	VEL	11.726	PTH	2.07	VHP	7.463	DPA	9.31	RAP	176.21	ECC	1.2651

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 35 58	1519.32	1.14	.98	20.54	118.30	9 1 18	919.3	4.92	354.34
90.00	15 12 51	5452.59	28.22	251.40	26.89	87.50	16 43 43	4852.6	27.57	242.80
100.00	9 45 26	1295.14	-.09	343.82	19.85	119.89	10 7 2	695.1	3.88	337.29
100.00	16 46 3	5152.01	29.63	229.20	26.79	85.85	18 11 55	4552.0	28.74	220.51
110.00	10 28 0	1161.76	-3.17	331.78	17.93	124.05	10 47 22	561.8	1.32	325.58
110.00	18 19 59	4858.15	33.24	206.41	26.32	81.50	19 40 57	4258.1	31.70	197.52

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	.6861	TRA	-.9223	TC3	.6582	BAU	.1550	SGT	1784.0	SGR	379.5	SG3	245.1	ST	1065.2
RDE	-.1718	RRA	-.1127	RC3	.2918	FAU	.04055	RRT	.1789	RRF	-.2040	RTF	-.9044	CRT	-.8193
FDE	-1.2214	FRA	.9221	FC3	-2.1794	BSP	5716	SGB	1823.9	R23	-.0354	R13	-.9047	LSA	1582.1
BDE	.7073	BRA	.9292	BC3	.7200	FSP	-687	SG1	1785.4	SG2	373.1	THA	2.28	EL1	1085.2

SR	250.6	SS	1156.8	CRS	-.9028	CST	.9858	MSA	180.0	SSA	16.3	EL2	141.0	ALF	168.90

LAUNCH DATE MAY 27 1967 FLIGHT TIME 114.00 ARRIVAL DATE SEP 18 1967

HELIOCENTRIC CONIC DISTANCE 288.619

RL	151.57	LAL	.00	LOL	245.04	VL	26.105	GAL	2.76	AZL	93.73	HCA	121.10	SMA	124.06	ECC	.22663	INC	3.7304	V1	29.396
RP	108.63	LAP	-3.19	LOP	6.19	VP	37.064	GAP	-11.01	AZP	88.07	TAL	170.50	TAP	291.60	RCA	95.94	APO	152.18	V2	34.886
RC	49.776	GL	-25.82	GP	4.02	ZAL	75.83	ZAP	12.88	ETS	341.64	ZAE	150.17	ETE	28.20	ZAC	90.45	ETC	13.85	CLP	-12.24

PLANETOCENTRIC CONIC

C3	15.175	VHL	3.895	DLA	-20.03	RAL	161.06	RAD	6567.6	VEL	11.686	PTH	2.06	VHP	7.059	DPA	9.18	RAP	177.41	ECC	1.2497

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 39 48	1471.62	2.68	358.32	18.64	118.20	9 4 19	871.6	6.43	351.65
90.00	14 58 13	5473.36	28.27	252.92	24.82	88.26	16 29 26	4873.4	27.73	244.30
100.00	9 48 18	1250.53	1.42	341.37	17.94	119.86	10 9 9	650.5	5.38	334.82
100.00	16 32 23	5169.68	29.71	230.51	24.75	86.54	17 58 33	4569.7	28.91	221.79
110.00	10 29 3	1122.83	-1.68	329.75	16.00	124.15	10 47 46	522.8	2.81	323.54
110.00	18 8 8	4870.14	33.35	207.33	24.32	82.03	19 29 18	4270.1	31.89	198.40

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	.6994	TRA	-.8866	TC3	.7478	BAU	.1645	SGT	1823.2	SGR	369.9	SG3	272.1	ST	1109.9
RDE	-.1509	RRA	-.1068	RC3	.3135	FAU	.04398	RRT	.2165	RRF	-.2455	RTF	-.9102	CRT	-.8204
FDE	-1.3444	FRA	.9452	FC3	-2.5092	BSP	5857	SGB	1860.3	R23	-.0414	R13	-.9106	LSA	1667.9
BDE	.7155	BRA	.8930	BC3	.8108	FSP	-769	SG1	1825.0	SG2	360.8	THA	2.62	EL1	1125.7

SR	227.6	SS	1236.5	CRS	-.9017	CST	.9865	MSA	175.1	SSA	16.0	EL2	128.3	ALF	170.32

LAUNCH DATE MAY 27 1967 FLIGHT TIME 116.00 ARRIVAL DATE SEP 20 1967

HELIOCENTRIC CONIC DISTANCE 295.311

RL	151.57	LAL	.00	LOL	245.04	VL	26.215	GAL	2.55	AZL	93.78	HCA	124.28	SMA	124.73	ECC	.21953	INC	3.7827	V1	29.396
RP	108.59	LAP	-3.13	LOP	9.37	VP	37.151	GAP	-10.30	AZP	87.87	TAL	170.85	TAP	295.13	RCA	97.35	APO	152.11	V2	34.897
RC	51.201	GL	-27.11	GP	4.43	ZAL	76.81	ZAP	15.03	ETS	342.72	ZAE	149.12	ETE	27.14	ZAC	89.34	ETC	13.71	CLP	-14.38

PLANETOCENTRIC CONIC

C3	14.378	VHL	3.792	DLA	-20.85	RAL	159.67	RAD	6567.6	VEL	11.652	PTH	2.05	VHP	6.672	DPA	9.12	RAP	178.54	ECC	1.2366

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 43 49	1424.43	4.20	355.68	16.81	118.03	9 7 34	824.4	7.91	348.97
90.00	14 43 6	5496.50	28.30	254.61	22.82	89.11	16 14 42	4896.5	27.88	245.97
100.00	9 51 16	1206.76	2.90	338.96	16.10	119.76	10 11 23	606.8	6.84	332.39
100.00	16 18 20	5189.40	29.78	231.97	22.77	87.30	17 44 49	4589.4	29.09	223.23
110.00	10 30 4	1085.16	-.24	327.78	14.13	124.18	10 48 9	485.2	4.24	321.57
110.00	17 56 2	4883.76	33.48	208.37	22.39	82.64	19 17 25	4283.8	32.10	199.41

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	.7126	TRA	-.8496	TC3	.8348	BAU	.1730	SGT	1856.7	SGR	361.3	SG3	302.6	ST	1153.1
RDE	-.1295	RRA	-.1017	RC3	.3367	FAU	.04784	RRT	.2637	RRF	-.2974	RTF	-.9153	CRT	-.8169
FDE	-1.4855	FRA	.9686	FC3	-2.8804	BSP	5988	SGB	1891.5	R23	-.0490	R13	-.9159	LSA	1757.9
BDE	.7243	BRA	.8557	BC3	.9001	FSP	-864	SG1	1859.2	SG2	348.0	THA	3.04	EL1	1165.0

SR	201.9	SS	1322.5	CRS	-.8969	CST	.9873	MSA	170.6	SSA	15.6	EL2	115.3	ALF	171.78

LAUNCH DATE MAY 27 1967 FLIGHT TIME 118.00 ARRIVAL DATE SEP 22 1967

HELIOCENTRIC CONIC DISTANCE 301.991

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.314 GAL   2.36 AZL  93.84 HCA 127.46 SMA 125.34 ECC .21304 INC 3.8392 V1  29.396
RP  108.56 LAP  -3.05 LOP  12.56 VP  37.233 GAP  -9.62 AZP  87.66 TAL 171.22 TAP 298.68 RCA  98.64 APO 152.05 V2  34.908
RC  52.722 GL  -28.40 GP    4.90 ZAL  77.81 ZAP  17.32 ETS 343.46 ZAE 148.28 ETE  26.42 ZAC  88.32 ETC  13.57 CLP -16.63
```

PLANETOCENTRIC CONIC

```
C3  13.703 VHL  3.702 DLA -21.66 RAL 158.26 RAD 6567.5 VEL 11.623 PTH   2.04 VHP  6.302 DPA   9.17 RAP 179.60 ECC 1.2255
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 48 12	1377.50	5.69	353.04	15.07	117.79	9 11 9	777.5	9.37	346.29
90.00	14 27 28	5522.27	28.32	256.50	20.89	90.05	15 59 30	4922.3	28.02	247.84
100.00	9 54 27	1163.66	4.36	336.59	14.34	119.60	10 13 51	563.7	8.26	329.98
100.00	16 3 53	5211.35	29.84	233.60	20.87	88.16	17 30 45	4611.3	29.27	224.84
110.00	10 31 8	1048.68	1.15	325.88	12.34	124.17	10 48 37	448.7	5.63	319.65
110.00	17 43 42	4899.09	33.60	209.55	20.54	83.33	19 5 21	4299.1	32.32	200.56

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .7250 TRA -.8127 TC3  .9170 BAU  .1806   SGT 1884.7 SGR  354.5 SG3  336.8     ST  1193.5 SR   173.0 SS  1415.1
RDE -.1071 RRA -.0976 RC3  .3619 FAU .05218   RRT  .3230 RRF -.3619 RTF -.9199     CRT -.8043 CRS -.8851 CST  .9880
FDE-1.6475 FRA  .9939 FC3-3.2966 BSP   6084   SGB 1917.8 R23 -.0582 R13 -.9206     LSA 1851.7 MSA  166.8 SSA   15.1
BDE  .7329 BRA  .8186 BC3  .9858 FSP   -969   SG1 1888.3 SG2  334.9 THA   3.59     EL1 1201.7 EL2  102.1 ALF 173.30
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 120.00 ARRIVAL DATE SEP 24 1967

HELIOCENTRIC CONIC DISTANCE 308.660

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.405 GAL   2.18 AZL  93.90 HCA 130.64 SMA 125.91 ECC .20713 INC 3.9008 V1  29.396
RP  108.52 LAP  -2.96 LOP  15.75 VP  37.308 GAP  -8.97 AZP  87.46 TAL 171.59 TAP 302.23 RCA  99.83 APO 151.99 V2  34.920
RC  54.330 GL  -29.68 GP    5.46 ZAL  78.81 ZAP  19.74 ETS 343.94 ZAE 147.65 ETE  26.06 ZAC  87.39 ETC  13.43 CLP -19.00
```

PLANETOCENTRIC CONIC

```
C3  13.139 VHL  3.625 DLA -22.47 RAL 156.84 RAD 6567.5 VEL 11.598 PTH   2.03 VHP  5.949 DPA   9.34 RAP 180.58 ECC 1.2162
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 53 6	1330.40	7.18	350.38	13.44	117.46	9 15 16	730.4	10.80	343.57
90.00	14 11 13	5551.10	28.30	258.61	19.05	91.11	15 43 44	4951.1	28.15	249.94
100.00	9 57 59	1120.95	5.79	334.23	12.68	119.38	10 16 40	521.0	9.66	327.58
100.00	15 49 1	5235.78	29.88	235.41	19.06	89.11	17 16 17	4635.8	29.44	226.63
110.00	10 32 21	1013.23	2.51	324.03	10.65	124.10	10 49 14	413.2	6.96	317.78
110.00	17 31 9	4916.27	33.73	210.88	18.79	84.10	18 53 5	4316.3	32.55	201.84

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .7386 TRA -.7729 TC3  .9988 BAU  .1883   SGT 1906.5 SGR  351.2 SG3  375.8     ST  1233.2 SR   140.5 SS  1516.4
RDE -.0832 RRA -.0944 RC3  .3901 FAU .05719   RRT  .3953 RRF -.4398 RTF -.9246     CRT -.7747 CRS -.8588 CST  .9888
FDE-1.8361 FRA 1.0175 FC3-3.7686 BSP   6218   SGB 1938.6 R23 -.0692 R13 -.9256     LSA 1952.7 MSA  162.7 SSA   14.5
BDE  .7432 BRA  .7786 BC3 1.0722 FSP  -1094   SG1 1911.7 SG2  321.7 THA   4.29     EL1 1238.0 EL2   88.5 ALF 174.93
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 122.00 ARRIVAL DATE SEP 26 1967

HELIOCENTRIC CONIC DISTANCE 315.314

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.487 GAL   2.02 AZL  93.97 HCA 133.83 SMA 126.43 ECC .20177 INC 3.9686 V1  29:396
RP  108.48 LAP  -2.86 LOP  18.94 VP  37.377 GAP  -8.33 AZP  87.25 TAL 171.96 TAP 305.79 RCA 100.92 APO 151.94 V2  34.932
RC  56.016 GL  -30.97 GP    6.11 ZAL  79.79 ZAP  22.32 ETS 344.23 ZAE 147.23 ETE  26.06 ZAC  86.58 ETC  13.30 CLP -21.51
```

PLANETOCENTRIC CONIC

```
C3  12.677 VHL  3.561 DLA -23.27 RAL 155.42 RAD 6567.5 VEL 11.579 PTH   2.02 VHP  5.614 DPA   9.66 RAP 181.48 ECC 1.2086
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 58 46	1282.49	8.67	347.65	11.94	117.06	9 20 9	682.5	12.24	340.78
90.00	13 54 14	5583.64	28.23	260.98	17.31	92.30	15 27 18	4983.6	28.25	252.32
100.00	10 2 3	1078.21	7.21	331.85	11.15	119.09	10 20 2	478.2	11.03	325.15
100.00	15 33 38	5263.14	29.89	237.45	17.35	90.18	17 1 22	4663.1	29.60	228.65
110.00	10 33 50	978.59	3.83	322.22	9.06	123.99	10 50 8	378.6	8.26	315.94
110.00	17 18 22	4935.53	33.86	212.37	17.15	84.97	18 40 37	4335.5	32.79	203.29

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .7479 TRA -.7356 TC3 1.0590 BAU  .1932   SGT 1917.7 SGR  353.4 SG3  419.0     ST  1264.3 SR   104.4 SS  1623.5
RDE -.0571 RRA -.0924 RC3  .4218 FAU .06264   RRT  .4789 RRF -.5297 RTF -.9277     CRT -.6947 CRS -.7898 CST  .9893
FDE-2.0509 FRA 1.0451 FC3-4.2776 BSP   6265   SGB 1949.9 R23 -.0839 R13 -.9290     LSA 2054.1 MSA  160.2 SSA   13.8
BDE  .7501 BRA  .7414 BC3 1.1399 FSP  -1230   SG1 1925.3 SG2  309.0 THA   5.18     EL1 1266.3 EL2   75.0 ALF 176.71
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 124.00 ARRIVAL DATE SEP 28 1967

HELIOCENTRIC CONIC DISTANCE 321.954

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.561 GAL   1.87 AZL  94.04 HCA 137.02 SMA 126.91 ECC .19692 INC 4.0440 V1  29.396
RP  108.45 LAP  -2.76 LOP  22.13 VP  37.441 GAP  -7.71 AZP  87.04 TAL 172.33 TAP 309.35 RCA 101.92 APO 151.90 V2  34.945
RC  57.772 GL  -32.25 GP    6.87 ZAL  80.74 ZAP  25.07 ETS 344.38 ZAE 147.02 ETE  26.47 ZAC  85.89 ETC  13.17 CLP -24.17
```

PLANETOCENTRIC CONIC

```
C3  12.312 VHL  3.509 DLA -24.09 RAL 154.02 RAD 6567.5 VEL 11.563 PTH   2.02 VHP  5.297 DPA  10.14 RAP 182.28 ECC 1.2026
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 5 35	1232.77	10.20	344.80	10.58	116.56	9 26 7	632.8	13.69	337.85
90.00	13 36 15	5620.87	28.10	263.70	15.67	93.66	15 9 56	5020.9	28.31	255.04
100.00	10 6 54	1034.80	8.64	329.42	9.75	118.73	10 24 9	434.8	12.41	322.66
100.00	15 17 37	5294.08	29.86	239.75	15.76	91.39	16 45 51	4694.1	29.74	230.94
110.00	10 35 43	944.45	5.12	320.43	7.60	123.84	10 51 27	344.4	9.53	314.11
110.00	17 5 18	4957.19	33.97	214.05	15.65	85.96	18 27 55	4357.2	33.04	204.93

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .7544 TRA -.6975 TC3 1.1055 BAU  .1970   SGT 1917.3 SGR  364.0 SG3  467.4     ST  1287.7 SR    67.6 SS  1737.8
RDE -.0278 RRA -.0916 RC3  .4586 FAU .06875   RRT  .5704 RRF -.6275 RTF -.9301     CRT -.4293 CRS -.5502 CST  .9898
FDE-2.2975 FRA 1.0729 FC3-4.8348 BSP   6282   SGB 1951.5 R23 -.1022 R13 -.9320     LSA 2158.1 MSA  158.3 SSA   13.0
BDE  .7549 BRA  .7035 BC3 1.1969 FSP  -1384   SG1 1928.8 SG2  297.2 THA   6.33     EL1 1288.0 EL2   61.1 ALF 178.70
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 126.00 ARRIVAL DATE SEP 30 1967

HELIOCENTRIC CONIC DISTANCE 328.578

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.628 GAL   1.73 AZL  94.13 HCA 140.21 SMA 127.34 ECC .19257 INC 4.1291 VI  29.396
RP  108.41 LAP  -2.64 LOP  25.32 VP  37.500 GAP  -7.11 AZP  86.82 TAL 172.69 TAP 312.90 RCA 102.82 APO 151.86 V2  34.957
RC   59.590 GL  -33.53 GP   7.79 ZAL  81.65 ZAP  28.03 ETS 344.40 ZAE 147.01 ETE  27.35 ZAC  85.33 ETC  13.04 CLP -27.01
```

PLANETOCENTRIC CONIC

```
C3  12.037 VHL  3.469 DLA -24.92 RAL 152.64 RAD 6567.5 VEL 11.551 PTH   2.02 VHP  4.999 DPA  10.82 RAP 182.99 ECC 1.1981
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 14 3	1179.63	11.80	341.71	9.40	115.93	9 33 43	579.6	15.19	334.68
90.00	13 16 48	5664.47	27.87	266.87	14.15	95.23	14 51 13	5064.5	28.30	258.23
100.00	10 12 52	989.77	10.10	326.88	8.52	118.28	10 29 22	389.8	13.80	320.05
100.00	15 0 41	5329.57	29.77	242.38	14.30	92.78	16 29 30	4729.6	29.84	233.58
110.00	10 38 11	910.34	6.41	318.63	6.28	123.65	10 53 22	310.3	10.79	312.27
110.00	16 51 51	4981.76	34.07	215.96	14.29	87.09	18 14 52	4381.8	33.30	206.80

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .7593 TRA -.6590 TC3 1.1350 BAU  .1997  SGT 1905.9 SGR  386.9 SG3  521.8      ST  1304.8 SR    52.3 SS  1862.1
RDE  .0060 RRA -.0920 RC3  .5025 FAU .07561  RRT  .6618 RRF -.7248 RTF -.9320      CRT  .4516 CRS  .3275 CST  .9902
FDE-2.5844 FRA 1.1002 FC3-5.4384 BSP  6281   SGB 1944.8 R23 -.1249 R13 -.9348      LSA 2268.9 MSA  156.5 SSA   12.1
BDE  .7593 BRA  .6654 BC3 1.2412 FSP  -1558  SGI 1923.5 SG2  287.4 THA   7.83     EL1 1305.0 EL2   46.6 ALF   1.04
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 2 1967

HELIOCENTRIC CONIC DISTANCE 335.186

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.687 GAL   1.61 AZL  94.23 HCA 143.40 SMA 127.73 ECC .18867 INC 4.2266 VI  29.396
RP  108.37 LAP  -2.52 LOP  28.52 VP  37.554 GAP  -6.53 AZP  86.60 TAL 173.03 TAP 316.43 RCA 103.63 APO 151.83 V2  34.970
RC   61.464 GL  -34.83 GP   8.89 ZAL  82.50 ZAP  31.21 ETS 344.32 ZAE 147.18 ETE  28.78 ZAC  84.92 ETC  12.92 CLP -30.04
```

PLANETOCENTRIC CONIC

```
C3  11.852 VHL  3.443 DLA -25.78 RAL 151.30 RAD 6567.5 VEL 11.543 PTH   2.01 VHP  4.719 DPA  11.76 RAP 183.60 ECC 1.1951
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 25 9	1120.19	13.54	338.22	8.44	115.11	9 43 49	520.2	16.82	331.07
90.00	12 54 59	5717.40	27.48	270.69	12.73	97.11	14 30 17	5117.4	28.18	262.10
100.00	10 20 27	941.60	11.64	324.13	7.47	117.73	10 36 9	341.6	15.26	317.21
100.00	14 42 22	5371.22	29.60	245.46	12.97	94.39	16 11 53	4771.2	29.89	236.67
110.00	10 41 29	875.62	7.72	316.79	5.12	123.40	10 56 5	275.6	12.06	310.38
110.00	16 37 50	5009.97	34.15	218.16	13.10	88.39	18 1 20	4410.0	33.55	208.97

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .7599 TRA -.6199 TC3 1.1428 BAU  .2013  SGT 1879.2 SGR  426.7 SG3  581.8      ST  1310.8 SR    93.4 SS  1994.4
RDE  .0461 RRA -.0937 RC3  .5553 FAU .08318  RRT  .7438 RRF -.8116 RTF -.9332      CRT  .9411 CRS  .8890 CST  .9906
FDE-2.9139 FRA 1.1256 FC3-6.0761 BSP  6245   SGB 1927.0 R23 -.1521 R13 -.9373      LSA 2383.3 MSA  155.2 SSA   11.2
BDE  .7613 BRA  .6270 BC3 1.2706 FSP  -1753  SGI 1906.4 SG2  281.2 THA   9.80     EL1 1313.7 EL2   31.5 ALF   3.84
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 4 1967

HELIOCENTRIC CONIC DISTANCE 341.776

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.740 GAL   1.51 AZL  94.34 HCA 146.60 SMA 128.08 ECC .18521 INC 4.3399 VI  29.396
RP  108.33 LAP  -2.39 LOP  31.71 VP  37.604 GAP  -5.96 AZP  86.37 TAL 173.35 TAP 319.95 RCA 104.36 APO 151.80 V2  34.983
RC   63.388 GL  -36.15 GP  10.22 ZAL  83.29 ZAP  34.66 ETS 344.16 ZAE 147.47 ETE  30.90 ZAC  84.66 ETC  12.81 CLP -33.30
```

PLANETOCENTRIC CONIC

```
C3  11.759 VHL  3.429 DLA -26.69 RAL 149.99 RAD 6567.4 VEL 11.539 PTH   2.01 VHP  4.461 DPA  12.99 RAP 184.12 ECC 1.1935
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 40 47	1048.42	15.57	333.93	7.77	113.95	9 58 15	448.4	18.68	326.63
90.00	12 28 56	5785.88	26.81	275.59	11.38	99.48	14 5 22	5185.9	27.84	267.08
100.00	10 30 31	887.76	13.33	321.02	6.66	117.01	10 45 19	287.8	16.84	314.00
100.00	14 21 53	5421.77	29.28	249.19	11.76	96.33	15 52 14	4821.8	29.84	240.43
110.00	10 45 56	839.39	9.07	314.85	4.15	123.10	10 59 55	239.4	13.37	308.39
110.00	16 22 57	5042.90	34.18	220.73	12.08	89.91	17 47 0	4442.9	33.79	211.51

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .7548 TRA -.5821 TC3 1.1210 BAU  .2014  SGT 1834.8 SGR  488.6 SG3  647.5      ST  1303.0 SR   168.3 SS  2135.1
RDE  .0950 RRA -.0971 RC3  .6195 FAU .09137  RRT  .8082 RRF -.8805 RTF -.9327      CRT  .9953 CRS  .9760 CST  .9907
FDE-3.2917 FRA 1.1502 FC3-6.7270 BSP  6160   SGB 1898.7 R23 -.1842 R13 -.9393      LSA 2502.1 MSA  154.6 SSA   10.3
BDE  .7608 BRA  .5901 BC3 1.2808 FSP  -1967  SGI 1877.8 SG2  281.1 THA  12.43     EL1 1313.7 EL2   16.1 ALF   7.33
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 6 1967

HELIOCENTRIC CONIC DISTANCE 348.349

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.787 GAL   1.41 AZL  94.47 HCA 149.80 SMA 128.39 ECC .18216 INC 4.4743 VI  29.396
RP  108.29 LAP  -2.25 LOP  34.91 VP  37.650 GAP  -5.41 AZP  86.13 TAL 173.64 TAP 323.43 RCA 105.00 APO 151.77 V2  34.996
RC   65.357 GL  -37.52 GP  11.85 ZAL  84.01 ZAP  38.39 ETS 343.93 ZAE 147.81 ETE  33.87 ZAC  84.56 ETC  12.72 CLP -36.78
```

PLANETOCENTRIC CONIC

```
C3  11.766 VHL  3.430 DLA -27.67 RAL 148.72 RAD 6567.4 VEL 11.539 PTH   2.01 VHP  4.226 DPA  14.59 RAP 184.56 ECC 1.1936
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 6 48	945.66	18.31	327.62	7.56	111.99	10 22 33	345.7	21.13	320.09
90.00	11 52 45	600.82	25.45	304.92	9.97	102.85	12 2 46	.8	26.97	296.58
100.00	10 44 40	823.27	15.29	317.24	6.15	116.00	10 58 23	223.3	18.66	310.07
100.00	13 57 34	5486.48	28.70	253.91	10.66	98.75	15 29 0	4886.5	29.61	245.22
110.00	10 51 59	800.29	10.52	312.75	3.40	122.71	11 5 19	200.3	14.76	306.21
110.00	16 6 44	5082.23	34.14	223.80	11.25	91.73	17 31 27	4482.2	34.01	214.56

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .7439 TRA -.5429 TC3 1.0725 BAU  .2013  SGT 1770.3 SGR  578.2 SG3  718.1      ST  1280.2 SR   267.3 SS  2284.3
RDE  .1560 RRA -.1020 RC3  .6981 FAU .10016  RRT  .8532 RRF -.9292 RTF -.9311      CRT  .9990 CRS  .9933 CST  .9906
FDE-3.7235 FRA 1.1653 FC3-7.3697 BSP  6068   SGB 1862.3 R23 -.2162 R13 -.9418      LSA 2627.6 MSA  154.1 SSA    9.3
BDE  .7601 BRA  .5524 BC3 1.2797 FSP  -2205  SGI 1839.5 SG2  290.3 THA  15.98     EL1 1307.7 EL2   11.5 ALF  11.79
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 8 1967

HELIOCENTRIC CONIC DISTANCE 354.903

RL	151.57	LAL	.00	LOL	245.04	VL	26.828	GAL	1.33	AZL	94.64	HCA	153.00	SMA	128.66	ECC	.17948	INC	4.6374	V1	29.396
RP	108.25	LAP	-2.10	LOP	38.11	VP	37.691	GAP	-4.87	AZP	85.87	TAL	173.89	TAP	326.89	RCA	105.57	APO	151.76	V2	35.009
RC	67.365	GL	-38.97	GP	13.88	ZAL	84.65	ZAP	42.45	ETS	343.64	ZAE	148.08	ETE	37.87	ZAC	84.61	ETC	12.66	CLP	-40.53

PLANETOCENTRIC CONIC

C3 11.887 VHL 3.448 DLA -28.76 RAL 147.47 RAD 6567.5 VEL 11.544 PTH 2.01 VHP 4.017 DPA 16.65 RAP 184.96 ECC 1.1956

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.76	10 11 6	916.80	22.61	327.20	8.09	108.26	10 26 23	316.8	24.90	319.23
95.24	11 38 28	633.99	22.62	306.48	8.09	108.25	11 49 2	34.0	24.90	298.52
100.00	11 7 3	735.22	17.84	311.95	6.10	114.39	11 19 18	135.2	20.98	304.56
100.00	13 25 13	5578.84	27.56	260.54	9.57	102.06	14 58 12	4978.8	28.94	252.01
110.00	11 0 23	756.17	12.13	310.35	2.92	122.21	11 12 59	156.2	16.30	303.72
110.00	15 48 22	5130.66	33.98	227.57	10.62	93.96	17 13 52	4530.7	34.16	218.33

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY					
TOE	.7238	TRA	-.5058	TC3	.9859	BAU	.2011	SGT	1681.8	SGR	702.2	SG3	790.9	ST	1237.0
RDE	.2342	RRA	-.1091	RC3	.7928	FAU	.10898	RRT	.8790	RRF	-.9604	RTF	-.9266	CRT	.9968
FDE	-4.2078	FRA	1.1743	FC3	-7.9369	BSP	5904	SGB	1822.5	R23	-.2438	R13	-.9449	LSA	2758.3
BDE	.7608	BRA	.5174	BC3	1.2651	FSP	-2442	SG1	1795.3	SG2	313.7	THA	20.82	EL1	1298.0

SR	394.4	SS	2438.5		
CRS	.9979	CST	.9903		
MSA	154.3	SSA	8.3		
EL2	30.3	ALF	17.64		

LAUNCH DATE MAY 27 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 10 1967

HELIOCENTRIC CONIC DISTANCE 361.439

RL	151.57	LAL	.00	LOL	245.04	VL	26.864	GAL	1.27	AZL	94.84	HCA	156.20	SMA	128.90	ECC	.17717	INC	4.8408	V1	29.396
RP	108.20	LAP	-1.95	LOP	41.31	VP	37.729	GAP	-4.35	AZP	85.57	TAL	174.10	TAP	330.30	RCA	106.07	APO	151.74	V2	35.023
RC	69.409	GL	-40.55	GP	16.43	ZAL	85.21	ZAP	46.87	ETS	343.32	ZAE	148.06	ETE	43.10	ZAC	84.78	ETC	12.67	CLP	-44.54

PLANETOCENTRIC CONIC

C3 12.152 VHL 3.486 DLA -29.99 RAL 146.22 RAD 6567.5 VEL 11.556 PTH 2.02 VHP 3.839 DPA 19.29 RAP 185.36 ECC 1.2000

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.69	9 26 2	1050.21	23.44	337.36	7.51	109.26	9 43 32	450.2	25.85	329.38
100.31	12 13 36	5797.92	23.45	275.52	7.51	109.25	13 50 14	5197.9	25.86	267.54
79.69	9 26 2	1050.21	23.44	337.36	7.51	109.26	9 43 32	450.2	25.85	329.38
100.31	12 13 36	5797.92	23.45	275.52	7.51	109.25	13 50 14	5197.9	25.86	267.54
110.00	11 12 28	703.18	14.03	307.42	2.81	121.49	11 24 11	103.2	18.10	300.67
110.00	15 26 20	5192.95	33.58	232.40	10.18	96.78	16 52 53	4593.0	34.16	223.20

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY					
TOE	.6931	TRA	-.4703	TC3	.8610	BAU	.2029	SGT	1566.6	SGR	868.9	SG3	862.0	ST	1170.3
RDE	.3369	RRA	-.1183	RC3	.9049	FAU	.11722	RRT	.8887	RRF	-.9789	RTF	-.9182	CRT	.9938
FDE	-4.7409	FRA	1.1689	FC3	-8.3506	BSP	5762	SGB	1791.5	R23	-.2573	R13	-.9503	LSA	2896.1
BDE	.7706	BRA	.4849	BC3	1.2491	FSP	-2679	SG1	1755.9	SG2	355.5	THA	27.46	EL1	1295.4

SR	558.1	SS	2594.3		
CRS	.9993	CST	.9894		
MSA	155.3	SSA	7.3		
EL2	56.0	ALF	25.41		

LAUNCH DATE MAY 27 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 12 1967

HELIOCENTRIC CONIC DISTANCE 367.955

RL	151.57	LAL	.00	LOL	245.04	VL	26.895	GAL	1.21	AZL	95.10	HCA	159.40	SMA	129.11	ECC	.17518	INC	5.1037	V1	29.396
RP	108.16	LAP	-1.79	LOP	44.52	VP	37.763	GAP	-3.84	AZP	85.22	TAL	174.28	TAP	333.68	RCA	106.49	APO	151.73	V2	35.036
RC	71.485	GL	-42.33	GP	19.70	ZAL	85.69	ZAP	51.71	ETS	342.99	ZAE	147.43	ETE	49.63	ZAC	85.04	ETC	12.76	CLP	-48.84

PLANETOCENTRIC CONIC

C3 12.616 VHL 3.552 DLA -31.43 RAL 144.94 RAD 6567.5 VEL 11.576 PTH 2.02 VHP 3.700 DPA 22.69 RAP 185.89 ECC 1.2076

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.76	8 52 19	1148.74	24.33	345.10	7.21	110.54	9 11 28	548.7	26.90	337.11
104.24	12 37 5	5715.32	24.34	269.68	7.21	110.53	14 12 20	5115.3	26.91	261.69
75.76	8 52 19	1148.74	24.33	345.10	7.21	110.54	9 11 28	548.7	26.90	337.11
104.24	12 37 5	5715.32	24.34	269.68	7.21	110.53	14 12 20	5115.3	26.91	261.69
110.00	11 31 7	632.99	16.49	303.47	3.23	120.37	11 41 40	33.0	20.40	296.53
110.00	14 57 27	5279.06	32.70	238.96	9.86	100.57	16 25 26	4679.1	33.81	229.90

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY					
TOE	.6535	TRA	-.4338	TC3	.7109	BAU	.2121	SGT	1428.0	SGR	1093.2	SG3	926.6	ST	1082.6
RDE	.4774	RRA	-.1284	RC3	1.0375	FAU	.12446	RRT	.8860	RRF	-.9892	RTF	-.9049	CRT	.9908
FDE	-5.3214	FRA	1.1258	FC3	-8.5408	BSP	5757	SGB	1798.4	R23	-.2423	R13	-.9611	LSA	3053.0
BDE	.8093	BRA	.4524	BC3	1.2577	FSP	-2906	SG1	1750.2	SG2	413.6	THA	36.52	EL1	1328.0

SR	773.8	SS	2752.1		
CRS	.9998	CST	.9880		
MSA	155.9	SSA	6.2		
EL2	85.4	ALF	35.47		

LAUNCH DATE MAY 27 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 14 1967

HELIOCENTRIC CONIC DISTANCE 374.453

RL	151.57	LAL	.00	LOL	245.04	VL	26.921	GAL	1.17	AZL	95.46	HCA	162.61	SMA	129.29	ECC	.17351	INC	5.4586	V1	29.396
RP	108.12	LAP	-1.63	LOP	47.72	VP	37.794	GAP	-3.34	AZP	84.79	TAL	174.40	TAP	337.01	RCA	106.85	APO	151.72	V2	35.049
RC	73.590	GL	-44.42	GP	23.99	ZAL	86.10	ZAP	57.01	ETS	342.69	ZAE	145.69	ETE	57.30	ZAC	85.27	ETC	12.96	CLP	-53.42

PLANETOCENTRIC CONIC

C3 13.384 VHL 3.658 DLA -33.18 RAL 143.56 RAD 6567.5 VEL 11.609 PTH 2.03 VHP 3.616 DPA 27.09 RAP 186.74 ECC 1.2203

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
71.94	8 21 28	1240.33	25.29	352.51	7.27	112.23	8 42 9	640.3	28.08	344.53
108.06	12 56 53	5649.18	25.30	265.05	7.27	112.21	14 31 2	5049.2	28.09	257.07
71.94	8 21 28	1240.33	25.29	352.51	7.27	112.23	8 42 9	640.3	28.08	344.53
108.06	12 56 53	5649.18	25.30	265.05	7.27	112.21	14 31 2	5049.2	28.09	257.07
110.00	12 6 9	5805.05	20.35	274.60	4.75	118.08	13 42 54	5205.0	23.94	267.29
110.00	14 11 24	5420.50	30.45	249.36	9.31	106.34	15 41 44	4820.5	32.39	240.68

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY					
TOE	.5987	TRA	-.4031	TC3	.5232	BAU	.2305	SGT	1262.8	SGR	1388.2	SG3	969.1	ST	964.7
RDE	.6743	RRA	-.1409	RC3	1.1774	FAU	.12792	RRT	.8665	RRF	-.9947	RTF	-.8799	CRT	.9868
FDE	-5.8964	FRA	1.0533	FC3	-8.2745	BSP	5915	SGB	1876.6	R23	-.1957	R13	-.9759	LSA	3222.9
BDE	.9018	BRA	.4270	BC3	1.2884	FSP	-3046	SG1	1813.5	SG2	482.5	THA	48.12	EL1	1428.1

SR	1059.3	SS	2891.3		
CRS	.9999	CST	.9851		
MSA	157.9	SSA	5.2		
EL2	115.7	ALF	47.71		

LAUNCH DATE MAY 27 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 16 1967

HELIOCENTRIC CONIC DISTANCE 380.929
RL 151.57 LAL .00 LOL 245.04 VL 26.942 GAL 1.15 AZL 95.97 HCA 165.82 SMA 129.43 ECC .17214 INC 5.9690 V1 29.396
RP 108.08 LAP -1.46 LOP 50.93 VP 37.821 GAP -2.86 AZP 84.21 TAL 174.48 TAP 340.29 RCA 107.15 APO 151.71 V2 35.062
RC 75.721 GL -46.98 GP 29.75 ZAL 86.46 ZAP 62.81 ETS 342.48 ZAE 142.14 ETE 65.55 ZAC 85.32 ETC 13.28 CLP -58.24
PLANETOCENTRIC CONIC
C3 14.680 VHL 3.831 DLA -35.38 RAL 141.95 RAD 6567.6 VEL 11.665 PTH 2.05 VHP 3.617 DPA 32.87 RAP 188.36 ECC 1.2416

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
67.85	7 50 35	1335.12	26.30	.40	7.81	114.56	8 12 50	735.1	29.38	352.47
112.15	13 14 56	5595.04	26.31	261.30	7.82	114.55	14 48 11	4995.0	29.39	253.37
67.85	7 50 35	1335.12	26.30	.40	7.81	114.56	8 12 50	735.1	29.38	352.47
112.15	13 14 56	5595.04	26.31	261.30	7.82	114.55	14 48 11	4995.0	29.39	253.37
67.85	7 50 35	1335.12	26.30	.40	7.81	114.56	8 12 50	735.1	29.38	352.47
112.15	13 14 56	5595.04	26.31	261.30	7.82	114.55	14 48 11	4995.0	29.39	253.37

DIFFERENTIAL CORRECTIONS
TOE .5324 TRA -.3745 TC3 .3243 BAU .2654
RDE .9675 RRA -.1487 RC3 1.3131 FAU .12590
FDE-6.4100 FRA .8934 FC3-7.4251 BSP 6555
BDE 1.1044 BRA .4029 BC3 1.3525 FSP -3085

MID-COURSE EXECUTION ACCURACY
SGT 1080.5 SGR 1783.3 SG3 973.5
RRT .8248 RRF -.9974 RTF -.8355
SGB 2085.1 R23 -.1235 R13 -.9900
SG1 2013.7 SG2 541.0 THA 61.17

ORBIT DETERMINATION ACCURACY
ST 822.5 SR 1449.5 SS 3000.2
CRT .9806 CRS 1.0000 CST .9796
LSA 3428.3 MSA 159.9 SSA 4.3
EL1 1660.6 EL2 140.6 ALF 60.68

LAUNCH DATE MAY 27 1967 FLIGHT TIME 144.00 ARRIVAL DATE OCT 18 1967

HELIOCENTRIC CONIC DISTANCE 387.385
RL 151.57 LAL .00 LOL 245.04 VL 26.960 GAL 1.13 AZL 96.77 HCA 169.02 SMA 129.55 ECC .17104 INC 6.7702 V1 29.396
RP 108.04 LAP -1.29 LOP 54.14 VP 37.846 GAP -2.39 AZP 83.35 TAL 174.50 TAP 343.52 RCA 107.39 APO 151.71 V2 35.075
RC 77.874 GL -50.31 GP 37.74 ZAL 86.80 ZAP 69.16 ETS 342.51 ZAE 135.84 ETE 73.47 ZAC 84.86 ETC 13.68 CLP -63.26
PLANETOCENTRIC CONIC
C3 17.055 VHL 4.130 DLA -38.26 RAL 139.87 RAD 6567.7 VEL 11.766 PTH 2.08 VHP 3.778 DPA 40.54 RAP 191.72 ECC 1.2807

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.11	7 17 19	1442.84	27.22	9.62	9.14	117.99	7 41 22	842.8	30.74	1.81
116.89	13 31 39	5555.30	27.24	258.60	9.15	117.98	15 4 14	4955.3	30.75	250.80
63.11	7 17 19	1442.84	27.22	9.62	9.14	117.99	7 41 22	842.8	30.74	1.81
116.89	13 31 39	5555.30	27.24	258.60	9.15	117.98	15 4 14	4955.3	30.75	250.80
63.11	7 17 19	1442.84	27.22	9.62	9.14	117.99	7 41 22	842.8	30.74	1.81
116.89	13 31 39	5555.30	27.24	258.60	9.15	117.98	15 4 14	4955.3	30.75	250.80

DIFFERENTIAL CORRECTIONS
TOE .4567 TRA -.3536 TC3 .1341 BAU .3176
RDE 1.4297 RRA -.1427 RC3 1.3867 FAU .11321
FDE-6.6748 FRA .6335 FC3-5.7466 BSP 7803
BDE 1.5009 BRA .3813 BC3 1.3931 FSP -2878

MID-COURSE EXECUTION ACCURACY
SGT 896.8 SGR 2304.3 SG3 904.3
RRT .7459 RRF -.9988 RTF -.7558
SGB 2472.7 R23 -.0571 R13 -.9973
SG1 2405.6 SG2 572.2 THA 72.81

ORBIT DETERMINATION ACCURACY
ST 660.8 SR 1985.3 SS 3025.2
CRT .9690 CRS 1.0000 CST .9685
LSA 3674.8 MSA 161.6 SSA 3.4
EL1 2086.6 EL2 155.4 ALF 72.02

LAUNCH DATE MAY 27 1967 FLIGHT TIME 146.00 ARRIVAL DATE OCT 20 1967

HELIOCENTRIC CONIC DISTANCE 393.817
RL 151.57 LAL .00 LOL 245.04 VL 26.974 GAL 1.13 AZL 98.22 HCA 172.23 SMA 129.65 ECC .17020 INC 8.2239 V1 29.396
RP 108.00 LAP -1.11 LOP 57.35 VP 37.868 GAP -1.92 AZP 81.85 TAL 174.47 TAP 346.70 RCA 107.58 APO 151.71 V2 35.088
RC 80.046 GL -54.88 GP 49.16 ZAL 87.20 ZAP 75.99 ETS 342.97 ZAE 125.53 ETE 80.07 ZAC 83.35 ETC 13.84 CLP -68.28
PLANETOCENTRIC CONIC
C3 22.244 VHL 4.716 DLA -42.21 RAL 136.84 RAD 6567.9 VEL 11.984 PTH 2.14 VHP 4.310 DPA 50.67 RAP 199.51 ECC 1.3661

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.28	6 38 39	1580.45	27.46	21.46	11.87	123.41	7 5 0	980.4	31.65	14.04
122.72	13 46 6	5543.45	27.48	257.76	11.88	123.40	15 18 30	4943.5	31.66	250.33
57.28	6 38 39	1580.45	27.46	21.46	11.87	123.41	7 5 0	980.4	31.65	14.04
122.72	13 46 6	5543.45	27.48	257.76	11.88	123.40	15 18 30	4943.5	31.66	250.33
57.28	6 38 39	1580.45	27.46	21.46	11.87	123.41	7 5 0	980.4	31.65	14.04
122.72	13 46 6	5543.45	27.48	257.76	11.88	123.40	15 18 30	4943.5	31.66	250.33

DIFFERENTIAL CORRECTIONS
TOE .3859 TRA -.3556 TC3 -.0152 BAU .3771
RDE 2.2264 RRA -.0936 RC3 1.2679 FAU .08366
FDE-6.3233 FRA .2732 FC3-3.2561 BSP 9620
BDE 2.2596 BRA .3677 BC3 1.2680 FSP -2260

MID-COURSE EXECUTION ACCURACY
SGT 748.4 SGR 2961.3 SG3 715.8
RRT .6048 RRF -.9994 RTF -.6158
SGB 3054.4 R23 -.0169 R13 -.9993
SG1 2997.1 SG2 588.9 THA 80.96

ORBIT DETERMINATION ACCURACY
ST 500.4 SR 2705.3 SS 2861.0
CRT .9426 CRS 1.0000 CST .9428
LSA 3965.7 MSA 165.8 SSA 2.5
EL1 2746.3 EL2 164.6 ALF 80.07

LAUNCH DATE MAY 27 1967 FLIGHT TIME 148.00 ARRIVAL DATE OCT 22 1967

HELIOCENTRIC CONIC DISTANCE 400.221
RL 151.57 LAL .00 LOL 245.04 VL 26.984 GAL 1.15 AZL 101.70 HCA 175.43 SMA 129.72 ECC .16961 INC11.7020 V1 29.396
RP 107.96 LAP -.93 LOP 60.56 VP 37.887 GAP -1.48 AZP 78.33 TAL 174.36 TAP 349.79 RCA 107.72 APO 151.72 V2 35.101
RC 82.236 GL -61.38 GP 65.82 ZAL 87.81 ZAP 82.88 ETS 343.56 ZAE 109.47 ETE 84.02 ZAC 79.98 ETC 12.16 CLP -72.39
PLANETOCENTRIC CONIC
C3 38.861 VHL 6.234 DLA -47.65 RAL 131.80 RAD 6568.5 VEL 12.658 PTH 2.30 VHP 6.066 DPA 62.39 RAP 221.41 ECC 1.6395

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
49.93	5 50 34	1792.64	24.32	38.21	17.45	132.32	6 20 27	1192.6	29.56	31.83
130.07	13 53 59	5609.53	24.34	261.09	17.46	132.32	15 27 28	5009.5	29.57	254.71
49.93	5 50 34	1792.64	24.32	38.21	17.45	132.32	6 20 27	1192.6	29.56	31.83
130.07	13 53 59	5609.53	24.34	261.09	17.46	132.32	15 27 28	5009.5	29.57	254.71
49.93	5 50 34	1792.64	24.32	38.21	17.45	132.32	6 20 27	1192.6	29.56	31.83
130.07	13 53 59	5609.53	24.34	261.09	17.46	132.32	15 27 28	5009.5	29.57	254.71

DIFFERENTIAL CORRECTIONS
TOE .4801 TRA -.4377 TC3 -.0701 BAU .3716
RDE 3.8465 RRA .0833 RC3 .7118 FAU .03550
FDE-4.8303 FRA -.0632 FC3 -.7910 BSP 10953
BDE 3.8763 BRA .4456 BC3 .7153 FSP -1144

MID-COURSE EXECUTION ACCURACY
SGT 747.6 SGR 3646.8 SG3 393.0
RRT .5189 RRF -.9996 RTF -.5356
SGB 3722.7 R23 .0009 R13 -.9997
SG1 3668.0 SG2 635.4 THA 83.74

ORBIT DETERMINATION ACCURACY
ST 476.3 SR 3535.6 SS 2326.7
CRT .9228 CRS 1.0000 CST .9243
LSA 4255.3 MSA 182.2 SSA 1.5
EL1 3562.9 EL2 182.1 ALF 82.90

```
LAUNCH DATE  MAY 27 1967                          FLIGHT TIME 150.00                          ARRIVAL DATE  OCT 24 1967

  HELIOCENTRIC CONIC                              DISTANCE 406.496
   RL  151.57 LAL     .00 LOL 245.04 VL  26.991 GAL   1.19 AZL 120.44 HCA 178.54 SMA 129.76 ECC .16928 INC30.4425 VI  29.396
   RP  107.92 LAP    -.74 LOP  63.78 VP  37.903 GAP  -1.06 AZP  59.56 TAL 174.12 TAP 352.66 RCA 107.80 APO 151.73 V2  35.113
   RC  84.440 GL   -65.83 GP   85.15 ZAL  89.00 ZAP  88.40 ETS 186.09 ZAE  81.47 ETE 287.10 ZAC  72.63 ETC 206.75 CLP  70.74
  PLANETOCENTRIC CONIC
   C3 224.593 VHL 14.986 DLA -50.77 RAL 126.72 RAD 6571.3 VEL 18.599 PTH   3.05 VHP 17.339 DPA  61.54 RAP 284.14 ECC 4.6962
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      45.92     5 17  3   2196.07       6.64      58.73      31.26      140.46    5 53 39    1596.1       12.77      53.94
     134.08    13 47  1    661.01       6.66     297.32      31.27      140.46   13 58  3      61.0       12.79     292.53
      45.92     5 17  3   2196.07       6.64      58.73      31.26      140.46    5 53 39    1596.1       12.77      53.94
     134.08    13 47  1    661.01       6.66     297.32      31.27      140.46   13 58  3      61.0       12.79     292.53
      45.92     5 17  3   2196.07       6.64      58.73      31.26      140.46    5 53 39    1596.1       12.77      53.94
     134.08    13 47  1    661.01       6.66     297.32      31.27      140.46   13 58  3      61.0       12.79     292.53
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY             ORBIT DETERMINATION ACCURACY
   TDE 6.5622 TRA 1.2830 TC3 -.0681 BAU  .4931    SGT 2633.9 SGR 3291.2 SG3  101.6          ST  2519.6 SR  3250.8 SS  1741.1
   RDE-8.5002 RRA -.4390 RC3  .1495 FAU-.01194    RRT -.9748 RRF  .9996 RTF -.9798          CRT -.9977 CRS-1.0000 CST  .9981
   FDE-3.0384 FRA -.1956 FC3  .0460 BSP  11559    SGB 4215.4 R23 -.0634 R13  .9979          LSA 4464.1 MSA  139.0 SSA     .9
   BDE10.7385 BRA 1.3560 BC3  .1642 FSP   -273    SG1 4190.1 SG2  461.4 THA 128.51          EL1 4110.7 EL2  135.4 ALF 127.76

LAUNCH DATE  MAY 27 1967                          FLIGHT TIME 152.00                          ARRIVAL DATE  OCT 26 1967

  HELIOCENTRIC CONIC                              DISTANCE 413.190
   RL  151.57 LAL     .00 LOL 245.04 VL  26.994 GAL   1.17 AZL  74.17 HCA 182.03 SMA 129.79 ECC .16901 INC15.8259 VI  29.396
   RP  107.89 LAP    -.55 LOP  66.99 VP  37.917 GAP  -.54 AZP 105.82 TAL 174.21 TAP 356.24 RCA 107.85 APO 151.72 V2  35.125
   RC  86.655 GL    64.97 GP  -86.76 ZAL  88.23 ZAP  89.33 ETS  10.62 ZAE  97.32 ETE 271.49 ZAC 104.57 ETC 353.05 CLP -78.08
  PLANETOCENTRIC CONIC
   C3  66.035 VHL  8.126 DLA  63.00 RAL 209.40 RAD 6569.3 VEL 13.689 PTH   2.50 VHP 12.472 DPA -64.35 RAP 105.10 ECC 2.0868
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      31.04    22  4 28   4681.99     -22.07     232.04     107.49       29.33   23 22 30    4082.0     -28.98     227.99
     148.96     7 59 12   2983.11     -22.06      91.01     107.47       29.33    8 48 55    2383.1     -28.97      86.96
      31.04    22  4 28   4681.99     -22.07     232.04     107.49       29.33   23 22 30    4082.0     -28.98     227.99
     148.96     7 59 12   2983.11     -22.06      91.01     107.47       29.33    8 48 55    2383.1     -28.97      86.96
      31.04    22  4 28   4681.99     -22.07     232.04     107.49       29.33   23 22 30    4082.0     -28.98     227.99
     148.96     7 59 12   2983.11     -22.06      91.01     107.47       29.33    8 48 55    2383.1     -28.97      86.96
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY             ORBIT DETERMINATION ACCURACY
   TDE  .9575 TRA  .6366 TC3 -.0531 BAU  .2159    SGT 1200.3 SGR 4500.4 SG3  144.0          ST   737.4 SR  1435.9 SS   561.9
   RDE  .7471 RRA 2.8670 RC3 -.2388 FAU .00724    RRT  .8870 RRF  .9998 RTF  .8776          CRT  .7100 CRS -.9982 CST -.6668
   FDE  .2298 FRA 1.0637 FC3 -.0949 BSP   9553    SGB 4657.7 R23  .0479 R13  .9988          LSA 1636.2 MSA  494.1 SSA     .4
   BDE 1.2145 BRA 2.9368 BC3  .2446 FSP   -310    SG1 4626.4 SG2  539.2 THA  76.50          EL1 1539.9 EL2  484.2 ALF  67.64

LAUNCH DATE  MAY 27 1967                          FLIGHT TIME 154.00                          ARRIVAL DATE  OCT 28 1967

  HELIOCENTRIC CONIC                              DISTANCE 419.476
   RL  151.57 LAL     .00 LOL 245.04 VL  26.995 GAL   1.24 AZL  85.96 HCA 185.19 SMA 129.80 ECC .16908 INC 4.0420 VI  29.396
   RP  107.85 LAP    -.37 LOP  70.21 VP  37.929 GAP  -.13 AZP  94.03 TAL 173.90 TAP 359.08 RCA 107.85 APO 151.74 V2  35.137
   RC  88.880 GL    37.41 GP  -63.10 ZAL  84.85 ZAP  91.25 ETS 358.58 ZAE 120.24 ETE 258.92 ZAC 110.76 ETC 351.48 CLP -92.77
  PLANETOCENTRIC CONIC
   C3   9.811 VHL  3.132 DLA  41.11 RAL 180.82 RAD 6567.4 VEL 11.454 PTH   1.99 VHP  5.479 DPA -45.93 RAP 132.33 ECC 1.1615
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      58.86    21 39  1   4023.76     -32.91     176.62      42.95       63.84   22 46  5    3423.8     -36.13     168.14
     121.14     4 36 37   2736.69     -32.90      78.30      42.94       63.83    5 22 13    2136.7     -36.12      69.82
      58.86    21 39  1   4023.76     -32.91     176.62      42.95       63.84   22 46  5    3423.8     -36.13     168.14
     121.14     4 36 37   2736.69     -32.90      78.30      42.94       63.83    5 22 13    2136.7     -36.12      69.82
      58.86    21 39  1   4023.76     -32.91     176.62      42.95       63.84   22 46  5    3423.8     -36.13     168.14
     121.14     4 36 37   2736.69     -32.90      78.30      42.94       63.83    5 22 13    2136.7     -36.12      69.82
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY             ORBIT DETERMINATION ACCURACY
   TDE  .4196 TRA  .3218 TC3-1.6734 BAU  .5416    SGT 1516.0 SGR 3790.6 SG3  470.1          ST   803.2 SR  1202.8 SS   790.7
   RDE  .4627 RRA 1.1695 RC3-3.7746 FAU .06256    RRT  .9303 RRF  .9998 RTF  .9288          CRT  .8814 CRS -.9997 CST -.8690
   FDE  .6258 FRA 1.6645 FC3-5.5206 BSP  12480    SGB 4082.5 R23  .0525 R13  .9985          LSA 1612.1 MSA  344.1 SSA    1.6
   BDE  .6246 BRA 1.2130 BC3 4.1290 FSP  -1486    SG1 4049.2 SG2  520.4 THA  69.23          EL1 1409.6 EL2  323.8 ALF  57.60

LAUNCH DATE  MAY 27 1967                          FLIGHT TIME 156.00                          ARRIVAL DATE  OCT 30 1967

  HELIOCENTRIC CONIC                              DISTANCE 425.803
   RL  151.57 LAL     .00 LOL 245.04 VL  26.994 GAL   1.30 AZL  88.80 HCA 188.40 SMA 129.78 ECC .16934 INC 1.1937 VI  29.396
   RP  107.82 LAP    -.17 LOP  73.43 VP  37.938 GAP    .29 AZP  91.18 TAL 173.58 TAP   1.98 RCA 107.81 APO 151.76 V2  35.149
   RC  91.113 GL    13.04 GP  -48.28 ZAL  82.83 ZAP  95.53 ETS 354.70 ZAE 133.59 ETE 250.59 ZAC 114.03 ETC 355.44 CLP -98.33
  PLANETOCENTRIC CONIC
   C3   6.239 VHL  2.498 DLA  18.92 RAL 169.00 RAD 6567.2 VEL 11.297 PTH   1.94 VHP  4.053 DPA -32.19 RAP 139.70 ECC 1.1027
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     3 44  6   2608.62     -26.77      68.02      18.96       99.58    4 27 34    2008.6     -25.18      59.71
      90.00    20 57 17   3985.84      -6.82     159.98      15.68       62.45   22  3 43    3385.8     -10.46     153.19
     100.00     5 17  1   2309.00     -27.77      45.77      18.75      101.53    5 55 30    1709.0     -25.90      37.47
     100.00    22  7  3   3760.69      -5.93     142.94      15.20       60.65   23  9 44    3160.7      -9.80     136.29
     110.00     6 50 21   2016.95     -30.29      22.86      18.03      106.65    7 23 58    1417.0     -27.71      14.62
     110.00    22 50 12   3625.50      -3.72     131.32      13.82       56.00   23 50 37    3025.5      -8.15     125.05
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY             ORBIT DETERMINATION ACCURACY
   TDE  .1065 TRA  .2753 TC3-3.3962 BAU  .5079    SGT 1839.6 SGR 3146.7 SG3  810.4          ST   320.1 SR   569.8 SS   594.9
   RDE -.0178 RRA  .7743 RC3-5.0541 FAU .10951    RRT  .9549 RRF  .9997 RTF  .9545          CRT  .5850 CRS -.9920 CST -.4785
   FDE -.1460 FRA 2.2679 FC-15.1951 BSP  11108    SGB 3645.0 R23  .0752 R13  .9968          LSA  841.5 MSA  270.1 SSA    5.8
   BDE  .1080 BRA  .8218 BC3 6.0892 FSP  -2562    SG1 3613.8 SG2  475.8 THA  60.26          EL1  606.3 EL2  244.0 ALF  68.08
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 1 1967

HELIOCENTRIC CONIC DISTANCE 432.122

RL 151.57 LAL .00 LOL 245.04 VL 26.989 GAL 1.38 AZL 90.08 HCA 191.62 SMA 129.75 ECC .16977 INC .0678 V1 29.396
RP 107.78 LAP .02 LOP 76.66 VP 37.945 GAP .70 AZP 89.92 TAL 173.23 TAP 4.85 RCA 107.73 APO 151.78 V2 35.160
RC 93.352 GL -.90 GP -38.10 ZAL 81.80 ZAP 100.68 ETS 352.45 ZAE 141.36 ETE 240.43 ZAC 116.22 ETC 358.78 CLP-103.62

PLANETOCENTRIC CONIC

C3 5.943 VHL 2.438 DLA 5.76 RAL 164.21 RAD 6567.2 VEL 11.284 PTH 1.94 VHP 3.556 DPA -22.23 RAP 142.63 ECC 1.0978

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 19 29	2146.57	-17.86	37.22	10.14	112.34	5 55 15	1546.6	-14.68	29.99
90.00	18 43 38	4431.62	7.44	184.97	9.03	62.60	19 57 29	3831.6	3.71	178.28
100.00	6 43 33	1875.41	-18.56	16.97	9.83	113.86	7 14 48	1275.4	-15.18	9.81
100.00	20 2 14	4178.01	8.11	165.97	8.67	61.13	21 11 52	3578.0	4.20	159.36
110.00	7 58 2	1642.28	-20.41	358.31	8.88	118.04	8 25 25	1042.3	-16.50	351.37
110.00	21 4 14	3983.90	9.88	150.17	7.60	57.11	22 10 38	3383.9	5.47	143.84

DIFFERENTIAL CORRECTIONS
TDE -.1220 TRA .2843 TC3-4.2867 BAU .4863
RDE -.2207 RRA .5716 RC3-4.3693 FAU .14005
FDE-1.2025 FRA 2.5914 FC-20.4019 BSP 10369
BDE .2521 BRA .6384 BC3 6.1210 FSP -3319

MID-COURSE EXECUTION ACCURACY
SGT 2213.9 SGR 2574.9 SG3 1038.3
RRT .9662 RRF .9993 RTF .9664
SGB 3395.8 R23 .1066 R13 .9936
SG1 3367.6 SG2 436.6 THA 49.46

ORBIT DETERMINATION ACCURACY
ST 356.0 SR 661.2 SS 1039.6
CRT .9955 CRS -.9962 CST -.9954
LSA 1281.2 MSA 49.2 SSA 28.5
EL1 750.3 EL2 29.6 ALF 61.76

LAUNCH DATE MAY 27 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 3 1967

HELIOCENTRIC CONIC DISTANCE 438.426

RL 151.57 LAL .00 LOL 245.04 VL 26.983 GAL 1.47 AZL 90.81 HCA 194.84 SMA 129.71 ECC .17039 INC .8082 V1 29.396
RP 107.75 LAP .21 LOP 79.88 VP 37.951 GAP 1.11 AZP 89.22 TAL 172.82 TAP 7.67 RCA 107.61 APO 151.81 V2 35.170
RC 95.596 GL -8.83 GP -30.86 ZAL 80.99 ZAP 105.94 ETS 351.17 ZAE 145.23 ETE 229.53 ZAC 117.82 ETC 1.48 CLP-108.66

PLANETOCENTRIC CONIC

C3 6.166 VHL 2.483 DLA -1.92 RAL 162.02 RAD 6567.2 VEL 11.294 PTH 1.94 VHP 3.362 DPA -14.94 RAP 143.88 ECC 1.1015

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 8 2	1913.75	-11.32	23.26	7.39	116.13	6 39 55	1313.8	-7.71	16.44
90.00	17 37 36	4676.75	14.78	199.24	7.77	65.57	18 55 33	4076.8	11.36	192.23
100.00	7 28 29	1654.24	-11.99	3.83	7.04	117.59	7 56 3	1054.2	-8.20	357.09
100.00	18 59 51	4411.50	15.46	179.40	7.44	64.10	20 13 22	3811.5	11.85	172.47
110.00	8 34 40	1447.03	-13.77	347.07	6.00	121.60	8 58 47	847.0	-9.49	340.58
110.00	20 10 8	4191.48	17.27	161.70	6.44	60.03	21 20 0	3591.5	13.16	155.00

DIFFERENTIAL CORRECTIONS
TDE -.3103 TRA .3189 TC3-4.7665 BAU .4850
RDE -.2798 RRA .4519 RC3-3.4474 FAU .15461
FDE-2.0564 FRA 2.7487 FC-21.7062 BSP 10113
BDE .4178 BRA .5531 BC3 5.8825 FSP -3702

MID-COURSE EXECUTION ACCURACY
SGT 2580.4 SGR 2106.4 SG3 1155.9
RRT .9721 RRF .9986 RTF .9729
SGB 3331.0 R23 .1325 R13 .9898
SG1 3308.6 SG2 385.6 THA 39.06

ORBIT DETERMINATION ACCURACY
ST 752.6 SR 719.3 SS 1488.1
CRT .9883 CRS -.9975 CST -.9961
LSA 1814.2 MSA 80.4 SSA 16.0
EL1 1037.9 EL2 79.7 ALF 43.69

LAUNCH DATE MAY 27 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 5 1967

HELIOCENTRIC CONIC DISTANCE 444.712

RL 151.57 LAL .00 LOL 245.04 VL 26.974 GAL 1.57 AZL 91.28 HCA 198.07 SMA 129.65 ECC .17118 INC 1.2826 V1 29.396
RP 107.72 LAP .40 LOP 83.11 VP 37.954 GAP 1.52 AZP 88.78 TAL 172.37 TAP 10.45 RCA 107.46 APO 151.84 V2 35.180
RC 97.843 GL -13.71 GP -25.55 ZAL 80.15 ZAP 111.02 ETS 350.47 ZAE 146.51 ETE 219.40 ZAC 119.03 ETC 3.70 CLP-113.42

PLANETOCENTRIC CONIC

C3 6.493 VHL 2.548 DLA -6.81 RAL 161.06 RAD 6567.2 VEL 11.309 PTH 1.94 VHP 3.302 DPA -9.48 RAP 144.43 ECC 1.1069

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 41 4	1769.42	-6.87	14.99	6.79	117.54	7 10 33	1169.4	-3.13	8.31
90.00	16 56 58	4838.56	19.08	209.17	8.19	68.67	18 17 37	4238.6	16.01	201.84
100.00	7 59 9	1517.49	-7.57	356.09	6.41	119.00	8 24 27	917.5	-3.64	349.50
100.00	18 21 34	4565.73	19.81	188.79	7.88	67.14	19 37 40	3965.7	16.54	181.52
110.00	8 59 58	1327.07	-9.40	340.52	5.30	123.02	9 22 5	727.1	-4.99	334.21
110.00	19 37 14	4328.91	21.75	169.84	6.91	62.95	20 49 23	3728.9	17.95	162.77

DIFFERENTIAL CORRECTIONS
TDE -.4809 TRA .3641 TC3-5.1032 BAU .5019
RDE -.2821 RRA .3723 RC3-2.7183 FAU .15936
FDE-2.6655 FRA 2.7948 FC-21.2497 BSP 10382
BDE .5576 BRA .5207 BC3 5.7820 FSP -3869

MID-COURSE EXECUTION ACCURACY
SGT 2934.7 SGR 1741.3 SG3 1201.1
RRT .9752 RRF .9972 RTF .9771
SGB 3412.4 R23 .1440 R13 .9870
SG1 3396.2 SG2 332.8 THA 30.38

ORBIT DETERMINATION ACCURACY
ST 1112.1 SR 684.3 SS 1796.2
CRT .9881 CRS -.9973 CST -.9965
LSA 2218.3 MSA 99.7 SSA 13.1
EL1 1302.6 EL2 89.9 ALF 31.47

LAUNCH DATE MAY 27 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 7 1967

HELIOCENTRIC CONIC DISTANCE 450.979

RL 151.57 LAL .00 LOL 245.04 VL 26.964 GAL 1.68 AZL 91.62 HCA 201.31 SMA 129.58 ECC .17214 INC 1.6167 V1 29.396
RP 107.69 LAP .59 LOP 86.34 VP 37.955 GAP 1.92 AZP 88.49 TAL 171.87 TAP 13.18 RCA 107.27 APO 151.88 V2 35.190
RC 100.092 GL -16.91 GP -21.53 ZAL 79.22 ZAP 115.80 ETS 350.11 ZAE 146.20 ETE 210.98 ZAC 119.91 ETC 5.57 CLP-117.89

PLANETOCENTRIC CONIC

C3 6.834 VHL 2.614 DLA -10.18 RAL 160.81 RAD 6567.2 VEL 11.324 PTH 1.95 VHP 3.314 DPA -5.31 RAP 144.68 ECC 1.1125

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 6 42	1669.36	-3.69	9.36	7.17	118.10	7 34 31	1069.4	.09	2.72
90.00	16 29 21	4956.36	21.81	216.72	9.31	71.48	17 51 57	4356.4	19.08	209.11
100.00	8 22 59	1423.22	-4.42	350.86	6.76	119.59	8 46 43	823.2	-.45	344.32
100.00	17 55 44	4677.74	22.61	195.93	9.01	69.90	19 13 42	4077.7	19.66	188.37
110.00	9 19 47	1245.40	-6.34	336.18	5.57	123.66	9 40 32	645.4	-1.88	329.94
110.00	19 15 26	4428.32	24.69	176.06	8.08	65.57	20 29 15	3828.3	21.18	168.67

DIFFERENTIAL CORRECTIONS
TDE -.6371 TRA .4195 TC3-5.3473 BAU .5270
RDE -.2587 RRA .3186 RC3-2.1634 FAU .15690
FDE-3.0409 FRA 2.7980 FC-19.8750 BSP 10856
BDE .6876 BRA .5268 BC3 5.7683 FSP -3841

MID-COURSE EXECUTION ACCURACY
SGT 3261.7 SGR 1450.6 SG3 1194.8
RRT .9758 RRF .9947 RTF .9795
SGB 3569.8 R23 .1429 R13 .9852
SG1 3557.9 SG2 291.0 THA 23.63

ORBIT DETERMINATION ACCURACY
ST 1426.6 SR 606.6 SS 1983.8
CRT .9871 CRS -.9963 CST -.9971
LSA 2515.3 MSA 109.4 SSA 12.7
EL1 1547.6 EL2 89.5 ALF 22.85

LAUNCH DATE MAY 27 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 9 1967

HELIOCENTRIC CONIC DISTANCE 457.228
RL 151.57 LAL .00 LOL 245.04 VL 26.951 GAL 1.81 AZL 91.87 HCA 204.54 SMA 129.49 ECC .17328 INC 1.8662 V1 29.396
RP 107.66 LAP .78 LOP 89.57 VP 37.955 GAP 2.32 AZP 88.30 TAL 171.32 TAP 15.86 RCA 107.05 APO 151.93 V2 35.199
RC 102.344 GL -19.12 GP -18.40 ZAL 78.20 ZAP 120.24 ETS 349.95 ZAE 145.04 ETE 204.45 ZAC 120.49 ETC 7.14 CLP-122.06
PLANETOCENTRIC CONIC
C3 7.175 VHL 2.679 DLA -12.67 RAL 161.02 RAD 6567.2 VEL 11.339 PTH 1.95 VHP 3.370 DPA -2.07 RAP 144.86 ECC 1.1181

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 28 14	1594.69	-1.29	5.19	8.08	118.29	7 54 48	994.7	2.50	358.56
90.00	16 9 27	5048.16	23.67	222.81	10.79	73.99	17 33 35	4448.2	21.25	214.98
100.00	8 43 2	1353.34	-2.07	347.01	7.65	119.83	9 5 35	753.3	1.92	340.49
100.00	17 37 19	4764.74	24.52	201.68	10.51	72.35	18 56 44	4164.7	21.88	193.88
110.00	9 36 33	1185.74	-4.08	333.04	6.39	123.97	9 56 18	585.7	.40	326.83
110.00	19 0 18	4505.10	26.76	181.07	9.62	67.89	20 15 23	3905.1	23.52	173.41

DIFFERENTIAL CORRECTIONS
TOE -.7848 TRA .4805 TC3-5.5407 BAU .5576
ROE -.2276 RRA .2795 RC3-1.7576 FAU .15112
FOE-3.2617 FRA 2.7624 FC-18.2344 BSP 11529
BOE .8171 BRA .5559 BC3 5.8128 FSP -3748

MID-COURSE EXECUTION ACCURACY
SGT 3569.1 SGR 1224.4 SG3 1161.7
RRT .9743 RRF .9905 RTF .9812
SGB 3773.2 R23 .1301 R13 .9845
SG1 3764.1 SG2 261.5 THA 18.57

ORBIT DETERMINATION ACCURACY
ST 1710.5 SR 521.1 SS 2100.6
CRT .9848 CRS -.9943 CST -.9976
LSA 2756.3 MSA 114.1 SSA 12.9
EL1 1786.0 EL2 86.8 ALF 16.74

LAUNCH DATE MAY 27 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 11 1967

HELIOCENTRIC CONIC DISTANCE 463.458
RL 151.57 LAL .00 LOL 245.04 VL 26.937 GAL 1.95 AZL 92.06 HCA 207.78 SMA 129.40 ECC .17458 INC 2.0611 V1 29.396
RP 107.63 LAP .96 LOP 92.80 VP 37.953 GAP 2.72 AZP 88.18 TAL 170.73 TAP 18.51 RCA 106.81 APO 151.99 V2 35.208
RC 104.596 GL -20.69 GP -15.92 ZAL 77.08 ZAP 124.35 ETS 349.92 ZAE 143.47 ETE 199.53 ZAC 120.80 ETC 8.48 CLP-125.93
PLANETOCENTRIC CONIC
C3 7.514 VHL 2.741 DLA -14.61 RAL 161.54 RAD 6567.2 VEL 11.354 PTH 1.96 VHP 3.455 DPA .48 RAP 145.07 ECC 1.1237

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 47 18	1535.97	.61	1.91	9.34	118.31	8 12 54	936.0	4.39	355.27
90.00	15 54 35	5123.46	24.99	227.93	12.50	76.23	17 19 58	4523.5	22.85	219.92
100.00	9 0 48	1298.82	-.22	344.02	8.88	119.89	9 22 27	698.8	3.76	337.49
100.00	17 23 46	4835.84	25.90	206.51	12.24	74.54	18 44 22	4235.8	23.53	198.52
110.00	9 51 31	1139.96	-2.34	330.64	7.55	124.11	10 10 31	540.0	2.15	324.44
110.00	18 49 32	4567.46	28.29	185.28	11.38	69.95	20 5 40	3967.5	25.29	177.38

DIFFERENTIAL CORRECTIONS
TOE -.9249 TRA .5465 TC3-5.6889 BAU .5899
ROE -.1938 RRA .2509 RC3-1.4535 FAU .14325
FOE-3.3612 FRA 2.7099 FC-16.5046 BSP 12257
BOE .9450 BRA .6013 BC3 5.8717 FSP -3592

MID-COURSE EXECUTION ACCURACY
SGT 3854.6 SGR 1045.3 SG3 1111.5
RRT .9699 RRF .9837 RTF .9823
SGB 3993.9 R23 .1108 R13 .9843
SG1 3986.3 SG2 246.2 THA 14.79

ORBIT DETERMINATION ACCURACY
ST 1967.6 SR 437.1 SS 2163.2
CRT .9800 CRS -.9905 CST -.9979
LSA 2954.3 MSA 117.2 SSA 13.5
EL1 2013.8 EL2 85.0 ALF 12.30

LAUNCH DATE MAY 27 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 13 1967

HELIOCENTRIC CONIC DISTANCE 469.668
RL 151.57 LAL .00 LOL 245.04 VL 26.921 GAL 2.10 AZL 92.22 HCA 211.02 SMA 129.29 ECC .17605 INC 2.2181 V1 29.396
RP 107.61 LAP 1.14 LOP 96.04 VP 37.949 GAP 3.12 AZP 88.10 TAL 170.09 TAP 21.11 RCA 106.53 APO 152.05 V2 35.216
RC 106.849 GL -21.81 GP -13.92 ZAL 75.88 ZAP 128.14 ETS 349.95 ZAE 141.75 ETE 195.85 ZAC 120.86 ETC 9.62 CLP-129.51
PLANETOCENTRIC CONIC
C3 7.858 VHL 2.803 DLA -16.16 RAL 162.32 RAD 6567.3 VEL 11.369 PTH 1.96 VHP 3.562 DPA 2.49 RAP 145.38 ECC 1.1293

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 4 48	1488.04	2.15	359.24	10.85	118.24	8 29 36	888.0	5.91	352.58
90.00	15 43 14	5187.69	25.96	232.39	14.39	78.26	17 9 42	4587.7	24.08	224.22
100.00	9 17 7	1254.70	1.28	341.60	10.37	119.87	9 38 2	654.7	5.24	335.05
100.00	17 13 36	4896.26	26.93	210.71	14.14	76.51	18 35 13	4296.3	24.81	202.55
110.00	10 5 21	1103.60	-.95	328.74	8.97	124.17	10 23 45	503.6	3.54	322.54
110.00	18 41 52	4620.13	29.46	188.93	13.33	71.82	19 58 52	4020.1	26.69	180.83

DIFFERENTIAL CORRECTIONS
TOE-1.0581 TRA .6189 TC3-5.7897 BAU .6216
ROE -.1607 RRA .2298 RC3-1.2213 FAU .13426
FOE-3.3800 FRA 2.6516 FC-14.7912 BSP 12998
BOE 1.0702 BRA .6602 BC3 5.9171 FSP -3413

MID-COURSE EXECUTION ACCURACY
SGT 4116.8 SGR 903.3 SG3 1052.3
RRT .9619 RRF .9732 RTF .9831
SGB 4214.7 R23 .0891 R13 .9842
SG1 4207.8 SG2 241.5 THA 11.96

ORBIT DETERMINATION ACCURACY
ST 2200.5 SR 360.3 SS 2190.5
CRT .9715 CRS -.9837 CST -.9982
LSA 3123.5 MSA 118.9 SSA 14.1
EL1 2228.2 EL2 84.4 ALF 9.05

LAUNCH DATE MAY 27 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 15 1967

HELIOCENTRIC CONIC DISTANCE 475.858
RL 151.57 LAL .00 LOL 245.04 VL 26.904 GAL 2.26 AZL 92.35 HCA 214.26 SMA 129.17 ECC .17768 INC 2.3482 V1 29.396
RP 107.59 LAP 1.32 LOP 99.27 VP 37.944 GAP 3.51 AZP 88.06 TAL 169.42 TAP 23.67 RCA 106.22 APO 152.12 V2 35.223
RC 109.101 GL -22.60 GP -12.28 ZAL 74.60 ZAP 131.63 ETS 360.02 ZAE 140.02 ETE 193.09 ZAC 120.69 ETC 10.57 CLP-132.84
PLANETOCENTRIC CONIC
C3 8.213 VHL 2.866 DLA -17.45 RAL 163.28 RAD 6567.3 VEL 11.384 PTH 1.97 VHP 3.686 DPA 4.07 RAP 145.82 ECC 1.1352

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 21 17	1447.87	3.45	356.99	12.57	118.12	8 45 24	847.9	7.18	350.30
90.00	15 34 29	5244.20	26.68	236.37	16.41	80.13	17 1 53	4644.2	25.04	228.08
100.00	9 32 29	1218.09	2.52	339.59	12.06	119.80	9 52 47	618.1	6.47	333.02
100.00	17 5 58	4949.21	27.72	214.45	16.19	78.33	18 28 27	4349.2	25.83	206.16
110.00	10 18 28	1074.04	.18	327.20	10.60	124.18	10 36 22	474.0	4.66	320.99
110.00	18 36 28	4666.03	30.39	192.18	15.42	73.54	19 54 14	4066.0	27.84	183.91

DIFFERENTIAL CORRECTIONS
TOE-1.1850 TRA .6973 TC3-5.8502 BAU .6524
ROE -.1290 RRA .2143 RC3-1.0420 FAU .12494
FOE-3.3397 FRA 2.5931 FC-13.1699 BSP 13715
BOE 1.1920 BRA .7295 BC3 5.9423 FSP -3217

MID-COURSE EXECUTION ACCURACY
SGT 4358.0 SGR 790.5 SG3 989.3
RRT .9492 RRF .9580 RTF .9834
SGB 4429.1 R23 .0685 R13 .9842
SG1 4422.3 SG2 245.1 THA 9.80

ORBIT DETERMINATION ACCURACY
ST 2411.4 SR 291.6 SS 2190.2
CRT .9558 CRS -.9706 CST -.9984
LSA 3268.4 MSA 120.5 SSA 14.8
EL1 2427.5 EL2 85.2 ALF 6.60

LAUNCH DATE MAY 27 1967 FLIGHT TIME 174.00 ARRIVAL DATE NOV 17 1967

DISTANCE 482.028

HELIOCENTRIC CONIC
RL 151.57 LAL .00 LOL 245.04 VL 26.885 GAL 2.44 AZL 92.46 HCA 217.50 SMA 129.05 ECC .17949 INC 2.4583 V1 29.396
RP 107.57 LAP 1.50 LOP 102.51 VP 37.937 GAP 3.90 AZP 88.05 TAL 168.70 TAP 26.20 RCA 105.88 APO 152.21 V2 35.230
RC 111.351 GL -23.16 GP -10.92 ZAL 73.25 ZAP 134.85 ETS 350.09 ZAE 138.37 ETE 191.01 ZAC 120.30 ETC 11.36 CLP-135.91

PLANETOCENTRIC CONIC
C3 8.584 VHL 2.930 DLA -18.55 RAL 164.41 RAD 6567.3 VEL 11.401 PTH 1.97 VHP 3.823 DPA 5.30 RAP 146.41 ECC 1.1413

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 37 3	1413.56	4.54	355.07	14.46	117.98	9 0 36	813.6	8.25	348.35
90.00	15 27 43	5295.13	27.22	240.00	18.56	81.88	16 55 59	4695.1	25.81	231.61
100.00	9 47 12	1187.18	3.56	337.89	13.92	119.70	10 6 59	587.2	7.49	331.30
100.00	17 0 15	4996.74	28.33	217.85	18.36	80.03	18 23 32	4396.7	26.66	209.45
110.00	10 31 5	1049.67	1.11	325.93	12.39	124.17	10 48 35	449.7	5.59	319.71
110.00	18 32 52	4707.02	31.14	195.13	17.64	75.14	19 51 19	4107.0	28.79	186.72

DIFFERENTIAL CORRECTIONS
TDE-1.3039 TRA .7851 TC3-5.8581 BAU .6801
RDE -.0989 RRA .2034 RC3 -.8982 FAU .11520
FDE-3.2537 FRA 2.5452 FC-11.6181 BSP 14336
BDE 1.3076 BRA .8110 BC3 5.9265 FSP -3002

MID-COURSE EXECUTION ACCURACY
SGT 4572.5 SGR 700.3 SG3 924.1
RRT .9304 RRF .9367 RTF .9834
SGB 4625.8 R23 .0515 R13 .9839
SG1 4618.8 SG2 254.1 THA 8.13

ORBIT DETERMINATION ACCURACY
ST 2597.8 SR 231.3 SS 2166.4
CRT .9253 CRS -.9441 CST -.9985
LSA 3388.2 MSA 122.5 SSA 15.4
EL1 2606.6 EL2 87.4 ALF 4.71

LAUNCH DATE MAY 27 1967 FLIGHT TIME 176.00 ARRIVAL DATE NOV 19 1967

DISTANCE 488.177

HELIOCENTRIC CONIC
RL 151.57 LAL .00 LOL 245.04 VL 26.866 GAL 2.64 AZL 92.55 HCA 220.74 SMA 128.91 ECC .18147 INC 2.5533 V1 29.396
RP 107.55 LAP 1.67 LOP 105.75 VP 37.928 GAP 4.30 AZP 88.06 TAL 167.94 TAP 28.69 RCA 105.52 APO 152.31 V2 35.236
RC 113.598 GL -23.52 GP -9.79 ZAL 71.83 ZAP 137.83 ETS 350.15 ZAE 136.83 ETE 189.41 ZAC 119.72 ETC 12.01 CLP-138.77

PLANETOCENTRIC CONIC
C3 8.978 VHL 2.996 DLA -19.50 RAL 165.68 RAD 6567.3 VEL 11.418 PTH 1.98 VHP 3.972 DPA 6.26 RAP 147.13 ECC 1.1478

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 52 18	1383.96	5.49	353.41	16.49	117.82	9 15 22	784.0	9.17	346.66
90.00	15 22 33	5341.88	27.62	243.36	20.82	83.51	16 51 35	4741.9	26.44	234.89
100.00	10 1 26	1160.86	4.45	336.44	15.92	119.59	10 20 47	560.9	8.36	329.83
100.00	16 56 6	5040.21	28.80	220.99	20.64	81.62	18 20 7	4440.2	27.34	212.50
110.00	10 43 21	1029.50	1.88	324.88	14.33	124.14	11 0 31	429.5	6.35	318.64
110.00	18 30 41	4744.33	31.76	197.86	19.98	76.65	19 49 45	4144.3	29.60	189.32

DIFFERENTIAL CORRECTIONS
TDE-1.4209 TRA .8767 TC3-5.8430 BAU .7077
RDE -.0714 RRA .1949 RC3 -.7860 FAU .10628
FDE-3.1557 FRA 2.4901 FC-10.2483 BSP 14984
BDE 1.4227 BRA .8981 BC3 5.8957 FSP -2811

MID-COURSE EXECUTION ACCURACY
SGT 4775.6 SGR 629.9 SG3 862.5
RRT .9054 RRF .9087 RTF .9835
SGB 4816.9 R23 .0365 R13 .9837
SG1 4809.6 SG2 265.6 THA 6.83

ORBIT DETERMINATION ACCURACY
ST 2770.8 SR 181.4 SS 2136.0
CRT .8669 CRS -.8912 CST -.9986
LSA 3501.1 MSA 123.8 SSA 16.0
EL1 2775.3 EL2 90.3 ALF 3.25

LAUNCH DATE MAY 27 1967 FLIGHT TIME 178.00 ARRIVAL DATE NOV 21 1967

DISTANCE 494.304

HELIOCENTRIC CONIC
RL 151.57 LAL .00 LOL 245.04 VL 26.845 GAL 2.85 AZL 92.64 HCA 223.98 SMA 128.77 ECC .18363 INC 2.6366 V1 29.396
RP 107.53 LAP 1.83 LOP 108.99 VP 37.919 GAP 4.69 AZP 88.10 TAL 167.16 TAP 31.14 RCA 105.13 APO 152.42 V2 35.241
RC 115.842 GL -23.72 GP -8.83 ZAL 70.35 ZAP 140.58 ETS 350.20 ZAE 135.41 ETE 188.18 ZAC 118.96 ETC 12.53 CLP-141.42

PLANETOCENTRIC CONIC
C3 9.402 VHL 3.066 DLA -20.33 RAL 167.06 RAD 6567.3 VEL 11.436 PTH 1.98 VHP 4.130 DPA 6.98 RAP 147.99 ECC 1.1547

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 7 10	1358.28	6.30	351.96	18.66	117.66	9 29 48	758.3	9.96	345.19
90.00	15 18 42	5385.42	27.92	246.51	23.18	85.07	16 48 27	4785.4	26.94	237.98
100.00	10 15 18	1138.39	5.20	335.19	18.06	119.48	10 34 17	538.4	9.09	328.56
100.00	16 53 15	5080.55	29.16	223.94	23.04	83.12	18 17 55	4480.5	27.90	215.36
110.00	10 55 21	1012.87	2.52	324.01	16.40	124.10	11 12 14	412.9	6.98	317.76
110.00	18 29 41	4778.83	32.28	200.42	22.44	78.08	19 49 20	4178.8	30.30	191.77

DIFFERENTIAL CORRECTIONS
TDE-1.5338 TRA .9758 TC3-5.7946 BAU .7336
RDE -.0456 RRA .1888 RC3 -.6949 FAU .09785
FDE-3.0439 FRA 2.4397 FC3-9.0103 BSP 15595
BDE 1.5345 BRA .9939 BC3 5.8361 FSP -2631

MID-COURSE EXECUTION ACCURACY
SGT 4962.1 SGR 574.8 SG3 803.7
RRT .8731 RRF .8732 RTF .9834
SGB 4995.3 R23 .0243 R13 .9836
SG1 4987.5 SG2 278.8 THA 5.79

ORBIT DETERMINATION ACCURACY
ST 2926.7 SR 142.0 SS 2096.2
CRT .7497 CRS -.7813 CST -.9987
LSA 3600.5 MSA 125.4 SSA 16.4
EL1 2928.7 EL2 93.9 ALF 2.09

LAUNCH DATE MAY 27 1967 FLIGHT TIME 180.00 ARRIVAL DATE NOV 23 1967

DISTANCE 500.409

HELIOCENTRIC CONIC
RL 151.57 LAL .00 LOL 245.04 VL 26.823 GAL 3.07 AZL 92.71 HCA 227.23 SMA 128.63 ECC .18597 INC 2.7107 V1 29.396
RP 107.52 LAP 1.99 LOP 112.24 VP 37.907 GAP 5.09 AZP 88.16 TAL 166.33 TAP 33.56 RCA 104.71 APO 152.55 V2 35.246
RC 118.080 GL -23.79 GP -8.02 ZAL 68.82 ZAP 143.14 ETS 350.22 ZAE 134.11 ETE 187.20 ZAC 118.05 ETC 12.95 CLP-143.90

PLANETOCENTRIC CONIC
C3 9.861 VHL 3.140 DLA -21.05 RAL 168.54 RAD 6567.4 VEL 11.456 PTH 1.99 VHP 4.297 DPA 7.50 RAP 148.99 ECC 1.1623

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 21 42	1336.05	7.00	350.70	20.96	117.51	9 43 58	736.0	10.63	343.90
90.00	15 15 57	5426.42	28.12	249.49	25.65	86.55	16 46 24	4826.4	27.35	240.91
100.00	10 28 51	1119.30	5.84	334.14	20.33	119.37	10 47 31	519.3	9.71	327.49
100.00	16 51 29	5118.40	29.44	226.72	25.53	84.56	18 16 47	4518.4	28.37	218.08
110.00	11 7 8	999.35	3.04	323.30	18.59	124.06	11 23 47	399.3	7.49	317.04
110.00	18 29 42	4811.12	32.71	202.84	25.00	79.45	19 49 53	4211.1	30.91	194.09

DIFFERENTIAL CORRECTIONS
TDE-1.6424 TRA 1.0834 TC3-5.7100 BAU .7572
RDE -.0212 RRA .1846 RC3 -.6186 FAU .08977
FDE-2.9232 FRA 2.3959 FC3-7.8815 BSP 16142
BDE 1.6425 BRA 1.0990 BC3 5.7434 FSP -2454

MID-COURSE EXECUTION ACCURACY
SGT 5131.0 SGR 531.7 SG3 747.7
RRT .8334 RRF .8302 RTF .9832
SGB 5158.4 R23 .0147 R13 .9833
SG1 5150.1 SG2 292.7 THA 4.95

ORBIT DETERMINATION ACCURACY
ST 3065.2 SR 115.6 SS 2048.5
CRT .5250 CRS -.5649 CST -.9988
LSA 3686.2 MSA 127.5 SSA 16.8
EL1 3065.8 EL2 98.3 ALF 1.14

LAUNCH DATE MAY 27 1967 FLIGHT TIME 182.00 ARRIVAL DATE NOV 25 1967

HELIOCENTRIC CONIC DISTANCE 506.492

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.800 GAL   3.31 AZL  92.78 HCA 230.47 SMA 128.47 ECC .18851 INC 2.7775 V1  29.396
RP  107.50 LAP   2.14 LOP 115.48 VP  37.895 GAP   5.49 AZP  88.23 TAL 165.48 TAP  35.95 RCA 104.26 APO 152.69 V2  35.250
RC 120.312 GL  -23.75 GP   -7.32 ZAL  67.25 ZAP 145.51 ETS 350.22 ZAE 132.93 ETE 186.43 ZAC 116.99 ETC  13.27 CLP-146.21
```

PLANETOCENTRIC CONIC

```
C3  10.362 VHL  3.219 DLA -21.70 RAL 170.10 RAD 6567.4 VEL 11.478 PTH   2.00 VHP  4.472 DPA   7.85 RAP 150.10 ECC 1.1705
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 35 55	1316.96	7.60	349.62	23.36	117.36	9 57 52	717.0	11.21	342.80
90.00	15 14 11	5465.32	28.25	252.33	28.21	87.97	16 45 17	4865.3	27.67	243.72
100.00	10 42 7	1103.32	6.37	333.25	22.69	119.27	11 0 30	503.3	10.23	326.58
100.00	16 50 41	5154.20	29.64	229.36	28.12	85.94	18 16 35	4554.2	28.76	220.67
110.00	11 18 42	988.67	3.44	322.75	20.88	124.03	11 35 10	388.7	7.89	316.48
110.00	18 30 36	4841.61	33.06	205.15	27.66	80.78	19 51 17	4241.6	31.44	196.30

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.7487 TRA 1.1983 TC3-5.6009 BAU  .7797   SGT 5287.7 SGR  498.6 SG3  695.8   ST  3189.6 SR   105.0 SS  1997.8
RDE  .0020 RRA  .1817 RC3 -.5547 FAU .08237   RRT  .7872 RRF  .7805 RTF  .9829   CRT  .1855 CRS -.2306 CST -.9989
FDE-2.8027 FRA 2.3544 FC3-6.8819 BSP  16669   SGB 5311.1 R23  .0067 R13  .9830   LSA 3762.8 MSA  129.8 SSA   17.1
BDE 1.7487 BRA 1.2120 BC3 5.6283 FSP  -2293   SG1 5302.3 SG2  306.7 THA   4.26   EL1 3189.7 EL2  103.2 ALF    .35
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 184.00 ARRIVAL DATE NOV 27 1967

HELIOCENTRIC CONIC DISTANCE 512.550

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.776 GAL   3.56 AZL  92.84 HCA 233.72 SMA 128.32 ECC .19124 INC 2.8382 V1  29.396
RP  107.49 LAP   2.29 LOP 118.73 VP  37.881 GAP   5.89 AZP  88.32 TAL 164.60 TAP  38.32 RCA 103.78 APO 152.85 V2  35.253
RC 122.538 GL  -23.62 GP   -6.72 ZAL  65.64 ZAP 147.74 ETS 350.17 ZAE 131.86 ETE 185.81 ZAC 115.81 ETC  13.52 CLP-148.37
```

PLANETOCENTRIC CONIC

```
C3  10.911 VHL  3.303 DLA -22.27 RAL 171.73 RAD 6567.4 VEL 11.502 PTH   2.00 VHP  4.654 DPA   8.06 RAP 151.32 ECC 1.1796
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 49 50	1300.84	8.10	348.70	25.86	117.23	10 11 31	700.8	11.69	341.86
90.00	15 13 18	5502.44	28.31	255.05	30.85	89.33	16 45 0	4902.4	27.92	246.40
100.00	10 55 5	1090.25	6.81	332.52	25.16	119.18	11 13 15	490.3	10.65	325.84
100.00	16 50 44	5188.27	29.78	231.88	30.80	87.26	18 17 12	4588.3	29.08	223.15
110.00	11 30 2	980.67	3.75	322.33	23.27	124.00	11 46 23	380.7	8.19	316.05
110.00	18 32 16	4870.62	33.36	207.37	30.41	82.05	19 53 27	4270.6	31.90	198.44

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.8492 TRA 1.3252 TC3-5.4539 BAU  .7989   SGT 5425.8 SGR  473.5 SG3  646.8   ST  3294.8 SR   110.3 SS  1939.7
RDE  .0246 RRA  .1801 RC3 -.4984 FAU .07518   RRT  .7348 RRF  .7249 RTF  .9824   CRT -.1662 CRS  .1216 CST -.9989
FDE-2.6760 FRA 2.3238 FC3-5.9652 BSP  17086   SGB 5446.5 R23  .0007 R13  .9824   LSA 3822.5 MSA  133.1 SSA   17.3
BDE 1.8494 BRA 1.3373 BC3 5.4766 FSP  -2130   SG1 5437.0 SG2  320.5 THA   3.68   EL1 3294.8 EL2  108.8 ALF 179.68
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 186.00 ARRIVAL DATE NOV 29 1967

HELIOCENTRIC CONIC DISTANCE 518.584

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.751 GAL   3.84 AZL  92.89 HCA 236.97 SMA 128.15 ECC .19418 INC 2.8941 V1  29.396
RP  107.49 LAP   2.43 LOP 121.97 VP  37.866 GAP   6.29 AZP  88.42 TAL 163.69 TAP  40.65 RCA 103.27 APO 153.04 V2  35.256
RC 124.755 GL  -23.40 GP   -6.20 ZAL  64.01 ZAP 149.82 ETS 350.10 ZAE 130.89 ETE 185.30 ZAC 114.52 ETC  13.70 CLP-150.40
```

PLANETOCENTRIC CONIC

```
C3  11.517 VHL  3.394 DLA -22.77 RAL 173.42 RAD 6567.4 VEL 11.528 PTH   2.01 VHP  4.844 DPA   8.15 RAP 152.65 ECC 1.1895
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 3 24	1287.65	8.51	347.95	28.46	117.11	10 24 52	687.6	12.08	341.09
90.00	15 13 13	5537.96	28.31	257.64	33.58	90.63	16 45 31	4938.0	28.10	248.99
100.00	11 7 43	1080.04	7.15	331.95	27.72	119.10	11 25 43	480.0	10.97	325.26
100.00	16 51 35	5220.80	29.86	234.30	33.57	88.53	18 18 36	4620.8	29.34	225.53
110.00	11 41 9	975.25	3.95	322.04	25.75	123.98	11 57 24	375.2	8.39	315.76
110.00	18 34 39	4898.36	33.60	209.49	33.25	83.29	19 56 17	4298.4	32.31	200.50

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.9504 TRA 1.4580 TC3-5.2952 BAU  .8183   SGT 5557.6 SGR  454.8 SG3  602.3   ST  3390.6 SR   126.0 SS  1883.8
RDE  .0463 RRA  .1789 RC3 -.4502 FAU .06884   RRT  .6786 RRF  .6654 RTF  .9821   CRT -.4166 CRS  .3763 CST -.9990
FDE-2.5589 FRA 2.2908 FC3-5.1746 BSP  17540   SGB 5576.2 R23 -.0047 R13  .9821   LSA 3878.4 MSA  136.3 SSA   17.4
BDE 1.9510 BRA 1.4689 BC3 5.3143 FSP  -1991   SG1 5566.2 SG2  333.5 THA   3.19   EL1 3391.0 EL2  114.5 ALF 179.11
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 1 1967

HELIOCENTRIC CONIC DISTANCE 524.590

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.726 GAL   4.12 AZL  92.95 HCA 240.22 SMA 127.99 ECC .19734 INC 2.9461 V1  29.396
RP  107.48 LAP   2.56 LOP 125.22 VP  37.850 GAP   6.70 AZP  88.54 TAL 162.75 TAP  42.97 RCA 102.73 APO 153.24 V2  35.258
RC 126.964 GL  -23.11 GP   -5.75 ZAL  62.35 ZAP 151.78 ETS 349.98 ZAE 130.01 ETE 184.89 ZAC 113.13 ETC  13.83 CLP-152.32
```

PLANETOCENTRIC CONIC

```
C3  12.188 VHL  3.491 DLA -23.21 RAL 175.16 RAD 6567.5 VEL 11.557 PTH   2.02 VHP  5.042 DPA   8.12 RAP 154.06 ECC 1.2006
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 16 35	1277.35	8.83	347.36	31.13	117.01	10 37 52	677.3	12.39	340.48
90.00	15 13 53	5572.01	28.26	260.13	36.38	91.88	16 46 45	4972.0	28.22	251.47
100.00	11 20 0	1072.63	7.39	331.54	30.36	119.05	11 37 53	472.6	11.21	324.83
100.00	16 53 9	5251.96	29.89	236.61	36.41	89.75	18 20 41	4652.0	29.54	227.83
110.00	11 51 59	972.34	4.06	321.89	28.30	123.97	12 8 12	372.3	8.50	315.61
110.00	18 37 39	4925.01	33.79	211.55	36.17	84.50	19 59 44	4325.0	32.66	202.50

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.0496 TRA 1.6009 TC3-5.1152 BAU  .8361   SGT 5678.4 SGR  441.1 SG3  561.2   ST  3473.1 SR   146.8 SS  1827.0
RDE  .0677 RRA  .1783 RC3 -.4071 FAU .06297   RRT  .6195 RRF  .6032 RTF  .9817   CRT -.5707 CRS  .5352 CST -.9990
FDE-2.4458 FRA 2.2628 FC3-4.4731 BSP  17953   SGB 5695.5 R23 -.0092 R13  .9816   LSA 3924.5 MSA  139.9 SSA   17.4
BDE 2.0507 BRA 1.6108 BC3 5.1314 FSP  -1862   SG1 5685.0 SG2  345.8 THA   2.77   EL1 3474.1 EL2  120.5 ALF 178.62
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 3 1967

HELIOCENTRIC CONIC DISTANCE 530.569

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.700 GAL   4.43 AZL  92.99 HCA 243.46 SMA 127.82 ECC .20074 INC 2.9948 V1  29.396
RP  107.48 LAP   2.68 LOP 128.47 VP  37.833 GAP   7.12 AZP  88.66 TAL 161.79 TAP  45.26 RCA 102.16 APO 153.47 V2  35.259
RC 129.165 GL  -22.75 GP   -5.35 ZAL  60.68 ZAP 153.63 ETS 349.82 ZAE 129.22 ETE 184.54 ZAC 111.65 ETC  13.91 CLP-154.14
```

PLANETOCENTRIC CONIC

```
C3  12.931 VHL  3.596 DLA -23.60 RAL 176.93 RAD 6567.5 VEL 11.590 PTH   2.03 VHP  5.247 DPA   8.00 RAP 155.55 ECC 1.2128
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 29 20	1269.99	9.06	346.94	33.87	116.94	10 50 30	670.0	12.60	340.05
90.00	15 15 17	5604.64	28.16	262.52	39.25	93.07	16 48 42	5004.6	28.29	253.85
100.00	11 31 54	1068.05	7.54	331.28	33.06	119.01	11 49 42	468.0	11.36	324.57
100.00	16 55 25	5281.82	29.88	238.83	39.32	90.92	18 23 26	4681.8	29.69	230.03
110.00	12 2 33	971.94	4.08	321.87	30.93	123.97	12 18 44	371.9	8.51	315.59
110.00	18 41 15	4950.70	33.94	213.54	39.17	85.67	20 3 46	4350.7	32.97	204.44

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.1476 TRA 1.7532 TC3-4.9189 BAU  .8527   SGT 5789.3 SGR  431.1 SG3  523.4      ST  3543.5 SR   169.5 SS  1770.0
RDE  .0889 RRA  .1779 RC3 -.3681 FAU .05756   RRT  .5589 RRF  .5398 RTF  .9812     CRT -.6642 CRS  .6325 CST -.9991
FDE-2.3380 FRA 2.2376 FC3-3.8536 BSP  18351   SGB 5805.3 R23 -.0129 R13  .9812     LSA 3962.0 MSA  143.9 SSA   17.3
BDE 2.1495 BRA 1.7622 BC3 4.9326 FSP  -1745   SG1 5794.3 SG2  357.2 THA   2.39    EL1 3545.3 EL2  126.7 ALF 178.18
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 5 1967

HELIOCENTRIC CONIC DISTANCE 536.518

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.674 GAL   4.76 AZL  93.04 HCA 246.71 SMA 127.64 ECC .20438 INC 3.0408 V1  29.396
RP  107.48 LAP   2.79 LOP 131.72 VP  37.814 GAP   7.55 AZP  88.80 TAL 160.81 TAP  47.53 RCA 101.55 APO 153.73 V2  35.259
RC 131.355 GL  -22.34 GP   -5.00 ZAL  59.00 ZAP 155.37 ETS 349.61 ZAE 128.50 ETE 184.25 ZAC 110.09 ETC  13.95 CLP-155.86
```

PLANETOCENTRIC CONIC

```
C3  13.758 VHL  3.709 DLA -23.93 RAL 178.73 RAD 6567.5 VEL 11.625 PTH   2.04 VHP  5.460 DPA   7.79 RAP 157.12 ECC 1.2264
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 41 35	1265.64	9.19	346.69	36.68	116.90	11 2 41	665.6	12.73	339.80
90.00	15 17 23	5635.90	28.03	264.79	42.18	94.20	16 51 19	5035.9	28.32	256.14
100.00	11 43 20	1066.31	7.60	331.19	35.82	119.00	12 1 7	466.3	11.41	324.47
100.00	16 58 19	5310.47	29.83	240.96	42.29	92.03	18 26 49	4710.5	29.79	232.16
110.00	12 12 46	974.01	4.00	321.98	33.61	123.98	12 29 0	374.0	8.43	315.70
110.00	18 45 22	4975.53	34.05	215.47	42.24	86.80	20 8 18	4375.5	33.23	206.33

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.2407 TRA 1.9199 TC3-4.6966 BAU  .8660   SGT 5886.0 SGR  424.2 SG3  488.1      ST  3596.9 SR   192.9 SS  1709.9
RDE  .1103 RRA  .1778 RC3 -.3319 FAU .05233   RRT  .4978 RRF  .4765 RTF  .9807     CRT -.7224 CRS  .6935 CST -.9991
FDE-2.2302 FRA 2.2205 FC3-3.2929 BSP  18631   SGB 5901.3 R23 -.0157 R13  .9806     LSA 3984.5 MSA  148.6 SSA   17.1
BDE 2.2434 BRA 1.9281 BC3 4.7083 FSP  -1626   SG1 5889.8 SG2  367.6 THA   2.06    EL1 3599.6 EL2  133.3 ALF 177.78
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 7 1967

HELIOCENTRIC CONIC DISTANCE 542.435

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.647 GAL   5.10 AZL  93.08 HCA 249.96 SMA 127.47 ECC .20829 INC 3.0846 V1  29.396
RP  107.48 LAP   2.90 LOP 134.97 VP  37.795 GAP   7.98 AZP  88.94 TAL 159.82 TAP  49.78 RCA 100.91 APO 154.02 V2  35.259
RC 133.537 GL  -21.89 GP   -4.69 ZAL  57.32 ZAP 157.03 ETS 349.36 ZAE 127.85 ETE 183.99 ZAC 108.46 ETC  13.97 CLP-157.49
```

PLANETOCENTRIC CONIC

```
C3  14.680 VHL  3.831 DLA -24.21 RAL 180.54 RAD 6567.6 VEL 11.665 PTH   2.05 VHP  5.681 DPA   7.50 RAP 158.74 ECC 1.2416
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 53 17	1264.39	9.23	346.62	39.53	116.89	11 14 22	664.4	12.77	339.72
90.00	15 20 9	5665.76	27.86	266.96	45.17	95.28	16 54 35	5065.8	28.30	258.32
100.00	11 54 17	1067.46	7.56	331.25	38.64	119.01	12 12 5	467.5	11.38	324.54
100.00	17 1 50	5337.93	29.75	243.00	45.33	93.10	18 30 48	4737.9	29.86	234.20
110.00	12 22 38	978.56	3.83	322.22	36.34	123.99	12 38 57	378.6	8.26	315.94
110.00	18 49 59	4999.59	34.13	217.35	45.37	87.91	20 13 18	4399.6	33.46	208.17

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.3365 TRA 2.0936 TC3-4.4740 BAU  .8800   SGT 5978.8 SGR  419.3 SG3  456.1      ST  3644.1 SR   215.4 SS  1653.9
RDE  .1316 RRA  .1774 RC3 -.2991 FAU .04773   RRT  .4372 RRF  .4139 RTF  .9802     CRT -.7608 CRS  .7344 CST -.9991
FDE-2.1333 FRA 2.2017 FC3-2.8150 BSP  18981   SGB 5993.5 R23 -.0182 R13  .9802     LSA 4004.7 MSA  153.2 SSA   16.9
BDE 2.3402 BRA 2.1011 BC3 4.4840 FSP  -1527   SG1 5981.6 SG2  376.9 THA   1.76    EL1 3647.8 EL2  139.7 ALF 177.42
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 9 1967

HELIOCENTRIC CONIC DISTANCE 548.318

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.619 GAL   5.47 AZL  93.13 HCA 253.21 SMA 127.29 ECC .21249 INC 3.1266 V1  29.396
RP  107.48 LAP   2.99 LOP 138.22 VP  37.774 GAP   8.42 AZP  89.10 TAL 158.80 TAP  52.01 RCA 100.24 APO 154.33 V2  35.257
RC 135.709 GL  -21.39 GP   -4.42 ZAL  55.65 ZAP 158.62 ETS 349.05 ZAE 127.26 ETE 183.78 ZAC 106.76 ETC  13.97 CLP-159.06
```

PLANETOCENTRIC CONIC

```
C3  15.708 VHL  3.963 DLA -24.44 RAL 182.36 RAD 6567.6 VEL 11.709 PTH   2.06 VHP  5.911 DPA   7.14 RAP 160.41 ECC 1.2585
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 4 22	1266.31	9.17	346.73	42.43	116.91	11 25 29	666.3	12.71	339.83
90.00	15 23 36	5694.24	27.67	269.02	48.21	96.29	16 58 30	5094.2	28.25	260.41
100.00	12 4 43	1071.52	7.43	331.48	41.50	119.04	12 22 34	471.5	11.25	324.77
100.00	17 5 57	5364.26	29.63	244.95	48.42	94.12	18 35 21	4764.3	29.89	236.15
110.00	12 32 7	985.59	3.56	322.58	39.11	124.02	12 48 32	385.6	8.00	316.31
110.00	18 55 2	5022.96	34.17	219.17	48.56	88.99	20 18 45	4423.0	33.65	209.97

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.4312 TRA 2.2793 TC3-4.2402 BAU  .8922   SGT 6062.0 SGR  416.0 SG3  426.4      ST  3679.9 SR   237.1 SS  1598.6
RDE  .1532 RRA  .1766 RC3 -.2685 FAU .04345   RRT  .3775 RRF  .3525 RTF  .9798     CRT -.7870 CRS  .7625 CST -.9992
FDE-2.0414 FRA 2.1860 FC3-2.3944 BSP  19289   SGB 6076.3 R23 -.0203 R13  .9797     LSA 4016.0 MSA  158.0 SSA   16.7
BDE 2.4360 BRA 2.2861 BC3 4.2487 FSP  -1434   SG1 6064.1 SG2  385.1 THA   1.49    EL1 3684.6 EL2  146.1 ALF 177.09
```

```
LAUNCH DATE  MAY 27 1967                          FLIGHT TIME 198.00                          ARRIVAL DATE  DEC 11 1967

 HELIOCENTRIC CONIC                                DISTANCE 554.163
  RL  151.57 LAL     .00 LOL 245.04 VL  26.592 GAL   5.86 AZL  93.17 HCA 256.45 SMA 127.11 ECC .21699 INC 3.1672 V1  29.396
  RP  107.49 LAP    3.08 LOP 141.47 VP  37.753 GAP   8.88 AZP  89.26 TAL 157.78 TAP  54.23 RCA  99.52 APO 154.69 V2  35.255
  RC 137.871 GL   -20.85 GP   -4.17 ZAL  53.98 ZAP 160.13 ETS 348.68 ZAE 126.72 ETE 183.59 ZAC 105.01 ETC  13.94 CLP-160.56
 PLANETOCENTRIC CONIC
  C3  16.858 VHL  4.106 DLA -24.63 RAL 184.18 RAD 6567.7 VEL 11.758 PTH   2.08 VHP  6.151 DPA   6.72 RAP 162.14 ECC 1.2774
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00    11 14 48   1271.48      9.01     347.02      45.36      116.96   11 35 59     671.5      12.56     340.14
     90.00    15 27 42   5721.31     27.45     270.97      51.30       97.25   17  3  3    5121.3      28.17     262.38
    100.00    12 14 34   1078.53      7.20     331.87      44.39      119.09   12 32 32     478.5      11.02     325.17
    100.00    17 10 37   5389.49     29.49     246.81      51.55       95.09   18 40 26    4789.5      29.89     238.03
    110.00    12 41 10    995.07      3.20     323.08      41.92      124.05   12 57 45     395.1       7.65     316.82
    110.00    19  0 30   5045.71     34.18     220.95      51.80       90.04   20 24 35    4445.7      33.81     211.73
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE-2.5260 TRA 2.4773 TC3-3.9995 BAU  .9030      SGT 6137.9 SGR  413.8 SG3  399.2            ST  3706.3 SR   257.6 SS  1545.1
  RDE  .1752 RRA  .1755 RC3 -.2401 FAU .03947      RRT  .3191 RRF  .2929 RTF  .9793            CRT -.8055 CRS  .7826 CST -.9992
  FDE-1.9556 FRA 2.1736 FC3-2.0269 BSP  19582      SGB 6151.9 R23 -.0220 R13  .9793            LSA 4020.4 MSA  162.8 SSA   16.4
  BDE 2.5321 BRA 2.4835 BC3 4.0067 FSP  -1348      SG1 6139.4 SG2  392.1 THA   1.24            EL1 3712.1 EL2  152.4 ALF 176.79

LAUNCH DATE  MAY 27 1967                          FLIGHT TIME 200.00                          ARRIVAL DATE  DEC 13 1967

 HELIOCENTRIC CONIC                                DISTANCE 559.968
  RL  151.57 LAL     .00 LOL 245.04 VL  26.563 GAL   6.28 AZL  93.21 HCA 259.70 SMA 126.92 ECC .22183 INC 3.2067 V1  29.396
  RP  107.50 LAP    3.16 LOP 144.72 VP  37.730 GAP   9.35 AZP  89.43 TAL 156.74 TAP  56.44 RCA  98.77 APO 155.08 V2  35.253
  RC 140.023 GL   -20.29 GP   -3.95 ZAL  52.33 ZAP 161.58 ETS 348.24 ZAE 126.22 ETE 183.42 ZAC 103.21 ETC  13.91 CLP-162.00
 PLANETOCENTRIC CONIC
  C3  18.147 VHL  4.260 DLA -24.77 RAL 185.99 RAD 6567.7 VEL 11.812 PTH   2.09 VHP  6.402 DPA   6.25 RAP 163.90 ECC 1.2986
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00    11 24 31   1279.93      8.75     347.51      48.32      117.04   11 45 51     679.9      12.31     340.63
     90.00    15 32 25   5746.99     27.21     272.82      54.44       98.14   17  8 12    5147.0      28.06     264.25
    100.00    12 23 49   1088.48      6.87     332.42      47.30      119.16   12 41 57     488.5      10.70     325.74
    100.00    17 15 48   5413.68     29.34     248.59      54.74       96.02   18 46  2    4813.7      29.86     239.83
    110.00    12 49 48   1006.99      2.74     323.70      44.75      124.09   13  6 35     407.0       7.20     317.45
    110.00    19  6 19   5067.93     34.17     222.69      55.09       91.07   20 30 47    4467.9      33.94     213.45
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE-2.6166 TRA 2.6920 TC3-3.7456 BAU  .9102      SGT 6202.5 SGR  412.5 SG3  373.9            ST  3718.4 SR   277.0 SS  1490.4
  RDE  .1977 RRA  .1739 RC3 -.2134 FAU .03560      RRT  .2625 RRF  .2358 RTF  .9788            CRT -.8184 CRS  .7965 CST -.9992
  FDE-1.8708 FRA 2.1673 FC3-1.6982 BSP  19760      SGB 6216.2 R23 -.0230 R13  .9788            LSA 4012.0 MSA  168.2 SSA   16.1
  BDE 2.6241 BRA 2.6976 BC3 3.7517 FSP  -1261      SG1 6203.5 SG2  397.9 THA   1.00            EL1 3725.3 EL2  158.9 ALF 176.50

LAUNCH DATE  MAY 27 1967                          FLIGHT TIME 202.00                          ARRIVAL DATE  DEC 15 1967

 HELIOCENTRIC CONIC                                DISTANCE 565.727
  RL  151.57 LAL     .00 LOL 245.04 VL  26.535 GAL   6.72 AZL  93.25 HCA 262.95 SMA 126.74 ECC .22702 INC 3.2454 V1  29.396
  RP  107.51 LAP    3.22 LOP 147.98 VP  37.707 GAP   9.84 AZP  89.60 TAL 155.69 TAP  58.64 RCA  97.97 APO 155.51 V2  35.249
  RC 142.165 GL   -19.70 GP   -3.76 ZAL  50.71 ZAP 162.98 ETS 347.72 ZAE 125.77 ETE 183.26 ZAC 101.36 ETC  13.87 CLP-163.39
 PLANETOCENTRIC CONIC
  C3  19.592 VHL  4.426 DLA -24.88 RAL 187.79 RAD 6567.8 VEL 11.873 PTH   2.11 VHP  6.664 DPA   5.72 RAP 165.70 ECC 1.3224
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00    11 33 29   1291.71      8.39     348.18      51.29      117.14   11 55  1     691.7      11.96     341.32
     90.00    15 37 45   5771.30     26.97     274.55      57.61       98.98   17 13 56    5171.3      27.93     266.02
    100.00    12 32 26   1101.37      6.44     333.14      50.23      119.25   12 50 48     501.4      10.29     326.47
    100.00    17 21 29   5436.87     29.16     250.29      57.96       96.90   18 52  6    4836.9      29.81     241.55
    110.00    12 57 57   1021.33      2.20     324.45      47.61      124.12   13 14 59     421.3       6.66     318.21
    110.00    19 12 27   5089.67     34.13     224.38      58.42       92.07   20 37 17    4489.7      34.04     215.14
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE-2.7118 TRA 2.9161 TC3-3.4992 BAU  .9179      SGT 6263.3 SGR  411.4 SG3  350.8            ST  3726.7 SR   294.8 SS  1440.5
  RDE  .2206 RRA  .1714 RC3 -.1888 FAU .03219      RRT  .2069 RRF  .1799 RTF  .9784            CRT -.8284 CRS  .8075 CST -.9993
  FDE-1.7957 FRA 2.1597 FC3-1.4222 BSP  20014      SGB 6276.8 R23 -.0239 R13  .9784            LSA 4002.5 MSA  173.0 SSA   15.7
  BDE 2.7207 BRA 2.9211 BC3 3.5043 FSP  -1188      SG1 6263.9 SG2  402.5 THA    .78            EL1 3734.7 EL2  164.8 ALF 176.24

LAUNCH DATE  MAY 27 1967                          FLIGHT TIME 204.00                          ARRIVAL DATE  DEC 17 1967

 HELIOCENTRIC CONIC                                DISTANCE 571.438
  RL  151.57 LAL     .00 LOL 245.04 VL  26.506 GAL   7.19 AZL  93.28 HCA 266.19 SMA 126.56 ECC .23261 INC 3.2836 V1  29.396
  RP  107.52 LAP    3.28 LOP 151.23 VP  37.683 GAP  10.34 AZP  89.78 TAL 154.64 TAP  60.83 RCA  97.12 APO 155.99 V2  35.245
  RC 144.295 GL   -19.09 GP   -3.58 ZAL  49.11 ZAP 164.33 ETS 347.11 ZAE 125.34 ETE 183.12 ZAC  99.48 ETC  13.83 CLP-164.73
 PLANETOCENTRIC CONIC
  C3  21.217 VHL  4.606 DLA -24.94 RAL 189.55 RAD 6567.9 VEL 11.941 PTH   2.13 VHP  6.939 DPA   5.15 RAP 167.52 ECC 1.3492
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00    11 41 41   1306.79      7.92     349.04      54.27      117.28   12  3 28     706.8      11.51     342.20
     90.00    15 43 39   5794.28     26.71     276.19      60.82       99.76   17 20 14    5194.3      27.79     267.69
    100.00    12 40 25   1117.16      5.91     334.02      53.18      119.35   12 59  2     517.2       9.78     327.37
    100.00    17 27 36   5459.14     28.96     251.92      61.21       97.73   18 58 36    4859.1      29.73     243.20
    110.00    13  5 39   1038.04      1.56     325.33      50.48      124.15   13 22 57     438.0       6.03     319.09
    110.00    19 18 52   5111.02     34.06     226.05      61.78       93.06   20 44  3    4511.0      34.11     216.80
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE-2.8076 TRA 3.1545 TC3-3.2524 BAU  .9237      SGT 6316.7 SGR  410.7 SG3  329.4            ST  3727.0 SR   311.3 SS  1392.5
  RDE  .2440 RRA  .1680 RC3 -.1660 FAU .02900      RRT  .1526 RRF  .1257 RTF  .9781            CRT -.8358 CRS  .8159 CST -.9993
  FDE-1.7255 FRA 2.1549 FC3-1.1832 BSP  20246      SGB 6330.0 R23 -.0245 R13  .9781            LSA 3986.8 MSA  177.8 SSA   15.4
  BDE 2.8182 BRA 3.1590 BC3 3.2566 FSP  -1120      SG1 6317.0 SG2  405.8 THA    .57            EL1 3736.1 EL2  170.5 ALF 176.00
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 206.00 ARRIVAL DATE DEC 19 1967

HELIOCENTRIC CONIC DISTANCE 577.093
RL 151.57 LAL .00 LOL 245.04 VL 26.477 GAL 7.69 AZL 93.32 HCA 269.44 SMA 126.37 ECC .23862 INC 3.3214 V1 29.396
RP 107.53 LAP 3.32 LOP 154.48 VP 37.658 GAP 10.86 AZP 89.97 TAL 153.58 TAP 63.02 RCA 96.22 APO 156.53 V2 35.240
RC 146.414 GL -18.46 GP -3.42 ZAL 47.54 ZAP 165.63 ETS 346.38 ZAE 124.95 ETE 183.00 ZAC 97.56 ETC 13.79 CLP-166.04
PLANETOCENTRIC CONIC
C3 23.046 VHL 4.801 DLA -24.97 RAL 191.29 RAD 6567.9 VEL 12.018 PTH 2.15 VHP 7.228 DPA 4.54 RAP 169.37 ECC 1.3793

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 49 7	1325.10	7.35	350.08	57.25	117.42	12 11 12	725.1	10.96	343.27
90.00	15 50 6	5816.01	26.45	277.73	64.07	100.49	17 27 2	5216.0	27.63	269.26
100.00	12 47 45	1135.79	5.29	335.05	56.13	119.46	13 6 41	535.8	9.18	328.42
100.00	17 34 9	5480.56	28.76	253.48	64.50	98.53	19 5 29	4880.6	29.64	244.79
110.00	13 12 51	1057.07	.83	326.32	53.36	124.17	13 30 28	457.1	5.31	320.10
110.00	19 25 32	5132.05	33.97	227.68	65.17	94.02	20 51 4	4532.0	34.16	218.44

DIFFERENTIAL CORRECTIONS
TDE-2.9042 TRA 3.4089 TC3-3.0060 BAU .9273
RDE .2680 RRA .1636 RC3 -.1449 FAU .02599
FDE-1.6599 FRA 2.1532 FC3 -.9761 BSP 20445
BDE 2.9165 BRA 3.4128 BC3 3.0095 FSP -1056

MID-COURSE EXECUTION ACCURACY
SGT 6362.9 SGR 409.9 SG3 309.6
RRT .0997 RRF .0733 RTF .9778
SGB 6376.0 R23 -.0248 R13 .9778
SG1 6363.0 SG2 407.9 THA .37

ORBIT DETERMINATION ACCURACY
ST 3719.4 SR 326.3 SS 1346.5
CRT -.8413 CRS .8222 CST -.9993
LSA 3964.9 MSA 182.3 SSA 15.0
EL1 3729.6 EL2 175.9 ALF 175.77

LAUNCH DATE MAY 27 1967 FLIGHT TIME 208.00 ARRIVAL DATE DEC 21 1967

HELIOCENTRIC CONIC DISTANCE 582.687
RL 151.57 LAL .00 LOL 245.04 VL 26.448 GAL 8.22 AZL 93.36 HCA 272.68 SMA 126.19 ECC .24511 INC 3.3592 V1 29.396
RP 107.55 LAP 3.36 LOP 157.73 VP 37.632 GAP 11.41 AZP 90.16 TAL 152.53 TAP 65.21 RCA 95.26 APO 157.12 V2 35.234
RC 148.521 GL -17.82 GP -3.28 ZAL 46.01 ZAP 166.90 ETS 345.52 ZAE 124.58 ETE 182.88 ZAC 95.61 ETC 13.75 CLP-167.31
PLANETOCENTRIC CONIC
C3 25.111 VHL 5.011 DLA -24.96 RAL 192.99 RAD 6568.0 VEL 12.103 PTH 2.17 VHP 7.533 DPA 3.89 RAP 171.24 ECC 1.4133

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 55 47	1346.58	6.67	351.30	60.22	117.58	12 18 13	746.6	10.31	344.51
90.00	15 57 1	5836.59	26.19	279.18	67.34	101.17	17 34 17	5236.6	27.47	270.74
100.00	12 54 26	1157.18	4.57	336.23	59.07	119.57	13 13 44	557.2	8.48	329.62
100.00	17 41 2	5501.22	28.54	254.98	67.81	99.29	19 12 43	4901.2	29.53	246.31
110.00	13 19 34	1078.35	.02	327.43	56.24	124.18	13 37 32	478.4	4.50	321.21
110.00	19 32 24	5152.81	33.86	229.29	68.59	94.97	20 58 17	4552.8	34.18	220.06

DIFFERENTIAL CORRECTIONS
TDE-3.0027 TRA 3.6794 TC3-2.7636 BAU .9287
RDE .2925 RRA .1581 RC3 -.1256 FAU .02317
FDE-1.5992 FRA 2.1542 FC3 -.7990 BSP 20633
BDE 3.0169 BRA 3.6828 BC3 2.7664 FSP -997

MID-COURSE EXECUTION ACCURACY
SGT 6402.5 SGR 409.2 SG3 291.3
RRT .0478 RRF .0223 RTF .9777
SGB 6415.5 R23 -.0246 R13 .9777
SG1 6402.5 SG2 408.7 THA .18

ORBIT DETERMINATION ACCURACY
ST 3705.6 SR 339.8 SS 1303.0
CRT -.8456 CRS .8272 CST -.9994
LSA 3938.3 MSA 186.6 SSA 14.7
EL1 3716.8 EL2 180.8 ALF 175.56

LAUNCH DATE MAY 27 1967 FLIGHT TIME 210.00 ARRIVAL DATE DEC 23 1967

HELIOCENTRIC CONIC DISTANCE 588.213
RL 151.57 LAL .00 LOL 245.04 VL 26.419 GAL 8.79 AZL 93.40 HCA 275.92 SMA 126.00 ECC .25211 INC 3.3972 V1 29.396
RP 107.57 LAP 3.38 LOP 160.97 VP 37.606 GAP 11.98 AZP 90.35 TAL 151.47 TAP 67.40 RCA 94.24 APO 157.77 V2 35.228
RC 150.615 GL -17.18 GP -3.15 ZAL 44.51 ZAP 168.13 ETS 344.47 ZAE 124.22 ETE 182.76 ZAC 93.65 ETC 13.71 CLP-168.55
PLANETOCENTRIC CONIC
C3 27.446 VHL 5.239 DLA -24.92 RAL 194.66 RAD 6568.1 VEL 12.199 PTH 2.19 VHP 7.855 DPA 3.22 RAP 173.13 ECC 1.4517

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 1 41	1371.08	5.90	352.68	63.19	117.75	12 24 32	771.1	9.57	345.92
90.00	16 4 22	5856.14	25.92	280.55	70.63	101.81	17 41 58	5256.1	27.29	272.15
100.00	13 0 29	1181.23	3.76	337.56	62.02	119.68	13 20 10	581.2	7.69	330.97
100.00	17 48 15	5521.22	28.31	256.42	71.15	100.01	19 20 16	4921.2	29.40	247.79
110.00	13 25 48	1101.83	-.88	328.65	59.12	124.17	13 44 10	501.8	3.61	322.44
110.00	19 39 25	5173.39	33.73	230.89	72.03	95.90	21 5 38	4573.4	34.18	221.67

DIFFERENTIAL CORRECTIONS
TDE-3.1000 TRA 3.9706 TC3-2.5209 BAU .9259
RDE .3177 RRA .1511 RC3 -.1079 FAU .02043
FDE-1.5408 FRA 2.1598 FC3 -.6443 BSP 20717
BDE 3.1162 BRA 3.9735 BC3 2.5232 FSP -937

MID-COURSE EXECUTION ACCURACY
SGT 6434.3 SGR 408.3 SG3 274.3
RRT -.0025 RRF -.0266 RTF .9775
SGB 6447.2 R23 .0241 R13 -.9775
SG1 6434.3 SG2 408.3 THA 179.99

ORBIT DETERMINATION ACCURACY
ST 3683.0 SR 351.7 SS 1260.7
CRT -.8485 CRS .8306 CST -.9994
LSA 3903.9 MSA 190.7 SSA 14.3
EL1 3695.1 EL2 185.5 ALF 175.36

LAUNCH DATE MAY 27 1967 FLIGHT TIME 212.00 ARRIVAL DATE DEC 25 1967

HELIOCENTRIC CONIC DISTANCE 593.660
RL 151.57 LAL .00 LOL 245.04 VL 26.390 GAL 9.40 AZL 93.44 HCA 279.17 SMA 125.82 ECC .25968 INC 3.4356 V1 29.396
RP 107.59 LAP 3.39 LOP 164.22 VP 37.579 GAP 12.58 AZP 90.55 TAL 150.43 TAP 69.59 RCA 93.15 APO 158.49 V2 35.221
RC 152.696 GL -16.52 GP -3.03 ZAL 43.06 ZAP 169.34 ETS 343.20 ZAE 123.88 ETE 182.66 ZAC 91.66 ETC 13.69 CLP-169.77
PLANETOCENTRIC CONIC
C3 30.094 VHL 5.486 DLA -24.85 RAL 196.27 RAD 6568.2 VEL 12.307 PTH 2.22 VHP 8.197 DPA 2.51 RAP 175.03 ECC 1.4953

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 6 51	1398.46	5.03	354.22	66.14	117.90	12 30 10	798.5	8.72	347.49
90.00	16 12 4	5874.78	25.66	281.84	73.94	102.41	17 49 59	5274.8	27.11	273.48
100.00	13 5 54	1207.83	2.87	339.02	64.95	119.77	13 26 2	607.8	6.81	332.45
100.00	17 55 43	5540.64	28.07	257.81	74.49	100.71	19 28 3	4940.6	29.27	249.21
110.00	13 31 32	1127.41	-1.86	329.99	62.00	124.14	13 50 20	527.4	2.63	323.78
110.00	19 46 34	5193.83	33.58	232.46	75.48	96.82	21 13 8	4593.8	34.16	223.27

DIFFERENTIAL CORRECTIONS
TDE-3.2036 TRA 4.2775 TC3-2.2898 BAU .9220
RDE .3434 RRA .1427 RC3 -.0919 FAU .01794
FDE-1.4895 FRA 2.1663 FC3 -.5161 BSP 20868
BDE 3.2220 BRA 4.2799 BC3 2.2917 FSP -885

MID-COURSE EXECUTION ACCURACY
SGT 6461.3 SGR 407.1 SG3 258.6
RRT -.0525 RRF -.0750 RTF .9775
SGB 6474.1 R23 .0235 R13 -.9775
SG1 6461.3 SG2 406.6 THA 179.81

ORBIT DETERMINATION ACCURACY
ST 3658.3 SR 362.0 SS 1222.6
CRT -.8510 CRS .8337 CST -.9994
LSA 3869.2 MSA 194.1 SSA 14.0
EL1 3671.3 EL2 189.5 ALF 175.17

LAUNCH DATE MAY 27 1967 FLIGHT TIME 214.00 ARRIVAL DATE DEC 27 1967

HELIOCENTRIC CONIC DISTANCE 599.018

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.361 GAL  10.05 AZL  93.47 HCA 282.41 SMA 125.64 ECC .26789 INC 3.4747 VI  29.396
RP  107.62 LAP   3.39 LOP 167.47 VP  37.552 GAP  13.22 AZP  90.75 TAL 149.39 TAP  71.80 RCA  91.98 APO 159.29 V2  35.214
RC 154.762 GL  -15.87 GP   -2.92 ZAL  41.65 ZAP 170.52 ETS 341.61 ZAE 123.55 ETE 182.55 ZAC  89.66 ETC  13.67 CLP-170.98
```

PLANETOCENTRIC CONIC

```
C3  33.104 VHL  5.754 DLA -24.75 RAL 197.83 RAD 6568.3 VEL 12.429 PTH   2.25 VHP  8.561 DPA   1.79 RAP 176.93 ECC 1.5448
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 11 19	1428.55	4.06	355.91	69.08	118.05	12 35 8	828.6	7.79	349.21
90.00	16 20 5	604.59	25.39	305.18	77.26	102.97	16 30 10	4.6	26.93	296.85
100.00	13 10 42	1236.84	1.88	340.62	67.87	119.84	13 31 19	636.8	5.84	334.06
100.00	18 3 23	5559.58	27.83	259.17	77.85	101.38	19 36 3	4959.6	29.11	250.60
110.00	13 36 47	1155.01	-2.91	331.43	64.88	124.07	13 56 2	555.0	1.58	325.22
110.00	19 53 47	5214.17	33.40	234.02	78.94	97.73	21 20 42	4614.2	34.11	224.85

DIFFERENTIAL CORRECTIONS

```
TOE-3.3109 TRA 4.6046 TC3-2.0663 BAU  .9151
RDE  .3697 RRA  .1325 RC3 -.0776 FAU .01559
FDE-1.4425 FRA 2.1758 FC3 -.4078 BSP  21005
BDE 3.3315 BRA 4.6065 BC3 2.0678 FSP   -838
```

MID-COURSE EXECUTION ACCURACY

```
SGT 6482.2 SGR  405.7 SG3  244.0
RRT -.1017 RRF -.1223 RTF  .9777
SGB 6494.9 R23  .0226 R13 -.9777
SG1 6482.3 SG2  403.6 THA 179.63
```

ORBIT DETERMINATION ACCURACY

```
ST  3629.1 SR   370.7 SS  1187.2
CRT -.8530 CRS  .8363 CST -.9994
LSA 3831.2 MSA  197.0 SSA   13.6
EL1 3642.9 EL2  192.8 ALF 175.01
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 216.00 ARRIVAL DATE DEC 29 1967

HELIOCENTRIC CONIC DISTANCE 604.274

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.332 GAL  10.75 AZL  93.51 HCA 285.64 SMA 125.45 ECC .27680 INC 3.5148 VI  29.396
RP  107.64 LAP   3.38 LOP 170.71 VP  37.523 GAP  13.89 AZP  90.95 TAL 148.38 TAP  74.02 RCA  90.73 APO 160.18 V2  35.205
RC 156.813 GL  -15.21 GP   -2.83 ZAL  40.30 ZAP 171.67 ETS 339.58 ZAE 123.23 ETE 182.45 ZAC  87.65 ETC  13.66 CLP-172.16
```

PLANETOCENTRIC CONIC

```
C3  36.536 VHL  6.045 DLA -24.62 RAL 199.34 RAD 6568.4 VEL 12.566 PTH   2.28 VHP  8.950 DPA   1.04 RAP 178.84 ECC 1.6013
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 15 6	1461.17	3.02	357.74	71.99	118.17	12 39 27	861.2	6.76	351.06
90.00	16 28 21	621.78	25.12	306.37	80.59	103.51	16 38 42	21.8	26.74	298.07
100.00	13 14 54	1268.12	.82	342.33	70.77	119.88	13 36 2	668.1	4.79	335.80
100.00	18 11 14	5578.10	27.57	260.48	81.21	102.03	19 44 12	4978.1	28.95	251.95
110.00	13 41 33	1184.53	-4.04	332.97	67.74	123.97	14 1 18	584.5	.45	326.76
110.00	20 1 4	5234.46	33.21	235.58	82.40	98.63	21 28 19	4634.5	34.04	226.44

DIFFERENTIAL CORRECTIONS

```
TOE-3.4227 TRA 4.9538 TC3-1.8506 BAU  .9045
RDE  .3966 RRA  .1206 RC3 -.0650 FAU .01335
FDE-1.3999 FRA 2.1889 FC3 -.3164 BSP  21123
BDE 3.4456 BRA 4.9552 BC3 1.8517 FSP   -793
```

MID-COURSE EXECUTION ACCURACY

```
SGT 6496.9 SGR  404.1 SG3  230.5
RRT -.1503 RRF -.1687 RTF  .9780
SGB 6509.5 R23  .0214 R13 -.9780
SG1 6497.2 SG2  399.5 THA 179.46
```

ORBIT DETERMINATION ACCURACY

```
ST  3596.0 SR   377.8 SS  1154.7
CRT -.8546 CRS  .8384 CST -.9995
LSA 3790.4 MSA  199.2 SSA   13.2
EL1 3610.5 EL2  195.4 ALF 174.85
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 218.00 ARRIVAL DATE DEC 31 1967

HELIOCENTRIC CONIC DISTANCE 609.413

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.303 GAL  11.50 AZL  93.56 HCA 288.88 SMA 125.27 ECC .28649 INC 3.5562 VI  29.396
RP  107.67 LAP   3.36 LOP 173.95 VP  37.495 GAP  14.60 AZP  91.15 TAL 147.38 TAP  76.26 RCA  89.38 APO 161.16 V2  35.197
RC 158.850 GL  -14.56 GP   -2.74 ZAL  38.99 ZAP 172.81 ETS 336.92 ZAE 122.90 ETE 182.36 ZAC  85.64 ETC  13.67 CLP-173.34
```

PLANETOCENTRIC CONIC

```
C3  40.463 VHL  6.361 DLA -24.46 RAL 200.80 RAD 6568.6 VEL 12.721 PTH   2.31 VHP  9.367 DPA    .28 RAP 180.75 ECC 1.6659
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 18 15	1496.14	1.89	359.69	74.87	118.26	12 43 11	896.1	5.66	353.03
90.00	16 36 47	638.40	24.85	307.51	83.92	104.02	16 47 25	38.4	26.54	299.25
100.00	13 18 31	1301.55	-.31	344.17	73.65	119.89	13 40 13	701.5	3.67	337.64
100.00	18 19 11	5596.27	27.31	261.77	84.57	102.66	19 52 28	4996.3	28.78	253.28
110.00	13 45 50	1215.88	-5.23	334.62	70.59	123.83	14 6 6	615.9	-.75	328.40
110.00	20 8 22	5254.70	32.99	237.12	85.85	99.52	21 35 57	4654.7	33.95	228.01

DIFFERENTIAL CORRECTIONS

```
TOE-3.5355 TRA 5.3316 TC3-1.6396 BAU  .8874
RDE  .4240 RRA  .1065 RC3 -.0539 FAU .01112
FDE-1.3594 FRA 2.2076 FC3 -.2380 BSP  21124
BDE 3.5608 BRA 5.3327 BC3 1.6404 FSP   -746
```

MID-COURSE EXECUTION ACCURACY

```
SGT 6505.9 SGR  402.1 SG3  217.9
RRT -.1977 RRF -.2136 RTF  .9784
SGB 6518.3 R23  .0198 R13 -.9784
SG1 6506.4 SG2  394.1 THA 179.30
```

ORBIT DETERMINATION ACCURACY

```
ST  3556.7 SR   383.3 SS  1124.0
CRT -.8555 CRS  .8396 CST -.9995
LSA 3744.3 MSA  201.1 SSA   12.9
EL1 3571.8 EL2  197.6 ALF 174.72
```

LAUNCH DATE MAY 27 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 2 1968

HELIOCENTRIC CONIC DISTANCE 614.413

```
RL  151.57 LAL    .00 LOL 245.04 VL  26.274 GAL  12.32 AZL  93.60 HCA 292.12 SMA 125.10 ECC .29707 INC 3.5991 VI  29.396
RP  107.70 LAP   3.33 LOP 177.20 VP  37.466 GAP  15.37 AZP  91.36 TAL 146.42 TAP  78.53 RCA  87.93 APO 162.26 V2  35.187
RC 160.871 GL  -13.90 GP   -2.66 ZAL  37.74 ZAP 173.91 ETS 333.27 ZAE 122.57 ETE 182.26 ZAC  83.63 ETC  13.69 CLP-174.52
```

PLANETOCENTRIC CONIC

```
C3  44.973 VHL  6.706 DLA -24.28 RAL 202.18 RAD 6568.7 VEL 12.897 PTH   2.35 VHP  9.815 DPA   -.50 RAP 182.66 ECC 1.7401
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 20 45	1533.26	.69	1.76	77.73	118.31	12 46 19	933.3	4.47	355.12
90.00	16 45 21	654.53	24.58	308.61	87.24	104.51	16 56 15	54.5	26.34	300.38
100.00	13 21 34	1336.96	-1.51	346.11	76.50	119.86	13 43 51	737.0	2.47	339.59
100.00	18 27 13	5614.11	27.03	263.03	87.91	103.27	20 0 47	5014.1	28.59	254.57
110.00	13 49 38	1248.95	-6.48	336.36	73.42	123.64	14 10 27	648.9	-2.01	330.12
110.00	20 15 39	5274.88	32.75	238.64	89.29	100.39	21 43 34	4674.9	33.84	229.57

DIFFERENTIAL CORRECTIONS

```
TOE-3.6596 TRA 5.7308 TC3-1.4429 BAU  .8680
RDE  .4521 RRA  .0903 RC3 -.0443 FAU .00909
FDE-1.3257 FRA 2.2280 FC3 -.1749 BSP  21219
BDE 3.6874 BRA 5.7316 BC3 1.4436 FSP   -707
```

MID-COURSE EXECUTION ACCURACY

```
SGT 6509.4 SGR  399.9 SG3  206.3
RRT -.2452 RRF -.2586 RTF  .9789
SGB 6521.7 R23  .0183 R13 -.9790
SG1 6510.2 SG2  387.6 THA 179.13
```

ORBIT DETERMINATION ACCURACY

```
ST  3517.9 SR   387.1 SS  1097.7
CRT -.8567 CRS  .8414 CST -.9995
LSA 3700.0 MSA  202.0 SSA   12.5
EL1 3533.6 EL2  198.8 ALF 174.60
```

LAUNCH DATE MAY 28 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 6 1967

HELIOCENTRIC CONIC DISTANCE 144.823

RL	151.59	LAL	.00	LOL	246.00	VL	19.488	GAL	9.96	AZL	92.86	HCA	52.07	SMA	96.79	ECC	.58385	INC	2.8619	V1	29.390
RP	108.93	LAP	-2.26	LOP	298.03	VP	32.645	GAP	-35.08	AZP	91.76	TAL	172.73	TAP	224.80	RCA	40.28	APO	153.30	V2	34.790
RC	54.407	GL	-5.13	GP	1.01	ZAL	73.33	ZAP	23.26	ETS	183.80	ZAE	155.91	ETE	159.31	ZAC	122.60	ETC	19.08	CLP	23.24

PLANETOCENTRIC CONIC

C3	114.780	VHL	10.714	DLA	-1.83	RAL	171.31	RAD	6570.2	VEL	15.366	PTH	2.75	VHP	20.481	DPA	18.29	RAP	145.02	ECC	2.8890

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 40 32	2576.82	-26.39	65.77	61.79	100.65	7 23 29	1976.8	-24.66	57.53
90.00	18 11 23	5334.54	27.57	242.83	63.56	83.25	19 40 17	4734.5	26.35	234.38
100.00	8 1 2	2317.18	-27.88	46.35	61.47	101.25	8 39 39	1717.2	-26.04	38.03
100.00	19 33 35	5069.41	29.07	223.12	63.35	82.70	20 58 4	4469.4	27.75	214.57
110.00	9 7 19	2109.68	-31.91	29.60	60.47	102.97	9 42 28	1509.7	-29.80	21.03
110.00	20 43 47	4849.67	33.15	205.77	62.68	81.13	22 4 36	4249.7	31.57	196.90

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	.5590	TRA	-1.3467	TC3	-.0925	BAU	.1502	SGT	804.9	SGR	447.9	SG3	35.6	ST	369.0	SR	398.5	SS	339.8
RDE	-.7365	RRA	-.3774	RC3	.0320	FAU	.01491	RRT	.0394	RRF	-.0374	RTF	-.6338	CRT	-.7118	CRS	-.8145	CST	.9856
FDE	-.3207	FRA	.5360	FC3	-.1125	BSP	2112	SGB	921.1	R23	-.0013	R13	-.6339	LSA	602.3	MSA	217.8	SSA	13.9
BDE	.9246	BRA	1.3986	BC3	.0979	FSP	-75	SG1	805.2	SG2	447.4	THA	1.82	EL1	502.7	EL2	205.4	ALF	131.91

LAUNCH DATE MAY 28 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 8 1967

HELIOCENTRIC CONIC DISTANCE 151.003

RL	151.59	LAL	.00	LOL	246.00	VL	20.078	GAL	9.56	AZL	92.91	HCA	55.23	SMA	98.47	ECC	.55734	INC	2.9140	V1	29.390
RP	108.93	LAP	-2.39	LOP	301.19	VP	32.997	GAP	-33.38	AZP	91.66	TAL	172.23	TAP	227.45	RCA	43.59	APO	153.35	V2	34.787
RC	52.748	GL	-5.70	GP	1.05	ZAL	72.55	ZAP	21.71	ETS	183.99	ZAE	157.10	ETE	156.77	ZAC	121.05	ETC	18.69	CLP	21.69

PLANETOCENTRIC CONIC

C3	102.694	VHL	10.134	DLA	-2.67	RAL	171.81	RAD	6570.0	VEL	14.968	PTH	2.70	VHP	19.586	DPA	17.82	RAP	146.64	ECC	2.6901

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 48 43	2527.88	-25.73	62.33	60.21	102.25	7 30 51	1927.9	-23.79	54.20
90.00	18 7 11	5337.33	27.59	243.03	62.72	83.35	19 36 8	4737.3	26.38	234.57
100.00	8 8 49	2269.49	-27.20	42.97	59.84	102.90	8 46 39	1669.5	-25.15	34.77
100.00	19 29 46	5070.94	29.08	223.24	62.52	82.76	20 54 17	4470.9	27.78	214.68
110.00	9 14 13	2064.79	-31.18	26.31	58.72	104.79	9 48 38	1464.8	-28.83	17.89
110.00	20 40 52	4848.41	33.13	205.67	61.84	81.07	22 1 40	4248.4	31.55	196.80

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	.5592	TRA	-1.3368	TC3	-.0931	BAU	.1374	SGT	841.4	SGR	452.3	SG3	38.8	ST	389.3	SR	401.2	SS	359.5
RDE	-.7013	RRA	-.3610	RC3	.0368	FAU	.01528	RRT	.0398	RRF	-.0387	RTF	-.6543	CRT	-.7137	CRS	-.8183	CST	.9851
FDE	-.3368	FRA	.5524	FC3	-.1288	BSP	2270	SGB	955.3	R23	-.0021	R13	-.6544	LSA	626.3	MSA	222.0	SSA	14.2
BDE	.8970	BRA	1.3846	BC3	.1001	FSP	-83	SG1	841.7	SG2	451.8	THA	1.72	EL1	517.5	EL2	211.4	ALF	133.79

LAUNCH DATE MAY 28 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 10 1967

HELIOCENTRIC CONIC DISTANCE 157.252

RL	151.59	LAL	.00	LOL	246.00	VL	20.627	GAL	9.15	AZL	92.96	HCA	58.39	SMA	100.13	ECC	.53180	INC	2.9622	V1	29.390
RP	108.94	LAP	-2.52	LOP	304.35	VP	33.332	GAP	-31.77	AZP	91.55	TAL	171.75	TAP	230.14	RCA	46.88	APO	153.37	V2	34.786
RC	51.183	GL	-6.30	GP	1.09	ZAL	71.87	ZAP	20.18	ETS	184.23	ZAE	158.40	ETE	153.76	ZAC	119.49	ETC	18.31	CLP	20.15

PLANETOCENTRIC CONIC

C3	91.948	VHL	9.589	DLA	-3.50	RAL	172.22	RAD	6569.8	VEL	14.605	PTH	2.65	VHP	18.727	DPA	17.35	RAP	148.27	ECC	2.5132

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 56 35	2478.12	-24.97	58.89	58.53	103.81	7 37 53	1878.1	-22.82	50.88
90.00	18 2 37	5339.37	27.60	243.18	61.73	83.42	19 31 36	4739.4	26.41	234.72
100.00	8 16 17	2221.00	-26.42	39.58	58.12	104.52	8 53 18	1621.0	-24.16	31.50
100.00	19 25 36	5071.72	29.09	223.29	61.53	82.79	20 50 7	4471.7	27.79	214.73
110.00	9 20 47	2019.11	-30.33	23.02	56.88	106.57	9 54 26	1419.1	-27.77	14.76
110.00	20 37 36	4846.38	33.11	205.52	60.86	80.99	21 58 22	4246.4	31.51	196.65

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	.5570	TRA	-1.3288	TC3	-.0934	BAU	.1260	SGT	880.7	SGR	456.0	SG3	42.4	ST	409.6	SR	403.3	SS	379.8
RDE	-.6669	RRA	-.3446	RC3	.0422	FAU	.01567	RRT	.0422	RRF	-.0404	RTF	-.6725	CRT	-.7136	CRS	-.8219	CST	.9842
FDE	-.3534	FRA	.5690	FC3	-.1475	BSP	2370	SGB	991.7	R23	-.0016	R13	-.6726	LSA	650.6	MSA	226.2	SSA	14.4
BDE	.8689	BRA	1.3727	BC3	.1025	FSP	-92	SG1	881.0	SG2	455.4	THA	1.71	EL1	532.1	EL2	217.5	ALF	135.62

LAUNCH DATE MAY 28 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 12 1967

HELIOCENTRIC CONIC DISTANCE 163.564

RL	151.59	LAL	.00	LOL	246.00	VL	21.138	GAL	8.74	AZL	93.01	HCA	61.55	SMA	101.76	ECC	.50725	INC	3.0072	V1	29.390
RP	108.94	LAP	-2.64	LOP	307.52	VP	33.649	GAP	-30.24	AZP	91.43	TAL	171.31	TAP	232.86	RCA	50.14	APO	153.38	V2	34.784
RC	49.723	GL	-6.94	GP	1.13	ZAL	71.27	ZAP	18.66	ETS	184.53	ZAE	159.77	ETE	150.15	ZAC	117.91	ETC	17.95	CLP	18.62

PLANETOCENTRIC CONIC

C3	82.384	VHL	9.077	DLA	-4.33	RAL	172.55	RAD	6569.6	VEL	14.273	PTH	2.60	VHP	17.900	DPA	16.87	RAP	149.90	ECC	2.3558

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 4 6	2427.62	-24.10	55.44	56.76	105.33	7 44 34	1827.6	-21.77	47.55
90.00	17 57 40	5340.78	27.62	243.28	60.60	83.47	19 26 41	4740.8	26.42	234.82
100.00	8 23 25	2171.78	-25.53	36.19	56.31	106.10	8 59 37	1571.8	-23.08	28.25
100.00	19 21 3	5071.86	29.09	223.30	60.40	82.80	20 45 35	4471.9	27.79	214.74
110.00	9 27 0	1972.71	-29.39	19.74	54.97	108.30	9 59 53	1372.7	-26.61	11.65
110.00	20 33 57	4843.69	33.08	205.31	59.73	80.87	21 54 41	4243.7	31.47	196.46

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	.5576	TRA	-1.3174	TC3	-.0911	BAU	.1136	SGT	920.2	SGR	458.9	SG3	46.3	ST	431.9	SR	404.5	SS	401.4
RDE	-.6331	RRA	-.3282	RC3	.0483	FAU	.01611	RRT	.0429	RRF	-.0418	RTF	-.6914	CRT	-.7161	CRS	-.8259	CST	.9836
FDE	-.3712	FRA	.5853	FC3	-.1693	BSP	2532	SGB	1028.3	R23	-.0023	R13	-.6915	LSA	677.1	MSA	229.4	SSA	14.6
BDE	.8437	BRA	1.3576	BC3	.1031	FSP	-102	SG1	920.5	SG2	458.3	THA	1.63	EL1	548.3	EL2	222.4	ALF	137.62

LAUNCH DATE MAY 28 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 14 1967

HELIOCENTRIC CONIC DISTANCE 169.934

RL 151.59 LAL .00 LOL 246.00 VL 21.613 GAL 8.32 AZL 93.05 HCA 64.71 SMA 103.37 ECC .48371 INC 3.0496 V1 29.390
RP 108.94 LAP -2.76 LOP 310.68 VP 33.949 GAP -28.78 AZP 91.30 TAL 170.91 TAP 238.42 RCA 53.37 APO 153.38 V2 34.784
RC 48.377 GL -7.61 GP 1.18 ZAL 70.75 ZAP 17.14 ETS 184.91 ZAE 161.19 ETE 145.76 ZAC 116.32 ETC 17.61 CLP 17.10

PLANETOCENTRIC CONIC

C3 73.872 VHL 8.595 DLA -5.16 RAL 172.78 RAD 6569.4 VEL 13.972 PTH 2.55 VHP 17.105 DPA 16.37 RAP 151.54 ECC 2.2157

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 11 19	2376.42	-23.14	52.00	54.91	106.79	7 50 55	1776.4	-20.62	44.24
90.00	17 52 20	5341.73	27.62	243.35	59.34	83.51	19 21 21	4741.7	26.44	234.88
100.00	8 30 13	2121.87	-24.55	32.81	54.43	107.62	9 5 35	1521.9	-21.91	25.01
100.00	19 16 6	5071.51	29.09	223.28	59.14	82.78	20 40 38	4471.5	27.78	214.72
110.00	9 32 53	1925.68	-28.34	16.48	52.99	109.97	10 4 59	1325.7	-25.35	8.57
110.00	20 29 55	4840.47	33.05	205.07	58.47	80.73	21 50 36	4240.5	31.42	196.22

DIFFERENTIAL CORRECTIONS
TDE .5583 TRA-1.3052 TC3 -.0869 BAU .1015
RDE -.6001 RRA -.3120 RC3 .0550 FAU .01660
FDE -.3901 FRA .6015 FC3 -.1946 BSP 2691
BDE .8196 BRA 1.3420 BC3 .1028 FSP -114

MID-COURSE EXECUTION ACCURACY
SGT 961.3 SGR 461.0 SG3 50.5
RRT .0439 RRF -.0434 RTF -.7095
SGB 1066.1 R23 -.0030 R13 -.7096
SG1 961.6 SG2 460.5 THA 1.56

ORBIT DETERMINATION ACCURACY
ST 455.2 SR 404.9 SS 424.0
CRT -.7187 CRS -.8301 CST .9831
LSA 704.9 MSA 231.9 SSA 14.8
EL1 565.5 EL2 226.6 ALF 139.64

LAUNCH DATE MAY 28 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 16 1967

HELIOCENTRIC CONIC DISTANCE 176.359

RL 151.59 LAL .00 LOL 246.00 VL 22.055 GAL 7.91 AZL 93.09 HCA 67.87 SMA 104.95 ECC .46119 INC 3.0899 V1 29.390
RP 108.94 LAP -2.86 LOP 313.84 VP 34.233 GAP -27.38 AZP 91.16 TAL 170.54 TAP 238.42 RCA 56.55 APO 153.36 V2 34.784
RC 47.155 GL -8.32 GP 1.23 ZAL 70.33 ZAP 15.64 ETS 185.39 ZAE 162.62 ETE 140.40 ZAC 114.73 ETC 17.28 CLP 15.59

PLANETOCENTRIC CONIC

C3 66.294 VHL 8.142 DLA -6.00 RAL 172.92 RAD 6569.3 VEL 13.698 PTH 2.50 VHP 16.339 DPA 15.86 RAP 153.17 ECC 2.0910

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 18 12	2324.62	-22.08	48.57	52.99	108.20	7 56 56	1724.6	-19.39	40.94
90.00	17 46 33	5342.36	27.63	243.40	57.94	83.53	19 15 35	4742.4	26.44	234.93
100.00	8 36 42	2071.38	-23.46	29.45	52.48	109.07	9 11 13	1471.4	-20.65	21.78
100.00	19 10 44	5070.83	29.08	223.23	57.74	82.76	20 35 15	4470.8	27.77	214.67
110.00	9 38 26	1878.09	-27.19	13.25	50.96	111.56	10 9 44	1278.1	-24.01	5.52
110.00	20 25 29	4836.89	33.01	204.79	57.07	80.57	21 46 6	4236.9	31.36	195.96

DIFFERENTIAL CORRECTIONS
TDE .5597 TRA-1.2914 TC3 -.0800 BAU .0900
RDE -.5678 RRA -.2959 RC3 .0625 FAU .01715
FDE -.4104 FRA .6177 FC3 -.2240 BSP 2862
BDE .7973 BRA 1.3249 BC3 .1015 FSP -127

MID-COURSE EXECUTION ACCURACY
SGT 1003.5 SGR 462.4 SG3 55.1
RRT .0446 RRF -.0448 RTF -.7269
SGB 1105.0 R23 -.0037 R13 -.7270
SG1 1003.8 SG2 461.9 THA 1.49

ORBIT DETERMINATION ACCURACY
ST 479.9 SR 404.5 SS 448.0
CRT -.7221 CRS -.8345 CST .9826
LSA 734.7 MSA 233.6 SSA 15.0
EL1 584.0 EL2 229.9 ALF 141.69

LAUNCH DATE MAY 28 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 18 1967

HELIOCENTRIC CONIC DISTANCE 182.831

RL 151.59 LAL .00 LOL 246.00 VL 22.466 GAL 7.51 AZL 93.13 HCA 71.03 SMA 106.49 ECC .43971 INC 3.1284 V1 29.390
RP 108.94 LAP -2.96 LOP 317.01 VP 34.500 GAP -26.05 AZP 91.02 TAL 170.22 TAP 241.26 RCA 59.67 APO 153.32 V2 34.785
RC 46.068 GL -9.06 GP 1.29 ZAL 70.00 ZAP 14.13 ETS 186.01 ZAE 163.99 ETE 133.78 ZAC 113.13 ETC 16.97 CLP 14.08

PLANETOCENTRIC CONIC

C3 59.549 VHL 7.717 DLA -6.83 RAL 172.96 RAD 6569.1 VEL 13.450 PTH 2.46 VHP 15.601 DPA 15.35 RAP 154.80 ECC 1.9800

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 24 46	2272.28	-20.93	45.17	51.01	109.52	8 2 38	1672.3	-18.07	37.66
90.00	17 40 20	5342.87	27.63	243.43	56.41	83.55	19 9 23	4742.9	26.45	234.96
100.00	8 42 51	2020.39	-22.29	26.11	50.48	110.45	9 16 31	1420.4	-19.31	18.59
100.00	19 4 56	5070.00	29.07	223.17	56.22	82.73	20 29 26	4470.0	27.76	214.61
110.00	9 43 38	1830.06	-25.95	10.07	48.88	113.08	10 14 8	1230.1	-22.59	2.52
110.00	20 20 38	4833.09	32.97	204.51	55.54	80.40	21 41 11	4233.1	31.29	195.68

DIFFERENTIAL CORRECTIONS
TDE .5594 TRA-1.2788 TC3 -.0719 BAU .0803
RDE -.5364 RRA -.2802 RC3 .0707 FAU .01774
FDE -.4318 FRA .6342 FC3 -.2579 BSP 2981
BDE .7751 BRA 1.3091 BC3 .1008 FSP -140

MID-COURSE EXECUTION ACCURACY
SGT 1048.4 SGR 463.1 SG3 60.2
RRT .0469 RRF -.0468 RTF -.7422
SGB 1146.1 R23 -.0036 R13 -.7422
SG1 1048.7 SG2 462.4 THA 1.47

ORBIT DETERMINATION ACCURACY
ST 504.8 SR 403.2 SS 473.1
CRT -.7242 CRS -.8389 CST .9818
LSA 765.3 MSA 235.2 SSA 15.3
EL1 602.6 EL2 232.9 ALF 143.69

LAUNCH DATE MAY 28 1967 FLIGHT TIME 84.00 ARRIVAL DATE AUG 20 1967

HELIOCENTRIC CONIC DISTANCE 189.347

RL 151.59 LAL .00 LOL 246.00 VL 22.848 GAL 7.11 AZL 93.17 HCA 74.20 SMA 108.00 ECC .41926 INC 3.1655 V1 29.390
RP 108.93 LAP -3.05 LOP 320.17 VP 34.752 GAP -24.78 AZP 90.86 TAL 169.94 TAP 244.14 RCA 62.72 APO 153.27 V2 34.787
RC 45.125 GL -9.85 GP 1.35 ZAL 69.76 ZAP 12.63 ETS 186.83 ZAE 165.22 ETE 125.67 ZAC 111.53 ETC 16.68 CLP 12.56

PLANETOCENTRIC CONIC

C3 53.547 VHL 7.318 DLA -7.67 RAL 172.91 RAD 6568.9 VEL 13.225 PTH 2.42 VHP 14.890 DPA 14.83 RAP 156.42 ECC 1.8812

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 31 1	2219.52	-19.69	41.79	48.98	110.77	8 8 1	1619.6	-16.69	34.40
90.00	17 33 38	5343.43	27.64	243.47	54.78	83.57	19 2 41	4743.4	26.46	235.00
100.00	8 48 41	1969.00	-21.03	22.82	48.43	111.75	9 21 30	1369.0	-17.89	15.43
100.00	18 58 40	5069.18	29.07	223.11	54.58	82.70	20 23 9	4469.2	27.75	214.55
110.00	9 48 30	1781.69	-24.62	6.94	46.77	114.50	10 18 12	1181.7	-21.10	359.56
110.00	20 15 20	4829.26	32.92	204.22	53.91	80.24	21 35 49	4229.3	31.23	195.40

DIFFERENTIAL CORRECTIONS
TDE .5617 TRA-1.2626 TC3 -.0590 BAU .0710
RDE -.5058 RRA -.2647 RC3 .0798 FAU .01841
FDE -.4552 FRA .6503 FC3 -.2977 BSP 3154
BDE .7559 BRA 1.2900 BC3 .0992 FSP -155

MID-COURSE EXECUTION ACCURACY
SGT 1093.6 SGR 462.9 SG3 65.8
RRT .0481 RRF -.0487 RTF -.7580
SGB 1187.5 R23 -.0044 R13 -.7580
SG1 1093.8 SG2 462.2 THA 1.42

ORBIT DETERMINATION ACCURACY
ST 532.0 SR 401.0 SS 499.3
CRT -.7286 CRS -.8437 CST .9814
LSA 798.8 MSA 235.5 SSA 15.5
EL1 623.6 EL2 234.3 ALF 145.73

LAUNCH DATE MAY 28 1967 FLIGHT TIME 86.00 ARRIVAL DATE AUG 22 1967

DISTANCE 195.903

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 23.204 GAL 6.71 AZL 93.20 HCA 77.36 SMA 109.45 ECC .39983 INC 3.2014 V1 29.390
RP 108.93 LAP -3.12 LOP 323.34 VP 34.990 GAP -23.57 AZP 90.70 TAL 169.71 TAP 247.07 RCA 65.69 APO 153.22 V2 34.790
RC 44.335 GL -10.68 GP 1.42 ZAL 69.62 ZAP 11.13 ETS 187.93 ZAE 166.18 ETE 115.90 ZAC 109.93 ETC 16.40 CLP 11.04

PLANETOCENTRIC CONIC
C3 48.208 VHL 6.943 DLA -8.51 RAL 172.75 RAD 6568.8 VEL 13.022 PTH 2.38 VHP 14.206 DPA 14.31 RAP 158.03 ECC 1.7934

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 36 58	2166.44	-18.37	38.46	46.92	111.93	8 13 5	1566.4	-15.24	31.18
90.00	17 26 26	5344.23	27.64	243.53	53.04	83.60	18 55 31	4744.2	26.47	235.06
100.00	8 54 11	1917.34	-19.69	19.56	46.34	112.95	9 26 9	1317.3	-16.42	12.30
100.00	18 51 55	5068.57	29.06	223.06	52.84	82.67	20 16 23	4468.6	27.74	214.51
110.00	9 53 1	1733.12	-23.21	3.87	44.62	115.83	10 21 54	1133.1	-19.55	356.65
110.00	20 9 34	4825.56	32.88	203.93	52.17	80.08	21 29 59	4225.6	31.16	195.13

DIFFERENTIAL CORRECTIONS
TDE .5645 TRA-1.2449 TC3 -.0423 BAU .0640
RDE -.4761 RRA -.2496 RC3 .0898 FAU .01915
FDE -.4807 FRA .6665 FC3 -.3440 BSP 3330
BDE .7385 BRA 1.2697 BC3 .0993 FSP -173

MID-COURSE EXECUTION ACCURACY
SGT 1139.9 SGR 461.8 SG3 72.0
RRT .0493 RRF -.0507 RTF -.7729
SGB 1229.9 R23 -.0052 R13 -.7730
SG1 1140.2 SG2 461.2 THA 1.37

ORBIT DETERMINATION ACCURACY
ST 560.5 SR 397.8 SS 528.5
CRT -.7336 CRS -.8486 CST .9811
LSA 834.4 MSA 235.0 SSA 15.7
EL1 646.1 EL2 234.6 ALF 147.74

LAUNCH DATE MAY 28 1967 FLIGHT TIME 88.00 ARRIVAL DATE AUG 24 1967

DISTANCE 202.492

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 23.534 GAL 6.33 AZL 93.24 HCA 80.52 SMA 110.87 ECC .38140 INC 3.2365 V1 29.390
RP 108.92 LAP -3.19 LOP 326.50 VP 35.213 GAP -22.40 AZP 90.53 TAL 169.52 TAP 250.04 RCA 68.58 APO 153.15 V2 34.793
RC 43.707 GL -11.56 GP 1.49 ZAL 69.58 ZAP 9.63 ETS 189.44 ZAE 166.76 ETE 104.63 ZAC 108.34 ETC 16.13 CLP 9.52

PLANETOCENTRIC CONIC
C3 43.462 VHL 6.593 DLA -9.35 RAL 172.49 RAD 6568.6 VEL 12.839 PTH 2.34 VHP 13.546 DPA 13.79 RAP 159.63 ECC 1.7153

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 42 37	2113.17	-16.99	35.16	44.81	113.00	8 17 50	1513.2	-13.73	28.00
90.00	17 18 44	5345.47	27.65	243.62	51.20	83.64	18 47 49	4745.5	26.48	235.15
100.00	8 59 23	1865.52	-18.29	16.36	44.22	114.07	9 30 28	1265.5	-14.88	9.22
100.00	18 44 39	5068.35	29.06	223.05	51.01	82.66	20 9 8	4468.3	27.74	214.49
110.00	9 57 12	1684.47	-21.74	.86	42.46	117.06	10 25 17	1084.5	-17.93	353.80
110.00	20 3 20	4822.16	32.84	203.68	50.33	79.93	21 23 42	4222.2	31.10	194.89

DIFFERENTIAL CORRECTIONS
TDE .5684 TRA-1.2256 TC3 -.0209 BAU .0598
RDE -.4473 RRA -.2349 RC3 .1007 FAU .01999
FDE -.5087 FRA .6826 FC3 -.3981 BSP 3512
BDE .7233 BRA 1.2479 BC3 .1028 FSP -192

MID-COURSE EXECUTION ACCURACY
SGT 1187.5 SGR 460.0 SG3 78.8
RRT .0506 RRF -.0530 RTF -.7872
SGB 1273.5 R23 -.0061 R13 -.7873
SG1 1187.8 SG2 459.3 THA 1.32

ORBIT DETERMINATION ACCURACY
ST 590.7 SR 393.7 SS 559.1
CRT -.7394 CRS -.8539 CST .9809
LSA 872.7 MSA 233.6 SSA 15.9
EL1 670.3 EL2 233.6 ALF 149.71

LAUNCH DATE MAY 28 1967 FLIGHT TIME 90.00 ARRIVAL DATE AUG 26 1967

DISTANCE 209.111

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 23.841 GAL 5.96 AZL 93.27 HCA 83.68 SMA 112.23 ECC .36398 INC 3.2709 V1 29.390
RP 108.90 LAP -3.25 LOP 329.67 VP 35.422 GAP -21.28 AZP 90.36 TAL 169.39 TAP 253.07 RCA 71.38 APO 153.08 V2 34.797
RC 43.245 GL -12.47 GP 1.57 ZAL 69.64 ZAP 8.13 ETS 191.61 ZAE 166.85 ETE 92.51 ZAC 106.75 ETC 15.88 CLP 7.98

PLANETOCENTRIC CONIC
C3 39.247 VHL 6.265 DLA -10.19 RAL 172.13 RAD 6568.5 VEL 12.673 PTH 2.30 VHP 12.910 DPA 13.27 RAP 161.22 ECC 1.6459

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 47 58	2059.82	-15.54	31.91	42.69	113.97	8 22 18	1459.8	-12.17	24.86
90.00	17 10 30	5347.34	27.67	243.75	49.28	83.71	18 39 37	4747.3	26.51	235.28
100.00	9 4 16	1813.69	-16.82	13.21	42.08	115.08	9 34 30	1213.7	-13.30	6.19
100.00	18 36 53	5068.70	29.06	223.07	49.09	82.68	20 1 22	4468.7	27.74	214.52
110.00	10 1 2	1635.90	-20.20	357.93	40.29	118.18	10 28 18	1035.9	-16.28	351.01
110.00	19 56 36	4819.26	32.81	203.46	48.42	79.80	21 16 55	4219.3	31.05	194.68

DIFFERENTIAL CORRECTIONS
TDE .5728 TRA-1.2049 TC3 .0051 BAU .0591
RDE -.4194 RRA -.2207 RC3 .1125 FAU .02090
FDE -.5393 FRA .6989 FC3 -.4611 BSP 3693
BDE .7099 BRA 1.2250 BC3 .1126 FSP -213

MID-COURSE EXECUTION ACCURACY
SGT 1236.2 SGR 457.2 SG3 86.3
RRT .0523 RRF -.0557 RTF -.8007
SGB 1318.0 R23 -.0071 R13 -.8008
SG1 1236.4 SG2 456.5 THA 1.28

ORBIT DETERMINATION ACCURACY
ST 622.3 SR 388.5 SS 591.8
CRT -.7457 CRS -.8593 CST .9807
LSA 913.5 MSA 231.5 SSA 16.0
EL1 696.2 EL2 231.4 ALF 151.62

LAUNCH DATE MAY 28 1967 FLIGHT TIME 92.00 ARRIVAL DATE AUG 28 1967

DISTANCE 215.755

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 24.126 GAL 5.60 AZL 93.30 HCA 86.85 SMA 113.54 ECC .34752 INC 3.3049 V1 29.390
RP 108.89 LAP -3.30 LOP 332.84 VP 35.619 GAP -20.21 AZP 90.18 TAL 169.30 TAP 256.14 RCA 74.08 APO 153.00 V2 34.801
RC 42.956 GL -13.43 GP 1.67 ZAL 69.80 ZAP 6.64 ETS 194.90 ZAE 166.39 ETE 80.53 ZAC 105.17 ETC 15.65 CLP 6.43

PLANETOCENTRIC CONIC
C3 35.507 VHL 5.959 DLA -11.04 RAL 171.66 RAD 6568.4 VEL 12.525 PTH 2.27 VHP 12.297 DPA 12.76 RAP 162.79 ECC 1.5843

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 53 2	2006.53	-14.04	28.72	40.54	114.85	8 26 29	1406.5	-10.57	21.76
90.00	17 1 42	5350.02	27.69	243.95	47.28	83.80	18 30 52	4750.0	26.54	235.47
100.00	9 8 50	1761.96	-15.30	10.12	39.92	116.00	9 38 12	1162.0	-11.68	3.20
100.00	18 28 35	5069.82	29.07	223.15	47.09	82.72	19 53 5	4469.8	27.76	214.60
110.00	10 4 32	1587.55	-18.62	355.07	38.10	119.20	10 31 0	987.5	-14.59	348.28
110.00	19 49 23	4817.00	32.78	203.29	46.42	79.71	21 9 40	4217.0	31.01	194.51

DIFFERENTIAL CORRECTIONS
TDE .5780 TRA-1.1826 TC3 .0371 BAU .0620
RDE -.3925 RRA -.2070 RC3 .1252 FAU .02193
FDE -.5730 FRA .7152 FC3 -.5348 BSP 3882
BDE .6987 BRA 1.2006 BC3 .1306 FSP -237

MID-COURSE EXECUTION ACCURACY
SGT 1285.8 SGR 453.7 SG3 94.7
RRT .0546 RRF -.0589 RTF -.8135
SGB 1363.5 R23 -.0082 R13 -.8136
SG1 1286.0 SG2 452.9 THA 1.26

ORBIT DETERMINATION ACCURACY
ST 655.5 SR 382.3 SS 626.8
CRT -.7526 CRS -.8648 CST .9807
LSA 957.2 MSA 228.7 SSA 16.2
EL1 723.8 EL2 228.0 ALF 153.47

LAUNCH DATE MAY 28 1967 FLIGHT TIME 94.00 ARRIVAL DATE AUG 30 1967

HELIOCENTRIC CONIC DISTANCE 222.421

```
RL  151.59 LAL    .00 LOL 246.00 VL  24.390 GAL   5.25 AZL  93.34 HCA  90.01 SMA 114.80 ECC .33202 INC 3.3387 V1  29.390
RP  108.87 LAP  -3.34 LOP 336.01 VP  35.803 GAP -19.17 AZP  90.00 TAL 169.26 TAP 259.27 RCA  76.68 APO 152.91 V2  34.806
RC  42.841 GL  -14.44 GP    1.77 ZAL  70.06 ZAP   5.17 ETS 200.29 ZAE 165.43 ETE  69.63 ZAC 103.60 ETC  15.42 CLP   4.86
```

PLANETOCENTRIC CONIC

```
C3  32.192 VHL  5.674 DLA -11.89 RAL 171.09 RAD 6568.3 VEL 12.392 PTH   2.24 VHP 11.706 DPA  12.25 RAP 164.34 ECC 1.5298
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 57 49	1953.42	-12.50	25.58	38.38	115.62	8 30 23	1353.4	-8.95	18.70
90.00	16 52 21	5353.69	27.71	244.21	45.22	83.93	18 21 35	4753.7	26.58	235.73
100.00	9 13 7	1710.49	-13.74	7.09	37.75	116.81	9 41 37	1110.5	-10.03	.26
100.00	18 19 45	5071.85	29.09	223.30	45.03	82.80	19 44 17	4471.9	27.79	214.74
110.00	10 7 42	1539.56	-17.01	352.29	35.91	120.11	10 33 21	939.6	-12.88	345.61
110.00	19 41 39	4815.55	32.76	203.18	44.37	79.64	21 1 55	4215.5	30.99	194.41

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .5839 TRA-1.1590 TC3  .0749 BAU  .0679   SGT 1336.2 SGR  449.3 SG3  103.9      ST   690.2 SR   375.0 SS   664.4
ROE -.3665 RRA -.1939 RC3  .1389 FAU .02308   RRT  .0575 RRF -.0629 RTF -.8255     CRT -.7599 CRS -.8703 CST  .9808
FOE -.6103 FRA  .7317 FC3 -.6206 BSP   4063   SGB 1409.7 R23 -.0094 R13 -.8256     LSA 1003.8 MSA  225.2 SSA   16.4
BOE  .6894 BRA 1.1752 BC3  .1578 FSP   -263   SG1 1336.5 SG2  448.5 THA   1.25     EL1  753.1 EL2  223.4 ALF 155.24
```

LAUNCH DATE MAY 28 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 1 1967

HELIOCENTRIC CONIC DISTANCE 229.104

```
RL  151.59 LAL    .00 LOL 246.00 VL  24.635 GAL   4.91 AZL  93.37 HCA  93.18 SMA 116.00 ECC .31745 INC 3.3726 V1  29.390
RP  108.86 LAP  -3.37 LOP 339.18 VP  35.976 GAP -18.18 AZP  89.81 TAL 169.27 TAP 262.44 RCA  79.18 APO 152.83 V2  34.812
RC  42.900 GL  -15.48 GP    1.88 ZAL  70.41 ZAP   3.77 ETS 210.16 ZAE 164.08 ETE  60.34 ZAC 102.06 ETC  15.21 CLP   3.26
```

PLANETOCENTRIC CONIC

```
C3  29.259 VHL  5.409 DLA -12.74 RAL 170.41 RAD 6568.2 VEL 12.273 PTH   2.21 VHP 11.137 DPA  11.76 RAP 165.87 ECC 1.4815
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 2 20	1900.63	-10.92	22.50	36.21	116.29	8 34 1	1300.6	-7.30	15.69
90.00	16 42 27	5358.51	27.75	244.56	43.10	84.10	18 11 45	4758.5	26.64	236.07
100.00	9 17 6	1659.42	-12.15	4.13	35.57	117.52	9 44 45	1059.4	-8.37	357.38
100.00	18 10 22	5074.96	29.12	223.53	42.92	82.91	19 34 57	4475.0	27.83	214.96
110.00	10 10 31	1492.10	-15.36	349.59	33.72	120.92	10 35 23	892.1	-11.15	343.02
110.00	19 33 26	4815.04	32.75	203.14	42.27	79.62	20 53 41	4215.0	30.98	194.37

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .5910 TRA-1.1336 TC3  .1196 BAU  .0761   SGT 1387.2 SGR  444.0 SG3  114.1      ST   726.9 SR   366.5 SS   704.9
ROE -.3415 RRA -.1814 RC3  .1534 FAU .02436   RRT  .0610 RRF -.0678 RTF -.8368     CRT -.7679 CRS -.8760 CST  .9810
FOE -.6518 FRA  .7482 FC3 -.7207 BSP   4252   SGB 1456.5 R23 -.0110 R13 -.8369     LSA 1053.8 MSA  221.0 SSA   16.5
BOE  .6826 BRA 1.1481 BC3  .1945 FSP   -293   SG1 1387.4 SG2  443.1 THA   1.24     EL1  784.4 EL2  217.5 ALF 156.96
```

LAUNCH DATE MAY 28 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 3 1967

HELIOCENTRIC CONIC DISTANCE 235.801

```
RL  151.59 LAL    .00 LOL 246.00 VL  24.861 GAL   4.59 AZL  93.41 HCA  96.34 SMA 117.15 ECC .30378 INC 3.4066 V1  29.390
RP  108.84 LAP  -3.39 LOP 342.35 VP  36.138 GAP -17.22 AZP  89.62 TAL 169.33 TAP 265.67 RCA  81.56 APO 152.74 V2  34.819
RC  43.133 GL  -16.57 GP    2.01 ZAL  70.87 ZAP   2.59 ETS 230.83 ZAE 162.46 ETE  52.70 ZAC 100.53 ETC  15.01 CLP   1.64
```

PLANETOCENTRIC CONIC

```
C3  26.668 VHL  5.164 DLA -13.59 RAL 169.63 RAD 6568.1 VEL 12.167 PTH   2.18 VHP 10.589 DPA  11.28 RAP 167.37 ECC 1.4389
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 6 36	1848.29	-9.33	19.48	34.04	116.86	8 37 24	1248.3	-5.65	12.73
90.00	16 31 58	5364.62	27.79	245.00	40.94	84.32	18 1 22	4764.6	26.71	236.50
100.00	9 20 48	1608.72	-10.55	1.24	33.40	118.13	9 47 37	1008.7	-6.70	354.56
100.00	18 0 26	5079.28	29.15	223.85	40.77	83.08	19 25 6	4479.3	27.89	215.27
110.00	10 13 1	1445.31	-13.71	346.97	31.54	121.62	10 37 6	845.3	-9.43	340.49
110.00	19 24 42	4815.60	32.76	203.18	40.13	79.65	20 44 58	4215.6	30.99	194.41

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .5988 TRA-1.1069 TC3  .1710 BAU  .0857   SGT 1438.4 SGR  437.9 SG3  125.5      ST   764.9 SR   356.9 SS   748.6
ROE -.3173 RRA -.1695 RC3  .1688 FAU .02578   RRT  .0656 RRF -.0737 RTF -.8474     CRT -.7762 CRS -.8816 CST  .9812
FOE -.6983 FRA  .7650 FC3 -.8370 BSP   4435   SGB 1503.6 R23 -.0125 R13 -.8475     LSA 1107.2 MSA  216.3 SSA   16.7
BOE  .6777 BRA 1.1198 BC3  .2403 FSP   -326   SG1 1438.7 SG2  436.9 THA   1.26     EL1  817.4 EL2  210.6 ALF 158.60
```

LAUNCH DATE MAY 28 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 5 1967

HELIOCENTRIC CONIC DISTANCE 242.508

```
RL  151.59 LAL    .00 LOL 246.00 VL  25.070 GAL   4.28 AZL  93.44 HCA  99.51 SMA 118.24 ECC .29099 INC 3.4411 V1  29.390
RP  108.81 LAP  -3.39 LOP 345.53 VP  36.289 GAP -16.30 AZP  89.43 TAL 169.43 TAP 268.94 RCA  83.83 APO 152.65 V2  34.826
RC  43.534 GL  -17.69 GP    2.15 ZAL  71.42 ZAP   2.15 ETS 270.00 ZAE 160.68 ETE  46.55 ZAC  99.03 ETC  14.82 CLP   -.01
```

PLANETOCENTRIC CONIC

```
C3  24.382 VHL  4.938 DLA -14.44 RAL 168.75 RAD 6568.0 VEL 12.073 PTH   2.16 VHP 10.061 DPA  10.82 RAP 168.85 ECC 1.4013
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 10 37	1796.52	-7.72	16.53	31.87	117.33	8 40 33	1196.5	-4.00	9.83
90.00	16 20 55	5372.16	27.84	245.55	38.75	84.59	17 50 27	4772.2	26.80	237.04
100.00	9 24 14	1558.98	-8.93	358.42	31.23	118.65	9 50 13	959.0	-5.04	351.79
100.00	17 49 59	5084.93	29.20	224.26	38.58	83.29	19 14 44	4484.9	27.96	215.67
110.00	10 15 12	1399.33	-12.06	344.44	29.36	122.23	10 38 31	799.3	-7.71	338.03
110.00	19 15 30	4817.34	32.78	203.31	37.96	79.72	20 35 47	4217.3	31.02	194.54

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .6077 TRA-1.0791 TC3  .2296 BAU  .0961   SGT 1490.1 SGR  431.0 SG3  138.2      ST   804.8 SR   346.0 SS   795.8
ROE -.2941 RRA -.1583 RC3  .1850 FAU .02738   RRT  .0716 RRF -.0812 RTF -.8574     CRT -.7847 CRS -.8871 CST  .9816
FOE -.7504 FRA  .7821 FC3 -.9722 BSP   4611   SGB 1551.2 R23 -.0143 R13 -.8575     LSA 1164.4 MSA  211.2 SSA   16.8
BOE  .6751 BRA 1.0906 BC3  .2949 FSP   -364   SG1 1490.4 SG2  429.8 THA   1.29     EL1  852.3 EL2  202.5 ALF 160.19
```

LAUNCH DATE MAY 28 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 7 1967

DISTANCE 249.221

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 25.264 GAL 3.98 AZL 93.48 HCA 102.68 SMA 119.28 ECC .27905 INC 3.4762 V1 29.390
RP 108.79 LAP -3.39 LOP 348.70 VP 36.431 GAP -15.42 AZP 89.24 TAL 169.58 TAP 272.26 RCA 85.99 APO 152.56 V2 34.834
RC 44.099 GL -18.85 GP 2.31 ZAL 72.06 ZAP 2.87 ETS 306.43 ZAE 158.83 ETE 41.60 ZAC 97.57 ETC 14.65 CLP -1.70

PLANETOCENTRIC CONIC
C3 22.370 VHL 4.730 DLA -15.28 RAL 167.78 RAD 6567.9 VEL 11.990 PTH 2.14 VHP 9.553 DPA 10.38 RAP 170.29 ECC 1.3682

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 14 24	1745.43	-6.12	13.63	29.72	117.70	8 43 30	1145.4	-2.36	6.97
90.00	16 9 19	5381.22	27.89	246.21	36.53	84.92	17 39 0	4781.2	26.90	237.68
100.00	9 27 24	1509.88	-7.32	355.66	29.06	119.06	9 52 34	909.9	-3.39	349.08
100.00	17 39 0	5092.00	29.25	224.78	36.38	83.56	19 3 52	4492.0	28.05	216.18
110.00	10 17 4	1354.31	-10.41	341.99	27.19	122.74	10 39 39	754.3	-6.02	335.65
110.00	19 5 49	4820.33	32.82	203.54	35.77	79.85	20 26 10	4220.3	31.07	194.75

DIFFERENTIAL CORRECTIONS
TDE .6181 TRA-1.0488 TC3 .2970 BAU .1074
RDE -.2717 RRA -.1478 RC3 .2019 FAU .02918
FDE -.8092 FRA .7993 FC3-1.1293 BSP 4811
BDE .6751 BRA 1.0592 BC3 .3591 FSP -406

MID-COURSE EXECUTION ACCURACY
SGT 1540.9 SGR 423.3 SG3 152.4
RRT .0792 RRF -.0907 RTF -.8671
SGB 1598.0 R23 -.0165 R13 -.8672
SG1 1541.3 SG2 421.9 THA 1.35

ORBIT DETERMINATION ACCURACY
ST 846.6 SR 333.8 SS 846.8
CRT -.7938 CRS -.8924 CST .9822
LSA 1225.9 MSA 205.5 SSA 16.8
EL1 889.3 EL2 193.3 ALF 161.73

LAUNCH DATE MAY 28 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 9 1967

DISTANCE 255.939

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 25.442 GAL 3.69 AZL 93.51 HCA 105.85 SMA 120.25 ECC .26793 INC 3.5123 V1 29.390
RP 108.76 LAP -3.38 LOP 351.88 VP 36.562 GAP -14.56 AZP 89.04 TAL 169.78 TAP 275.63 RCA 88.04 APO 152.47 V2 34.842
RC 44.820 GL -20.04 GP 2.48 ZAL 72.78 ZAP 4.24 ETS 324.10 ZAE 157.00 ETE 37.62 ZAC 96.13 ETC 14.48 CLP -3.44

PLANETOCENTRIC CONIC
C3 20.604 VHL 4.539 DLA -16.12 RAL 166.71 RAD 6567.8 VEL 11.916 PTH 2.12 VHP 9.064 DPA 9.98 RAP 171.70 ECC 1.3391

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 18 0	1695.12	-4.52	10.80	27.58	117.98	8 46 16	1095.1	-.74	4.16
90.00	15 57 11	5391.89	27.96	246.98	34.31	85.30	17 27 3	4791.9	27.01	238.44
100.00	9 30 21	1461.68	-5.71	352.98	26.92	119.39	9 54 43	861.7	-1.76	346.43
100.00	17 27 31	5100.56	29.32	225.41	34.17	83.88	18 52 32	4500.6	28.16	216.79
110.00	10 18 39	1310.37	-8.78	339.63	25.04	123.17	10 40 30	710.4	-4.35	333.34
110.00	18 55 43	4824.64	32.87	203.87	33.58	80.04	20 16 7	4224.6	31.15	195.07

DIFFERENTIAL CORRECTIONS
TDE .6280 TRA-1.0181 TC3 .3688 BAU .1182
RDE -.2500 RRA -.1380 RC3 .2195 FAU .03118
FDE -.8753 FRA .8171 FC3-1.3103 BSP 4987
BDE .6759 BRA 1.0274 BC3 .4292 FSP -452

MID-COURSE EXECUTION ACCURACY
SGT 1590.5 SGR 414.9 SG3 168.2
RRT .0895 RRF -.1028 RTF -.8755
SGB 1643.7 R23 -.0188 R13 -.8756
SG1 1591.0 SG2 413.1 THA 1.43

ORBIT DETERMINATION ACCURACY
ST 888.5 SR 320.3 SS 901.7
CRT -.8021 CRS -.8974 CST .9828
LSA 1290.3 MSA 200.0 SSA 16.9
EL1 926.5 EL2 183.4 ALF 163.20

LAUNCH DATE MAY 28 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 11 1967

DISTANCE 262.657

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 25.607 GAL 3.43 AZL 93.55 HCA 109.02 SMA 121.18 ECC .25759 INC 3.5495 V1 29.390
RP 108.74 LAP -3.36 LOP 355.06 VP 36.686 GAP -13.74 AZP 88.84 TAL 170.01 TAP 279.04 RCA 89.96 APO 152.39 V2 34.851
RC 45.690 GL -21.25 GP 2.69 ZAL 73.58 ZAP 5.88 ETS 332.70 ZAE 155.24 ETE 34.41 ZAC 94.75 ETC 14.32 CLP -5.23

PLANETOCENTRIC CONIC
C3 19.058 VHL 4.366 DLA -16.96 RAL 165.55 RAD 6567.8 VEL 11.851 PTH 2.10 VHP 8.593 DPA 9.61 RAP 173.06 ECC 1.3136

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 21 27	1645.69	-2.93	8.03	25.47	118.18	8 48 52	1045.7	.86	1.40
90.00	15 44 33	5404.25	28.02	247.88	32.10	85.75	17 14 37	4804.2	27.14	239.33
100.00	9 33 6	1414.49	-4.13	350.37	24.80	119.63	9 56 40	814.5	-.16	343.84
100.00	17 15 35	5110.68	29.39	226.15	31.96	84.27	18 40 46	4510.7	28.28	217.52
110.00	10 19 58	1267.64	-7.18	337.35	22.92	123.51	10 41 6	667.6	-2.73	331.10
110.00	18 45 12	4830.30	32.94	204.29	31.40	80.28	20 5 42	4230.3	31.24	195.48

DIFFERENTIAL CORRECTIONS
TDE .6394 TRA -.9857 TC3 .4480 BAU .1292
RDE -.2290 RRA -.1289 RC3 .2377 FAU .03344
FDE -.9504 FRA .8350 FC3-1.5191 BSP 5161
BDE .6792 BRA .9940 BC3 .5071 FSP -505

MID-COURSE EXECUTION ACCURACY
SGT 1639.0 SGR 405.8 SG3 185.9
RRT .1025 RRF -.1180 RTF -.8835
SGB 1688.5 R23 -.0218 R13 -.8837
SG1 1639.6 SG2 403.5 THA 1.55

ORBIT DETERMINATION ACCURACY
ST 932.2 SR 305.2 SS 961.1
CRT -.8104 CRS -.9019 CST .9834
LSA 1359.4 MSA 194.2 SSA 16.8
EL1 965.6 EL2 172.6 ALF 164.64

LAUNCH DATE MAY 28 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 13 1967

DISTANCE 269.373

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 25.758 GAL 3.17 AZL 93.59 HCA 112.20 SMA 122.04 ECC .24801 INC 3.5882 V1 29.390
RP 108.71 LAP -3.32 LOP 358.23 VP 36.800 GAP -12.94 AZP 88.64 TAL 170.29 TAP 282.48 RCA 91.77 APO 152.31 V2 34.860
RC 46.700 GL -22.49 GP 2.91 ZAL 74.44 ZAP 7.66 ETS 337.48 ZAE 153.59 ETE 31.82 ZAC 93.41 ETC 14.17 CLP -7.08

PLANETOCENTRIC CONIC
C3 17.708 VHL 4.208 DLA -17.78 RAL 164.32 RAD 6567.7 VEL 11.794 PTH 2.09 VHP 8.141 DPA 9.29 RAP 174.38 ECC 1.2914

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 24 45	1597.19	-1.37	5.33	23.39	118.29	8 51 23	997.2	2.42	358.70
90.00	15 31 26	5418.35	28.09	248.91	29.89	86.26	17 1 44	4818.3	27.27	240.33
100.00	9 35 40	1368.38	-2.58	347.84	22.72	119.79	9 58 28	768.4	1.41	341.31
100.00	17 3 13	5122.39	29.46	227.01	29.77	84.71	18 28 35	4522.4	28.42	218.36
110.00	10 21 3	1226.20	-5.62	335.16	20.83	123.77	10 41 29	626.2	-1.14	328.94
110.00	18 34 19	4837.34	33.01	204.83	29.23	80.59	19 54 56	4237.3	31.36	195.99

DIFFERENTIAL CORRECTIONS
TDE .6518 TRA -.9522 TC3 .5330 BAU .1400
RDE -.2085 RRA -.1206 RC3 .2565 FAU .03599
FDE-1.0359 FRA .8535 FC3-1.7595 BSP 5334
BDE .6843 BRA .9598 BC3 .5915 FSP -565

MID-COURSE EXECUTION ACCURACY
SGT 1685.9 SGR 396.1 SG3 205.8
RRT .1193 RRF -.1375 RTF -.8910
SGB 1731.8 R23 -.0253 R13 -.8912
SG1 1686.6 SG2 393.1 THA 1.70

ORBIT DETERMINATION ACCURACY
ST 977.0 SR 288.6 SS 1025.5
CRT -.8181 CRS -.9059 CST .9842
LSA 1433.1 MSA 188.4 SSA 16.8
EL1 1005.9 EL2 161.2 ALF 166.05

LAUNCH DATE MAY 28 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 15 1967

HELIOCENTRIC CONIC DISTANCE 276.086

RL 151.59 LAL .00 LOL 246.00 VL 25.897 GAL 2.93 AZL 93.63 HCA 115.37 SMA 122.85 ECC .23916 INC 3.6286 V1 29.390
RP 108.68 LAP -3.28 LOP 1.42 VP 36.907 GAP -12.17 AZP 88.44 TAL 170.59 TAP 285.97 RCA 93.47 APO 152.23 V2 34.870
RC 47.841 GL -23.74 GP 3.17 ZAL 75.36 ZAP 9.54 ETS 340.40 ZAE 152.09 ETE 29.74 ZAC 92.13 ETC 14.02 CLP -9.00

PLANETOCENTRIC CONIC

C3 16.535 VHL 4.066 DLA -18.59 RAL 163.03 RAD 6567.7 VEL 11.744 PTH 2.07 VHP 7.707 DPA 9.02 RAP 175.65 ECC 1.2721

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 28 0	1549.66	.17	2.68	21.35	118.32	8 53 49	949.7	3.95	356.04
90.00	15 17 52	5434.25	28.15	250.06	27.72	86.83	16 48 26	4834.2	27.42	241.48
100.00	9 38 7	1323.41	-1.05	345.37	20.67	119.88	10 0 10	723.4	2.93	338.84
100.00	16 50 26	5135.73	29.54	228.00	27.61	85.23	18 16 2	4535.7	28.57	219.33
110.00	10 21 55	1186.13	-4.10	333.06	18.77	123.97	10 41 41	586.1	.39	326.85
110.00	18 23 7	4845.77	33.11	205.47	27.10	80.96	19 43 53	4245.8	31.50	196.61

DIFFERENTIAL CORRECTIONS
TDE .6659 TRA -.9159 TC3 .6253 BAU .1511
RDE -.1883 RRA -.1131 RC3 .2759 FAU .03889
FDE-1.1339 FRA .8716 FC3-2.0359 BSP 5541
BDE .6920 BRA .9229 BC3 .6834 FSP -635

MID-COURSE EXECUTION ACCURACY
SGT 1730.0 SGR 386.0 SG3 228.1
RRT .1408 RRF -.1622 RTF -.8986
SGB 1772.6 R23 -.0295 R13 -.8989
SG1 1730.9 SG2 382.0 THA 1.89

ORBIT DETERMINATION ACCURACY
ST 1023.5 SR 270.2 SS 1095.4
CRT -.8255 CRS -.9090 CST .9851
LSA 1512.3 MSA 182.3 SSA 16.6
EL1 1048.0 EL2 148.9 ALF 167.45

LAUNCH DATE MAY 28 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 17 1967

HELIOCENTRIC CONIC DISTANCE 282.792

RL 151.59 LAL .00 LOL 246.00 VL 26.024 GAL 2.70 AZL 93.67 HCA 118.55 SMA 123.61 ECC .23101 INC 3.6714 V1 29.390
RP 108.64 LAP -3.22 LOP - 4.60 VP 37.006 GAP -11.43 AZP 88.24 TAL 170.93 TAP 289.48 RCA 95.05 APO 152.16 V2 34.881
RC 49.103 GL -24.99 GP 3.47 ZAL 76.32 ZAP 11.53 ETS 342.29 ZAE 150.76 ETE 28.09 ZAC 90.92 ETC 13.88 CLP -11.00

PLANETOCENTRIC CONIC

C3 15.520 VHL 3.940 DLA -19.39 RAL 161.68 RAD 6567.6 VEL 11.701 PTH 2.06 VHP 7.291 DPA 8.81 RAP 176.86 ECC 1.2554

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 31 14	1503.08	1.67	.08	19.37	118.27	8 56 17	903.1	5.44	353.42
90.00	15 3 53	5452.03	28.21	251.36	25.58	87.48	16 34 45	4852.0	27.57	242.76
100.00	9 40 29	1279.58	.43	342.96	18.68	119.89	10 1 49	679.6	4.41	336.43
100.00	16 37 19	5150.75	29.62	229.11	25.49	85.81	18 3 10	4550.8	28.73	220.42
110.00	10 22 38	1147.49	-2.63	331.04	16.77	124.09	10 41 46	547.5	1.87	324.83
110.00	18 11 39	4855.62	33.21	206.22	25.02	81.39	19 32 35	4255.6	31.66	197.33

DIFFERENTIAL CORRECTIONS
TDE .6788 TRA -.8805 TC3 .7175 BAU .1611
RDE -.1683 RRA -.1064 RC3 .2961 FAU .04214
FDE-1.2451 FRA .8910 FC3-2.3505 BSP 5692
BDE .6994 BRA .8869 BC3 .7762 FSP -712

MID-COURSE EXECUTION ACCURACY
SGT 1771.2 SGR 375.8 SG3 253.3
RRT .1696 RRF -.1943 RTF -.9050
SGB 1810.7 R23 -.0344 R13 -.9053
SG1 1772.4 SG2 370.1 THA 2.15

ORBIT DETERMINATION ACCURACY
ST 1068.1 SR 249.8 SS 1170.4
CRT -.8303 CRS -.9106 CST .9859
LSA 1594.2 MSA 177.1 SSA 16.4
EL1 1088.4 EL2 136.6 ALF 168.83

LAUNCH DATE MAY 28 1967 FLIGHT TIME 114.00 ARRIVAL DATE SEP 19 1967

HELIOCENTRIC CONIC DISTANCE 289.489

RL 151.59 LAL .00 LOL 246.00 VL 26.141 GAL 2.49 AZL 93.72 HCA 121.73 SMA 124.31 ECC .22352 INC 3.7167 V1 29.390
RP 108.61 LAP -3.16 LOP 7.78 VP 37.098 GAP -10.71 AZP 88.04 TAL 171.28 TAP 293.01 RCA 96.53 APO 152.10 V2 34.891
RC 50.476 GL -26.25 GP 3.81 ZAL 77.32 ZAP 13.63 ETS 343.57 ZAE 149.63 ETE 26.81 ZAC 89.78 ETC 13.75 CLP -13.09

PLANETOCENTRIC CONIC

C3 14.647 VHL 3.827 DLA -20.18 RAL 160.30 RAD 6567.6 VEL 11.663 PTH 2.05 VHP 6.892 DPA 8.68 RAP 178.01 ECC 1.2411

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 34 32	1457.38	3.14	357.52	17.45	118.16	8 58 49	857.4	6.88	350.84
90.00	14 49 31	5471.78	28.26	252.81	23.51	88.20	16 20 43	4871.8	27.72	244.18
100.00	9 42 51	1236.88	1.88	340.62	16.75	119.84	10 3 28	636.9	5.84	334.07
100.00	16 23 53	5167.51	29.70	230.35	23.43	86.45	17 50 0	4567.5	28.89	221.63
110.00	10 23 15	1110.27	-1.20	329.09	14.82	124.16	10 41 46	510.3	3.29	322.89
110.00	17 59 58	4866.90	33.32	207.08	23.00	81.89	19 21 5	4266.9	31.84	198.16

DIFFERENTIAL CORRECTIONS
TDE .6917 TRA -.8447 TC3 .8081 BAU .1700
RDE -.1481 RRA -.1005 RC3 .3173 FAU .04578
FDE-1.3725 FRA .9116 FC3-2.7060 BSP 5823
BDE .7074 BRA .8507 BC3 .8681 FSP -799

MID-COURSE EXECUTION ACCURACY
SGT 1808.3 SGR 365.8 SG3 281.6
RRT .2063 RRF -.2350 RTF -.9106
SGB 1845.0 R23 -.0404 R13 -.9110
SG1 1810.0 SG2 357.6 THA 2.49

ORBIT DETERMINATION ACCURACY
ST 1111.8 SR 227.0 SS 1251.4
CRT -.8323 CRS -.9102 CST .9867
LSA 1680.3 MSA 172.4 SSA 16.0
EL1 1127.9 EL2 124.1 ALF 170.23

LAUNCH DATE MAY 28 1967 FLIGHT TIME 116.00 ARRIVAL DATE SEP 21 1967

HELIOCENTRIC CONIC DISTANCE 296.177

RL 151.59 LAL .00 LOL 246.00 VL 26.247 GAL 2.29 AZL 93.77 HCA 124.91 SMA 124.96 ECC .21666 INC 3.7654 V1 29.390
RP 108.58 LAP -3.09 LOP 10.97 VP 37.184 GAP -10.02 AZP 87.84 TAL 171.66 TAP 296.57 RCA 97.89 APO 152.04 V2 34.903
RC 51.950 GL -27.51 GP 4.20 ZAL 78.33 ZAP 15.84 ETS 344.44 ZAE 148.70 ETE 25.88 ZAC 88.73 ETC 13.62 CLP -15.28

PLANETOCENTRIC CONIC

C3 13.902 VHL 3.729 DLA -20.95 RAL 158.88 RAD 6567.5 VEL 11.631 PTH 2.04 VHP 6.511 DPA 8.63 RAP 179.08 ECC 1.2288

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 38 0	1412.42	4.58	355.01	15.61	117.97	9 1 32	812.4	8.29	348.29
90.00	14 34 46	5493.67	28.30	254.41	21.50	89.00	16 6 19	4893.7	27.86	245.77
100.00	9 45 18	1195.21	3.29	338.33	14.90	119.73	10 5 13	595.2	7.22	331.75
100.00	16 10 8	5186.11	29.77	231.72	21.44	87.18	17 36 34	4586.1	29.06	222.99
110.00	10 23 50	1074.44	.17	327.22	12.95	124.18	10 41 45	474.4	4.65	321.01
110.00	17 48 6	4879.65	33.44	208.06	21.05	82.46	19 9 25	4279.7	32.04	199.11

DIFFERENTIAL CORRECTIONS
TDE .7032 TRA -.8087 TC3 .8938 BAU .1777
RDE -.1275 RRA -.0955 RC3 .3398 FAU .04985
FDE-1.5177 FRA .9332 FC3-3.1047 BSP 5927
BDE .7146 BRA .8143 BC3 .9562 FSP -897

MID-COURSE EXECUTION ACCURACY
SGT 1839.2 SGR 356.7 SG3 313.4
RRT .2533 RRF -.2866 RTF -.9154
SGB 1873.5 R23 -.0478 R13 -.9159
SG1 1841.5 SG2 344.7 THA 2.91

ORBIT DETERMINATION ACCURACY
ST 1152.1 SR 201.7 SS 1337.3
CRT -.8296 CRS -.9064 CST .9873
LSA 1769.0 MSA 168.5 SSA 15.6
EL1 1164.3 EL2 111.4 ALF 171.66

LAUNCH DATE MAY 28 1967 FLIGHT TIME 118.00 ARRIVAL DATE SEP 23 1967

DISTANCE 302.853

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.343 GAL 2.11 AZL 93.82 HCA 128.09 SMA 125.56 ECC .21041 INC 3.8180 V1 29.390
RP 108.54 LAP -3.00 LOP 14.15 VP 37.263 GAP -9.35 AZP 87.64 TAL 172.04 TAP 300.13 RCA 99.14 APO 151.98 V2 34.914
RC 53.515 GL -28.76 GP 4.65 ZAL 79.34 ZAP 18.17 ETS 345.03 ZAE 147.98 ETE 25.28 ZAC 87.77 ETC 13.49 CLP -17.59

PLANETOCENTRIC CONIC
C3 13.272 VHL 3.643 DLA -21.72 RAL 157.45 RAD 6567.5 VEL 11.604 PTH 2.03 VHP 6.147 DPA 8.69 RAP 180.08 ECC 1.2184

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 41 46	1367.95	5.99	352.50	13.87	117.73	9 4 34	767.9	9.66	345.74
90.00	14 19 36	5517.92	28.32	256.18	19.57	89.89	15 51 34	4917.9	28.00	247.53
100.00	9 47 56	1154.40	4.67	336.08	13.14	119.56	10 7 11	554.4	8.57	329.46
100.00	15 56 7	5206.71	29.83	233.25	19.54	87.98	17 22 53	4606.7	29.23	224.50
110.00	10 24 28	1039.90	1.49	325.42	11.16	124.15	10 41 48	439.9	5.96	319.19
110.00	17 36 5	4893.97	33.56	209.16	19.20	83.10	18 57 38	4294.0	-32.24	200.17

DIFFERENTIAL CORRECTIONS
TDE .7140 TRA -.7721 TC3 .9749 BAU .1847
RDE -.1060 RRA -.0913 RC3 .3643 FAU .05448
FDE-1.6847 FRA .9557 FC3-3.5535 BSP 6011
BDE .7218 BRA .7775 BC3 1.0408 FSP -1007

MID-COURSE EXECUTION ACCURACY
SGT 1863.9 SGR 349.5 SG3 349.3
RRT .3125 RRF -.3510 RTF -.9197
SGB 1896.3 R23 -.0571 R13 -.9203
SG1 1867.2 SG2 331.4 THA 3.46

ORBIT DETERMINATION ACCURACY
ST 1189.6 SR 173.2 SS 1431.1
CRT -.8193 CRS -.8966 CST .9880
LSA 1861.6 MSA 165.0 SSA 15.1
EL1 1198.1 EL2 98.6 ALF 173.15

LAUNCH DATE MAY 28 1967 FLIGHT TIME 120.00 ARRIVAL DATE SEP 25 1967

DISTANCE 309.516

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.431 GAL 1.94 AZL 93.88 HCA 131.28 SMA 126.12 ECC .20472 INC 3.8755 V1 29.390
RP 108.50 LAP -2.91 LOP 17.34 VP 37.336 GAP -8.69 AZP 87.44 TAL 172.43 TAP 303.71 RCA 100.30 APO 151.93 V2 34.926
RC 55.163 GL -30.00 GP 5.19 ZAL 80.35 ZAP 20.66 ETS 345.42 ZAE 147.48 ETE 25.02 ZAC 86.91 ETC 13.37 CLP -20.02

PLANETOCENTRIC CONIC
C3 12.747 VHL 3.570 DLA -22.47 RAL 156.03 RAD 6567.5 VEL 11.582 PTH 2.03 VHP 5.800 DPA 8.86 RAP 180.99 ECC 1.2098

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 46 1	1323.58	7.39	349.99	12.24	117.41	9 8 5	723.6	11.01	343.18
90.00	14 3 58	5544.90	28.30	258.15	17.74	90.88	15 36 23	4944.9	28.13	249.49
100.00	9 50 54	1114.17	6.01	333.85	11.49	119.34	10 9 28	514.2	9.88	327.20
100.00	15 41 46	5229.54	29.87	234.95	17.74	88.87	17 8 56	4629.5	29.40	226.18
110.00	10 25 14	1006.51	2.76	323.68	9.47	124.08	10 42 1	406.5	7.22	317.42
110.00	17 23 55	4909.97	33.69	210.39	17.45	83.82	18 45 45	4310.0	32.46	201.37

DIFFERENTIAL CORRECTIONS
TDE .7258 TRA -.7323 TC3 1.0549 BAU .1918
RDE -.0829 RRA -.0881 RC3 .3918 FAU .05981
FDE-1.8792 FRA .9758 FC3-4.0623 BSP 6150
BDE .7305 BRA .7376 BC3 1.1253 FSP -1140

MID-COURSE EXECUTION ACCURACY
SGT 1881.9 SGR 345.5 SG3 390.1
RRT .3850 RRF -.4293 RTF -.9243
SGB 1913.4 R23 -.0682 R13 -.9252
SG1 1886.7 SG2 318.0 THA 4.16

ORBIT DETERMINATION ACCURACY
ST 1225.9 SR 141.0 SS 1533.1
CRT -.7942 CRS -.8744 CST .9888
LSA 1961.3 MSA 161.2 SSA 14.4
EL1 1231.0 EL2 85.3 ALF 174.76

LAUNCH DATE MAY 28 1967 FLIGHT TIME 122.00 ARRIVAL DATE SEP 27 1967

DISTANCE 316.164

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.510 GAL 1.78 AZL 93.94 HCA 134.47 SMA 126.62 ECC .19957 INC 3.9389 V1 29.390
RP 108.46 LAP -2.81 LOP 20.53 VP 37.403 GAP -8.06 AZP 87.24 TAL 172.81 TAP 307.28 RCA 101.35 APO 151.89 V2 34.938
RC 56.885 GL -31.24 GP 5.81 ZAL 81.32 ZAP 23.30 ETS 345.64 ZAE 147.21 ETE 25.12 ZAC 86.17 ETC 13.25 CLP -22.60

PLANETOCENTRIC CONIC
C3 12.319 VHL 3.510 DLA -23.23 RAL 154.61 RAD 6567.5 VEL 11.563 PTH 2.02 VHP 5.470 DPA 9.18 RAP 181.81 ECC 1.2027

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 50 58	1278.70	8.79	347.44	10.74	117.03	9 12 17	678.7	12.35	340.56
90.00	13 47 45	5575.21	28.25	260.37	16.02	91.99	15 20 40	4975.2	28.23	251.70
100.00	9 54 21	1074.11	7.34	331.62	9.96	119.06	10 12 15	474.1	11.16	324.92
100.00	15 27 3	5255.04	29.89	236.84	16.05	89.87	16 54 38	4655.0	29.55	228.05
110.00	10 26 16	974.02	4.00	321.98	7.90	123.98	10 42 30	374.0	8.43	315.70
110.00	17 11 37	4927.90	33.81	211.78	15.83	84.63	18 33 45	4327.9	32.70	202.72

DIFFERENTIAL CORRECTIONS
TDE .7334 TRA -.6950 TC3 1.1122 BAU .1960
RDE -.0577 RRA -.0858 RC3 .4230 FAU .06564
FDE-2.1010 FRA .9992 FC3-4.6127 BSP 6182
BDE .7356 BRA .7003 BC3 1.1899 FSP -1283

MID-COURSE EXECUTION ACCURACY
SGT 1888.7 SGR 346.8 SG3 435.4
RRT .4694 RRF -.5203 RTF -.9272
SGB 1920.2 R23 -.0831 R13 -.9285
SG1 1895.8 SG2 305.1 THA 5.06

ORBIT DETERMINATION ACCURACY
ST 1253.4 SR 105.0 SS 1641.1
CRT -.7256 CRS -.8160 CST .9893
LSA 2061.5 MSA 158.8 SSA 13.7
EL1 1255.7 EL2 72.1 ALF 176.51

LAUNCH DATE MAY 28 1967 FLIGHT TIME 124.00 ARRIVAL DATE SEP 29 1967

DISTANCE 322.798

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.582 GAL 1.64 AZL 94.01 HCA 137.66 SMA 127.08 ECC .19494 INC 4.0097 V1 29.390
RP 108.43 LAP -2.70 LOP 23.73 VP 37.466 GAP -7.45 AZP 87.03 TAL 173.19 TAP 310.85 RCA 102.31 APO 151.85 V2 34.951
RC 58.673 GL -32.46 GP 6.55 ZAL 82.26 ZAP 26.13 ETS 345.74 ZAE 147.15 ETE 25.62 ZAC 85.57 ETC 13.13 CLP -25.35

PLANETOCENTRIC CONIC
C3 11.982 VHL 3.461 DLA -23.99 RAL 153.23 RAD 6567.5 VEL 11.549 PTH 2.02 VHP 5.159 DPA 9.68 RAP 182.52 ECC 1.1972

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 56 57	1232.42	10.21	344.78	9.38	116.56	9 17 29	632.4	13.70	337.83
90.00	13 30 43	5609.74	28.14	262.89	14.41	93.25	15 4 13	5009.7	28.30	254.23
100.00	9 58 32	1033.62	8.68	329.35	8.57	118.72	10 15 45	433.6	12.44	322.59
100.00	15 11 49	5283.77	29.88	238.98	14.49	90.99	16 39 53	4683.8	29.70	230.18
110.00	10 27 43	942.09	5.21	320.30	6.45	123.83	10 43 25	342.1	9.62	313.99
110.00	16 59 7	4948.07	33.93	213.34	14.34	85.55	18 21 35	4348.1	32.94	204.24

DIFFERENTIAL CORRECTIONS
TDE .7368 TRA -.6582 TC3 1.1529 BAU .1988
RDE -.0293 RRA -.0847 RC3 .4596 FAU .07218
FDE-2.3546 FRA 1.0238 FC3-5.2152 BSP 6180
BDE .7374 BRA .6636 BC3 1.2411 FSP -1444

MID-COURSE EXECUTION ACCURACY
SGT 1883.2 SGR 356.6 SG3 486.2
RRT .5626 RRF -.6201 RTF -.9292
SGB 1916.6 R23 -.1020 R13 -.9310
SG1 1894.1 SG2 293.1 THA 6.23

ORBIT DETERMINATION ACCURACY
ST 1271.2 SR 67.6 SS 1755.6
CRT -.4947 CRS -.6106 CST .9897
LSA 2162.8 MSA 157.3 SSA 12.9
EL1 1271.6 EL2 58.7 ALF 178.49

LAUNCH DATE MAY 28 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 1 1967

HELIOCENTRIC CONIC DISTANCE 329.416

RL 151.59 LAL .00 LOL 246.00 VL 26.646 GAL 1.51 AZL 94.09 HCA 140.85 SMA 127.50 ECC .19078 INC 4.0897 V1 29.390
RP 108.39 LAP -2.58 LOP 26.92 VP 37.523 GAP -6.86 AZP 86.83 TAL 173.55 TAP 314.40 RCA 103.17 APO 151.82 V2 34.964
RC 60.521 GL -33.69 GP 7.44 ZAL 83.15 ZAP 29.17 ETS 345.74 ZAE 147.29 ETE 26.59 ZAC 85.11 ETC 13.01 CLP -28.28

PLANETOCENTRIC CONIC

C3 11.730 VHL 3.425 DLA -24.77 RAL 151.88 RAD 6567.4 VEL 11.538 PTH 2.01 VHP 4.867 DPA 10.37 RAP 183.14 ECC 1.1930

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 4 26	1183.29	11.69	341.93	8.20	115.97	9 24 9	583.3	15.09	334.90
90.00	13 12 27	5649.95	27.95	265.81	12.93	94.71	14 46 37	5049.9	28.31	257.17
100.00	10 3 45	991.80	10.03	326.99	7.34	118.31	10 20 17	391.8	13.74	320.16
100.00	14 55 50	5316.67	29.81	241.42	13.06	92.28	16 24 26	4716.7	29.81	232.62
110.00	10 29 44	910.27	6.42	318.62	5.15	123.65	10 44 55	310.3	10.79	312.27
110.00	16 46 19	4970.97	34.03	215.12	13.01	86.59	18 9 10	4371.0	33.19	205.98

DIFFERENTIAL CORRECTIONS
TOE .7376 TRA -.6211 TC3 1.1727 BAU .2001
RDE .0034 RRA -.0847 RC3 .5032 FAU .07944
FDE-2.6481 FRA 1.0479 FC3-5.8632 BSP 6135
BDE .7376 BRA .6268 BC3 1.2761 FSP -1624

MID-COURSE EXECUTION ACCURACY
SGT 1864.7 SGR 378.4 SG3 542.9
RRT .6555 RRF -.7196 RTF -.9304
SGB 1902.7 R23 -.1262 R13 -.9332
SG1 1881.5 SG2 283.2 THA 7.75

ORBIT DETERMINATION ACCURACY
ST 1281.0 SR 48.3 SS 1879.3
CRT .3785 CRS .2494 CST .9900
LSA 2269.5 MSA 156.1 SSA 12.0
EL1 1281.1 EL2 44.7 ALF .82

LAUNCH DATE MAY 28 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 3 1967

HELIOCENTRIC CONIC DISTANCE 336.016

RL 151.59 LAL .00 LOL 246.00 VL 26.703 GAL 1.40 AZL 94.18 HCA 144.04 SMA 127.87 ECC .18707 INC 4.1816 V1 29.390
RP 108.35 LAP -2.45 LOP 30.12 VP 37.576 GAP -6.28 AZP 86.61 TAL 173.90 TAP 317.94 RCA 103.95 APO 151.79 V2 34.977
RC 62.420 GL -34.92 GP 8.50 ZAL 83.97 ZAP 32.44 ETS 345.66 ZAE 147.62 ETE 28.15 ZAC 84.80 ETC 12.91 CLP -31.42

PLANETOCENTRIC CONIC

C3 11.562 VHL 3.400 DLA -25.58 RAL 150.57 RAD 6567.4 VEL 11.530 PTH 2.01 VHP 4.593 DPA 11.31 RAP 183.64 ECC 1.1903

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 14 13	1128.88	13.29	338.73	7.24	115.23	9 33 2	528.9	16.58	331.60
90.00	12 52 14	5698.35	27.63	269.32	11.57	96.44	14 27 12	5098.3	28.24	260.71
100.00	10 10 28	947.29	11.46	324.46	6.30	117.80	10 26 15	347.3	15.09	317.55
100.00	14 38 40	5355.17	29.68	244.28	11.77	93.77	16 7 56	4755.2	29.88	235.48
110.00	10 32 34	877.92	7.63	316.91	4.01	123.42	10 47 12	277.9	11.98	310.51
110.00	16 33 3	4997.30	34.12	217.17	11.85	87.81	17 56 21	4397.3	33.44	207.99

DIFFERENTIAL CORRECTIONS
TOE .7354 TRA -.5820 TC3 1.1741 BAU .2009
RDE .0424 RRA -.0858 RC3 .5566 FAU .08760
FDE-2.9886 FRA 1.0665 FC3-6.5589 BSP 6103
BDE .7366 BRA .5883 BC3 1.2994 FSP -1834

MID-COURSE EXECUTION ACCURACY
SGT 1831.7 SGR 417.2 SG3 606.2
RRT .7394 RRF -.8088 RTF -.9313
SGB 1878.6 R23 -.1547 R13 -.9355
SG1 1858.1 SG2 276.9 THA 9.78

ORBIT DETERMINATION ACCURACY
ST 1281.6 SR 86.9 SS 2013.4
CRT .9387 CRS .8853 CST .9903
LSA 2383.2 MSA 154.7 SSA 11.1
EL1 1284.2 EL2 29.9 ALF 3.64

LAUNCH DATE MAY 28 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 5 1967

HELIOCENTRIC CONIC DISTANCE 342.599

RL 151.59 LAL .00 LOL 246.00 VL 26.754 GAL 1.30 AZL 94.29 HCA 147.24 SMA 128.20 ECC .18379 INC 4.2890 V1 29.390
RP 108.31 LAP -2.32 LOP 33.31 VP 37.624 GAP -5.72 AZP 86.39 TAL 174.21 TAP 321.45 RCA 104.64 APO 151.77 V2 34.990
RC 64.367 GL -36.18 GP 9.79 ZAL 84.72 ZAP 35.97 ETS 345.51 ZAE 148.08 ETE 30.41 ZAC 84.65 ETC 12.82 CLP -34.78

PLANETOCENTRIC CONIC

C3 11.481 VHL 3.388 DLA -26.44 RAL 149.31 RAD 6567.4 VEL 11.527 PTH 2.01 VHP 4.341 DPA 12.56 RAP 184.04 ECC 1.1890

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 27 50	1064.41	15.13	334.89	6.54	114.22	9 45 35	464.4	18.28	327.63
90.00	12 28 32	5759.89	27.09	273.74	10.30	98.59	14 4 32	5159.9	28.00	265.19
100.00	10 19 25	897.84	13.01	321.61	5.49	117.15	10 34 22	297.8	16.55	314.60
100.00	14 19 39	5401.69	29.42	247.71	10.63	95.56	15 49 41	4801.7	29.88	238.94
110.00	10 36 31	844.14	8.89	315.11	3.05	123.14	10 50 35	244.1	13.20	308.65
110.00	16 19 2	5028.15	34.18	219.58	10.87	89.23	17 42 50	4428.2	33.69	210.37

DIFFERENTIAL CORRECTIONS
TOE .7241 TRA -.5459 TC3 1.1370 BAU .1989
RDE .0896 RRA -.0884 RC3 .6211 FAU .09619
FDE-3.3719 FRA 1.0873 FC3-7.2530 BSP 5954
BDE .7296 BRA .5531 BC3 1.2956 FSP -2051

MID-COURSE EXECUTION ACCURACY
SGT 1776.5 SGR 477.5 SG3 674.2
RRT .8040 RRF -.8792 RTF -.9296
SGB 1839.6 R23 -.1901 R13 -.9365
SG1 1818.5 SG2 277.4 THA 12.49

ORBIT DETERMINATION ACCURACY
ST 1263.1 SR 160.1 SS 2151.9
CRT .9956 CRS .9763 CST .9902
LSA 2495.5 MSA 154.7 SSA 10.1
EL1 1273.1 EL2 14.9 ALF 7.19

LAUNCH DATE MAY 28 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 7 1967

HELIOCENTRIC CONIC DISTANCE 349.164

RL 151.59 LAL .00 LOL 246.00 VL 26.798 GAL 1.21 AZL 94.42 HCA 150.44 SMA 128.50 ECC .18091 INC 4.4168 V1 29.390
RP 108.27 LAP -2.18 LOP 36.51 VP 37.668 GAP -5.17 AZP 86.16 TAL 174.49 TAP 324.93 RCA 105.25 APO 151.75 V2 35.003
RC 66.356 GL -37.49 GP 11.38 ZAL 85.40 ZAP 39.79 ETS 345.30 ZAE 148.60 ETE 33.58 ZAC 84.68 ETC 12.76 CLP -38.39

PLANETOCENTRIC CONIC

C3 11.494 VHL 3.390 DLA -27.37 RAL 148.08 RAD 6567.4 VEL 11.527 PTH 2.01 VHP 4.112 DPA 14.17 RAP 184.35 ECC 1.1892

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 49 10	977.50	17.48	329.60	6.23	112.63	10 5 28	377.5	20.40	322.14
90.00	11 57 27	5847.25	26.05	279.92	9.06	101.52	13 34 55	5247.3	27.37	271.51
100.00	10 31 55	839.37	14.80	318.19	4.96	116.27	10 45 55	239.4	18.21	311.06
100.00	13 57 24	5460.62	28.95	252.03	9.62	97.79	15 28 24	4860.6	29.73	243.31
110.00	10 42 1	807.66	10.25	313.15	2.32	122.79	10 55 29	207.7	14.50	306.62
110.00	16 3 47	5065.10	34.17	222.46	10.08	90.94	17 28 12	4465.1	33.92	213.23

DIFFERENTIAL CORRECTIONS
TOE .7093 TRA -.5086 TC3 1.0770 BAU .1975
RDE .1491 RRA -.0924 RC3 .7014 FAU .10557
FDE-3.8169 FRA 1.0986 FC3-7.9517 BSP 5841
BDE .7248 BRA .5169 BC3 1.2852 FSP -2301

MID-COURSE EXECUTION ACCURACY
SGT 1705.0 SGR 566.2 SG3 748.5
RRT .8490 RRF -.9290 RTF -.9270
SGB 1796.5 R23 -.2248 R13 -.9387
SG1 1773.4 SG2 287.7 THA 16.18

ORBIT DETERMINATION ACCURACY
ST 1233.5 SR 257.8 SS 2303.4
CRT .9988 CRS .9936 CST .9901
LSA 2621.1 MSA 154.2 SSA 9.1
EL1 1260.1 EL2 12.3 ALF 11.79

LAUNCH DATE MAY 28 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 9 1967

DISTANCE 355.711

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.837 GAL 1.14 AZL 94.57 HCA 153.64 SMA 128.76 ECC .17839 INC 4.5727 V1 29.390
RP 108.22 LAP -2.03 LOP 39.71 VP 37.708 GAP -4.64 AZP 85.90 TAL 174.74 TAP 328.38 RCA 105.79 APO 151.73 V2 35.016
RC 68.382 GL -38.88 GP 13.36 ZAL 85.99 ZAP 43.95 ETS 345.06 ZAE 149.05 ETE 37.86 ZAC 84.86 ETC 12.75 CLP -42.27

PLANETOCENTRIC CONIC
C3 11.615 VHL 3.408 DLA -28.41 RAL 146.90 RAD 6567.4 VEL 11.533 PTH 2.01 VHP 3.909 DPA 16.24 RAP 184.60 ECC 1.1912

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
87.56	10 28 2	837.13	22.45	321.30	7.08	107.89	10 41 59	237.1	24.69	313.33
92.44	11 9 7	703.98	22.46	311.56	7.09	107.87	11 20 51	104.0	24.70	303.59
100.00	10 51 5	762.31	17.07	313.59	4.84	114.92	11 3 47	162.3	20.29	306.28
100.00	13 28 45	5542.07	28.06	257.92	8.66	100.76	15 1 7	4942.1	29.25	249.32
110.00	10 49 46	766.41	11.76	310.91	1.85	122.33	11 2 33	166.4	15.94	304.30
110.00	15 46 33	5110.73	34.06	226.02	9.51	93.04	17 11 43	4510.7	34.11	216.78

DIFFERENTIAL CORRECTIONS
TDE .6821 TRA -.4740 TC3 .9736 BAU .1955
RDE .2249 RRA -.0984 RC3 .7980 FAU .11484
FDE-4.3085 FRA 1.1046 FC3-8.5592 BSP 5649
BDE .7182 BRA .4841 BC3 1.2588 FSP -2551

MID-COURSE EXECUTION ACCURACY
SGT 1605.1 SGR 688.6 SG3 824.0
RRT .8730 RRF -.9606 RTF -.9205
SGB 1746.5 R23 -.2560 R13 -.9410
SG1 1718.1 SG2 313.8 THA 21.28

ORBIT DETERMINATION ACCURACY
ST 1178.6 SR 382.6 SS 2456.4
CRT .9961 CRS .9980 CST .9894
LSA 2746.9 MSA 155.0 SSA 8.1
EL1 1238.8 EL2 32.2 ALF 17.93

LAUNCH DATE MAY 28 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 11 1967

DISTANCE 362.238

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.871 GAL 1.08 AZL 94.77 HCA 156.84 SMA 128.99 ECC .17623 INC 4.7684 V1 29.390
RP 108.18 LAP -1.87 LOP 42.91 VP 37.744 GAP -4.13 AZP 85.61 TAL 174.94 TAP 331.78 RCA 106.26 APO 151.72 V2 35.029
RC 70.443 GL -40.40 GP 15.87 ZAL 86.49 ZAP 48.47 ETS 344.79 ZAE 149.19 ETE 43.47 ZAC 85.17 ETC 12.81 CLP -46.42

PLANETOCENTRIC CONIC
C3 11.875 VHL 3.446 DLA -29.61 RAL 145.72 RAD 6567.5 VEL 11.544 PTH 2.01 VHP 3.737 DPA 18.90 RAP 184.85 ECC 1.1954

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.97	9 29 55	1013.92	23.26	334.60	6.55	108.86	9 46 49	413.9	25.62	326.61
99.03	11 57 49	5824.47	23.27	277.43	6.56	108.84	13 34 53	5224.5	25.63	269.44
100.00	11 30 30	623.79	20.83	305.02	5.58	111.94	11 40 54	23.8	23.62	297.34
100.00	12 39 55	5689.84	25.74	268.28	7.40	105.74	14 14 44	5089.8	27.65	260.00
110.00	11 0 58	716.90	13.55	308.19	1.73	121.69	11 12 55	116.9	17.64	301.47
110.00	15 25 56	5169.49	33.76	230.59	9.15	95.72	16 52 5	4569.5	34.18	221.37

DIFFERENTIAL CORRECTIONS
TDE .6450 TRA -.4411 TC3 .8343 BAU .1964
RDE .3250 RRA -.1063 RC3 .9138 FAU .12358
FDE-4.8528 FRA 1.0974 FC3-9.0099 BSP 5465
BDE .7223 BRA .4537 BC3 1.2374 FSP -2792

MID-COURSE EXECUTION ACCURACY
SGT 1480.6 SGR 854.4 SG3 898.2
RRT .8799 RRF -.9793 RTF -.9092
SGB 1709.4 R23 -.2699 R13 -.9466
SG1 1671.2 SG2 359.6 THA 28.35

ORBIT DETERMINATION ACCURACY
ST 1102.0 SR 544.2 SS 2613.7
CRT .9927 CRS .9993 CST .9882
LSA 2884.0 MSA 156.1 SSA 7.1
EL1 1227.6 EL2 58.9 ALF 26.18

LAUNCH DATE MAY 28 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 13 1967

DISTANCE 368.747

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.900 GAL 1.03 AZL 95.02 HCA 160.05 SMA 129.18 ECC .17438 INC 5.0234 V1 29.390
RP 108.14 LAP -1.71 LOP 46.12 VP 37.777 GAP -3.62 AZP 85.28 TAL 175.10 TAP 335.15 RCA 106.66 APO 151.71 V2 35.042
RC 72.534 GL -42.13 GP 19.10 ZAL 86.90 ZAP 53.39 ETS 344.53 ZAE 148.67 ETE 50.49 ZAC 85.56 ETC 12.97 CLP -50.87

PLANETOCENTRIC CONIC
C3 12.326 VHL 3.511 DLA -31.02 RAL 144.51 RAD 6567.5 VEL 11.563 PTH 2.02 VHP 3.604 DPA 22.32 RAP 185.21 ECC 1.2029

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.77	8 53 47	1121.34	24.14	342.96	6.30	110.10	9 12 29	521.3	26.66	334.96
103.23	12 24 17	5732.81	24.15	270.92	6.31	110.08	13 59 50	5132.8	26.67	262.93
76.77	8 53 47	1121.34	24.14	342.96	6.30	110.10	9 12 29	521.3	26.66	334.96
103.23	12 24 17	5732.81	24.15	270.92	6.31	110.08	13 59 50	5132.8	26.67	262.93
110.00	11 18 10	651.78	15.84	304.54	2.12	120.69	11 29 1	51.8	19.80	297.65
110.00	14 59 5	5250.36	33.04	236.79	8.96	99.33	16 26 35	4650.4	33.97	227.67

DIFFERENTIAL CORRECTIONS
TDE .5965 TRA -.4063 TC3 .6680 BAU .2053
RDE .4622 RRA -.1142 RC3 1.0518 FAU .13122
FDE-5.4404 FRA 1.0445 FC3-9.2161 BSP 5451
BDE .7546 BRA .4221 BC3 1.2460 FSP -3031

MID-COURSE EXECUTION ACCURACY
SGT 1329.0 SGR 1077.8 SG3 964.7
RRT .8719 RRF -.9896 RTF -.8907
SGB 1711.1 R23 -.2511 R13 -.9589
SG1 1658.0 SG2 423.1 THA 38.20

ORBIT DETERMINATION ACCURACY
ST 1000.8 SR 757.4 SS 2771.3
CRT .9890 CRS .9998 CST .9861
LSA 3038.2 MSA 156.8 SSA 6.1
EL1 1251.9 EL2 89.6 ALF 37.03

LAUNCH DATE MAY 28 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 15 1967

DISTANCE 375.236

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.924 GAL 1.00 AZL 95.37 HCA 163.26 SMA 129.35 ECC .17285 INC 5.3715 V1 29.390
RP 108.10 LAP -1.55 LOP 49.33 VP 37.806 GAP -3.13 AZP 84.85 TAL 175.20 TAP 338.46 RCA 106.99 APO 151.70 V2 35.056
RC 74.652 GL -44.18 GP 23.37 ZAL 87.23 ZAP 58.75 ETS 344.31 ZAE 146.95 ETE 58.72 ZAC 85.92 ETC 13.26 CLP -55.59

PLANETOCENTRIC CONIC
C3 13.076 VHL 3.616 DLA -32.76 RAL 143.19 RAD 6567.5 VEL 11.596 PTH 2.03 VHP 3.525 DPA 26.78 RAP 185.91 ECC 1.2152

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.79	8 21 31	1218.52	25.12	350.75	6.42	111.76	8 41 50	618.5	27.84	342.76
107.21	12 46 5	5660.90	25.13	265.87	6.42	111.75	14 20 26	5060.9	27.85	257.88
72.79	8 21 31	1218.52	25.12	350.75	6.42	111.76	8 41 50	618.5	27.84	342.76
107.21	12 46 5	5660.90	25.13	265.87	6.42	111.75	14 20 26	5060.9	27.85	257.88
110.00	11 49 0	5836.86	19.32	276.49	3.46	118.76	13 26 17	5236.9	23.01	269.29
110.00	14 17 46	5378.61	31.21	246.34	8.69	104.70	15 47 25	4778.6	32.91	237.53

DIFFERENTIAL CORRECTIONS
TDE .5328 TRA -.3776 TC3 .4682 BAU .2253
RDE .6563 RRA -.1239 RC3 1.2007 FAU .13496
FDE-6.0256 FRA .9634 FC3-8.9355 BSP 5641
BDE .8454 BRA .3974 BC3 1.2887 FSP -3180

MID-COURSE EXECUTION ACCURACY
SGT 1154.8 SGR 1374.8 SG3 1008.4
RRT .8429 RRF -.9950 RTF -.8563
SGB 1795.4 R23 -.1941 R13 -.9764
SG1 1725.8 SG2 495.0 THA 50.87

ORBIT DETERMINATION ACCURACY
ST 870.9 SR 1042.6 SS 2912.3
CRT .9837 CRS .9999 CST .9819
LSA 3210.2 MSA 158.5 SSA 5.1
EL1 1353.1 EL2 120.7 ALF 50.21

LAUNCH DATE MAY 28 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 17 1967

HELIOCENTRIC CONIC DISTANCE 381.704

```
RL  151.59 LAL    .00 LOL 246.00 VL  26.944 GAL    .98 AZL  95.88 HCA 166.47 SMA 129.48 ECC .17159 INC 5.8795 V1  29.390
RP  108.06 LAP  -1.37 LOP  52.53 VP  37.833 GAP  -2.65 AZP  84.28 TAL 175.26 TAP 341.73 RCA 107.26 APO 151.70 V2  35.069
RC  76.795 GL  -46.75 GP   29.20 ZAL  87.50 ZAP  64.59 ETS 344.21 ZAE 143.28 ETE  67.46 ZAC  86.05 ETC  13.71 CLP -60.56
```

PLANETOCENTRIC CONIC

```
C3  14.356 VHL  3.789 DLA -34.99 RAL 141.64 RAD 6567.6 VEL 11.651 PTH   2.05 VHP  3.532 DPA  32.67 RAP 187.41 ECC 1.2363
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.53	7 49 19	1318.54	26.17	359.02	7.03	114.10	8 11 17	718.5	29.19	351.07
111.47	13 5 55	5601.71	26.18	261.76	7.04	114.09	14 39 17	5001.7	29.20	253.81
68.53	7 49 19	1318.54	26.17	359.02	7.03	114.10	8 11 17	718.5	29.19	351.07
111.47	13 5 55	5601.71	26.18	261.76	7.04	114.09	14 39 17	5001.7	29.20	253.81
68.53	7 49 19	1318.54	26.17	359.02	7.03	114.10	8 11 17	718.5	29.19	351.07
111.47	13 5 55	5601.71	26.18	261.76	7.04	114.09	14 39 17	5001.7	29.20	253.81

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .4530 TRA -.3536 TC3  .2570 BAU  .2626   SGT  966.1 SGR 1773.1 SG3 1008.6      ST   712.6 SR  1433.6 SS  3016.8
RDE  .9466 RRA -.1302 RC3 1.3440 FAU .13232   RRT  .7798 RRF -.9976 RTF -.7907      CRT  .9740 CRS 1.0000 CST  .9729
FDE-6.5292 FRA  .8097 FC3-7.9794 BSP  6302    SGB 2019.2 R23 -.1121 R13 -.9915      LSA 3411.4 MSA  160.7 SSA    4.1
BDE 1.0494 BRA  .3768 BC3 1.3683 FSP  -3192   SG1 1942.3 SG2  552.1 THA  64.80      EL1 1594.3 EL2  145.1 ALF  63.93
```

LAUNCH DATE MAY 28 1967 FLIGHT TIME 144.00 ARRIVAL DATE OCT 19 1967

HELIOCENTRIC CONIC DISTANCE 388.152

```
RL  151.59 LAL    .00 LOL 246.00 VL  26.960 GAL    .97 AZL  96.70 HCA 169.68 SMA 129.59 ECC .17061 INC 6.6970 V1  29.390
RP  108.02 LAP  -1.20 LOP  55.74 VP  37.856 GAP  -2.18 AZP  83.41 TAL 175.26 TAP 344.94 RCA 107.48 APO 151.70 V2  35.082
RC  78.958 GL  -50.17 GP   37.45 ZAL  87.73 ZAP  70.94 ETS 344.37 ZAE 136.60 ETE  75.68 ZAC  85.58 ETC  14.27 CLP -65.71
```

PLANETOCENTRIC CONIC

```
C3  16.757 VHL  4.094 DLA -37.99 RAL 139.59 RAD 6567.7 VEL 11.753 PTH   2.07 VHP  3.704 DPA  40.63 RAP 190.77 ECC 1.2758
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.55	7 14 24	1432.64	27.17	8.75	8.48	117.63	7 38 16	832.6	30.64	.92
116.45	13 24 29	5557.39	27.18	258.74	8.49	117.62	14 57 6	4957.4	30.65	250.92
63.55	7 14 24	1432.64	27.17	8.75	8.48	117.63	7 38 16	832.6	30.64	.92
116.45	13 24 29	5557.39	27.18	258.74	8.49	117.62	14 57 6	4957.4	30.65	250.92
63.55	7 14 24	1432.64	27.17	8.75	8.48	117.63	7 38 16	832.6	30.64	.92
116.45	13 24 29	5557.39	27.18	258.74	8.49	117.62	14 57 6	4957.4	30.65	250.92

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .3609 TRA -.3387 TC3  .0597 BAU  .3202   SGT  787.0 SGR 2312.7 SG3  931.2     ST   536.4 SR  1985.6 SS  3040.9
RDE 1.4177 RRA -.1183 RC3 1.4280 FAU .11843   RRT  .6515 RRF -.9989 RTF -.6618      CRT  .9518 CRS 1.0000 CST  .9513
FDE-6.7843 FRA  .5358 FC3-6.1185 BSP  7692    SGB 2442.9 R23 -.0434 R13 -.9981      LSA 3667.5 MSA  163.5 SSA    3.2
BDE 1.4629 BRA  .3588 BC3 1.4293 FSP  -2972   SG1 2372.6 SG2  582.0 THA  76.68      EL1 2050.6 EL2  159.3 ALF  75.49
```

LAUNCH DATE MAY 28 1967 FLIGHT TIME 146.00 ARRIVAL DATE OCT 21 1967

HELIOCENTRIC CONIC DISTANCE 394.575

```
RL  151.59 LAL    .00 LOL 246.00 VL  26.972 GAL    .98 AZL  98.24 HCA 172.88 SMA 129.67 ECC .16988 INC 8.2422 V1  29.390
RP  107.98 LAP  -1.02 LOP  58.96 VP  37.877 GAP  -1.72 AZP  81.82 TAL 175.21 TAP 348.09 RCA 107.65 APO 151.70 V2  35.094
RC  81.139 GL  -55.02 GP   49.57 ZAL  87.99 ZAP  77.71 ETS 345.02 ZAE 125.44 ETE  82.33 ZAC  83.86 ETC  14.59 CLP -70.84
```

PLANETOCENTRIC CONIC

```
C3  22.262 VHL  4.718 DLA -42.21 RAL 136.47 RAD 6567.9 VEL 11.985 PTH   2.14 VHP  4.285 DPA  51.38 RAP 199.14 ECC 1.3664
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.28	6 33 14	1580.66	27.46	21.47	11.51	123.42	6 59 35	980.7	31.64	14.05
122.72	13 40 42	5543.63	27.47	257.77	11.52	123.41	15 13 5	4943.6	31.65	250.34
57.28	6 33 14	1580.66	27.46	21.47	11.51	123.42	6 59 35	980.7	31.64	14.05
122.72	13 40 42	5543.63	27.47	257.77	11.52	123.41	15 13 5	4943.6	31.65	250.34
57.28	6 33 14	1580.66	27.46	21.47	11.51	123.42	6 59 35	980.7	31.64	14.05
122.72	13 40 42	5543.63	27.47	257.77	11.52	123.41	15 13 5	4943.6	31.65	250.34

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .2687 TRA -.3494 TC3 -.0769 BAU  .3885   SGT  663.3 SGR 3012.0 SG3  720.8     ST   368.8 SR  2748.5 SS  2858.0
RDE 2.2631 RRA -.0521 RC3 1.3032 FAU .08590   RRT  .4288 RRF -.9995 RTF -.4403      CRT  .8889 CRS 1.0000 CST  .8892
FDE-6.3570 FRA  .1550 FC3-3.3403 BSP  9834    SGB 3084.1 R23 -.0064 R13 -.9995      LSA 3978.7 MSA  168.3 SSA    2.3
BDE 2.2790 BRA  .3533 BC3 1.3054 FSP  -2308   SG1 3025.9 SG2  596.5 THA  84.39      EL1 2768.1 EL2  167.7 ALF  83.17
```

LAUNCH DATE MAY 28 1967 FLIGHT TIME 148.00 ARRIVAL DATE OCT 23 1967

HELIOCENTRIC CONIC DISTANCE 400.969

```
RL  151.59 LAL    .00 LOL 246.00 VL  26.981 GAL   1.00 AZL 102.30 HCA 176.08 SMA 129.73 ECC .16938 INC12.3008 V1  29.390
RP  107.94 LAP   -.83 LOP  62.17 VP  37.894 GAP  -1.28 AZP  77.73 TAL 175.08 TAP 351.16 RCA 107.76 APO 151.71 V2  35.107
RC  83.336 GL  -62.15 GP   67.95 ZAL  88.45 ZAP  84.40 ETS 345.83 ZAE 107.54 ETE  86.05 ZAC  79.86 ETC  12.76 CLP -74.93
```

PLANETOCENTRIC CONIC

```
C3  42.252 VHL  6.500 DLA -48.21 RAL 130.99 RAD 6568.6 VEL 12.791 PTH   2.33 VHP  6.382 DPA  63.78 RAP 225.05 ECC 1.6954
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
49.21	5 40 54	1819.96	23.57	40.10	18.02	133.35	6 11 13	1220.0	28.92	33.88
130.79	13 49 20	5624.46	23.58	261.78	18.03	133.35	15 23 4	5024.5	28.93	255.56
49.21	5 40 54	1819.96	23.57	40.10	18.02	133.35	6 11 13	1220.0	28.92	33.88
130.79	13 49 20	5624.46	23.58	261.78	18.03	133.35	15 23 4	5024.5	28.93	255.56
49.21	5 40 54	1819.96	23.57	40.10	18.02	133.35	6 11 13	1220.0	28.92	33.88
130.79	13 49 20	5624.46	23.58	261.78	18.03	133.35	15 23 4	5024.5	28.93	255.56

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .3758 TRA -.4602 TC3 -.0905 BAU  .3777   SGT  702.9 SGR 3744.9 SG3  360.4     ST   378.2 SR  3637.4 SS  2247.9
RDE 4.1256 RRA  .1828 RC3  .6624 FAU .03230   RRT  .3632 RRF -.9996 RTF -.3810      CRT  .8658 CRS 1.0000 CST  .8678
FDE-4.6242 FRA -.1635 FC3 -.6618 BSP  11528   SGB 3810.3 R23  .0071 R13 -.9998      LSA 4288.5 MSA  188.5 SSA    1.3
BDE 4.1427 BRA  .4952 BC3  .6686 FSP  -1077   SG1 3753.9 SG2  653.4 THA  85.98      EL1 3652.1 EL2  188.5 ALF  84.84
```

LAUNCH DATE MAY 28 1967 FLIGHT TIME 150.00 ARRIVAL DATE OCT 25 1967

DISTANCE 407.142

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.986 GAL 1.07 AZL 136.59 HCA 179.11 SMA 129.77 ECC .16918 INC46.5914 V1 29.390
RP 107.91 LAP -.65 LOP 65.39 VP 37.910 GAP -.89 AZP 43.42 TAL 174.72 TAP 353.83 RCA 107.82 APO 151.72 V2 35.119
RC 85.546 GL -61.03 GP 73.85 ZAL 89.46 ZAP 89.21 ETS 180.29 ZAE 70.06 ETE 281.11 ZAC 70.07 ETC 195.76 CLP 87.15

PLANETOCENTRIC CONIC
C3 501.863 VHL 22.402 DLA -46.70 RAL 130.58 RAD 6572.4 VEL 24.963 PTH 3.34 VHP 27.040 DPA 53.97 RAP 300.85 ECC 9.2594

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
51.18	5 46 9	2242.68	1.81	57.86	38.85	136.67	6 23 32	1642.7	7.61	52.75
128.82	13 40 48	793.44	1.83	304.94	38.87	136.67	13 54 2	193.4	7.63	299.83
51.18	5 46 9	2242.68	1.81	57.86	38.85	136.67	6 23 32	1642.7	7.61	52.75
128.82	13 40 48	793.44	1.83	304.94	38.87	136.67	13 54 2	193.4	7.63	299.83
51.18	5 46 9	2242.68	1.81	57.86	38.85	136.67	6 23 32	1642.7	7.61	52.75
128.82	13 40 48	793.44	1.83	304.94	38.87	136.67	13 54 2	193.4	7.63	299.83

DIFFERENTIAL CORRECTIONS
TDE 6.0385 TRA 1.9016 TC3 -.0866 BAU 1.6273
RD-14.1490 RRA -.6810 RC3 .2265 FAU-.02903
FDE-3.3596 FRA -.1693 FC3 .0501 BSP 17102
BDE15.3836 BRA 2.0199 BC3 .2425 FSP -312

MID-COURSE EXECUTION ACCURACY
SGT 1743.2 SGR 3766.9 SG3 76.9
RRT -.9385 RRF .9998 RTF -.9400
SGB 4150.7 R23 -.0545 R13 .9984
SG1 4114.0 SG2 551.0 THA 113.93

ORBIT DETERMINATION ACCURACY
ST 1559.0 SR 3619.6 SS 2008.0
CRT -.9933 CRS-1.0000 CST .9934
LSA 4420.0 MSA 168.4 SSA 1.2
EL1 3937.6 EL2 165.6 ALF 113.21

LAUNCH DATE MAY 28 1967 FLIGHT TIME 152.00 ARRIVAL DATE OCT 27 1967

DISTANCE 413.873

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.988 GAL 1.05 AZL 79.98 HCA 182.65 SMA 129.79 ECC .16899 INC10.0150 V1 29.390
RP 107.87 LAP -.46 LOP 68.60 VP 37.922 GAP -.37 AZP 100.01 TAL 174.83 TAP 357.47 RCA 107.85 APO 151.72 V2 35.131
RC 87.767 GL 58.97 GP -78.63 ZAL 87.92 ZAP 89.80 ETS 2.56 ZAE 105.23 ETE 263.89 ZAC 107.04 ETC 348.87 CLP -89.00

PLANETOCENTRIC CONIC
C3 30.001 VHL 5.477 DLA 58.89 RAL 200.32 RAD 6568.2 VEL 12.303 PTH 2.22 VHP 8.944 DPA -58.70 RAP 117.63 ECC 1.4937

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
35.93	21 36 28	4463.57	-32.08	219.61	88.12	37.57	22 50 51	3863.6	-38.27	213.83
144.07	7 6 57	2808.12	-32.06	84.49	88.10	37.56	7 53 45	2208.1	-38.26	78.70
35.93	21 36 28	4463.57	-32.08	219.61	88.12	37.57	22 50 51	3863.6	-38.27	213.83
144.07	7 6 57	2808.12	-32.06	84.49	88.10	37.56	7 53 45	2208.1	-38.26	78.70
35.93	21 36 28	4463.57	-32.08	219.61	88.12	37.57	22 50 51	3863.6	-38.27	213.83
144.07	7 6 57	2808.12	-32.06	84.49	88.10	37.56	7 53 45	2208.1	-38.26	78.70

DIFFERENTIAL CORRECTIONS
TDE .7889 TRA .5271 TC3 -.3614 BAU .4639
RDE .8130 RRA 1.9267 RC3-1.0986 FAU .02312
FDE .4615 FRA 1.1340 FC3 -.6672 BSP 12485
BDE 1.1328 BRA 1.9975 BC3 1.1565 FSP -627

MID-COURSE EXECUTION ACCURACY
SGT 1406.1 SGR 4170.0 SG3 212.3
RRT .9111 RRF .9999 RTF .9083
SGB 4400.7 R23 .0462 R13 .9989
SG1 4365.7 SG2 553.7 THA 72.64

ORBIT DETERMINATION ACCURACY
ST 885.3 SR 1447.1 SS 650.2
CRT .8407 CRS -.9999 CST -.8313
LSA 1764.4 MSA 433.1 SSA .6
EL1 1643.0 EL2 422.3 ALF 60.66

LAUNCH DATE MAY 28 1967 FLIGHT TIME 154.00 ARRIVAL DATE OCT 29 1967

DISTANCE 420.184

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.988 GAL 1.11 AZL 87.34 HCA 185.83 SMA 129.78 ECC .16913 INC 2.6593 V1 29.390
RP 107.83 LAP -.27 LOP 71.82 VP 37.933 GAP .05 AZP 92.65 TAL 174.52 TAP .35 RCA 107.83 APO 151.73 V2 35.143
RC 89.996 GL 27.11 GP -56.96 ZAL 85.23 ZAP 92.87 ETS 356.56 ZAE 125.87 ETE 255.82 ZAC 112.13 ETC 353.00 CLP -95.27

PLANETOCENTRIC CONIC
C3 7.550 VHL 2.748 DLA 32.09 RAL 174.60 RAD 6567.2 VEL 11.355 PTH 1.96 VHP 4.753 DPA -40.36 RAP 135.94 ECC 1.1242

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.24	22 34 29	3723.39	-27.12	149.87	29.83	72.16	23 36 32	3123.4	-29.30	141.55
105.76	2 43 40	2937.73	-27.12	91.67	29.83	72.15	3 32 38	2337.7	-29.30	83.35
74.24	22 34 29	3723.39	-27.12	149.87	29.83	72.16	23 36 32	3123.4	-29.30	141.55
105.76	2 43 40	2937.73	-27.12	91.67	29.83	72.15	3 32 38	2337.7	-29.30	83.35
110.00	4 40 47	2575.46	-33.35	65.48	31.48	82.03	5 23 42	1975.5	-34.09	56.32
110.00	1 40 29	3133.65	-21.22	104.00	27.13	62.55	2 32 43	2533.7	-24.72	96.60

DIFFERENTIAL CORRECTIONS
TDE .2983 TRA .2804 TC3-2.4765 BAU .5371
RDE .2626 RRA .9436 RC3-4.7096 FAU .08208
FDE .4675 FRA 1.8405 FC3-9.4122 BSP 11974
BDE .3975 BRA .9844 BC3 5.3210 FSP -1910

MID-COURSE EXECUTION ACCURACY
SGT 1647.9 SGR 3520.2 SG3 600.0
RRT .9422 RRF .9998 RTF .9413
SGB 3886.9 R23 .0610 R13 .9980
SG1 3854.0 SG2 504.1 THA 65.76

ORBIT DETERMINATION ACCURACY
ST 657.0 SR 889.6 SS 689.8
CRT .8353 CRS -.9990 CST -.8104
LSA 1260.6 MSA 331.4 SSA 2.3
EL1 1063.8 EL2 302.1 ALF 55.12

LAUNCH DATE MAY 28 1967 FLIGHT TIME 156.00 ARRIVAL DATE OCT 31 1967

DISTANCE 426.509

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.985 GAL 1.18 AZL 89.50 HCA 189.05 SMA 129.76 ECC .16946 INC .5013 V1 29.390
RP 107.80 LAP -.08 LOP 75.05 VP 37.941 GAP .47 AZP 90.50 TAL 174.19 TAP 3.23 RCA 107.77 APO 151.75 V2 35.154
RC 92.232 GL 5.59 GP -43.16 ZAL 83.84 ZAP 97.75 ETS 353.59 ZAE 137.78 ETE 246.37 ZAC 114.93 ETC 357.23 CLP-100.65

PLANETOCENTRIC CONIC
C3 5.937 VHL 2.437 DLA 12.15 RAL 165.76 RAD 6567.2 VEL 11.284 PTH 1.94 VHP 3.764 DPA -27.30 RAP 141.56 ECC 1.0977

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 30 50	2353.87	-22.69	50.50	13.08	107.41	5 10 4	1753.9	-20.09	42.79
90.00	19 36 47	4223.97	.81	173.32	10.82	61.69	20 47 11	3624.0	-2.98	166.69
100.00	5 58 23	2071.51	-23.47	29.46	12.81	109.07	6 32 55	1471.5	-20.65	21.79
100.00	20 51 55	3981.56	1.53	155.10	10.42	60.14	21 58 17	3381.6	-2.45	148.57
110.00	7 20 39	1814.11	-25.52	9.03	11.93	113.56	7 50 53	1214.1	-22.11	1.53
110.00	21 46 9	3811.74	3.40	141.05	9.25	55.97	22 49 41	3211.7	-1.09	134.84

DIFFERENTIAL CORRECTIONS
TDE .0034 TRA .2492 TC3-3.8982 BAU .4959
RDE -.1254 RRA .6351 RC3-4.8824 FAU .12617
FDE -.5860 FRA 2.3317 FC-18.3996 BSP 10618
BDE .1254 BRA .6822 BC3 6.2478 FSP -2934

MID-COURSE EXECUTION ACCURACY
SGT 1992.0 SGR 2842.8 SG3 921.5
RRT .9594 RRF .9996 RTF .9595
SGB 3471.2 R23 .0913 R13 .9954
SG1 3440.1 SG2 464.0 THA 55.37

ORBIT DETERMINATION ACCURACY
ST 188.8 SR 549.6 SS 712.8
CRT .8110 CRS -.9935 CST -.7421
LSA 910.6 MSA 128.5 SSA 12.0
EL1 571.4 EL2 106.3 ALF 73.86

LAUNCH DATE MAY 28 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 2 1967

HELIOCENTRIC CONIC DISTANCE 432.821

```
RL  151.59 LAL    .00 LOL 246.00 VL  26.980 GAL   1.26 AZL  90.53 HCA 192.27 SMA 129.73 ECC .16996 INC  .5268 VI  29.390
RP  107.77 LAP    .11 LOP  78.27 VP  37.947 GAP    .88 AZP  89.49 TAL 173.81 TAP   6.08 RCA 107.68 APO 151.77 V2  35.165
RC  94.474 GL   -5.81 GP -33.88 ZAL  82.97 ZAP 103.08 ETS 351.98 ZAE 144.12 ETE 235.22 ZAC 116.78 ETC     .53 CLP-105.81
```

PLANETOCENTRIC CONIC

```
C3   5.994 VHL  2.448 DLA   1.28 RAL 162.17 RAD 6567.2 VEL 11.287 PTH   1.94 VHP  3.418 DPA -18.12 RAP 143.79 ECC 1.0986
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 41 0	2008.23	-14.09	28.82	7.55	114.82	6 14 28	1408.2	-10.62	21.86
90.00	17 58 1	4572.80	11.77	193.09	7.29	64.06	19 14 14	3972.8	8.18	186.25
100.00	7 2 56	1743.93	-14.76	9.05	7.21	116.29	7 32 0	1143.9	-11.11	2.17
100.00	19 18 46	4312.33	12.43	173.60	6.95	62.60	20 30 39	3712.3	8.66	166.84
110.00	8 12 33	1526.04	-16.54	351.51	6.22	120.35	8 37 59	926.0	-12.39	344.87
110.00	20 25 39	4102.99	14.20	156.68	5.93	58.57	21 34 2	3503.0	9.93	150.18

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE -.2143 TRA  .2625 TC3-4.5506 BAU  .4807   SGT 2365.2 SGR 2291.6 SG3 1109.7      ST   538.5 SR   690.9 SS  1262.8
RDE -.2578 RRA  .4726 RC3-3.9090 FAU .15109   RRT  .9681 RRF  .9991 RTF  .9687     CRT  .9879 CRS -.9976 CST -.9954
FDE-1.6526 FRA 2.5566 FC-21.8228 BSP  10038   SGB 3293.2 R23  .1246 R13  .9914     LSA 1535.3 MSA   66.1 SSA   18.8
BDE  .3352 BRA  .5406 BC3 5.9991 FSP  -3554   SG1 3266.9 SG2  415.6 THA  44.06     EL1  873.5 EL2   66.0 ALF  52.15
```

LAUNCH DATE MAY 28 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 4 1967

HELIOCENTRIC CONIC DISTANCE 439.117

```
RL  151.59 LAL    .00 LOL 246.00 VL  26.972 GAL   1.36 AZL  91.13 HCA 195.50 SMA 129.67 ECC .17065 INC 1.1332 VI  29.390
RP  107.73 LAP    .30 LOP  81.50 VP  37.952 GAP   1.29 AZP  88.91 TAL 173.38 TAP   8.88 RCA 107.55 APO 151.80 V2  35.175
RC  96.719 GL  -12.26 GP -27.38 ZAL  82.13 ZAP 108.32 ETS 351.13 ZAE 146.79 ETE 224.04 ZAC 118.14 ETC    3.11 CLP-110.73
```

PLANETOCENTRIC CONIC

```
C3   6.307 VHL  2.511 DLA  -5.05 RAL 160.60 RAD 6567.2 VEL 11.300 PTH   1.94 VHP  3.295 DPA -11.53 RAP 144.73 ECC 1.1038
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 21 52	1820.00	-8.45	17.87	6.05	117.13	6 52 12	1220.0	-4.75	11.14
90.00	17 4 37	4778.12	17.54	205.40	7.07	67.41	18 24 15	4178.1	14.32	198.20
100.00	7 40 50	1565.27	-9.14	358.77	5.69	118.59	8 6 55	965.3	-5.25	352.14
100.00	18 28 20	4508.09	18.25	185.22	6.75	65.90	19 43 28	3908.1	14.84	178.09
110.00	8 43 38	1368.68	-10.94	342.77	4.61	122.59	9 6 26	768.7	-6.56	336.41
110.00	19 42 2	4277.44	20.12	166.74	5.78	61.77	20 53 19	3677.4	16.19	159.82

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE -.3966 TRA  .2969 TC3-4.9304 BAU  .4876   SGT 2722.9 SGR 1859.4 SG3 1192.0      ST   930.4 SR   695.5 SS  1660.7
RDE -.2824 RRA  .3759 RC3-3.0202 FAU .16088   RRT  .9728 RRF  .9982 RTF  .9741     CRT  .9873 CRS -.9979 CST -.9952
FDE-2.4251 FRA 2.6458 FC-22.0819 BSP  10015   SGB 3297.2 R23  .1459 R13  .9875     LSA 2024.3 MSA   96.8 SSA   12.5
BDE  .4868 BRA  .4790 BC3 5.7819 FSP  -3827   SG1 3277.7 SG2  357.9 THA  34.06     EL1 1158.3 EL2   88.9 ALF  36.68
```

LAUNCH DATE MAY 28 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 6 1967

HELIOCENTRIC CONIC DISTANCE 445.395

```
RL  151.59 LAL    .00 LOL 246.00 VL  26.962 GAL   1.46 AZL  91.54 HCA 198.73 SMA 129.61 ECC .17150 INC 1.5353 VI  29.390
RP  107.70 LAP    .49 LOP  84.72 VP  37.954 GAP   1.70 AZP  88.55 TAL 172.90 TAP  11.63 RCA 107.38 APO 151.83 V2  35.185
RC  98.967 GL  -16.25 GP -22.64 ZAL  81.23 ZAP 113.28 ETS 350.71 ZAE 147.18 ETE 214.35 ZAC 119.15 ETC    5.19 CLP-115.36
```

PLANETOCENTRIC CONIC

```
C3   6.656 VHL  2.580 DLA  -9.14 RAL 160.03 RAD 6567.2 VEL 11.316 PTH   1.95 VHP  3.275 DPA  -6.64 RAP 145.12 ECC 1.1095
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 51 14	1698.88	-4.64	11.01	6.05	117.97	7 19 33	1098.9	-.86	4.37
90.00	16 30 40	4917.66	20.96	214.21	7.95	70.51	17 52 38	4317.7	18.11	206.69
100.00	8 8 7	1450.87	-5.35	352.38	5.66	119.45	8 32 18	850.9	-1.39	345.84
100.00	17 56 29	4640.90	21.72	193.55	7.65	68.95	19 13 50	4040.9	18.67	186.09
110.00	9 6 11	1269.03	-7.23	337.43	4.50	123.50	9 27 20	669.0	-2.78	331.17
110.00	19 14 54	4395.51	23.75	173.98	6.71	64.66	20 28 9	3795.5	20.14	166.70

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE -.5615 TRA  .3420 TC3-5.2135 BAU  .5095   SGT 3063.2 SGR 1529.3 SG3 1210.0      ST  1270.6 SR   631.6 SS  1913.5
RDE -.2675 RRA  .3128 RC3-2.3662 FAU .16180   RRT  .9748 RRF  .9963 RTF  .9775     CRT  .9875 CRS -.9973 CST -.9962
FDE-2.9319 FRA 2.6611 FC-21.0447 BSP  10419   SGB 3423.8 R23  .1513 R13  .9851     LSA 2379.6 MSA  109.5 SSA   11.6
BDE  .6219 BRA  .4635 BC3 5.7253 FSP  -3896   SG1 3410.0 SG2  306.4 THA  26.18     EL1 1416.1 EL2   89.2 ALF  26.26
```

LAUNCH DATE MAY 28 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 8 1967

HELIOCENTRIC CONIC DISTANCE 451.654

```
RL  151.59 LAL    .00 LOL 246.00 VL  26.950 GAL   1.58 AZL  91.82 HCA 201.96 SMA 129.53 ECC .17252 INC 1.8223 VI  29.390
RP  107.67 LAP    .68 LOP  87.95 VP  37.954 GAP   2.10 AZP  88.31 TAL 172.37 TAP  14.33 RCA 107.18 APO 151.87 V2  35.195
RC 101.218 GL  -18.90 GP -19.08 ZAL  80.23 ZAP 117.91 ETS 350.54 ZAE 146.32 ETE 206.72 ZAC 119.86 ETC    6.91 CLP-119.69
```

PLANETOCENTRIC CONIC

```
C3   7.000 VHL  2.646 DLA -12.02 RAL 160.04 RAD 6567.2 VEL 11.331 PTH   1.95 VHP  3.312 DPA  -2.93 RAP 145.31 ECC 1.1152
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 14 48	1612.64	-1.87	6.19	6.78	118.26	7 41 41	1012.6	1.93	359.56
90.00	16 7 12	5021.47	23.16	221.02	9.32	73.23	17 30 53	4421.5	20.64	213.25
100.00	8 30 1	1369.96	-2.63	347.92	6.35	119.79	8 52 51	770.0	1.36	341.40
100.00	17 34 40	4739.38	23.99	199.99	9.03	71.61	18 53 39	4139.4	21.25	192.26
110.00	9 24 26	1199.56	-4.61	333.76	5.12	123.91	9 44 25	599.6	-.12	327.55
110.00	18 56 45	4482.54	26.17	179.58	8.13	67.18	20 11 27	3882.5	22.85	172.00

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE -.7122 TRA  .3969 TC3-5.4291 BAU  .5379   SGT 3376.9 SGR 1272.9 SG3 1186.8      ST  1567.0 SR   544.1 SS  2059.1
RDE -.2368 RRA  .2704 RC3-1.8888 FAU .15710   RRT  .9743 RRF  .9929 RTF  .9796     CRT  .9860 CRS -.9959 CST -.9969
FDE-3.2189 FRA 2.6476 FC-19.4304 BSP  10994   SGB 3608.8 R23  .1436 R13  .9840     LSA 2641.5 MSA  115.9 SSA   11.8
BDE  .7505 BRA  .4802 BC3 5.7483 FSP  -3817   SG1 3598.8 SG2  269.0 THA  20.28     EL1 1656.6 EL2   85.8 ALF  18.95
```

```
LAUNCH DATE  MAY 28 1967                          FLIGHT TIME 166.00                          ARRIVAL DATE  NOV 10 1967

  HELIOCENTRIC CONIC                                  DISTANCE 457.894
   RL  151.59 LAL     .00 LOL 246.00 VL  26.937 GAL   1.71 AZL  92.04 HCA 205.20 SMA 129.44 ECC .17371 INC 2.0391 VI  29.390
   RP  107.65 LAP     .87 LOP  91.19 VP  37.953 GAP   2.49 AZP  88.15 TAL 171.79 TAP  17.00 RCA 106.95 APO 151.92 V2  35.204
   RC 103.470 GL  -20.72 GP  -16.31 ZAL  79.13 ZAP 122.20 ETS 350.51 ZAE 144.83 ETE 200.99 ZAC 120.30 ETC   8.34 CLP-123.72
  PLANETOCENTRIC CONIC
   C3   7.335 VHL  2.708 DLA -14.17 RAL 160.44 RAD 6567.2 VEL 11.346 PTH   1.96 VHP  3.385 DPA   -.07 RAP 145.48 ECC 1.1207
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00      7 35  5   1546.88       .26      2.52       7.92      118.32    8  0 51     946.9       4.04      355.88
      90.00     15 50  8   5103.85     24.67    226.59      10.95       75.63   17 19 12    4503.9      22.45      218.62
     100.00      8 48 53   1308.74      -.55    344.56       7.47      119.89    9 10 42     708.7       3.43      338.04
     100.00     17 19  1   4817.22     25.56    205.24      10.68       73.95   18 39 18    4217.2      23.11      197.29
     110.00      9 40 15   1147.85     -2.64    331.05       6.16      124.09    9 59 23     547.9       1.85      324.85
     110.00     18 44  8   4550.88     27.89    184.15       9.82       69.39   19 59 59    3950.9      24.83      176.31
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE -.8550 TRA  .4570 TC3-5.6038 BAU  .5700      SGT 3671.4 SGR 1075.3 SG3 1142.5       ST  1835.6 SR   457.6 SS  2144.5
   RDE -.2028 RRA  .2399 RC3-1.5426 FAU .14979      RRT  .9712 RRF  .9872 RTF  .9811       CRT  .9826 CRS -.9932 CST -.9974
   FDE-3.3687 FRA 2.6077 FC-17.6796 BSP  11705      SGB 3825.6 R23  .1262 R13  .9836       LSA 2857.2 MSA  119.2 SSA   12.4
   BDE  .8787 BRA  .5161 BC3 5.8122 FSP  -3682      SG1 3817.7 SG2  246.2 THA  15.95       EL1 1889.9 EL2   82.5 ALF  13.79

LAUNCH DATE  MAY 28 1967                          FLIGHT TIME 168.00                          ARRIVAL DATE  NOV 12 1967

  HELIOCENTRIC CONIC                                  DISTANCE 464.115
   RL  151.59 LAL     .00 LOL 246.00 VL  26.922 GAL   1.86 AZL  92.21 HCA 208.44 SMA 129.33 ECC .17507 INC 2.2095 VI  29.390
   RP  107.62 LAP    1.05 LOP  94.42 VP  37.950 GAP   2.89 AZP  88.06 TAL 171.18 TAP  19.61 RCA 106.69 APO 151.97 V2  35.212
   RC 105.723 GL  -22.00 GP  -14.12 ZAL  77.95 ZAP 126.15 ETS 350.56 ZAE 143.09 ETE 196.77 ZAC 120.48 ETC   9.54 CLP-127.46
  PLANETOCENTRIC CONIC
   C3   7.668 VHL  2.769 DLA -15.87 RAL 161.13 RAD 6567.2 VEL 11.360 PTH   1.96 VHP  3.482 DPA   2.16 RAP 145.72 ECC 1.1262
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00      7 53 21   1494.27      1.95    359.59       9.34      118.26    8 18 15     894.3       5.72      352.93
      90.00     15 37 20   5172.48     25.74    231.33      12.77       77.77   17  3 33    4572.5      23.80      223.20
     100.00      9  5 54   1260.18      1.09    341.90       8.87      119.87    9 26 54     660.2       5.06      335.36
     100.00     17  7 28   4881.81     26.70    209.70      12.52       76.03   18 28 50    4281.8      24.51      201.58
     110.00      9 54 37   1107.56     -1.10    328.95       7.49      124.17   10 13  5     507.6       3.39      322.75
     110.00     18 35 14   4607.19     29.18    188.02      11.70       71.35   19 52  2    4007.2      26.36      179.98
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE -.9907 TRA  .5221 TC3-5.7386 BAU  .6028      SGT 3945.1 SGR  921.0 SG3 1086.4       ST  2079.6 SR   377.6 SS  2187.2
   RDE -.1691 RRA  .2175 RC3-1.2856 FAU .14112      RRT  .9648 RRF  .9782 RTF  .9821       CRT  .9762 CRS -.9882 CST -.9978
   FDE-3.4195 FRA 2.5543 FC-15.9330 BSP  12461      SGB 4051.2 R23  .1038 R13  .9835       LSA 3039.1 MSA  120.9 SSA   13.1
   BDE 1.0050 BRA  .5656 BC3 5.8808 FSP  -3513      SG1 4044.3 SG2  236.3 THA  12.74       EL1 2112.0 EL2   80.6 ALF  10.07

LAUNCH DATE  MAY 28 1967                          FLIGHT TIME 170.00                          ARRIVAL DATE  NOV 14 1967

  HELIOCENTRIC CONIC                                  DISTANCE 470.316
   RL  151.59 LAL     .00 LOL 246.00 VL  26.905 GAL   2.02 AZL  92.35 HCA 211.68 SMA 129.22 ECC .17659 INC 2.3477 VI  29.390
   RP  107.60 LAP    1.23 LOP  97.66 VP  37.945 GAP   3.28 AZP  88.00 TAL 170.52 TAP  22.19 RCA 106.40 APO 152.04 V2  35.220
   RC 107.975 GL  -22.91 GP  -12.36 ZAL  76.68 ZAP 129.79 ETS 350.64 ZAE 141.30 ETE 193.65 ZAC 120.42 ETC  10.54 CLP-130.93
  PLANETOCENTRIC CONIC
   C3   8.004 VHL  2.829 DLA -17.26 RAL 162.04 RAD 6567.3 VEL 11.375 PTH   1.96 VHP  3.598 DPA   3.90 RAP 146.07 ECC 1.1317
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00      8 10 22   1450.69      3.35    357.15      10.99      118.13    8 34 33     850.7       7.09      350.46
      90.00     15 27 34   5231.84     26.53    235.50      14.73       79.72   16 54 45    4631.8      24.84      227.23
     100.00      9 21 45   1220.33      2.44    339.71      10.49      119.80    9 42  6     620.3       6.39      333.15
     100.00     16 58 51   4937.43     27.55    213.61      14.50       77.92   18 21  9    4337.4      25.61      205.35
     110.00     10  8  6   1075.15       .14    327.26       9.05      124.18   10 26  1     475.1       4.62      321.05
     110.00     18 29  0   4655.38     30.18    191.42      13.73       73.13   19 46 36    4055.4      27.58      183.19
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE-1.1192 TRA  .5946 TC3-5.8299 BAU  .6347      SGT 4196.3 SGR  799.7 SG3 1024.1       ST  2300.0 SR   305.8 SS  2197.5
   RDE -.1368 RRA  .2016 RC3-1.0894 FAU .13165      RRT  .9537 RRF  .9647 RTF  .9826       CRT  .9642 CRS -.9785 CST -.9980
   FDE-3.3984 FRA 2.5043 FC-14.2392 BSP  13198      SGB 4271.8 R23  .0816 R13  .9835       LSA 3193.4 MSA  122.2 SSA   13.8
   BDE 1.1275 BRA  .6278 BC3 5.9308 FSP  -3321      SG1 4265.3 SG2  236.6 THA  10.33       EL1 2318.9 EL2   80.5 ALF   7.31

LAUNCH DATE  MAY 28 1967                          FLIGHT TIME 172.00                          ARRIVAL DATE  NOV 16 1967

  HELIOCENTRIC CONIC                                  DISTANCE 476.498
   RL  151.59 LAL     .00 LOL 246.00 VL  26.887 GAL   2.19 AZL  92.46 HCA 214.92 SMA 129.10 ECC .17827 INC 2.4628 VI  29.390
   RP  107.58 LAP    1.41 LOP 100.89 VP  37.939 GAP   3.67 AZP  87.98 TAL 169.81 TAP  24.73 RCA 106.08 APO 152.11 V2  35.227
   RC 110.226 GL  -23.55 GP  -10.92 ZAL  75.33 ZAP 133.14 ETS 350.74 ZAE 139.56 ETE 191.32 ZAC 120.14 ETC  11.37 CLP-134.14
  PLANETOCENTRIC CONIC
   C3   8.353 VHL  2.890 DLA -18.42 RAL 163.12 RAD 6567.3 VEL 11.390 PTH   1.97 VHP  3.729 DPA   5.26 RAP 146.55 ECC 1.1375
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00      8 26 33   1413.69      4.54    355.08      12.82      117.98    8 50  7     813.7       8.25      348.36
      90.00     15 20  2   5284.70     27.12    239.25      16.82       81.51   16 48  7    4684.7      25.66      230.89
     100.00      9 36 50   1186.87      3.57    337.87      12.29      119.70    9 56 37     586.9       7.50      331.28
     100.00     16 52 26   4986.75     28.21    217.13      16.62       79.66   18 15 33    4386.7      26.49      208.75
     110.00     10 20 59   1048.54      1.16    325.87      10.78      124.17   10 38 28     448.5       5.63      319.65
     110.00     18 24 46   4697.85     30.98    194.47      15.90       74.78   19 43  4    4097.8      28.58      186.09
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE-1.2421 TRA  .6731 TC3-5.8820 BAU  .6651      SGT 4427.3 SGR  704.5 SG3  960.1       ST  2500.4 SR   243.3 SS  2186.7
   RDE -.1067 RRA  .1900 RC3 -.9380 FAU .12215      RRT  .9370 RRF  .9453 RTF  .9830       CRT  .9415 CRS -.9594 CST -.9982
   FDE-3.3325 FRA 2.4531 FC-12.6609 BSP  13907      SGB 4483.0 R23  .0614 R13  .9835       LSA 3328.2 MSA  123.2 SSA   14.6
   BDE 1.2466 BRA  .6994 BC3 5.9563 FSP  -3122      SG1 4476.3 SG2  243.4 THA   8.51       EL1 2510.9 EL2   81.6 ALF   5.24
```

LAUNCH DATE MAY 28 1967 FLIGHT TIME 174.00 ARRIVAL DATE NOV 18 1967

HELIOCENTRIC CONIC DISTANCE 482.659
RL 151.59 LAL .00 LOL 246.00 VL 26.868 GAL 2.38 AZL 92.56 HCA 218.16 SMA 128.97 ECC .18013 INC 2.5606 V1 29.390
RP 107.56 LAP 1.58 LOP 104.13 VP 37.931 GAP 4.06 AZP 87.99 TAL 169.07 TAP 27.23 RCA 105.74 APO 152.20 V2 35.233
RC 112.475 GL -23.96 GP -9.72 ZAL 73.91 ZAP 136.23 ETS 350.83 ZAE 137.93 ETE 189.57 ZAC 119.67 ETC 12.04 CLP-137.11
PLANETOCENTRIC CONIC
C3 8.719 VHL 2.953 DLA -19.42 RAL 164.36 RAD 6567.3 VEL 11.407 PTH 1.97 VHP 3.872 DPA 6.31 RAP 147.19 ECC 1.1435

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 42 11	1381.75	5.56	353.28	14.81	117.81	9 5 12	781.8	9.24	346.53
90.00	15 14 16	5332.85	27.55	242.71	19.03	83.19	16 43 9	4732.8	26.32	234.26
100.00	9 51 24	1158.35	4.53	336.30	14.25	119.58	10 10 43	558.4	8.44	329.69
100.00	16 47 43	5031.48	28.71	220.36	18.86	81.29	18 11 35	4431.5	27.21	211.88
110.00	10 33 30	1026.43	2.00	324.72	12.67	124.13	10 50 37	426.4	6.47	318.48
110.00	18 22 7	4736.17	31.63	197.26	18.19	76.31	19 41 3	4136.2	29.43	188.75

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-1.3572 TRA .7612 TC3-5.8838 BAU .6924 SGT 4632.7 SGR 629.1 SG3 895.2 ST 2677.2 SR 189.6 SS 2155.4
RDE -.0783 RRA .1822 RC3 -.8160 FAU .11241 RRT .9132 RRF .9188 RTF .9829 CRT .8954 CRS -.9188 CST -.9984
FDE-3.2291 FRA 2.4135 FC-11.1616 BSP 14505 SGB 4675.2 R23 .0454 R13 .9832 LSA 3439.9 MSA 124.7 SSA 15.3
BDE 1.3595 BRA .7827 BC3 5.9401 FSP -2905 SG1 4668.3 SG2 254.4 THA 7.09 EL1 2682.6 EL2 84.2 ALF 3.63

LAUNCH DATE MAY 28 1967 FLIGHT TIME 176.00 ARRIVAL DATE NOV 20 1967

HELIOCENTRIC CONIC DISTANCE 488.799
RL 151.59 LAL .00 LOL 246.00 VL 26.847 GAL 2.58 AZL 92.65 HCA 221.40 SMA 128.83 ECC .18216 INC 2.6452 V1 29.390
RP 107.54 LAP 1.75 LOP 107.37 VP 37.922 GAP 4.46 AZP 88.02 TAL 168.30 TAP 29.70 RCA 105.36 APO 152.30 V2 35.239
RC 114.720 GL -24.21 GP -8.72 ZAL 72.44 ZAP 139.09 ETS 350.90 ZAE 136.42 ETE 188.23 ZAC 119.01 ETC 12.59 CLP-139.87
PLANETOCENTRIC CONIC
C3 9.109 VHL 3.018 DLA -20.28 RAL 165.72 RAD 6567.3 VEL 11.424 PTH 1.98 VHP 4.024 DPA 7.10 RAP 147.96 ECC 1.1499

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 57 23	1353.94	6.44	351.71	16.94	117.63	9 19 57	753.9	10.09	344.94
90.00	15 9 54	5377.46	27.87	245.93	21.35	84.78	16 39 32	4777.5	26.86	237.41
100.00	10 5 35	1133.88	5.35	334.94	16.34	119.45	10 24 29	533.9	9.24	328.31
100.00	16 44 24	5072.75	29.10	223.37	21.20	82.83	18 8 57	4472.8	27.80	214.80
110.00	10 45 44	1008.04	2.70	323.76	14.70	124.09	11 2 32	408.0	7.16	317.51
110.00	18 20 44	4771.35	32.17	199.87	20.59	77.77	19 40 15	4171.4	30.15	191.23

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-1.4702 TRA .8540 TC3-5.8624 BAU .7193 SGT 4827.0 SGR 571.3 SG3 834.6 ST 2840.8 SR 146.7 SS 2118.7
RDE -.0524 RRA .1763 RC3 -.7204 FAU .10357 RRT .8824 RRF .8848 RTF .9829 CRT .8024 CRS -.8331 CST -.9985
FDE-3.1177 FRA 2.3685 FC3-9.8435 BSP 15142 SGB 4860.6 R23 .0317 R13 .9831 LSA 3544.7 MSA 125.7 SSA 15.9
BDE 1.4711 BRA .8720 BC3 5.9065 FSP -2722 SG1 4853.3 SG2 267.4 THA 5.98 EL1 2843.2 EL2 87.5 ALF 2.37

LAUNCH DATE MAY 28 1967 FLIGHT TIME 178.00 ARRIVAL DATE NOV 22 1967

HELIOCENTRIC CONIC DISTANCE 494.917
RL 151.59 LAL .00 LOL 246.00 VL 26.825 GAL 2.79 AZL 92.72 HCA 224.65 SMA 128.68 ECC .18436 INC 2.7197 V1 29.390
RP 107.52 LAP 1.91 LOP 110.61 VP 37.911 GAP 4.85 AZP 88.06 TAL 167.48 TAP 32.13 RCA 104.96 APO 152.41 V2 35.244
RC 116.961 GL -24.32 GP -7.88 ZAL 70.90 ZAP 141.74 ETS 350.95 ZAE 135.04 ETE 187.19 ZAC 118.18 ETC 13.02 CLP-142.44
PLANETOCENTRIC CONIC
C3 9.530 VHL 3.087 DLA -21.05 RAL 167.18 RAD 6567.3 VEL 11.442 PTH 1.98 VHP 4.186 DPA 7.68 RAP 148.87 ECC 1.1568

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 12 17	1329.65	7.20	350.34	19.19	117.46	9 34 27	729.6	10.83	343.53
90.00	15 6 43	5419.34	28.09	248.98	23.77	86.29	16 37 3	4819.3	27.28	240.41
100.00	10 19 27	1112.87	6.06	333.78	18.57	119.33	10 38 0	512.9	9.92	327.12
100.00	16 42 14	5111.35	29.39	226.20	23.65	84.29	18 7 26	4511.3	28.29	217.57
110.00	10 57 45	992.85	3.28	322.96	16.85	124.04	11 14 18	392.8	7.73	316.70
110.00	18 20 26	4804.13	32.62	202.32	23.11	79.15	19 40 30	4204.1	30.78	193.58

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-1.5797 TRA .9544 TC3-5.8089 BAU .7446 SGT 5006.1 SGR 526.7 SG3 777.4 ST 2988.7 SR 115.9 SS 2075.1
RDE -.0281 RRA .1724 RC3 -.6421 FAU .09526 RRT .8440 RRF .8432 RTF .9828 CRT .6140 CRS -.6539 CST -.9986
FDE-2.9982 FRA 2.3282 FC3-8.6539 BSP 15724 SGB 5033.7 R23 .0207 R13 .9829 LSA 3638.0 MSA 127.1 SSA 16.4
BDE 1.5799 BRA .9698 BC3 5.8443 FSP -2542 SG1 5025.8 SG2 281.4 THA 5.09 EL1 2989.5 EL2 91.5 ALF 1.37

LAUNCH DATE MAY 28 1967 FLIGHT TIME 180.00 ARRIVAL DATE NOV 24 1967

HELIOCENTRIC CONIC DISTANCE 501.013
RL 151.59 LAL .00 LOL 246.00 VL 26.803 GAL 3.02 AZL 92.79 HCA 227.89 SMA 128.53 ECC .18675 INC 2.7861 V1 29.390
RP 107.51 LAP 2.07 LOP 113.86 VP 37.899 GAP 5.24 AZP 88.13 TAL 166.64 TAP 34.53 RCA 104.53 APO 152.54 V2 35.248
RC 119.197 GL -24.31 GP -7.17 ZAL 69.32 ZAP 144.21 ETS 350.97 ZAE 133.78 ETE 186.37 ZAC 117.21 ETC 13.36 CLP-144.84
PLANETOCENTRIC CONIC
C3 9.987 VHL 3.160 DLA -21.72 RAL 168.75 RAD 6567.4 VEL 11.462 PTH 1.99 VHP 4.356 DPA 8.09 RAP 149.91 ECC 1.1644

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 26 54	1308.49	7.87	349.13	21.57	117.29	9 48 42	708.5	11.46	342.30
90.00	15 4 34	5459.04	28.23	251.87	26.29	87.74	16 35 33	4859.0	27.62	243.26
100.00	10 33 3	1094.97	6.65	332.79	20.91	119.21	10 51 18	495.0	10.50	326.11
100.00	16 41 5	5147.79	29.61	228.89	26.20	85.69	18 6 53	4547.8	28.70	220.20
110.00	11 9 34	980.52	3.75	322.32	19.12	124.00	11 25 54	380.5	8.19	316.04
110.00	18 21 4	4835.00	32.99	204.65	25.72	80.49	19 41 39	4235.0	31.32	195.82

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-1.6856 TRA 1.0623 TC3-5.7238 BAU .7681 SGT 5169.6 SGR 492.6 SG3 723.4 ST 3120.6 SR 100.4 SS 2025.6
RDE -.0051 RRA .1698 RC3 -.5765 FAU .08747 RRT .7985 RRF .7941 RTF .9826 CRT .2909 CRS -.3383 CST -.9987
FDE-2.8742 FRA 2.2903 FC3-7.5823 BSP 16269 SGB 5193.0 R23 .0117 R13 .9826 LSA 3719.4 MSA 128.8 SSA 16.7
BDE 1.6856 BRA 1.0758 BC3 5.7527 FSP -2375 SG1 5184.6 SG2 295.7 THA 4.36 EL1 3120.7 EL2 96.1 ALF .54

LAUNCH DATE MAY 28 1967 FLIGHT TIME 182.00 ARRIVAL DATE NOV 26 1967

DISTANCE 507.086

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.779 GAL 3.26 AZL 92.85 HCA 231.14 SMA 128.37 ECC .18933 INC 2.8460 V1 29.390
RP 107.50 LAP 2.22 LOP 117.10 VP 37.886 GAP 5.64 AZP 88.21 TAL 165.77 TAP 36.90 RCA 104.07 APO 152.68 V2 35.252
RC 121.426 GL -24.20 GP -6.55 ZAL 67.70 ZAP 146.51 ETS 350.96 ZAE 132.64 ETE 185.72 ZAC 116.10 ETC 13.62 CLP-147.08

PLANETOCENTRIC CONIC
C3 10.488 VHL 3.239 DLA -22.32 RAL 170.38 RAD 6567.4 VEL 11.484 PTH 2.00 VHP 4.533 DPA 8.34 RAP 151.07 ECC 1.1726

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 41 15	1290.25	8.43	348.10	24.05	117.13	10 2 45	690.3	12.01	341.24
90.00	15 3 18	5496.93	28.30	254.64	28.90	89.12	16 34 55	4896.9	27.88	246.00
100.00	10 46 24	1079.96	7.15	331.95	23.36	119.10	11 4 24	480.0	10.98	325.25
100.00	16 40 49	5182.45	29.76	231.45	28.85	87.03	18 7 12	4582.4	29.03	222.72
110.00	11 21 12	970.87	4.12	321.81	21.49	123.96	11 37 23	370.9	8.55	315.53
110.00	18 22 31	4864.31	33.30	206.88	28.44	81.77	19 43 35	4264.3	31.80	197.97

DIFFERENTIAL CORRECTIONS
TOE-1.7881 TRA 1.1796 TC3-5.6076 BAU .7896
RDE .0170 RRA .1684 RC3 -.5200 FAU .08016
FDE-2.7489 FRA 2.2587 FC3-6.6165 BSP 16762
BDE 1.7882 BRA 1.1916 BC3 5.6316 FSP -2215

MID-COURSE EXECUTION ACCURACY
SGT 5318.8 SGR 466.9 SG3 673.0
RRT .7467 RRF .7390 RTF .9823
SGB 5339.2 R23 .0045 R13 .9823
SG1 5330.2 SG2 309.9 THA 3.76

ORBIT DETERMINATION ACCURACY
ST 3236.9 SR 101.7 SS 1971.8
CRT -.0873 CRS .0389 CST -.9987
LSA 3789.3 MSA 131.0 SSA 17.3
EL1 3237.0 EL2 101.3 ALF 179.84

LAUNCH DATE MAY 28 1967 FLIGHT TIME 184.00 ARRIVAL DATE NOV 28 1967

DISTANCE 513.136

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.755 GAL 3.52 AZL 92.90 HCA 234.39 SMA 128.21 ECC .19211 INC 2.9007 V1 29.390
RP 107.49 LAP 2.36 LOP 120.35 VP 37.872 GAP 6.04 AZP 88.31 TAL 164.86 TAP 39.25 RCA 103.58 APO 152.84 V2 35.255
RC 123.648 GL -24.00 GP -6.02 ZAL 66.04 ZAP 148.66 ETS 350.91 ZAE 131.61 ETE 185.19 ZAC 114.87 ETC 13.80 CLP-149.18

PLANETOCENTRIC CONIC
C3 11.039 VHL 3.323 DLA -22.85 RAL 172.09 RAD 6567.4 VEL 11.508 PTH 2.00 VHP 4.717 DPA 8.45 RAP 152.33 ECC 1.1817

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 55 18	1274.85	8.91	347.22	26.63	116.99	10 16 33	674.8	12.46	340.34
90.00	15 2 51	5533.23	28.31	257.30	31.60	90.46	16 35 4	4933.2	28.08	248.64
100.00	10 59 28	1067.75	7.55	331.27	25.90	119.01	11 17 15	467.7	11.37	324.55
100.00	16 41 22	5215.56	29.85	233.91	31.58	88.32	18 8 18	4615.6	29.30	225.15
110.00	11 32 38	963.77	4.39	321.44	23.95	123.93	11 48 41	363.8	8.82	315.15
110.00	18 24 42	4892.31	33.55	209.03	31.25	83.02	19 46 14	4292.3	32.22	200.05

DIFFERENTIAL CORRECTIONS
TOE-1.8864 TRA 1.3078 TC3-5.4596 BAU .8088
RDE .0385 RRA .1679 RC3 -.4704 FAU .07325
FDE-2.6229 FRA 2.2340 FC3-5.7442 BSP 17173
BDE 1.8868 BRA 1.3185 BC3 5.4798 FSP -2061

MID-COURSE EXECUTION ACCURACY
SGT 5452.8 SGR 448.1 SG3 626.1
RRT .6902 RRF .6793 RTF .9818
SGB 5471.2 R23 -.0011 R13 .9818
SG1 5461.6 SG2 323.7 THA 3.26

ORBIT DETERMINATION ACCURACY
ST 3336.6 SR 115.7 SS 1913.6
CRT -.3782 CRS .3339 CST -.9988
LSA 3845.8 MSA 133.9 SSA 17.4
EL1 3336.9 EL2 107.1 ALF 179.25

LAUNCH DATE MAY 28 1967 FLIGHT TIME 186.00 ARRIVAL DATE NOV 30 1967

DISTANCE 519.159

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.730 GAL 3.80 AZL 92.95 HCA 237.63 SMA 128.05 ECC .19510 INC 2.9512 V1 29.390
RP 107.48 LAP 2.49 LOP 123.60 VP 37.856 GAP 6.44 AZP 88.42 TAL 163.93 TAP 41.57 RCA 103.06 APO 153.03 V2 35.257
RC 125.861 GL -23.72 GP -5.56 ZAL 64.36 ZAP 150.68 ETS 350.83 ZAE 130.68 ETE 184.76 ZAC 113.54 ETC 13.93 CLP-151.16

PLANETOCENTRIC CONIC
C3 11.649 VHL 3.413 DLA -23.32 RAL 173.85 RAD 6567.4 VEL 11.534 PTH 2.01 VHP 4.909 DPA 8.45 RAP 153.69 ECC 1.1917

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 9 1	1262.26	9.30	346.49	29.29	116.87	10 30 3	662.3	12.83	339.60
90.00	15 3 10	5568.09	28.27	259.85	34.37	91.73	16 35 58	4968.1	28.21	251.18
100.00	11 12 12	1058.30	7.87	330.74	28.52	118.93	11 29 51	458.3	11.67	324.01
100.00	16 42 40	5247.28	29.89	236.27	34.39	89.56	18 10 7	4647.3	29.51	227.48
110.00	11 43 49	959.17	4.56	321.20	26.50	123.91	11 59 48	359.2	8.99	314.90
110.00	18 27 32	4919.18	33.75	211.10	34.15	84.23	19 49 31	4319.2	32.59	202.06

DIFFERENTIAL CORRECTIONS
TOE-1.9846 TRA 1.4432 TC3-5.2966 BAU .8275
RDE .0594 RRA .1677 RC3 -.4268 FAU .06704
FDE-2.5050 FRA 2.2094 FC3-4.9823 BSP 17604
BDE 1.9855 BRA 1.4529 BC3 5.3138 FSP -1926

MID-COURSE EXECUTION ACCURACY
SGT 5579.6 SGR 434.6 SG3 583.2
RRT .6309 RRF .6169 RTF .9814
SGB 5596.5 R23 -.0059 R13 .9814
SG1 5586.4 SG2 336.7 THA 2.82

ORBIT DETERMINATION ACCURACY
ST 3426.1 SR 136.0 SS 1856.6
CRT -.5553 CRS .5162 CST -.9988
LSA 3896.7 MSA 137.1 SSA 17.4
EL1 3426.9 EL2 113.1 ALF 178.74

LAUNCH DATE MAY 28 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 2 1967

DISTANCE 525.156

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.704 GAL 4.10 AZL 93.00 HCA 240.88 SMA 127.88 ECC .19831 INC 2.9981 V1 29.390
RP 107.48 LAP 2.62 LOP 126.85 VP 37.839 GAP 6.86 AZP 88.54 TAL 162.98 TAP 43.86 RCA 102.52 APO 153.24 V2 35.258
RC 128.066 GL -23.38 GP -5.16 ZAL 62.65 ZAP 152.58 ETS 350.71 ZAE 129.84 ETE 184.41 ZAC 112.11 ETC 14.01 CLP-153.03

PLANETOCENTRIC CONIC
C3 12.325 VHL 3.511 DLA -23.73 RAL 175.65 RAD 6567.5 VEL 11.563 PTH 2.02 VHP 5.108 DPA 8.35 RAP 155.13 ECC 1.2028

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 22 21	1252.52	9.60	345.93	32.03	116.77	10 43 14	652.5	13.11	339.02
90.00	15 4 12	5601.57	28.18	262.29	37.22	92.96	16 37 34	5001.6	28.29	253.63
100.00	11 24 36	1051.61	8.09	330.36	31.23	118.88	11 42 7	451.6	11.88	323.63
100.00	16 44 39	5277.71	29.88	238.53	37.28	90.75	18 12 37	4677.7	29.67	229.73
110.00	11 54 45	957.03	4.65	321.09	29.12	123.90	12 10 42	357.0	9.02	314.79
110.00	18 30 59	4945.05	33.91	213.10	37.12	85.41	19 53 24	4345.1	32.90	204.01

DIFFERENTIAL CORRECTIONS
TOE-2.0817 TRA 1.5875 TC3-5.1155 BAU .8453
RDE .0801 RRA .1678 RC3 -.3877 FAU .06137
FDE-2.3933 FRA 2.1863 FC3-4.3109 BSP 18023
BDE 2.0833 BRA 1.5963 BC3 5.1301 FSP -1805

MID-COURSE EXECUTION ACCURACY
SGT 5696.7 SGR 425.0 SG3 543.8
RRT .5701 RRF .5531 RTF .9810
SGB 5712.6 R23 -.0101 R13 .9810
SG1 5701.9 SG2 348.9 THA 2.44

ORBIT DETERMINATION ACCURACY
ST 3503.6 SR 158.7 SS 1799.8
CRT -.6596 CRS .6251 CST -.9989
LSA 3939.6 MSA 140.5 SSA 17.4
EL1 3505.2 EL2 119.2 ALF 178.29

LAUNCH DATE MAY 28 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 4 1967

HELIOCENTRIC CONIC DISTANCE 531.124

RL 151.59 LAL .00 LOL 246.00 VL 26.677 GAL 4.41 AZL 93.04 HCA 244.13 SMA 127.70 ECC .20176 INC 3.0422 V1 29.390
RP 107.48 LAP 2.74 LOP 130.10 VP 37.821 GAP 7.27 AZP 88.67 TAL 162.00 TAP 46.13 RCA 101.94 APO 153.47 V2 35.259
RC 130.261 GL -22.98 GP -4.81 ZAL 60.94 ZAP 154.37 ETS 350.55 ZAE 129.08 ETE 184.11 ZAC 110.60 ETC 14.05 CLP-154.80

PLANETOCENTRIC CONIC

C3 13.076 VHL 3.616 DLA -24.09 RAL 177.49 RAD 6567.5 VEL 11.596 PTH 2.03 VHP 5.314 DPA 8.17 RAP 156.65 ECC 1.2152

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 35 14	1245.72	9.81	345.54	34.85	116.70	10 56 0	645.7	13.31	338.62
90.00	15 5 57	5633.70	28.04	264.63	40.13	94.12	16 39 51	5033.7	28.32	255.98
100.00	11 36 34	1047.74	8.21	330.15	34.00	118.84	11 54 2	447.7	12.00	323.41
100.00	16 47 18	5306.91	29.84	240.70	40.24	91.90	18 15 45	4706.9	29.78	231.89
110.00	12 5 23	957.37	4.63	321.11	31.80	123.91	12 21 20	357.4	9.05	314.81
110.00	18 34 59	4970.05	34.03	215.05	40.17	86.55	19 57 49	4370.0	33.18	205.91

DIFFERENTIAL CORRECTIONS
TDE-2.1769 TRA 1.7424 TC3-4.9148 BAU .8613
RDE .1007 RRA .1681 RC3 -.3517 FAU .05610
FDE-2.2863 FRA 2.1672 FC3-3.7143 BSP 18399
BDE 2.1792 BRA 1.7504 BC3 4.9274 FSP -1691

MID-COURSE EXECUTION ACCURACY
SGT 5803.2 SGR 418.6 SG3 507.4
RRT .5088 RRF .4892 RTF .9806
SGB 5818.2 R23 -.0135 R13 .9806
SG1 5807.1 SG2 360.1 THA 2.11

ORBIT DETERMINATION ACCURACY
ST 3568.2 SR 182.1 SS 1742.6
CRT -.7233 CRS .6923 CST -.9990
LSA 3972.5 MSA 144.4 SSA 17.3
EL1 3570.6 EL2 125.6 ALF 177.88

LAUNCH DATE MAY 28 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 6 1967

HELIOCENTRIC CONIC DISTANCE 537.063

RL 151.59 LAL .00 LOL 246.00 VL 26.650 GAL 4.74 AZL 93.08 HCA 247.38 SMA 127.53 ECC .20546 INC 3.0839 V1 29.390
RP 107.48 LAP 2.85 LOP 133.35 VP 37.802 GAP 7.70 AZP 88.81 TAL 161.01 TAP 48.38 RCA 101.32 APO 153.73 V2 35.259
RC 132.447 GL -22.52 GP -4.50 ZAL 59.22 ZAP 156.08 ETS 350.34 ZAE 128.39 ETE 183.86 ZAC 109.00 ETC 14.07 CLP-156.48

PLANETOCENTRIC CONIC

C3 13.912 VHL 3.730 DLA -24.39 RAL 179.34 RAD 6567.5 VEL 11.632 PTH 2.04 VHP 5.529 DPA 7.90 RAP 158.24 ECC 1.2290

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 47 37	1241.95	9.92	345.33	37.71	116.66	11 8 19	641.9	13.42	338.40
90.00	15 8 24	5664.47	27.87	266.87	43.11	95.23	16 42 48	5064.5	28.30	258.23
100.00	11 48 5	1046.71	8.25	330.09	36.82	118.83	12 5 32	446.7	12.03	323.35
100.00	16 50 36	5334.94	29.76	242.78	43.26	92.99	18 19 31	4734.9	29.85	233.97
110.00	12 15 41	960.17	4.53	321.25	34.54	123.92	12 31 41	360.2	8.95	314.96
110.00	18 39 30	4994.24	34.11	216.93	43.29	87.66	20 2 44	4394.2	33.41	207.76

DIFFERENTIAL CORRECTIONS
TDE-2.2677 TRA 1.9114 TC3-4.6905 BAU .8744
RDE .1215 RRA .1684 RC3 -.3180 FAU .05103
FDE-2.1803 FRA 2.1552 FC3-3.1755 BSP 18671
BDE 2.2710 BRA 1.9188 BC3 4.7012 FSP -1577

MID-COURSE EXECUTION ACCURACY
SGT 5896.8 SGR 414.5 SG3 473.6
RRT .4482 RRF .4266 RTF .9800
SGB 5911.3 R23 -.0161 R13 .9800
SG1 5899.7 SG2 370.3 THA 1.81

ORBIT DETERMINATION ACCURACY
ST 3616.8 SR 205.3 SS 1682.9
CRT -.7637 CRS .7352 CST -.9990
LSA 3991.6 MSA 149.1 SSA 17.2
EL1 3620.2 EL2 132.4 ALF 177.51

LAUNCH DATE MAY 28 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 8 1967

HELIOCENTRIC CONIC DISTANCE 542.969

RL 151.59 LAL .00 LOL 246.00 VL 26.623 GAL 5.10 AZL 93.12 HCA 250.62 SMA 127.35 ECC .20943 INC 3.1237 V1 29.390
RP 107.48 LAP 2.95 LOP 136.60 VP 37.781 GAP 8.13 AZP 88.96 TAL 159.99 TAP 50.62 RCA 100.68 APO 154.02 V2 35.258
RC 134.624 GL -22.03 GP -4.22 ZAL 57.50 ZAP 157.70 ETS 350.09 ZAE 127.77 ETE 183.64 ZAC 107.34 ETC 14.06 CLP-158.08

PLANETOCENTRIC CONIC

C3 14.846 VHL 3.853 DLA -24.65 RAL 181.21 RAD 6567.6 VEL 11.672 PTH 2.05 VHP 5.751 DPA 7.56 RAP 159.88 ECC 1.2443

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 59 24	1241.33	9.94	345.29	40.63	116.65	11 20 5	641.3	13.44	338.36
90.00	15 11 31	5693.84	27.67	268.99	46.14	96.28	16 46 25	5093.8	28.25	260.38
100.00	11 59 5	1048.62	8.18	330.20	39.69	118.85	12 16 34	448.6	11.97	323.46
100.00	16 54 30	5361.79	29.64	244.77	46.34	94.03	18 23 52	4761.8	29.89	235.97
110.00	12 25 36	965.46	4.33	321.53	37.33	123.94	12 41 42	365.5	8.75	315.24
110.00	18 44 29	5017.71	34.16	218.76	46.47	88.75	20 8 7	4417.7	33.61	209.56

DIFFERENTIAL CORRECTIONS
TDE-2.3612 TRA 2.0878 TC3-4.4646 BAU .8879
RDE .1425 RRA .1683 RC3 -.2871 FAU .04656
FDE-2.0852 FRA 2.1410 FC3-2.7152 BSP 19005
BDE 2.3655 BRA 2.0946 BC3 4.4738 FSP -1482

MID-COURSE EXECUTION ACCURACY
SGT 5986.2 SGR 411.9 SG3 442.8
RRT .3886 RRF .3651 RTF .9796
SGB 6000.3 R23 -.0185 R13 .9796
SG1 5988.3 SG2 379.4 THA 1.54

ORBIT DETERMINATION ACCURACY
ST 3659.2 SR 227.5 SS 1627.3
CRT -.7910 CRS .7647 CST -.9990
LSA 4008.1 MSA 153.7 SSA 16.9
EL1 3663.6 EL2 139.0 ALF 177.18

LAUNCH DATE MAY 28 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 10 1967

HELIOCENTRIC CONIC DISTANCE 548.840

RL 151.59 LAL .00 LOL 246.00 VL 26.595 GAL 5.47 AZL 93.16 HCA 253.87 SMA 127.17 ECC .21368 INC 3.1619 V1 29.390
RP 107.48 LAP 3.04 LOP 139.85 VP 37.760 GAP 8.58 AZP 89.12 TAL 158.96 TAP 52.84 RCA 99.99 APO 154.34 V2 35.256
RC 136.791 GL -21.49 GP -3.98 ZAL 55.79 ZAP 159.24 ETS 349.78 ZAE 127.20 ETE 183.46 ZAC 105.62 ETC 14.03 CLP-159.61

PLANETOCENTRIC CONIC

C3 15.889 VHL 3.986 DLA -24.86 RAL 183.08 RAD 6567.6 VEL 11.716 PTH 2.06 VHP 5.983 DPA 7.15 RAP 161.57 ECC 1.2615

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 10 32	1243.98	9.86	345.44	43.58	116.68	11 31 16	644.0	13.36	338.52
90.00	15 15 19	5721.77	27.44	271.01	49.22	97.26	16 50 41	5121.8	28.17	262.42
100.00	12 9 32	1053.48	8.02	330.47	42.61	118.89	12 27 5	453.5	11.82	323.74
100.00	16 59 0	5387.50	29.51	246.67	49.47	95.02	18 28 47	4787.5	29.89	237.88
110.00	12 35 7	973.23	4.03	321.94	40.15	123.97	12 51 20	373.2	8.46	315.65
110.00	18 49 54	5040.51	34.18	220.54	49.71	89.80	20 13 55	4440.5	33.78	211.32

DIFFERENTIAL CORRECTIONS
TDE-2.4538 TRA 2.2764 TC3-4.2286 BAU .8999
RDE .1637 RRA .1679 RC3 -.2581 FAU .04239
FDE-1.9951 FRA 2.1301 FC3-2.3096 BSP 19318
BDE 2.4592 BRA 2.2825 BC3 4.2365 FSP -1393

MID-COURSE EXECUTION ACCURACY
SGT 6067.0 SGR 410.5 SG3 414.4
RRT .3304 RRF .3056 RTF .9792
SGB 6080.9 R23 -.0204 R13 .9791
SG1 6068.6 SG2 387.3 THA 1.29

ORBIT DETERMINATION ACCURACY
ST 3690.5 SR 248.6 SS 1572.4
CRT -.8100 CRS .7853 CST -.9991
LSA 4016.1 MSA 158.5 SSA 16.7
EL1 3696.0 EL2 145.6 ALF 176.87

LAUNCH DATE MAY 28 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 12 1967

DISTANCE 554.673

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.567 GAL 5.87 AZL 93.20 HCA 257.12 SMA 126.98 ECC .21825 INC 3.1989 V1 29.390
RP 107.49 LAP 3.12 LOP 143.10 VP 37.738 GAP 9.03 AZP 89.29 TAL 157.92 TAP 55.04 RCA 99.27 APO 154.70 V2 35.254
RC 138.949 GL -20.92 GP -3.76 ZAL 54.09 ZAP 160.72 ETS 349.42 ZAE 126.68 ETE 183.29 ZAC 103.85 ETC 13.99 CLP-161.08

PLANETOCENTRIC CONIC
C3 17.058 VHL 4.130 DLA -25.03 RAL 184.95 RAD 6567.7 VEL 11.766 PTH 2.08 VHP 6.225 OPA 6.69 RAP 163.31 ECC 1.2807

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 20 57	1249.98	9.68	345.79	46.57	116.74	11 41 47	650.0	13.19	338.87
90.00	15 19 47	5748.23	27.20	272.91	52.35	98.18	16 55 36	5148.2	28.05	264.34
100.00	12 19 22	1061.34	7.77	330.91	45.55	118.96	12 37 4	461.3	11.57	324.19
100.00	17 4 3	5412.10	29.35	248.48	52.65	95.96	18 34 15	4812.1	29.86	239.71
110.00	12 44 12	983.48	3.64	322.47	43.01	124.01	13 0 35	383.5	8.08	316.20
110.00	18 55 43	5062.73	34.17	222.28	52.99	90.83	20 20 6	4462.7	33.91	213.04

DIFFERENTIAL CORRECTIONS
TDE-2.5460 TRA 2.4773 TC3-3.9858 BAU .9105
RDE .1855 RRA .1670 RC3 -.2309 FAU .03853
FDE-1.9105 FRA 2.1217 FC3-1.9554 BSP 19598
BDE 2.5527 BRA 2.4829 BC3 3.9925 FSP -1311

MID-COURSE EXECUTION ACCURACY
SGT 6140.0 SGR 409.8 SG3 388.2
RRT .2738 RRF .2480 RTF .9787
SGB 6153.7 R23 -.0219 R13 .9787
SG1 6141.1 SG2 394.1 THA 1.05

ORBIT DETERMINATION ACCURACY
ST 3712.0 SR 268.5 SS 1519.0
CRT -.8235 CRS .8002 CST -.9991
LSA 4016.4 MSA 163.4 SSA 16.4
EL1 3718.6 EL2 152.1 ALF 176.59

LAUNCH DATE MAY 28 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 14 1967

DISTANCE 560.465

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.538 GAL 6.29 AZL 93.23 HCA 260.37 SMA 126.80 ECC .22315 INC 3.2349 V1 29.390
RP 107.50 LAP 3.19 LOP 146.35 VP 37.715 GAP 9.50 AZP 89.46 TAL 156.87 TAP 57.23 RCA 98.50 APO 155.09 V2 35.251
RC 141.095 GL -20.32 GP -3.57 ZAL 52.42 ZAP 162.15 ETS 348.98 ZAE 126.21 ETE 183.14 ZAC 102.03 ETC 13.94 CLP-162.50

PLANETOCENTRIC CONIC
C3 18.368 VHL 4.286 DLA -25.15 RAL 186.80 RAD 6567.7 VEL 11.822 PTH 2.09 VHP 6.477 OPA 6.17 RAP 165.09 ECC 1.3023

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 30 37	1259.38	9.39	346.33	49.57	116.84	11 51 36	659.4	12.91	339.43
90.00	15 24 55	5773.23	26.95	274.69	55.52	99.05	17 1 8	5173.2	27.92	266.16
100.00	12 28 35	1072.21	7.41	331.52	48.51	119.04	12 46 27	472.2	11.22	324.81
100.00	17 9 37	5435.63	29.17	250.20	55.88	96.85	18 40 13	4835.6	29.81	241.46
110.00	12 52 49	996.18	3.16	323.14	45.89	124.05	13 9 25	396.2	7.60	316.88
110.00	19 1 53	5084.42	34.14	223.97	56.32	91.83	20 26 37	4484.4	34.02	214.73

DIFFERENTIAL CORRECTIONS
TDE-2.6344 TRA 2.6948 TC3-3.7300 BAU .9174
RDE .2077 RRA .1654 RC3 -.2053 FAU .03477
FDE-1.8277 FRA 2.1187 FC3-1.6386 BSP 19764
BDE 2.6426 BRA 2.6999 BC3 3.7357 FSP -1227

MID-COURSE EXECUTION ACCURACY
SGT 6202.2 SGR 409.6 SG3 363.9
RRT .2192 RRF .1931 RTF .9782
SGB 6215.7 R23 -.0228 R13 .9782
SG1 6202.8 SG2 399.6 THA .83

ORBIT DETERMINATION ACCURACY
ST 3720.0 SR 287.3 SS 1465.0
CRT -.8329 CRS .8105 CST -.9992
LSA 4004.8 MSA 168.7 SSA 16.1
EL1 3727.7 EL2 158.7 ALF 176.31

LAUNCH DATE MAY 28 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 16 1967

DISTANCE 566.211

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.509 GAL 6.74 AZL 93.27 HCA 263.61 SMA 126.61 ECC .22842 INC 3.2702 V1 29.390
RP 107.51 LAP 3.25 LOP 149.60 VP 37.691 GAP 9.99 AZP 89.64 TAL 155.81 TAP 59.42 RCA 97.69 APO 155.53 V2 35.247
RC 143.232 GL -19.70 GP -3.39 ZAL 50.76 ZAP 163.52 ETS 348.47 ZAE 125.77 ETE 183.01 ZAC 100.16 ETC 13.89 CLP-163.86

PLANETOCENTRIC CONIC
C3 19.840 VHL 4.454 DLA -25.24 RAL 188.63 RAD 6567.8 VEL 11.884 PTH 2.11 VHP 6.741 OPA 5.61 RAP 166.90 ECC 1.3265

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 39 29	1272.22	8.99	347.06	52.58	116.96	12 0 41	672.2	12.54	340.18
90.00	15 30 39	5796.76	26.68	276.36	58.74	99.84	17 7 16	5196.8	27.77	267.87
100.00	12 37 8	1086.08	6.95	332.29	51.48	119.15	12 55 14	486.1	10.78	325.60
100.00	17 15 41	5458.13	28.97	251.85	59.14	97.70	18 46 40	4858.1	29.74	243.13
110.00	13 0 58	1011.32	2.58	323.93	48.78	124.10	13 17 49	411.3	7.04	317.68
110.00	19 8 21	5105.66	34.08	225.63	59.69	92.81	20 33 26	4505.7	34.10	216.38

DIFFERENTIAL CORRECTIONS
TDE-2.7272 TRA 2.9222 TC3-3.4811 BAU .9246
RDE .2305 RRA .1630 RC3 -.1816 FAU .03142
FDE-1.7541 FRA 2.1148 FC3-1.3710 BSP 20015
BDE 2.7369 BRA 2.9267 BC3 3.4859 FSP -1157

MID-COURSE EXECUTION ACCURACY
SGT 6260.4 SGR 409.6 SG3 341.6
RRT .1656 RRF .1394 RTF .9779
SGB 6273.8 R23 -.0236 R13 .9779
SG1 6260.8 SG2 403.9 THA .62

ORBIT DETERMINATION ACCURACY
ST 3724.2 SR 304.5 SS 1415.5
CRT -.8402 CRS .8188 CST -.9992
LSA 3991.9 MSA 173.6 SSA 15.7
EL1 3733.0 EL2 164.8 ALF 176.06

LAUNCH DATE MAY 28 1967 FLIGHT TIME 204.00 ARRIVAL DATE DEC 18 1967

DISTANCE 571.906

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.480 GAL 7.22 AZL 93.31 HCA 266.86 SMA 126.43 ECC .23409 INC 3.3051 V1 29.390
RP 107.53 LAP 3.30 LOP 152.85 VP 37.667 GAP 10.50 AZP 89.82 TAL 154.74 TAP 61.60 RCA 96.83 APO 156.02 V2 35.243
RC 145.356 GL -19.07 GP -3.24 ZAL 49.14 ZAP 164.84 ETS 347.87 ZAE 125.36 ETE 182.88 ZAC 98.26 ETC 13.84 CLP-165.19

PLANETOCENTRIC CONIC
C3 21.496 VHL 4.636 DLA -25.28 RAL 190.44 RAD 6567.9 VEL 11.953 PTH 2.13 VHP 7.018 OPA 5.01 RAP 168.74 ECC 1.3538

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 47 33	1288.47	8.49	347.99	55.60	117.12	12 9 1	688.5	12.06	341.13
90.00	15 37 0	5818.90	26.42	277.93	61.98	100.59	17 13 59	5218.9	27.61	269.47
100.00	12 45 1	1102.91	6.39	333.23	54.46	119.26	13 3 24	502.9	10.24	326.56
100.00	17 22 12	5479.69	28.77	253.42	62.43	98.50	18 53 32	4879.7	29.64	244.72
110.00	13 8 38	1028.84	1.91	324.85	51.69	124.14	13 25 46	428.8	6.38	318.61
110.00	19 15 5	5126.52	34.00	227.25	63.09	93.77	20 40 32	4526.5	34.15	218.01

DIFFERENTIAL CORRECTIONS
TDE-2.8207 TRA 3.1643 TC3-3.2326 BAU .9301
RDE .2538 RRA .1596 RC3 -.1596 FAU .02831
FDE-1.6856 FRA 2.1135 FC3-1.1401 BSP 20237
BDE 2.8321 BRA 3.1684 BC3 3.2365 FSP -1091

MID-COURSE EXECUTION ACCURACY
SGT 6311.8 SGR 409.6 SG3 321.0
RRT .1135 RRF .0875 RTF .9776
SGB 6325.1 R23 -.0241 R13 .9776
SG1 6312.0 SG2 407.0 THA .42

ORBIT DETERMINATION ACCURACY
ST 3720.5 SR 320.4 SS 1368.2
CRT -.8455 CRS .8250 CST -.9992
LSA 3973.0 MSA 178.4 SSA 15.4
EL1 3730.4 EL2 170.6 ALF 175.83

LAUNCH DATE MAY 28 1967 FLIGHT TIME 206.00 ARRIVAL DATE DEC 20 1967

HELIOCENTRIC CONIC DISTANCE 577.546

RL 151.59 LAL .00 LOL 246.00 VL 26.451 GAL 7.73 AZL 93.34 HCA 270.10 SMA 126.24 ECC .24019 INC 3.3398 V1 29.390
RP 107.54 LAP 3.34 LOP 156.10 VP 37.641 GAP 11.02 AZP 90.01 TAL 153.67 TAP 63.77 RCA 95.92 APO 156.56 V2 35.237
RC 147.469 GL -18.42 GP -3.10 ZAL 47.55 ZAP 166.13 ETS 347.15 ZAE 124.98 ETE 182.77 ZAC 96.33 ETC 13.79 CLP-166.47

PLANETOCENTRIC CONIC

C3 23.363 VHL 4.834 DLA -25.29 RAL 192.21 RAD 6567.9 VEL 12.031 PTH 2.15 VHP 7.310 DPA 4.37 RAP 170.60 ECC 1.3845

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 54 47	1308.06	7.88	349.11	58.61	117.29	12 16 35	708.1	11.48	342.28
90.00	15 43 53	5839.71	26.15	279.39	65.26	101.27	17 21 13	5239.7	27.44	270.96
100.00	12 52 13	1122.62	5.73	334.32	57.45	119.39	13 10 56	522.6	9.60	327.67
100.00	17 29 8	5500.38	28.55	254.92	65.75	99.26	19 0 48	4900.4	29.53	246.25
110.00	13 15 47	1048.69	1.15	325.88	54.61	124.17	13 33 16	448.7	5.63	319.65
110.00	19 22 3	5147.07	33.90	228.85	66.52	94.71	20 47 51	4547.1	34.18	219.62

DIFFERENTIAL CORRECTIONS
TDE-2.9149 TRA 3.4224 TC3-2.9847 BAU .9332
RDE .2776 RRA .1551 RC3 -.1391 FAU .02537
FDE-1.6215 FRA 2.1148 FC3 -.9400 BSP 20434
BDE 2.9281 BRA 3.4259 BC3 2.9879 FSP -1030

MID-COURSE EXECUTION ACCURACY
SGT 6355.9 SGR 409.6 SG3 301.9
RRT .0627 RRF .0373 RTF .9773
SGB 6369.0 R23 -.0243 R13 .9773
SG1 6355.9 SG2 408.8 THA .23

ORBIT DETERMINATION ACCURACY
ST 3709.2 SR 334.7 SS 1322.8
CRT -.8495 CRS .8297 CST -.9993
LSA 3948.0 MSA 183.0 SSA 15.0
EL1 3720.1 EL2 176.1 ALF 175.61

LAUNCH DATE MAY 28 1967 FLIGHT TIME 208.00 ARRIVAL DATE DEC 22 1967

HELIOCENTRIC CONIC DISTANCE 583.123

RL 151.59 LAL .00 LOL 246.00 VL 26.422 GAL 8.27 AZL 93.37 HCA 273.34 SMA 126.06 ECC .24678 INC 3.3744 V1 29.390
RP 107.56 LAP 3.37 LOP 159.35 VP 37.615 GAP 11.57 AZP 90.20 TAL 152.61 TAP 65.95 RCA 94.95 APO 157.16 V2 35.231
RC 149.570 GL -17.75 GP -2.97 ZAL 45.99 ZAP 167.38 ETS 346.30 ZAE 124.62 ETE 182.66 ZAC 94.37 ETC 13.74 CLP-167.73

PLANETOCENTRIC CONIC

C3 25.471 VHL 5.047 DLA -25.27 RAL 193.94 RAD 6568.0 VEL 12.118 PTH 2.17 VHP 7.617 DPA 3.70 RAP 172.47 ECC 1.4192

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 1 13	1330.88	7.16	350.41	61.62	117.47	12 23 24	730.9	10.79	343.60
90.00	15 51 15	5859.32	25.88	280.77	68.57	101.91	17 28 55	5259.3	27.26	272.37
100.00	12 58 45	1145.12	4.98	335.57	60.43	119.51	13 17 51	545.1	8.87	328.94
100.00	17 36 25	5520.31	28.32	256.35	69.10	99.98	19 8 25	4920.3	29.41	247.72
110.00	13 22 27	1070.82	.30	327.04	57.52	124.18	13 40 17	470.8	4.79	320.82
110.00	19 29 13	5167.37	33.77	230.42	69.97	95.63	20 55 20	4567.4	34.18	221.20

DIFFERENTIAL CORRECTIONS
TDE-3.0108 TRA 3.6969 TC3-2.7405 BAU .9341
RDE .3021 RRA .1493 RC3 -.1204 FAU .02261
FDE-1.5621 FRA 2.1186 FC3 -.7684 BSP 20608
BDE 3.0259 BRA 3.6999 BC3 2.7432 FSP -973

MID-COURSE EXECUTION ACCURACY
SGT 6393.3 SGR 409.3 SG3 284.2
RRT .0128 RRF -.0115 RTF .9772
SGB 6406.4 R23 -.0241 R13 .9772
SG1 6393.3 SG2 409.3 THA .05

ORBIT DETERMINATION ACCURACY
ST 3691.7 SR 347.6 SS 1279.9
CRT -.8524 CRS .8333 CST -.9993
LSA 3918.2 MSA 187.3 SSA 14.7
EL1 3703.6 EL2 181.2 ALF 175.40

LAUNCH DATE MAY 28 1967 FLIGHT TIME 210.00 ARRIVAL DATE DEC 24 1967

HELIOCENTRIC CONIC DISTANCE 588.630

RL 151.59 LAL .00 LOL 246.00 VL 26.392 GAL 8.85 AZL 93.41 HCA 276.59 SMA 125.87 ECC .25389 INC 3.4093 V1 29.390
RP 107.58 LAP 3.39 LOP 162.60 VP 37.588 GAP 12.15 AZP 90.39 TAL 151.54 TAP 68.13 RCA 93.91 APO 157.83 V2 35.225
RC 151.657 GL -17.09 GP -2.85 ZAL 44.48 ZAP 168.60 ETS 345.27 ZAE 124.27 ETE 182.56 ZAC 92.39 ETC 13.70 CLP-168.96

PLANETOCENTRIC CONIC

C3 27.858 VHL 5.278 DLA -25.21 RAL 195.63 RAD 6568.1 VEL 12.216 PTH 2.20 VHP 7.943 DPA 3.00 RAP 174.37 ECC 1.4585

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 6 53	1356.78	6.35	351.87	64.61	117.65	12 29 30	756.8	10.00	345.10
90.00	15 59 4	5877.86	25.61	282.06	71.89	102.51	17 37 2	5277.9	27.08	273.70
100.00	13 4 38	1170.31	4.13	336.96	63.39	119.63	13 24 8	570.3	8.05	330.36
100.00	17 44 0	5539.56	28.09	257.74	72.46	100.67	19 16 19	4939.6	29.27	249.13
110.00	13 28 36	1095.13	-.63	328.30	60.43	124.18	13 46 51	495.1	3.86	322.09
110.00	19 36 31	5187.50	33.63	231.98	73.44	96.54	21 2 59	4587.5	34.17	222.77

DIFFERENTIAL CORRECTIONS
TDE-3.1060 TRA 3.9922 TC3-2.4975 BAU .9310
RDE .3272 RRA .1421 RC3 -.1033 FAU .01993
FDE-1.5053 FRA 2.1270 FC3 -.6193 BSP 20696
BDE 3.1231 BRA 3.9947 BC3 2.4996 FSP -915

MID-COURSE EXECUTION ACCURACY
SGT 6423.6 SGR 408.8 SG3 267.8
RRT -.0355 RRF -.0583 RTF .9771
SGB 6436.6 R23 .0235 R13 -.9771
SG1 6423.6 SG2 408.6 THA 179.87

ORBIT DETERMINATION ACCURACY
ST 3665.9 SR 358.9 SS 1238.4
CRT -.8542 CRS .8356 CST -.9993
LSA 3881.3 MSA 191.5 SSA 14.3
EL1 3678.8 EL2 185.9 ALF 175.21

LAUNCH DATE MAY 28 1967 FLIGHT TIME 212.00 ARRIVAL DATE DEC 26 1967

HELIOCENTRIC CONIC DISTANCE 594.056

RL 151.59 LAL .00 LOL 246.00 VL 26.363 GAL 9.47 AZL 93.44 HCA 279.83 SMA 125.68 ECC .26158 INC 3.4446 V1 29.390
RP 107.60 LAP 3.39 LOP 165.84 VP 37.561 GAP 12.75 AZP 90.59 TAL 150.49 TAP 70.32 RCA 92.81 APO 158.56 V2 35.217
RC 153.730 GL -16.42 GP -2.75 ZAL 43.01 ZAP 169.79 ETS 344.00 ZAE 123.94 ETE 182.46 ZAC 90.40 ETC 13.67 CLP-170.16

PLANETOCENTRIC CONIC

C3 30.567 VHL 5.529 DLA -25.12 RAL 197.27 RAD 6568.2 VEL 12.326 PTH 2.22 VHP 8.288 DPA 2.27 RAP 176.27 ECC 1.5030

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 11 47	1385.59	5.44	353.50	67.58	117.83	12 34 52	785.6	9.12	346.75
90.00	16 7 14	607.43	25.35	305.37	75.23	103.06	16 17 21	7.4	26.90	297.05
100.00	13 9 52	1198.04	3.20	338.49	66.35	119.74	13 29 50	598.0	7.13	331.91
100.00	17 51 50	5558.25	27.85	259.07	75.84	101.34	19 24 28	4958.2	29.13	250.50
110.00	13 34 15	1121.54	-1.64	329.68	63.34	124.15	13 52 57	521.5	2.86	323.48
110.00	19 43 56	5207.51	33.46	233.51	76.92	97.43	21 10 43	4607.5	34.13	224.34

DIFFERENTIAL CORRECTIONS
TDE-3.2073 TRA 4.3033 TC3-2.2659 BAU .9267
RDE .3529 RRA .1334 RC3 -.0879 FAU .01749
FDE-1.4554 FRA 2.1360 FC3 -.4954 BSP 20838
BDE 3.2267 BRA 4.3054 BC3 2.2676 FSP -865

MID-COURSE EXECUTION ACCURACY
SGT 6448.8 SGR 408.0 SG3 252.7
RRT -.0836 RRF -.1048 RTF .9772
SGB 6461.7 R23 .0229 R13 -.9772
SG1 6448.9 SG2 406.6 THA 179.70

ORBIT DETERMINATION ACCURACY
ST 3638.3 SR 368.6 SS 1201.1
CRT -.8558 CRS .8378 CST -.9994
LSA 3844.1 MSA 194.9 SSA 13.9
EL1 3652.0 EL2 189.9 ALF 175.03

LAUNCH DATE MAY 28 1967 FLIGHT TIME 214.00 ARRIVAL DATE DEC 28 1967

DISTANCE 599.391

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.333 GAL 10.14 AZL 93.48 HCA 283.07 SMA 125.50 ECC .26991 INC 3.4806 V1 29.390
RP 107.63 LAP 3.39 LOP 169.09 VP 37.533 GAP 13.39 AZP 90.79 TAL 149.45 TAP 72.51 RCA 91.63 APO 159.37 V2 35.210
RC 155.789 GL -15.74 GP -2.65 ZAL 41.59 ZAP 170.96 ETS 342.41 ZAE 123.62 ETE 182.36 ZAC 88.39 ETC 13.66 CLP-171.35

PLANETOCENTRIC CONIC
C3 33.649 VHL 5.801 DLA -25.00 RAL 198.85 RAD 6568.3 VEL 12.451 PTH 2.25 VHP 8.656 DPA 1.53 RAP 178.18 ECC 1.5538

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 15 58	1417.11	4.43	355.27	70.53	118.00	12 39 35	817.1	8.14	348.56
90.00	16 15 41	624.27	25.08	306.54	78.59	103.59	16 26 6	24.3	26.71	298.24
100.00	13 14 28	1228.19	2.18	340.14	69.29	119.82	13 34 57	628.2	6.13	333.59
100.00	17 59 52	5576.46	27.59	260.37	79.22	101.97	19 32 48	4976.5	28.97	251.83
110.00	13 39 25	1149.97	-2.72	331.17	66.24	124.09	13 58 35	550.0	1.77	324.96
110.00	19 51 25	5227.44	33.28	235.04	80.40	98.32	21 18 32	4627.4	34.07	225.89

DIFFERENTIAL CORRECTIONS
TDE-3.3122 TRA 4.6353 TC3-2.0414 BAU .9189
RDE .3791 RRA .1229 RC3 -.0740 FAU .01517
FDE-1.4097 FRA 2.1482 FC3 -.3904 BSP 20971
BDE 3.3338 BRA 4.6369 BC3 2.0427 FSP -819

MID-COURSE EXECUTION ACCURACY
SGT 6467.9 SGR 406.9 SG3 238.6
RRT -.1310 RRF -.1503 RTF .9773
SGB 6480.7 R23 .0219 R13 -.9774
SG1 6468.1 SG2 403.4 THA 179.53

ORBIT DETERMINATION ACCURACY
ST 3606.2 SR 376.7 SS 1166.4
CRT -.8570 CRS .8396 CST -.9994
LSA 3803.7 MSA 197.8 SSA 13.6
EL1 3620.7 EL2 193.3 ALF 174.87

LAUNCH DATE MAY 28 1967 FLIGHT TIME 216.00 ARRIVAL DATE DEC 30 1967

DISTANCE 604.622

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.304 GAL 10.85 AZL 93.52 HCA 286.31 SMA 125.32 ECC .27897 INC 3.5175 V1 29.390
RP 107.65 LAP 3.38 LOP 172.33 VP 37.504 GAP 14.07 AZP 90.99 TAL 148.42 TAP 74.73 RCA 90.36 APO 160.28 V2 35.201
RC 157.834 GL -15.07 GP -2.57 ZAL 40.22 ZAP 172.10 ETS 340.37 ZAE 123.30 ETE 182.27 ZAC 86.38 ETC 13.65 CLP-172.53

PLANETOCENTRIC CONIC
C3 37.166 VHL 6.096 DLA -24.86 RAL 200.38 RAD 6568.4 VEL 12.591 PTH 2.28 VHP 9.049 DPA .76 RAP 180.09 ECC 1.6117

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 19 27	1451.14	3.34	357.18	73.46	118.14	12 43 38	851.1	7.08	350.49
90.00	16 24 22	640.46	24.82	307.65	81.94	104.09	16 35 3	40.5	26.52	299.39
100.00	13 18 28	1260.60	1.08	341.92	72.21	119.87	13 39 29	660.6	5.05	335.38
100.00	18 8 2	5594.27	27.34	261.63	82.61	102.59	19 41 17	4994.3	28.80	253.13
110.00	13 44 4	1180.30	-3.88	332.75	69.12	123.99	14 3 45	580.3	.61	326.54
110.00	19 58 56	5247.33	33.07	236.56	83.88	99.19	21 26 23	4647.3	33.99	227.44

DIFFERENTIAL CORRECTIONS
TDE-3.4213 TRA 4.9898 TC3-1.8253 BAU .9075
RDE .4060 RRA .1106 RC3 -.0618 FAU .01297
FDE-1.3682 FRA 2.1637 FC3 -.3021 BSP 21076
BDE 3.4453 BRA 4.9911 BC3 1.8264 FSP -775

MID-COURSE EXECUTION ACCURACY
SGT 6481.1 SGR 405.5 SG3 225.5
RRT -.1778 RRF -.1948 RTF .9777
SGB 6493.8 R23 .0207 R13 -.9777
SG1 6481.5 SG2 399.0 THA 179.36

ORBIT DETERMINATION ACCURACY
ST 3570.3 SR 383.1 SS 1134.5
CRT -.8579 CRS .8409 CST -.9994
LSA 3760.5 MSA 200.1 SSA 13.2
EL1 3585.5 EL2 196.0 ALF 174.72

LAUNCH DATE MAY 28 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 1 1968

DISTANCE 609.730

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.275 GAL 11.61 AZL 93.56 HCA 289.54 SMA 125.14 ECC .28883 INC 3.5557 V1 29.390
RP 107.68 LAP 3.35 LOP 175.58 VP 37.475 GAP 14.80 AZP 91.19 TAL 147.42 TAP 76.96 RCA 88.99 APO 161.28 V2 35.192
RC 159.863 GL -14.40 GP -2.49 ZAL 38.91 ZAP 173.23 ETS 337.64 ZAE 122.98 ETE 182.18 ZAC 84.36 ETC 13.66 CLP-173.70

PLANETOCENTRIC CONIC
C3 41.195 VHL 6.418 DLA -24.69 RAL 201.84 RAD 6568.6 VEL 12.750 PTH 2.32 VHP 9.471 DPA -.01 RAP 182.00 ECC 1.6780

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 22 18	1487.48	2.17	359.21	76.36	118.24	12 47 6	887.5	5.93	352.54
90.00	16 33 13	656.12	24.56	308.72	85.30	104.56	16 44 9	56.1	26.32	300.50
100.00	13 21 53	1295.12	-.09	343.81	75.10	119.89	13 43 28	695.1	3.89	337.29
100.00	18 16 19	5611.75	27.07	262.86	85.99	103.19	19 49 51	5011.7	28.62	254.40
110.00	13 48 15	1212.44	-5.10	334.44	71.98	123.85	14 8 27	612.4	-.62	328.22
110.00	20 6 27	5267.19	32.84	238.06	87.36	100.06	21 34 14	4667.2	33.88	228.98

DIFFERENTIAL CORRECTIONS
TDE-3.5317 TRA 5.3730 TC3-1.6146 BAU .8897
RDE .4334 RRA .0961 RC3 -.0512 FAU .01078
FDE-1.3290 FRA 2.1847 FC3 -.2265 BSP 21069
BDE 3.5582 BRA 5.3739 BC3 1.6154 FSP -730

MID-COURSE EXECUTION ACCURACY
SGT 6488.6 SGR 403.6 SG3 213.4
RRT -.2234 RRF -.2379 RTF .9781
SGB 6501.1 R23 .0191 R13 -.9781
SG1 6489.2 SG2 393.4 THA 179.20

ORBIT DETERMINATION ACCURACY
ST 3528.6 SR 387.9 SS 1104.7
CRT -.8582 CRS .8416 CST -.9994
LSA 3712.3 MSA 202.0 SSA 12.8
EL1 3544.4 EL2 198.2 ALF 174.59

LAUNCH DATE MAY 28 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 3 1968

DISTANCE 614.697

HELIOCENTRIC CONIC
RL 151.59 LAL .00 LOL 246.00 VL 26.246 GAL 12.44 AZL 93.60 HCA 292.78 SMA 124.96 ECC .29959 INC 3.5954 V1 29.390
RP 107.71 LAP 3.31 LOP 178.82 VP 37.446 GAP 15.57 AZP 91.39 TAL 146.45 TAP 79.23 RCA 87.52 APO 162.39 V2 35.183
RC 161.876 GL -13.73 GP -2.41 ZAL 37.65 ZAP 174.33 ETS 333.84 ZAE 122.65 ETE 182.09 ZAC 82.34 ETC 13.68 CLP-174.87

PLANETOCENTRIC CONIC
C3 45.826 VHL 6.769 DLA -24.49 RAL 203.24 RAD 6568.7 VEL 12.930 PTH 2.36 VHP 9.926 DPA -.80 RAP 183.91 ECC 1.7542

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 24 31	1525.92	.93	1.35	79.22	118.30	12 49 57	925.9	4.71	354.71
90.00	16 42 9	671.32	24.29	309.76	88.64	105.02	16 53 21	71.3	26.12	301.56
100.00	13 24 43	1331.59	-1.33	345.82	77.96	119.87	13 46 55	731.6	2.65	339.29
100.00	18 24 39	5628.92	26.80	264.06	89.35	103.76	19 58 28	5028.9	28.43	255.64
110.00	13 51 55	1246.27	-6.38	336.22	74.83	123.65	14 12 42	646.3	-1.91	329.98
110.00	20 13 56	5287.00	32.60	239.55	90.81	100.91	21 42 3	4687.0	33.76	230.51

DIFFERENTIAL CORRECTIONS
TDE-3.6537 TRA 5.7781 TC3-1.4185 BAU .8694
RDE .4614 RRA .0794 RC3 -.0419 FAU .00878
FDE-1.2966 FRA 2.2075 FC3 -.1658 BSP 21170
BDE 3.6827 BRA 5.7786 BC3 1.4191 FSP -693

MID-COURSE EXECUTION ACCURACY
SGT 6490.8 SGR 401.5 SG3 202.1
RRT -.2693 RRF -.2813 RTF .9787
SGB 6503.2 R23 .0175 R13 -.9788
SG1 6491.7 SG2 386.6 THA 179.04

ORBIT DETERMINATION ACCURACY
ST 3487.9 SR 391.2 SS 1079.3
CRT -.8589 CRS .8429 CST -.9995
LSA 3666.4 MSA 202.8 SSA 12.4
EL1 3504.1 EL2 199.4 ALF 174.48

LAUNCH DATE MAY 29 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 7 1967

HELIOCENTRIC CONIC DISTANCE 145.526

RL 151.62 LAL .00 LOL 246.96 VL 19.646 GAL 9.43 AZL 92.92 HCA 52.69 SMA 97.25 ECC .57532 INC 2.9248 VI 29.385
RP 108.93 LAP -2.33 LOP 299.61 VP 32.742 GAP -34.52 AZP 91.77 TAL 172.88 TAP 225.57 RCA 41.30 APO 153.20 V2 34.789
RC 53.566 GL -5.41 GP .93 ZAL 73.79 ZAP 22.80 ETS 183.60 ZAE 156.83 ETE 157.97 ZAC 121.54 ETC 18.74 CLP 22.79

PLANETOCENTRIC CONIC

C3 110.132 VHL 10.494 DLA -2.28 RAL 171.66 RAD 6570.1 VEL 15.214 PTH 2.73 VHP 20.181 DPA 17.87 RAP 146.12 ECC 2.8125

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 41 21	2554.39	-26.10	64.19	61.31	101.39	7 23 55	1954.4	-24.27	56.00
90.00	18 5 30	5340.05	27.61	243.23	63.50	83.45	19 34 30	4740.0	26.41	234.76
100.00	8 1 38	2295.43	-27.58	44.80	60.97	102.01	8 39 53	1695.4	-25.65	36.53
100.00	19 27 55	5074.24	29.11	223.48	63.29	82.89	20 52 29	4474.2	27.82	214.91
110.00	9 7 26	2089.44	-31.59	28.11	59.91	103.80	9 42 15	1489.4	-29.37	19.61
110.00	20 38 36	4853.00	33.18	206.02	62.63	81.28	21 59 29	4253.0	31.62	197.14

DIFFERENTIAL CORRECTIONS
TDE .5507 TRA-1.3205 TC3 -.0897 BAU .1411
RDE -.7206 RRA -.3675 RC3 .0336 FAU .01506
FDE -.3204 FRA .5284 FC3 -.1184 BSP 2129
BDE .9069 BRA 1.3707 BC3 .0958 FSP -76

MID-COURSE EXECUTION ACCURACY
SGT 804.0 SGR 447.3 SG3 36.2
RRT .0370 RRF -.0356 RTF -.6354
SGB 920.1 R23 -.0016 R13 -.6355
SG1 804.3 SG2 446.9 THA 1.70

ORBIT DETERMINATION ACCURACY
ST 370.5 SR 398.0 SS 340.6
CRT -.7138 CRS -.8179 CST .9851
LSA 603.7 MSA 216.9 SSA 13.9
EL1 503.6 EL2 205.1 ALF 132.14

LAUNCH DATE MAY 29 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 9 1967

HELIOCENTRIC CONIC DISTANCE 151.728

RL 151.62 LAL .00 LOL 246.96 VL 20.227 GAL 9.05 AZL 92.97 HCA 55.85 SMA 98.93 ECC .54896 INC 2.9714 VI 29.385
RP 108.94 LAP -2.46 LOP 302.77 VP 33.092 GAP -32.84 AZP 91.67 TAL 172.40 TAP 228.25 RCA 44.62 APO 153.24 V2 34.786
RC 51.953 GL -5.99 GP .97 ZAL 73.05 ZAP 21.25 ETS 183.78 ZAE 158.06 ETE 155.18 ZAC 120.00 ETC 18.36 CLP 21.23

PLANETOCENTRIC CONIC

C3 98.461 VHL 9.923 DLA -3.12 RAL 172.12 RAD 6569.9 VEL 14.826 PTH 2.68 VHP 19.294 DPA 17.40 RAP 147.74 ECC 2.6204

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 49 24	2504.90	-25.39	60.74	59.67	102.98	7 31 8	1904.9	-23.35	52.66
90.00	18 1 8	5342.35	27.63	243.39	62.58	83.53	19 30 11	4742.3	26.44	234.93
100.00	8 9 17	2247.19	-26.85	41.40	59.28	103.65	8 46 44	1647.2	-24.71	33.26
100.00	19 23 56	5075.28	29.12	223.55	62.38	82.93	20 48 31	4475.3	27.83	214.99
110.00	9 14 11	2044.01	-30.80	24.80	58.11	105.61	9 48 15	1444.0	-28.36	16.46
110.00	20 35 31	4851.23	33.16	205.88	61.72	81.20	21 56 22	4251.2	31.59	197.01

DIFFERENTIAL CORRECTIONS
TDE .5483 TRA-1.3124 TC3 -.0907 BAU .1297
RDE -.6859 RRA -.3511 RC3 .0386 FAU .01543
FDE -.3362 FRA .5445 FC3 -.1356 BSP 2227
BDE .8781 BRA 1.3586 BC3 .0986 FSP -84

MID-COURSE EXECUTION ACCURACY
SGT 841.8 SGR 451.6 SG3 39.5
RRT .0392 RRF -.0372 RTF -.6543
SGB 955.3 R23 -.0012 R13 -.6544
SG1 842.1 SG2 451.1 THA 1.69

ORBIT DETERMINATION ACCURACY
ST 390.0 SR 400.7 SS 360.2
CRT -.7136 CRS -.8214 CST .9842
LSA 627.0 MSA 221.5 SSA 14.2
EL1 517.6 EL2 211.5 ALF 133.91

LAUNCH DATE MAY 29 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 11 1967

HELIOCENTRIC CONIC DISTANCE 157.997

RL 151.62 LAL .00 LOL 246.96 VL 20.768 GAL 8.66 AZL 93.01 HCA 59.01 SMA 100.59 ECC .52359 INC 3.0146 VI 29.385
RP 108.94 LAP -2.58 LOP 305.94 VP 33.423 GAP -31.25 AZP 91.55 TAL 171.95 TAP 230.98 RCA 47.92 APO 153.26 V2 34.785
RC 50.440 GL -6.61 GP 1.01 ZAL 72.40 ZAP 19.72 ETS 184.01 ZAE 159.39 ETE 151.86 ZAC 118.44 ETC 18.00 CLP 19.69

PLANETOCENTRIC CONIC

C3 88.092 VHL 9.386 DLA -3.95 RAL 172.49 RAD 6569.7 VEL 14.472 PTH 2.63 VHP 18.441 DPA 16.91 RAP 149.35 ECC 2.4498

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 57 6	2454.62	-24.58	57.28	57.93	104.53	7 38 0	1854.6	-22.34	49.32
90.00	17 56 24	5343.91	27.64	243.51	61.51	83.59	19 25 28	4743.9	26.46	235.04
100.00	8 16 35	2198.19	-26.02	38.00	57.51	105.26	8 53 14	1598.2	-23.67	29.99
100.00	19 19 36	5075.58	29.12	223.57	61.31	82.94	20 44 11	4475.6	27.84	215.01
110.00	9 20 35	1997.82	-29.91	21.50	56.22	107.38	9 53 53	1397.8	-27.24	13.33
110.00	20 32 5	4848.71	33.14	205.69	60.65	81.09	21 52 53	4248.7	31.55	196.83

DIFFERENTIAL CORRECTIONS
TDE .5483 TRA-1.3013 TC3 -.0893 BAU .1174
RDE -.6519 RRA -.3347 RC3 .0443 FAU .01585
FDE -.3532 FRA .5604 FC3 -.1557 BSP 2380
BDE .8518 BRA 1.3437 BC3 .0997 FSP -94

MID-COURSE EXECUTION ACCURACY
SGT 879.9 SGR 455.2 SG3 43.2
RRT .0399 RRF -.0384 RTF -.6738
SGB 990.7 R23 -.0018 R13 -.6739
SG1 880.2 SG2 454.7 THA 1.61

ORBIT DETERMINATION ACCURACY
ST 411.2 SR 402.7 SS 380.9
CRT -.7158 CRS -.8255 CST .9836
LSA 652.2 MSA 225.1 SSA 14.4
EL1 533.1 EL2 216.9 ALF 135.84

LAUNCH DATE MAY 29 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 13 1967

HELIOCENTRIC CONIC DISTANCE 164.328

RL 151.62 LAL .00 LOL 246.96 VL 21.271 GAL 8.26 AZL 93.06 HCA 62.17 SMA 102.23 ECC .49923 INC 3.0550 VI 29.385
RP 108.94 LAP -2.70 LOP 309.10 VP 33.737 GAP -29.73 AZP 91.43 TAL 171.53 TAP 233.71 RCA 51.19 APO 153.27 V2 34.784
RC 49.035 GL -7.26 GP 1.05 ZAL 71.84 ZAP 18.19 ETS 184.30 ZAE 160.78 ETE 147.84 ZAC 116.87 ETC 17.66 CLP 18.16

PLANETOCENTRIC CONIC

C3 78.875 VHL 8.881 DLA -4.78 RAL 172.77 RAD 6569.5 VEL 14.150 PTH 2.58 VHP 17.621 DPA 16.42 RAP 150.98 ECC 2.2981

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 4 28	2403.63	-23.66	53.82	56.11	106.03	7 44 31	1803.6	-21.24	45.99
90.00	17 51 16	5344.88	27.65	243.58	60.30	83.62	19 20 21	4744.9	26.48	235.11
100.00	8 23 33	2148.48	-25.08	34.60	55.65	106.82	8 59 22	1548.5	-22.54	26.73
100.00	19 14 52	5075.27	29.12	223.55	60.10	82.92	20 39 27	4475.3	27.83	214.98
110.00	9 26 39	1950.96	-28.91	18.22	54.26	109.08	9 59 10	1351.0	-26.04	10.22
110.00	20 28 16	4845.55	33.10	205.45	59.44	80.95	21 49 1	4245.6	31.50	196.59

DIFFERENTIAL CORRECTIONS
TDE .5488 TRA-1.2891 TC3 -.0860 BAU .1052
RDE -.6185 RRA -.3184 RC3 .0506 FAU .01632
FDE -.3711 FRA .5761 FC3 -.1791 BSP 2538
BDE .8269 BRA 1.3279 BC3 .0998 FSP -105

MID-COURSE EXECUTION ACCURACY
SGT 919.4 SGR 458.0 SG3 47.1
RRT .0404 RRF -.0397 RTF -.6927
SGB 1027.2 R23 -.0024 R13 -.6928
SG1 919.6 SG2 457.5 THA 1.53

ORBIT DETERMINATION ACCURACY
ST 433.7 SR 403.8 SS 402.6
CRT -.7184 CRS -.8296 CST .9831
LSA 679.0 MSA 228.1 SSA 14.6
EL1 549.6 EL2 221.7 ALF 137.84

LAUNCH DATE MAY 29 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 15 1967

HELIOCENTRIC CONIC DISTANCE 170.716

RL 151.62 LAL .00 LOL 246.96 VL 21.738 GAL 7.86 AZL 93.09 HCA 65.33 SMA 103.84 ECC .47590 INC 3.0932 V1 29.385
RP 108.94 LAP -2.81 LOP 312.26 VP 34.034 GAP -28.29 AZP 91.29 TAL 171.16 TAP 236.49 RCA 54.42 APO 153.26 V2 34.784
RC 47.750 GL -7.94 GP 1.09 ZAL 71.37 ZAP 16.67 ETS 184.66 ZAE 162.20 ETE 142.93 ZAC 115.28 ETC 17.33 CLP 16.63

PLANETOCENTRIC CONIC

C3 70.679 VHL 8.407 DLA -5.61 RAL 172.96 RAD 6569.4 VEL 13.858 PTH 2.53 VHP 16.832 DPA 15.91 RAP 152.59 ECC 2.1632

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 11 30	2351.99	-22.65	50.38	54.21	107.47	7 50 42	1752.0	-20.05	42.67
90.00	17 45 44	5345.42	27.65	243.62	58.95	83.64	19 14 49	4745.4	26.48	235.14
100.00	8 30 11	2098.14	-24.05	31.22	53.72	108.31	9 5 9	1498.1	-21.32	23.48
100.00	19 9 43	5074.50	29.11	223.50	58.75	82.90	20 34 18	4474.5	27.82	214.93
110.00	9 32 21	1903.50	-27.81	14.97	52.24	110.72	10 4 5	1303.5	-24.74	7.14
110.00	20 24 3	4841.90	33.06	205.17	58.09	80.79	21 44 45	4241.9	31.44	196.33

DIFFERENTIAL CORRECTIONS

TDE .5500 TRA-1.2757 TC3 -.0804 BAU .0934
RDE -.5860 RRA -.3023 RC3 .0576 FAU .01683
FDE -.3903 FRA .5917 FC3 -.2062 BSP 2705
BDE .8037 BRA 1.3110 BC3 .0989 FSP -116

MID-COURSE EXECUTION ACCURACY

SGT 960.2 SGR 460.1 SG3 51.5
RRT .0409 RRF -.0409 RTF -.7110
SGB 1064.7 R23 -.0032 R13 -.7111
SG1 960.4 SG2 459.6 THA 1.46

ORBIT DETERMINATION ACCURACY

ST 457.4 SR 404.2 SS 425.6
CRT -.7218 CRS -.8341 CST .9826
LSA 707.4 MSA 230.4 SSA 14.9
EL1 567.1 EL2 225.6 ALF 139.88

LAUNCH DATE MAY 29 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 17 1967

HELIOCENTRIC CONIC DISTANCE 177.156

RL 151.62 LAL .00 LOL 246.96 VL 22.173 GAL 7.47 AZL 93.13 HCA 68.50 SMA 105.41 ECC .45362 INC 3.1294 V1 29.385
RP 108.94 LAP -2.91 LOP 315.42 VP 34.314 GAP -26.91 AZP 91.15 TAL 170.82 TAP 239.31 RCA 57.60 APO 153.23 V2 34.785
RC 46.594 GL -8.67 GP 1.14 ZAL 70.99 ZAP 15.15 ETS 185.13 ZAE 163.60 ETE 136.88 ZAC 113.70 ETC 17.02 CLP 15.11

PLANETOCENTRIC CONIC

C3 63.393 VHL 7.962 DLA -6.44 RAL 173.05 RAD 6569.2 VEL 13.592 PTH 2.48 VHP 16.073 DPA 15.40 RAP 154.21 ECC 2.0433

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 18 12	2299.80	-21.54	46.95	52.25	108.84	7 56 32	1699.8	-18.77	39.37
90.00	17 39 45	5345.69	27.65	243.64	57.47	83.65	19 8 51	4745.7	26.48	235.16
100.00	8 36 29	2047.27	-22.92	27.86	51.73	109.73	9 10 36	1447.3	-20.02	20.27
100.00	19 4 10	5073.44	29.10	223.42	57.28	82.86	20 28 43	4473.4	27.81	214.85
110.00	9 37 43	1855.56	-26.62	11.75	50.17	112.29	10 8 38	1255.6	-23.36	4.11
110.00	20 19 25	4837.93	33.02	204.87	56.61	80.62	21 40 3	4237.9	31.37	196.04

DIFFERENTIAL CORRECTIONS

TDE .5492 TRA-1.2634 TC3 -.0735 BAU .0834
RDE -.5542 RRA -.2864 RC3 .0653 FAU .01739
FDE -.4105 FRA .6076 FC3 -.2375 BSP 2821
BDE .7803 BRA 1.2955 BC3 .0984 FSP -129

MID-COURSE EXECUTION ACCURACY

SGT 1003.5 SGR 461.4 SG3 56.2
RRT .0431 RRF -.0425 RTF -.7271
SGB 1104.5 R23 -.0029 R13 -.7272
SG1 1003.8 SG2 460.9 THA 1.44

ORBIT DETERMINATION ACCURACY

ST 481.2 SR 403.7 SS 449.6
CRT -.7236 CRS -.8384 CST .9817
LSA 736.4 MSA 232.5 SSA 15.1
EL1 584.8 EL2 229.3 ALF 141.86

LAUNCH DATE MAY 29 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 19 1967

HELIOCENTRIC CONIC DISTANCE 183.643

RL 151.62 LAL .00 LOL 246.96 VL 22.577 GAL 7.07 AZL 93.16 HCA 71.66 SMA 106.95 ECC .43238 INC 3.1641 V1 29.385
RP 108.94 LAP -3.00 LOP 318.59 VP 34.578 GAP -25.60 AZP 91.00 TAL 170.53 TAP 242.18 RCA 60.71 APO 153.19 V2 34.786
RC 45.578 GL -9.44 GP 1.19 ZAL 70.71 ZAP 13.64 ETS 185.75 ZAE 164.90 ETE 129.42 ZAC 112.11 ETC 16.72 CLP 13.59

PLANETOCENTRIC CONIC

C3 56.914 VHL 7.544 DLA -7.27 RAL 173.04 RAD 6569.0 VEL 13.352 PTH 2.44 VHP 15.341 DPA 14.88 RAP 155.82 ECC 1.9367

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 24 35	2247.14	-20.35	43.55	50.23	110.13	8 2 2	1647.1	-17.42	36.10
90.00	17 33 19	5345.87	27.65	243.65	55.87	83.65	19 2 25	4745.9	26.49	235.18
100.00	8 42 26	1995.97	-21.70	24.54	49.68	111.08	9 15 42	1396.0	-18.64	17.08
100.00	18 58 9	5072.27	29.09	223.33	55.68	82.81	20 22 41	4472.3	27.79	214.77
110.00	9 42 43	1807.23	-25.33	8.59	48.05	113.76	10 12 50	1207.2	-21.90	1.11
110.00	20 14 21	4833.78	32.97	204.56	55.01	80.43	21 34 55	4233.8	31.30	195.73

DIFFERENTIAL CORRECTIONS

TDE .5512 TRA-1.2475 TC3 -.0624 BAU .0736
RDE -.5233 RRA -.2708 RC3 .0739 FAU .01802
FDE -.4326 FRA .6230 FC3 -.2742 BSP 2993
BDE .7600 BRA 1.2766 BC3 .0967 FSP -143

MID-COURSE EXECUTION ACCURACY

SGT 1047.1 SGR 461.9 SG3 61.5
RRT .0437 RRF -.0439 RTF -.7436
SGB 1144.4 R23 -.0036 R13 -.7437
SG1 1047.3 SG2 461.4 THA 1.37

ORBIT DETERMINATION ACCURACY

ST 507.3 SR 402.3 SS 475.2
CRT -.7279 CRS -.8432 CST .9813
LSA 768.3 MSA 233.3 SSA 15.3
EL1 604.7 EL2 231.4 ALF 143.91

LAUNCH DATE MAY 29 1967 FLIGHT TIME 84.00 ARRIVAL DATE AUG 21 1967

HELIOCENTRIC CONIC DISTANCE 190.172

RL 151.62 LAL .00 LOL 246.96 VL 22.953 GAL 6.69 AZL 93.20 HCA 74.82 SMA 108.45 ECC .41218 INC 3.1976 V1 29.385
RP 108.93 LAP -3.09 LOP 321.75 VP 34.827 GAP -24.34 AZP 90.84 TAL 170.28 TAP 245.09 RCA 63.75 APO 153.15 V2 34.788
RC 44.711 GL -10.24 GP 1.25 ZAL 70.53 ZAP 12.13 ETS 186.56 ZAE 165.99 ETE 120.32 ZAC 110.51 ETC 16.44 CLP 12.07

PLANETOCENTRIC CONIC

C3 51.156 VHL 7.152 DLA -8.11 RAL 172.94 RAD 6568.9 VEL 13.135 PTH 2.40 VHP 14.637 DPA 14.36 RAP 157.43 ECC 1.8419

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 30 38	2194.14	-19.07	40.19	48.16	111.34	8 7 12	1594.1	-16.00	32.86
90.00	17 26 24	5346.14	27.66	243.67	54.16	83.66	18 55 30	4746.1	26.49	235.20
100.00	8 48 3	1944.36	-20.40	21.26	47.59	112.33	9 20 28	1344.4	-17.20	13.93
100.00	18 51 39	5071.16	29.08	223.25	53.96	82.77	20 16 10	4471.2	27.78	214.69
110.00	9 47 22	1758.65	-23.96	5.48	45.91	115.14	10 16 41	1158.7	-20.37	358.17
110.00	20 8 50	4829.63	32.93	204.24	53.30	80.25	21 29 20	4229.6	31.23	195.43

DIFFERENTIAL CORRECTIONS

TDE .5535 TRA-1.2306 TC3 -.0476 BAU .0656
RDE -.4933 RRA -.2555 RC3 .0833 FAU .01872
FDE -.4563 FRA .6384 FC3 -.3169 BSP 3162
BDE .7414 BRA 1.2568 BC3 .0960 FSP -159

MID-COURSE EXECUTION ACCURACY

SGT 1092.1 SGR 461.6 SG3 67.3
RRT .0446 RRF -.0455 RTF -.7594
SGB 1185.7 R23 -.0043 R13 -.7595
SG1 1092.3 SG2 461.1 THA 1.31

ORBIT DETERMINATION ACCURACY

ST 534.6 SR 400.0 SS 502.4
CRT -.7327 CRS -.8482 CST .9809
LSA 802.2 MSA 233.5 SSA 15.5
EL1 625.9 EL2 232.5 ALF 145.94

LAUNCH DATE MAY 29 1967 FLIGHT TIME 86.00 ARRIVAL DATE AUG 23 1967

HELIOCENTRIC CONIC DISTANCE 196.739

RL 151.62 LAL .00 LOL 246.96 VL 23.303 GAL 6.31 AZL 93.23 HCA 77.98 SMA 109.90 ECC .39301 INC 3.2301 V1 29.385
RP 108.92 LAP -3.16 LOP 324.92 VP 35.061 GAP -23.14 AZP 90.67 TAL 170.07 TAP 248.05 RCA 66.71 APO 153.09 V2 34.791
RC 44.000 GL -11.09 GP 1.31 ZAL 70.44 ZAP 10.62 ETS 187.67 ZAE 166.75 ETE 109.58 ZAC 108.92 ETC 16.17 CLP 10.54

PLANETOCENTRIC CONIC

C3 46.041 VHL 6.785 DLA -8.94 RAL 172.72 RAD 6568.7 VEL 12.938 PTH 2.36 VHP 13.958 DPA 13.83 RAP 159.02 ECC 1.7577

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 36 22	2140.92	-17.72	36.87	46.06	112.46	8 12 3	1540.9	-14.52	29.65
90.00	17 18 59	5346.71	27.66	243.71	52.34	83.68	18 48 5	4746.7	26.50	235.24
100.00	8 53 21	1892.56	-19.03	18.02	45.47	113.50	9 24 53	1292.6	-15.69	10.82
100.00	18 44 41	5070.30	29.08	223.19	52.15	82.74	20 9 11	4470.3	27.77	214.63
110.00	9 51 40	1709.96	-22.52	2.43	43.73	116.43	10 20 10	1110.0	-18.78	355.28
110.00	20 2 51	4825.66	32.88	203.94	51.48	80.08	21 23 17	4225.7	31.16	195.14

DIFFERENTIAL CORRECTIONS
TDE .5568 TRA-1.2120 TC3 -.0287 BAU .0603
RDE -.4641 RRA -.2406 RC3 .0936 FAU .01951
FDE -.4824 FRA .6538 FC3 -.3668 BSP 3342
BDE .7249 BRA 1.2356 BC3 .0980 FSP -177

MID-COURSE EXECUTION ACCURACY
SGT 1138.4 SGR 460.5 SG3 73.6
RRT .0454 RRF -.0472 RTF -.7743
SGB 1228.0 R23 -.0052 R13 -.7744
SG1 1138.6 SG2 459.9 THA 1.26

ORBIT DETERMINATION ACCURACY
ST 563.6 SR 396.8 SS 531.6
CRT -.7383 CRS -.8535 CST .9807
LSA 838.6 MSA 232.7 SSA 15.7
EL1 648.9 EL2 232.4 ALF 147.94

LAUNCH DATE MAY 29 1967 FLIGHT TIME 88.00 ARRIVAL DATE AUG 25 1967

HELIOCENTRIC CONIC DISTANCE 203.338

RL 151.62 LAL .00 LOL 246.96 VL 23.627 GAL 5.94 AZL 93.26 HCA 81.14 SMA 111.30 ECC .37486 INC 3.2618 V1 29.385
RP 108.91 LAP -3.22 LOP 328.09 VP 35.281 GAP -21.98 AZP 90.50 TAL 169.92 TAP 251.06 RCA 69.58 APO 153.02 V2 34.795
RC 43.455 GL -11.98 GP 1.38 ZAL 70.45 ZAP 9.10 ETS 189.22 ZAE 167.05 ETE 97.62 ZAC 107.34 ETC 15.92 CLP 9.00

PLANETOCENTRIC CONIC

C3 41.499 VHL 6.442 DLA -9.77 RAL 172.41 RAD 6568.6 VEL 12.762 PTH 2.32 VHP 13.305 DPA 13.30 RAP 160.61 ECC 1.6830

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 41 47	2087.60	-16.30	33.60	43.92	113.48	8 16 34	1487.6	-12.98	26.49
90.00	17 11 3	5347.75	27.67	243.78	50.43	83.72	18 40 10	4747.7	26.51	235.31
100.00	8 58 18	1840.71	-17.59	14.84	43.32	114.57	9 28 59	1240.7	-14.13	7.76
100.00	18 37 12	5069.87	29.07	223.16	50.24	82.72	20 1 42	4469.9	27.76	214.60
110.00	9 55 36	1661.30	-21.01	359.46	41.54	117.60	10 23 17	1061.3	-17.15	352.46
110.00	19 56 24	4822.04	32.84	203.67	49.57	79.92	21 16 46	4222.0	31.10	194.88

DIFFERENTIAL CORRECTIONS
TDE .5604 TRA-1.1920 TC3 -.0049 BAU .0582
RDE -.4359 RRA -.2261 RC3 .1049 FAU .02038
FDE -.5108 FRA .6691 FC3 -.4251 BSP 3519
BDE .7100 BRA 1.2132 BC3 .1050 FSP -197

MID-COURSE EXECUTION ACCURACY
SGT 1185.7 SGR 458.5 SG3 80.6
RRT .0467 RRF -.0493 RTF -.7886
SGB 1271.2 R23 -.0060 R13 -.7887
SG1 1185.9 SG2 457.9 THA 1.22

ORBIT DETERMINATION ACCURACY
ST 593.8 SR 392.5 SS 562.5
CRT -.7444 CRS -.8588 CST .9805
LSA 877.2 MSA 231.2 SSA 15.9
EL1 673.2 EL2 231.2 ALF 149.89

LAUNCH DATE MAY 29 1967 FLIGHT TIME 90.00 ARRIVAL DATE AUG 27 1967

HELIOCENTRIC CONIC DISTANCE 209.966

RL 151.62 LAL .00 LOL 246.96 VL 23.928 GAL 5.58 AZL 93.29 HCA 84.31 SMA 112.65 ECC .35770 INC 3.2930 V1 29.385
RP 108.90 LAP -3.28 LOP 331.26 VP 35.487 GAP -20.88 AZP 90.33 TAL 169.81 TAP 254.12 RCA 72.36 APO 152.95 V2 34.799
RC 43.079 GL -12.91 GP 1.46 ZAL 70.57 ZAP 7.59 ETS 191.50 ZAE 166.82 ETE 85.33 ZAC 105.76 ETC 15.68 CLP 7.45

PLANETOCENTRIC CONIC

C3 37.472 VHL 6.121 DLA -10.61 RAL 171.99 RAD 6568.5 VEL 12.603 PTH 2.29 VHP 12.675 DPA 12.78 RAP 162.17 ECC 1.6167

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 46 53	2034.32	-14.83	30.38	41.76	114.40	8 20 47	1434.3	-11.41	23.37
90.00	17 2 34	5349.45	27.68	243.91	48.44	83.78	18 31 44	4749.5	26.53	235.43
100.00	9 2 56	1788.95	-16.10	11.73	41.14	115.53	9 32 45	1189.0	-12.53	4.75
100.00	18 29 12	5070.05	29.07	223.17	48.25	82.73	19 53 42	4470.1	27.76	214.61
110.00	9 59 10	1612.83	-19.45	356.56	39.34	118.68	10 26 3	1012.8	-15.48	349.70
110.00	19 49 27	4818.95	32.80	203.44	47.58	79.79	21 9 46	4218.9	31.05	194.65

DIFFERENTIAL CORRECTIONS
TDE .5651 TRA-1.1703 TC3 .0242 BAU .0598
RDE -.4087 RRA -.2121 RC3 .1170 FAU .02134
FDE -.5421 FRA .6844 FC3 -.4931 BSP 3703
BDE .6974 BRA 1.1894 BC3 .1195 FSP -219

MID-COURSE EXECUTION ACCURACY
SGT 1234.0 SGR 455.7 SG3 88.4
RRT .0481 RRF -.0516 RTF -.8021
SGB 1315.4 R23 -.0069 R13 -.8022
SG1 1234.2 SG2 455.0 THA 1.18

ORBIT DETERMINATION ACCURACY
ST 625.7 SR 387.3 SS 595.8
CRT -.7512 CRS -.8644 CST .9804
LSA 918.6 MSA 228.9 SSA 16.1
EL1 699.5 EL2 228.7 ALF 151.78

LAUNCH DATE MAY 29 1967 FLIGHT TIME 92.00 ARRIVAL DATE AUG 29 1967

HELIOCENTRIC CONIC DISTANCE 216.618

RL 151.62 LAL .00 LOL 246.96 VL 24.207 GAL 5.23 AZL 93.32 HCA 87.47 SMA 113.95 ECC .34153 INC 3.3238 V1 29.385
RP 108.88 LAP -3.32 LOP 334.42 VP 35.681 GAP -19.81 AZP 90.15 TAL 169.76 TAP 257.23 RCA 75.04 APO 152.87 V2 34.804
RC 42.876 GL -13.89 GP 1.55 ZAL 70.79 ZAP 6.08 ETS 195.06 ZAE 166.06 ETE 73.78 ZAC 104.20 ETC 15.45 CLP 5.88

PLANETOCENTRIC CONIC

C3 33.903 VHL 5.823 DLA -11.45 RAL 171.46 RAD 6568.3 VEL 12.461 PTH 2.25 VHP 12.068 DPA 12.26 RAP 163.72 ECC 1.5580

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 51 40	1981.22	-13.31	27.22	39.58	115.23	8 24 41	1381.2	-9.80	20.30
90.00	16 53 33	5352.00	27.70	244.09	46.37	83.87	18 22 45	4752.0	26.56	235.61
100.00	9 7 14	1737.44	-14.56	8.67	38.95	116.40	9 36 11	1137.4	-10.90	1.80
100.00	18 20 41	5071.02	29.08	223.24	46.19	82.76	19 45 12	4471.0	27.78	214.68
110.00	10 2 24	1564.68	-17.86	353.74	37.12	119.64	10 28 28	964.7	-13.78	347.00
110.00	19 42 0	4816.53	32.77	203.25	45.53	79.69	21 2 17	4216.5	31.00	194.48

DIFFERENTIAL CORRECTIONS
TDE .5704 TRA-1.1473 TC3 .0592 BAU .0647
RDE -.3824 RRA -.1987 RC3 .1300 FAU .02242
FDE -.5765 FRA .6997 FC3 -.5726 BSP 3884
BDE .6867 BRA 1.1644 BC3 .1428 FSP -243

MID-COURSE EXECUTION ACCURACY
SGT 1283.2 SGR 452.0 SG3 97.0
RRT .0501 RRF -.0545 RTF -.8148
SGB 1360.5 R23 -.0080 R13 -.8149
SG1 1283.4 SG2 451.3 THA 1.15

ORBIT DETERMINATION ACCURACY
ST 659.2 SR 381.0 SS 631.3
CRT -.7585 CRS -.8701 CST .9804
LSA 962.8 MSA 225.9 SSA 16.3
EL1 727.3 EL2 225.0 ALF 153.61

LAUNCH DATE MAY 29 1967 FLIGHT TIME 94.00 ARRIVAL DATE AUG 31 1967

HELIOCENTRIC CONIC DISTANCE 223.290

RL 151.62 LAL .00 LOL 246.96 VL 24.466 GAL 4.89 AZL 93.35 HCA 90.64 SMA 115.20 ECC .32631 INC 3.3545 V1 29.385
RP 108.87 LAP -3.35 LOP 337.59 VP 35.862 GAP -18.79 AZP 89.96 TAL 169.75 TAP 260.39 RCA 77.61 APO 152.79 V2 34.809
RC 42.849 GL -14.91 GP 1.64 ZAL 71.10 ZAP 4.60 ETS 201.18 ZAE 164.86 ETE 63.69 ZAC 102.65 ETC 15.24 CLP 4.30

PLANETOCENTRIC CONIC

C3 30.746 VHL 5.545 DLA -12.29 RAL 170.82 RAD 6568.2 VEL 12.334 PTH 2.22 VHP 11.483 DPA 11.75 RAP 165.25 ECC 1.5060

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 56 10	1928.44	-11.76	24.12	37.38	115.95	8 28 18	1328.4	-8.17	17.27
90.00	16 43 59	5355.55	27.73	244.35	44.25	84.00	18 13 15	4755.5	26.60	235.86
100.00	9 11 13	1686.30	-12.99	5.69	36.75	117.16	9 39 19	1086.3	-9.25	358.90
100.00	18 11 37	5072.92	29.10	223.38	44.07	82.84	19 36 10	4472.9	27.80	214.82
110.00	10 5 16	1517.05	-16.23	351.00	34.91	120.50	10 30 33	917.0	-12.06	344.38
110.00	19 34 4	4814.94	32.75	203.13	43.41	79.62	20 54 19	4214.9	30.97	194.36

DIFFERENTIAL CORRECTIONS
TDE .5767 TRA-1.1229 TC3 .1003 BAU .0721
RDE -.3570 RRA -.1858 RC3 .1439 FAU .02362
FDE -.6147 FRA .7151 FC3 -.6652 BSP 4061
BDE .6783 BRA 1.1382 BC3 .1755 FSP -271

MID-COURSE EXECUTION ACCURACY
SGT 1333.3 SGR 447.4 SG3 106.5
RRT .0525 RRF -.0581 RTF -.8267
SGB 1406.4 R23 -.0092 R13 -.8267
SG1 1333.5 SG2 446.7 THA 1.14

ORBIT DETERMINATION ACCURACY
ST 694.3 SR 373.6 SS 669.6
CRT -.7664 CRS -.8759 CST .9805
LSA 1010.1 MSA 222.2 SSA 16.4
EL1 757.1 EL2 220.1 ALF 155.37

LAUNCH DATE MAY 29 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 2 1967

HELIOCENTRIC CONIC DISTANCE 229.978

RL 151.62 LAL .00 LOL 246.96 VL 24.706 GAL 4.56 AZL 93.39 HCA 93.80 SMA 116.39 ECC .31202 INC 3.3853 V1 29.385
RP 108.85 LAP -3.38 LOP 340.77 VP 36.032 GAP -17.81 AZP 89.78 TAL 169.80 TAP 263.60 RCA 80.07 APO 152.71 V2 34.815
RC 42.995 GL -15.97 GP 1.75 ZAL 71.52 ZAP 3.21 ETS 213.27 ZAE 163.33 ETE 55.32 ZAC 101.12 ETC 15.04 CLP 2.69

PLANETOCENTRIC CONIC

C3 27.955 VHL 5.287 DLA -13.12 RAL 170.08 RAD 6568.1 VEL 12.220 PTH 2.20 VHP 10.920 DPA 11.25 RAP 166.76 ECC 1.4601

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 0 22	1876.13	-10.18	21.09	35.18	116.57	8 31 38	1276.1	-6.53	14.31
90.00	16 33 52	5360.24	27.76	244.69	42.07	84.17	18 3 13	4760.2	26.66	236.19
100.00	9 14 53	1635.71	-11.40	2.77	34.54	117.82	9 42 9	1035.7	-7.59	356.06
100.00	18 2 2	5075.90	29.12	223.60	41.89	82.95	19 26 38	4475.9	27.84	215.03
110.00	10 7 46	1470.07	-14.59	348.35	32.69	121.26	10 32 16	870.1	-10.34	341.82
110.00	19 25 39	4814.30	32.74	203.08	41.25	79.59	20 45 53	4214.3	30.96	194.32

DIFFERENTIAL CORRECTIONS
TDE .5842 TRA-1.0965 TC3 .1493 BAU .0814
RDE -.3326 RRA -.1736 RC3 .1587 FAU .02498
FDE -.6577 FRA .7304 FC3 -.7735 BSP 4257
BDE .6723 BRA 1.1102 BC3 .2178 FSP -302

MID-COURSE EXECUTION ACCURACY
SGT 1383.6 SGR 442.0 SG3 117.1
RRT .0555 RRF -.0623 RTF -.8381
SGB 1452.5 R23 -.0105 R13 -.8382
SG1 1383.9 SG2 441.3 THA 1.13

ORBIT DETERMINATION ACCURACY
ST 731.3 SR 365.1 SS 711.0
CRT -.7751 CRS -.8818 CST .9808
LSA 1061.1 MSA 217.8 SSA 16.6
EL1 788.9 EL2 213.8 ALF 157.06

LAUNCH DATE MAY 29 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 4 1967

HELIOCENTRIC CONIC DISTANCE 236.678

RL 151.62 LAL .00 LOL 246.96 VL 24.928 GAL 4.25 AZL 93.42 HCA 96.97 SMA 117.53 ECC .29863 INC 3.4163 V1 29.385
RP 108.83 LAP -3.39 LOP 343.94 VP 36.191 GAP -16.86 AZP 89.59 TAL 169.89 TAP 266.86 RCA 82.43 APO 152.62 V2 34.822
RC 43.312 GL -17.06 GP 1.87 ZAL 72.04 ZAP 2.14 ETS 240.92 ZAE 161.59 ETE 48.53 ZAC 99.62 ETC 14.85 CLP 1.04

PLANETOCENTRIC CONIC

C3 25.494 VHL 5.049 DLA -13.96 RAL 169.23 RAD 6568.0 VEL 12.119 PTH 2.17 VHP 10.378 DPA 10.77 RAP 168.24 ECC 1.4196

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 4 17	1824.42	-8.59	18.12	32.98	117.09	8 34 42	1224.4	-4.89	11.39
90.00	16 23 12	5366.21	27.80	245.12	39.85	84.38	17 52 38	4766.2	26.73	236.62
100.00	9 18 15	1585.80	-9.80	359.93	32.34	118.38	9 44 41	985.8	-5.93	353.28
100.00	17 51 56	5080.07	29.16	223.90	39.68	83.11	19 16 36	4480.1	27.90	215.33
110.00	10 9 56	1423.91	-12.94	345.79	30.48	121.92	10 33 40	823.9	-8.63	339.34
110.00	19 16 44	4814.73	32.75	203.12	39.05	79.61	20 36 59	4214.7	30.97	194.35

DIFFERENTIAL CORRECTIONS
TDE .5919 TRA-1.0695 TC3 .2045 BAU .0916
RDE -.3092 RRA -.1620 RC3 .1742 FAU .02647
FDE -.7051 FRA .7461 FC3 -.8990 BSP 4430
BDE .6678 BRA 1.0817 BC3 .2687 FSP -336

MID-COURSE EXECUTION ACCURACY
SGT 1434.4 SGR 435.8 SG3 128.9
RRT .0600 RRF -.0679 RTF -.8486
SGB 1499.2 R23 -.0119 R13 -.8487
SG1 1434.7 SG2 434.9 THA 1.15

ORBIT DETERMINATION ACCURACY
ST 769.4 SR 355.5 SS 755.3
CRT -.7836 CRS -.8875 CST .9811
LSA 1114.9 MSA 213.1 SSA 16.7
EL1 821.9 EL2 206.7 ALF 158.68

LAUNCH DATE MAY 29 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 6 1967

HELIOCENTRIC CONIC DISTANCE 243.388

RL 151.62 LAL .00 LOL 246.96 VL 25.133 GAL 3.95 AZL 93.45 HCA 100.14 SMA 118.60 ECC .28612 INC 3.4477 V1 29.385
RP 108.80 LAP -3.39 LOP 347.11 VP 36.340 GAP -15.95 AZP 89.39 TAL 170.03 TAP 270.17 RCA 84.67 APO 152.54 V2 34.830
RC 43.796 GL -18.19 GP 2.00 ZAL 72.65 ZAP 2.10 ETS 287.55 ZAE 159.75 ETE 43.07 ZAC 98.14 ETC 14.67 CLP -.63

PLANETOCENTRIC CONIC

C3 23.327 VHL 4.830 DLA -14.78 RAL 168.29 RAD 6567.9 VEL 12.029 PTH 2.15 VHP 9.856 DPA 10.31 RAP 169.69 ECC 1.3839

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 7 57	1773.45	-7.00	15.22	30.79	117.51	8 37 30	1173.5	-3.26	8.53
90.00	16 12 0	5373.56	27.85	245.65	37.61	84.64	17 41 34	4773.6	26.81	237.14
100.00	9 21 19	1536.71	-8.20	357.16	30.14	118.85	9 46 56	936.7	-4.29	350.56
100.00	17 41 19	5085.53	29.20	224.30	37.44	83.31	19 6 5	4485.5	27.97	215.72
110.00	10 11 46	1378.71	-11.30	343.31	28.27	122.48	10 34 44	778.7	-6.94	336.94
110.00	19 7 22	4816.30	32.77	203.24	36.82	79.68	20 27 38	4216.3	31.00	194.46

DIFFERENTIAL CORRECTIONS
TDE .6043 TRA-1.0824 TC3 .2657 BAU .1020
RDE -.2867 RRA -.1506 RC3 .1905 FAU .02816
FDE -.7590 FRA .7623 FC3-1.0452 BSP 4678
BDE .6688 BRA 1.0928 BC3 .3269 FSP -375

MID-COURSE EXECUTION ACCURACY
SGT 1530.8 SGR 428.5 SG3 142.1
RRT .0744 RRF -.0743 RTF -.8527
SGB 1589.6 R23 -.0055 R13 -.8527
SG1 1531.2 SG2 427.3 THA 1.29

ORBIT DETERMINATION ACCURACY
ST 820.2 SR 344.6 SS 803.5
CRT -.7843 CRS -.8933 CST .9788
LSA 1179.3 MSA 214.6 SSA 17.0
EL1 866.3 EL2 202.4 ALF 160.66

LAUNCH DATE MAY 29 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 8 1967

HELIOCENTRIC CONIC DISTANCE 250.103

RL 151.62 LAL .00 LOL 246.96 VL 25.322 GAL 3.66 AZL 93.48 HCA 103.31 SMA 119.62 ECC .27446 INC 3.4798 V1 29.385
RP 108.78 LAP -3.39 LOP 350.29 VP 36.479 GAP -15.08 AZP 89.20 TAL 170.22 TAP 273.52 RCA 86.79 APO 152.45 V2 34.838
RC 44.440 GL -19.35 GP 2.15 ZAL 73.34 ZAP 3.19 ETS 317.47 ZAE 157.90 ETE 38.69 ZAC 96.70 ETC 14.51 CLP -2.35

PLANETOCENTRIC CONIC

C3 21.422 VHL 4.628 DLA -15.61 RAL 167.25 RAD 6567.9 VEL 11.950 PTH 2.13 VHP 9.353 DPA 9.87 RAP 171.10 ECC 1.3526

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 11 21	1723.34	-5.41	12.39	28.60	117.84	8 40 5	1123.3	-1.65	5.73
90.00	16 0 17	5382.36	27.90	246.29	35.35	84.96	17 30 0	4782.4	26.91	237.76
100.00	9 24 7	1488.59	-6.61	354.48	27.95	119.22	9 48 55	888.6	-2.67	347.91
100.00	17 30 13	5092.35	29.26	224.80	35.19	83.57	18 55 6	4492.4	28.06	216.20
110.00	10 13 16	1334.63	-9.68	340.93	26.08	122.94	10 35 30	734.6	-5.27	334.61
110.00	18 57 34	4819.08	32.80	203.45	34.59	79.80	20 17 53	4219.1	31.05	194.66

DIFFERENTIAL CORRECTIONS
TOE .6110 TRA-1.0101 TC3 .3380 BAU .1136
RDE -.2649 RRA -.1407 RC3 .2073 FAU .03006
FDE -.8193 FRA .7775 FC3-1.2148 BSP 4798
BDE .6659 BRA 1.0198 BC3 .3966 FSP -418

MID-COURSE EXECUTION ACCURACY
SGT 1534.7 SGR 420.8 SG3 156.8
RRT .0725 RRF -.0838 RTF -.8678
SGB 1591.4 R23 -.0158 R13 -.8679
SGI 1535.0 SG2 419.6 THA 1.23

ORBIT DETERMINATION ACCURACY
ST 850.8 SR 332.5 SS 855.1
CRT -.8020 CRS -.8987 CST .9822
LSA 1234.7 MSA 202.3 SSA 16.9
EL1 893.7 EL2 189.0 ALF 161.75

LAUNCH DATE MAY 29 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 10 1967

HELIOCENTRIC CONIC DISTANCE 256.821

RL 151.62 LAL .00 LOL 246.96 VL 25.496 GAL 3.38 AZL 93.51 HCA 106.48 SMA 120.59 ECC .26361 INC 3.5127 V1 29.385
RP 108.75 LAP -3.37 LOP 353.47 VP 36.608 GAP -14.23 AZP 89.00 TAL 170.44 TAP 276.92 RCA 88.80 APO 152.37 V2 34.846
RC 45.237 GL -20.54 GP 2.32 ZAL 74.12 ZAP 4.73 ETS 330.48 ZAE 156.09 ETE 35.15 ZAC 95.30 ETC 14.35 CLP -4.12

PLANETOCENTRIC CONIC

C3 19.753 VHL 4.444 DLA -16.42 RAL 166.12 RAD 6567.8 VEL 11.880 PTH 2.11 VHP 8.870 DPA 9.47 RAP 172.48 ECC 1.3251

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 14 33	1674.21	-3.85	9.63	26.44	118.08	8 42 27	1074.2	-.06	2.99
90.00	15 48 6	5392.69	27.96	247.04	33.08	85.33	17 17 58	4792.7	27.02	238.50
100.00	9 26 39	1441.54	-5.04	351.87	25.78	119.50	9 50 41	841.5	-1.07	345.33
100.00	17 18 40	5100.59	29.32	225.41	32.94	83.88	18 43 41	4500.6	28.16	216.80
110.00	10 14 27	1291.78	-8.09	338.64	23.91	123.33	10 35 59	691.8	-3.65	332.36
110.00	18 47 21	4823.11	32.85	203.75	32.35	79.97	20 7 44	4223.1	31.12	194.96

DIFFERENTIAL CORRECTIONS
TOE .6220 TRA -.9782 TC3 .4158 BAU .1248
RDE -.2440 RRA -.1312 RC3 .2248 FAU .03219
FDE -.8878 FRA .7933 FC3-1.4109 BSP 4983
BDE .6682 BRA .9870 BC3 .4727 FSP -468

MID-COURSE EXECUTION ACCURACY
SGT 1583.7 SGR 412.2 SG3 173.2
RRT .0817 RRF -.0950 RTF -.8765
SGB 1636.5 R23 -.0183 R13 -.8766
SGI 1584.1 SG2 410.7 THA 1.31

ORBIT DETERMINATION ACCURACY
ST 893.7 SR 319.0 SS 911.1
CRT -.8113 CRS -.9039 CST .9828
LSA 1300.7 MSA 196.5 SSA 16.9
EL1 931.9 EL2 178.8 ALF 163.21

LAUNCH DATE MAY 29 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 12 1967

HELIOCENTRIC CONIC DISTANCE 263.538

RL 151.62 LAL .00 LOL 246.96 VL 25.656 GAL 3.12 AZL 93.55 HCA 109.65 SMA 121.49 ECC .25354 INC 3.5468 V1 29.385
RP 108.72 LAP -3.34 LOP 356.65 VP 36.729 GAP -13.42 AZP 88.81 TAL 170.71 TAP 280.36 RCA 90.69 APO 152.29 V2 34.856
RC 46.178 GL -21.75 GP 2.51 ZAL 74.97 ZAP 6.45 ETS 336.92 ZAE 154.38 ETE 32.29 ZAC 93.94 ETC 14.20 CLP -5.94

PLANETOCENTRIC CONIC

C3 18.295 VHL 4.277 DLA -17.22 RAL 164.91 RAD 6567.7 VEL 11.818 PTH 2.09 VHP 8.405 DPA 9.10 RAP 173.81 ECC 1.3011

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 17 33	1626.15	-2.30	6.94	24.30	118.23	8 44 39	1026.1	1.49	.31
90.00	15 35 27	5404.58	28.02	247.90	30.82	85.76	17 5 31	4804.6	27.14	239.35
100.00	9 28 58	1395.69	-3.50	349.34	23.64	119.71	9 52 13	795.7	.48	342.81
100.00	17 6 43	5110.27	29.38	226.12	30.69	84.25	18 31 53	4510.3	28.28	217.49
110.00	10 15 22	1250.30	-6.53	336.44	21.76	123.63	10 36 12	650.3	-2.06	330.19
110.00	18 36 48	4828.42	32.91	204.15	30.13	80.20	19 57 16	4228.4	31.21	195.34

DIFFERENTIAL CORRECTIONS
TOE .6327 TRA -.9460 TC3 .4976 BAU .1354
RDE -.2237 RRA -.1223 RC3 .2427 FAU .03456
FDE -.9648 FRA .8099 FC3-1.6357 BSP 5141
BDE .6711 BRA .9539 BC3 .5537 FSP -522

MID-COURSE EXECUTION ACCURACY
SGT 1630.9 SGR 402.9 SG3 191.6
RRT .0943 RRF -.1097 RTF -.8842
SGB 1679.9 R23 -.0210 R13 -.8843
SGI 1631.3 SG2 401.0 THA 1.42

ORBIT DETERMINATION ACCURACY
ST 936.4 SR 304.1 SS 971.1
CRT -.8196 CRS -.9086 CST .9835
LSA 1369.5 MSA 191.0 SSA 16.9
EL1 970.1 EL2 168.2 ALF 164.62

LAUNCH DATE MAY 29 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 14 1967

HELIOCENTRIC CONIC DISTANCE 270.253

RL 151.62 LAL .00 LOL 246.96 VL 25.804 GAL 2.88 AZL 93.58 HCA 112.83 SMA 122.34 ECC .24423 INC 3.5822 V1 29.385
RP 108.69 LAP -3.30 LOP 359.83 VP 36.841 GAP -12.63 AZP 88.61 TAL 171.02 TAP 283.84 RCA 92.46 APO 152.22 V2 34.865
RC 47.255 GL -22.97 GP 2.73 ZAL 75.88 ZAP 8.29 ETS 340.59 ZAE 152.80 ETE 29.97 ZAC 92.64 ETC 14.06 CLP -7.83

PLANETOCENTRIC CONIC

C3 17.024 VHL 4.126 DLA -18.01 RAL 163.63 RAD 6567.7 VEL 11.765 PTH 2.08 VHP 7.959 DPA 8.78 RAP 175.09 ECC 1.2802

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 20 23	1579.23	-.79	4.32	22.20	118.31	8 46 42	979.2	3.00	357.69
90.00	15 22 24	5418.06	28.09	248.89	28.59	86.25	16 52 42	4818.1	27.27	240.31
100.00	9 31 5	1351.11	-1.99	346.89	21.53	119.83	9 53 36	751.1	1.99	340.37
100.00	16 54 23	5121.41	29.46	226.94	28.47	84.68	18 19 44	4521.4	28.41	218.29
110.00	10 16 2	1210.28	-5.02	334.33	19.65	123.86	10 36 12	610.3	-.53	328.11
110.00	18 25 56	4835.01	32.99	204.65	27.93	80.49	19 46 31	4235.0	31.32	195.82

DIFFERENTIAL CORRECTIONS
TOE .6450 TRA -.9121 TC3 .5869 BAU .1462
RDE -.2039 RRA -.1142 RC3 .2610 FAU .03728
FDE-1.0531 FRA .8262 FC3-1.8956 BSP 5310
BDE .6764 BRA .9192 BC3 .6423 FSP -585

MID-COURSE EXECUTION ACCURACY
SGT 1676.4 SGR 393.0 SG3 212.4
RRT .1104 RRF -.1283 RTF -.8917
SGB 1721.8 R23 -.0244 R13 -.8919
SGI 1677.0 SG2 390.4 THA 1.57

ORBIT DETERMINATION ACCURACY
ST 980.8 SR 287.7 SS 1036.5
CRT -.8278 CRS -.9128 CST .9843
LSA 1443.8 MSA 185.3 SSA 16.8
EL1 1010.0 EL2 156.7 ALF 166.01

LAUNCH DATE MAY 29 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 16 1967

DISTANCE 276.963

HELIOCENTRIC CONIC
RL 151.62 LAL .00 LOL 246.96 VL 25.939 GAL 2.65 AZL 93.62 HCA 116.00 SMA 123.13 ECC .23565 INC 3.6194 V1 29.385
RP 108.66 LAP -3.25 LOP 3.01 VP 36.945 GAP -11.87 AZP 88.41 TAL 171.35 TAP 287.35 RCA 94.12 APO 152.15 V2 34.875
RC 48.458 GL -24.20 GP 2.97 ZAL 76.84 ZAP 10.22 ETS 342.87 ZAE 151.39 ETE 28.11 ZAC 91.40 ETC 13.92 CLP -9.79

PLANETOCENTRIC CONIC
C3 15.921 VHL 3.990 DLA -18.78 RAL 162.29 RAD 6567.6 VEL 11.718 PTH 2.06 VHP 7.531 DPA 8.51 RAP 176.31 ECC 1.2620

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 23 7	1533.48	.69	1.77	20.14	118.31	8 48 41	933.5	4.47	355.13
90.00	15 8 58	5433.18	28.15	249.99	26.39	86.79	16 39 31	4833.2	27.41	241.40
100.00	9 33 2	1307.86	-.52	344.51	19.47	119.89	9 54 50	707.9	3.46	337.99
100.00	16 41 44	5134.03	29.53	227.87	26.28	85.16	18 7 18	4534.0	28.55	219.20
110.00	10 16 28	1171.79	-3.55	332.31	17.58	124.02	10 36 0	571.8	.94	326.10
110.00	18 14 48	4842.87	33.08	205.25	25.77	80.83	19 35 31	4242.9	31.46	196.40

DIFFERENTIAL CORRECTIONS
TDE .6574 TRA -.8772 TC3 .6784 BAU .1562
RDE -.1846 RRA -.1068 RC3 .2799 FAU .04031
FDE-1.1537 FRA .8430 FC3-2.1918 BSP 5467
BDE .6828 BRA .8837 BC3 .7339 FSP -656

MID-COURSE EXECUTION ACCURACY
SGT 1718.8 SGR 382.6 SG3 235.6
RRT .1313 RRF -.1522 RTF -.8984
SGB 1760.9 R23 -.0284 R13 -.8987
SG1 1719.6 SG2 379.1 THA 1.76

ORBIT DETERMINATION ACCURACY
ST 1025.0 SR 269.5 SS 1107.0
CRT -.8349 CRS -.9161 CST .9851
LSA 1521.8 MSA 179.9 SSA 16.6
EL1 1049.9 EL2 144.8 ALF 167.37

LAUNCH DATE MAY 29 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 18 1967

DISTANCE 283.666

HELIOCENTRIC CONIC
RL 151.62 LAL .00 LOL 246.96 VL 26.063 GAL 2.43 AZL 93.66 HCA 119.18 SMA 123.87 ECC .22775 INC 3.6586 V1 29.385
RP 108.63 LAP -3.19 LOP 6.19 VP 37.042 GAP -11.13 AZP 88.21 TAL 171.71 TAP 290.89 RCA 95.66 APO 152.09 V2 34.886
RC 49.776 GL -25.43 GP 3.25 ZAL 77.84 ZAP 12.26 ETS 344.37 ZAE 150.17 ETE 26.63 ZAC 90.24 ETC 13.79 CLP -11.83

PLANETOCENTRIC CONIC
C3 14.969 VHL 3.869 DLA -19.54 RAL 160.90 RAD 6567.6 VEL 11.677 PTH 2.05 VHP 7.120 DPA 8.31 RAP 177.47 ECC 1.2464

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 25 49	1488.91	2.13	359.29	18.14	118.24	8 50 38	888.9	5.89	352.62
90.00	14 55 13	5449.96	28.21	251.21	24.24	87.41	16 26 3	4850.0	27.55	242.61
100.00	9 34 54	1265.95	.90	342.22	17.46	119.88	9 56 0	666.0	4.87	335.68
100.00	16 28 49	5148.15	29.61	228.91	24.14	85.70	17 54 37	4548.1	28.70	220.23
110.00	10 16 44	1134.85	-2.14	330.38	15.56	124.12	10 35 39	534.9	2.35	324.17
110.00	18 3 28	4852.01	33.17	205.94	23.66	81.23	19 24 20	4252.0	31.61	197.07

DIFFERENTIAL CORRECTIONS
TDE .6709 TRA -.8404 TC3 .7755 BAU .1664
RDE -.1653 RRA -.1003 RC3 .2994 FAU .04378
FDE-1.2690 FRA .8594 FC3-2.5317 BSP 5650
BDE .6910 BRA .8463 BC3 .8313 FSP -738

MID-COURSE EXECUTION ACCURACY
SGT 1758.1 SGR 372.0 SG3 262.0
RRT .1587 RRF -.1831 RTF -.9053
SGB 1797.1 R23 -.0333 R13 -.9056
SG1 1759.2 SG2 367.1 THA 2.01

ORBIT DETERMINATION ACCURACY
ST 1069.8 SR 249.4 SS 1183.2
CRT -.8409 CRS -.9182 CST .9860
LSA 1605.0 MSA 174.4 SSA 16.4
EL1 1090.5 EL2 132.4 ALF 168.74

LAUNCH DATE MAY 29 1967 FLIGHT TIME 114.00 ARRIVAL DATE SEP 20 1967

DISTANCE 290.360

HELIOCENTRIC CONIC
RL 151.62 LAL .00 LOL 246.96 VL 26.176 GAL 2.22 AZL 93.70 HCA 122.36 SMA 124.56 ECC .22051 INC 3.7004 V1 29.385
RP 108.59 LAP -3.13 LOP 9.37 VP 37.132 GAP -10.42 AZP 88.02 TAL 172.09 TAP 294.45 RCA 97.09 APO 152.03 V2 34.897
RC 51.201 GL -26.66 GP 3.57 ZAL 78.86 ZAP 14.41 ETS 345.39 ZAE 149.14 ETE 25.50 ZAC 89.15 ETC 13.67 CLP -13.97

PLANETOCENTRIC CONIC
C3 14.152 VHL 3.762 DLA -20.28 RAL 159.49 RAD 6567.6 VEL 11.642 PTH 2.04 VHP 6.727 DPA 8.18 RAP 178.57 ECC 1.2329

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 28 33	1445.45	3.52	356.86	16.22	118.11	8 52 38	845.4	7.26	350.17
90.00	14 41 11	5468.49	28.26	252.56	22.15	88.08	16 12 20	4868.5	27.69	243.94
100.00	9 36 45	1225.36	2.27	339.99	15.52	119.81	9 57 10	625.4	6.22	333.43
100.00	16 15 40	5163.81	29.68	230.07	22.07	86.31	17 41 44	4563.8	28.86	221.36
110.00	10 16 54	1099.48	-.79	328.53	13.61	124.18	10 35 14	499.5	3.70	322.32
110.00	17 52 0	4862.45	33.28	206.74	21.63	81.69	19 13 2	4262.4	31.77	197.84

DIFFERENTIAL CORRECTIONS
TDE .6826 TRA -.8043 TC3 .8680 BAU .1750
RDE -.1459 RRA -.0944 RC3 .3198 FAU .04766
FDE-1.4003 FRA .8771 FC3-2.9159 BSP 5781
BDE .6981 BRA .8098 BC3 .9250 FSP -830

MID-COURSE EXECUTION ACCURACY
SGT 1792.4 SGR 361.7 SG3 291.6
RRT .1948 RRF -.2230 RTF -.9108
SGB 1828.5 R23 -.0391 R13 -.9112
SG1 1793.9 SG2 354.5 THA 2.34

ORBIT DETERMINATION ACCURACY
ST 1111.2 SR 227.1 SS 1264.8
CRT -.8438 CRS -.9185 CST .9867
LSA 1690.2 MSA 170.0 SSA 16.0
EL1 1127.8 EL2 120.1 ALF 170.10

LAUNCH DATE MAY 29 1967 FLIGHT TIME 116.00 ARRIVAL DATE SEP 22 1967

DISTANCE 297.043

HELIOCENTRIC CONIC
RL 151.62 LAL .00 LOL 246.96 VL 26.279 GAL 2.03 AZL 93.75 HCA 125.54 SMA 125.20 ECC .21389 INC 3.7453 V1 29.385
RP 108.56 LAP -3.05 LOP 12.56 VP 37.216 GAP -9.74 AZP 87.82 TAL 172.48 TAP 298.03 RCA 98.42 APO 151.97 V2 34.908
RC 52.722 GL -27.88 GP 3.95 ZAL 79.89 ZAP 16.68 ETS 346.09 ZAE 148.33 ETE 24.68 ZAC 88.15 ETC 13.55 CLP -16.21

PLANETOCENTRIC CONIC
C3 13.456 VHL 3.668 DLA -21.00 RAL 158.05 RAD 6567.5 VEL 11.612 PTH 2.03 VHP 6.351 DPA 8.13 RAP 179.58 ECC 1.2214

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 31 24	1402.95	4.88	354.47	14.37	117.93	8 54 47	802.9	8.58	347.75
90.00	14 26 53	5488.89	28.29	254.06	20.14	88.83	15 58 22	4888.9	27.83	245.42
100.00	9 38 38	1185.98	3.60	337.82	13.67	119.69	9 58 24	586.0	7.53	331.23
100.00	16 2 20	5181.09	29.75	231.35	20.08	86.98	17 28 41	4581.1	29.02	222.62
110.00	10 17 2	1065.62	.50	326.76	11.74	124.18	10 34 48	465.6	4.98	320.55
110.00	17 40 25	4874.21	33.39	207.64	19.67	82.21	19 1 40	4274.2	31.95	198.71

DIFFERENTIAL CORRECTIONS
TDE .6927 TRA -.7685 TC3 .9540 BAU .1823
RDE -.1261 RRA -.0894 RC3 .3415 FAU .05202
FDE-1.5498 FRA .8957 FC3-3.3468 BSP 5871
BDE .7041 BRA .7736 BC3 1.0133 FSP -932

MID-COURSE EXECUTION ACCURACY
SGT 1820.4 SGR 352.1 SG3 324.8
RRT .2413 RRF -.2740 RTF -.9154
SGB 1854.1 R23 -.0464 R13 -.9158
SG1 1822.4 SG2 341.3 THA 2.77

ORBIT DETERMINATION ACCURACY
ST 1148.9 SR 202.2 SS 1351.7
CRT -.8424 CRS -.9159 CST .9874
LSA 1777.6 MSA 166.4 SSA 15.6
EL1 1161.5 EL2 107.8 ALF 171.49

LAUNCH DATE MAY 29 1967 FLIGHT TIME 118.00 ARRIVAL DATE SEP 24 1967

HELIOCENTRIC CONIC DISTANCE 303.714

RL 151.62 LAL .00 LOL 246.96 VL 26.372 GAL 1.86 AZL 93.79 HCA 128.73 SMA 125.78 ECC .20787 INC 3.7939 VI 29.385
RP 108.52 LAP -2.96 LOP 15.75 VP 37.293 GAP -9.07 AZP 87.62 TAL 172.88 TAP 301.61 RCA 99.63 APO 151.93 V2 34.920
RC 54.330 GL -29.09 GP 4.38 ZAL 80.91 ZAP 19.07 ETS 346.56 ZAE 147.75 ETE 24.18 ZAC 87.25 ETC 13.43 CLP -18.58

PLANETOCENTRIC CONIC

C3 12.869 VHL 3.587 DLA -21.72 RAL 156.61 RAD 6567.5 VEL 11.587 PTH 2.03 VHP 5.993 DPA 8.19 RAP 180.51 ECC 1.2118

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 34 32	1361.18	6.21	352.12	12.63	117.68	8 57 13	761.2	9.87	345.35
90.00	14 12 17	5511.37	28.32	255.70	18.22	89.65	15 44 9	4911.4	27.97	247.05
100.00	9 40 42	1147.64	4.89	335.71	11.91	119.53	9 59 49	547.6	8.79	329.08
100.00	15 48 49	5200.14	29.81	232.76	18.18	87.72	17 15 29	4600.1	29.18	224.02
110.00	10 17 13	1033.16	1.74	325.07	9.95	124.14	10 34 26	433.2	6.21	318.84
110.00	17 28 47	4887.38	33.51	208.65	17.82	82.80	18 50 14	4287.4	32.15	199.68

DIFFERENTIAL CORRECTIONS
TDE .7025 TRA -.7318 TC3 1.0325 BAU .1884
RDE -.1054 RRA -.0853 RC3 .3651 FAU .05691
FDE-1.7224 FRA .9146 FC3-3.8286 BSP 5954
BDE .7104 BRA .7367 BC3 1.0952 FSP -1048

MID-COURSE EXECUTION ACCURACY
SGT 1841.3 SGR 344.1 SG3 362.3
RRT .2992 RRF -.3374 RTF -.9195
SGB 1873.2 R23 -.0558 R13 -.9201
SG1 1844.3 SG2 327.8 THA 3.31

ORBIT DETERMINATION ACCURACY
ST 1184.0 SR 174.2 SS 1445.9
CRT -.8346 CRS -.9082 CST .9880
LSA 1869.7 MSA 163.2 SSA 15.0
EL1 1192.9 EL2 95.2 ALF 172.96

LAUNCH DATE MAY 29 1967 FLIGHT TIME 120.00 ARRIVAL DATE SEP 26 1967

HELIOCENTRIC CONIC DISTANCE 310.371

RL 151.62 LAL .00 LOL 246.96 VL 26.457 GAL 1.70 AZL 93.85 HCA 131.92 SMA 126.32 ECC .20240 INC 3.8471 VI 29.385
RP 108.48 LAP -2.86 LOP 18.94 VP 37.364 GAP -8.42 AZP 87.43 TAL 173.29 TAP 305.20 RCA 100.75 APO 151.88 V2 34.932
RC 56.016 GL -30.28 GP 4.89 ZAL 81.92 ZAP 21.62 ETS 346.86 ZAE 147.39 ETE 24.01 ZAC 86.47 ETC 13.32 CLP -21.09

PLANETOCENTRIC CONIC

C3 12.381 VHL 3.519 DLA -22.42 RAL 155.19 RAD 6567.5 VEL 11.566 PTH 2.02 VHP 5.652 DPA 8.38 RAP 181.35 ECC 1.2038

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 38 4	1319.77	7.51	349.78	11.00	117.38	9 0 4	719.8	11.12	342.96
90.00	13 57 22	5536.26	28.31	257.52	16.41	90.57	15 29 39	4936.3	28.09	248.86
100.00	9 43 2	1110.07	6.15	333.62	10.26	119.31	10 1 32	510.1	10.01	326.96
100.00	15 35 5	5221.19	29.86	234.33	16.39	88.54	17 2 6	4621.2	29.34	225.56
110.00	10 17 32	1001.93	2.94	323.44	8.27	124.07	10 34 14	401.9	7.39	317.18
110.00	17 17 5	4902.09	33.63	209.78	16.08	83.46	18 38 47	4302.1	32.36	200.78

DIFFERENTIAL CORRECTIONS
TDE .7100 TRA -.6944 TC3 1.1033 BAU .1938
RDE -.0832 RRA -.0819 RC3 .3916 FAU .06251
FDE-1.9205 FRA .9331 FC3-4.3708 BSP 6011
BDE .7149 BRA .6992 BC3 1.1708 FSP -1182

MID-COURSE EXECUTION ACCURACY
SGT 1853.6 SGR 339.3 SG3 404.7
RRT .3717 RRF -.4159 RTF -.9230
SGB 1884.5 R23 -.0674 R13 -.9239
SG1 1858.1 SG2 314.3 THA 4.01

ORBIT DETERMINATION ACCURACY
ST 1213.3 SR 142.5 SS 1546.6
CRT -.8133 CRS -.8900 CST .9886
LSA 1964.3 MSA 160.5 SSA 14.4
EL1 1218.8 EL2 82.6 ALF 174.52

LAUNCH DATE MAY 29 1967 FLIGHT TIME 122.00 ARRIVAL DATE SEP 28 1967

HELIOCENTRIC CONIC DISTANCE 317.014

RL 151.62 LAL .00 LOL 246.96 VL 26.534 GAL 1.55 AZL 93.91 HCA 135.10 SMA 126.81 ECC .19747 INC 3.9059 VI 29.385
RP 108.45 LAP -2.76 LOP 22.13 VP 37.430 GAP -7.80 AZP 87.23 TAL 173.68 TAP 308.79 RCA 101.76 APO 151.85 V2 34.945
RC 57.772 GL -31.46 GP 5.49 ZAL 82.89 ZAP 24.34 ETS 347.02 ZAE 147.26 ETE 24.19 ZAC 85.82 ETC 13.21 CLP -23.75

PLANETOCENTRIC CONIC

C3 11.984 VHL 3.462 DLA -23.12 RAL 153.79 RAD 6567.5 VEL 11.549 PTH 2.02 VHP 5.329 DPA 8.70 RAP 182.09 ECC 1.1972

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 42 14	1278.17	8.81	347.41	9.50	117.02	9 3 32	678.2	12.36	340.53
90.00	13 42 1	5564.07	28.28	259.55	14.71	91.59	15 14 45	4964.1	28.20	250.89
100.00	9 45 50	1072.87	7.38	331.55	8.74	119.05	10 3 43	472.9	11.20	324.85
100.00	15 21 6	5244.60	29.89	236.07	14.72	89.46	16 48 31	4644.6	29.49	227.28
110.00	10 18 7	971.68	4.09	321.86	6.71	123.97	10 34 19	371.7	8.52	315.57
110.00	17 5 19	4918.55	33.75	211.05	14.47	84.20	18 27 18	4318.6	32.58	202.01

DIFFERENTIAL CORRECTIONS
TDE .7161 TRA -.6564 TC3 1.1609 BAU .1979
RDE -.0590 RRA -.0795 RC3 .4221 FAU .06879
FDE-2.1490 FRA .9515 FC3-4.9694 BSP 6077
BDE .7185 BRA .6612 BC3 1.2353 FSP -1336

MID-COURSE EXECUTION ACCURACY
SGT 1856.4 SGR 339.7 SG3 452.4
RRT .4570 RRF -.5078 RTF -.9262
SGB 1887.2 R23 -.0821 R13 -.9275
SG1 1863.0 SG2 301.0 THA 4.91

ORBIT DETERMINATION ACCURACY
ST 1237.2 SR 107.0 SS 1655.2
CRT -.7574 CRS -.8429 CST .9892
LSA 2063.2 MSA 157.9 SSA 13.6
EL1 1239.9 EL2 69.7 ALF 176.24

LAUNCH DATE MAY 29 1967 FLIGHT TIME 124.00 ARRIVAL DATE SEP 30 1967

HELIOCENTRIC CONIC DISTANCE 323.641

RL 151.62 LAL .00 LOL 246.96 VL 26.602 GAL 1.41 AZL 93.97 HCA 138.30 SMA 127.25 ECC .19304 INC 3.9718 VI 29.385
RP 108.41 LAP -2.64 LOP 25.32 VP 37.490 GAP -7.19 AZP 87.03 TAL 174.07 TAP 312.36 RCA 102.68 APO 151.81 V2 34.957
RC 59.590 GL -32.63 GP 6.20 ZAL 83.81 ZAP 27.24 ETS 347.09 ZAE 147.35 ETE 24.78 ZAC 85.30 ETC 13.10 CLP -26.58

PLANETOCENTRIC CONIC

C3 11.672 VHL 3.416 DLA -23.83 RAL 152.42 RAD 6567.4 VEL 11.535 PTH 2.01 VHP 5.023 DPA 9.20 RAP 182.71 ECC 1.1921

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 47 20	1235.56	10.12	344.96	8.15	116.59	9 7 55	635.6	13.61	338.02
90.00	13 26 3	5595.61	28.20	261.86	13.14	92.74	14 59 18	4995.6	28.28	253.19
100.00	9 49 19	1035.46	8.62	329.46	7.36	118.73	10 6 35	435.5	12.39	322.70
100.00	15 6 44	5270.93	29.89	238.03	13.19	90.49	16 34 35	4670.9	29.64	229.23
110.00	10 19 6	942.06	5.21	320.30	5.27	123.83	10 34 48	342.1	9.62	313.98
110.00	16 53 27	4937.10	33.87	212.49	13.01	85.05	18 15 44	4337.1	32.81	203.41

DIFFERENTIAL CORRECTIONS
TDE .7178 TRA -.6201 TC3 1.1961 BAU .1998
RDE -.0316 RRA -.0780 RC3 .4580 FAU .07578
FDE-2.4116 FRA .9719 FC3-5.6208 BSP 6046
BDE .7185 BRA .6250 BC3 1.2807 FSP -1503

MID-COURSE EXECUTION ACCURACY
SGT 1846.5 SGR 348.1 SG3 505.9
RRT .5514 RRF -.6093 RTF -.9280
SGB 1879.1 R23 -.1016 R13 -.9298
SG1 1856.7 SG2 288.8 THA 6.08

ORBIT DETERMINATION ACCURACY
ST 1251.5 SR 68.9 SS 1771.3
CRT -.5686 CRS -.6780 CST .9895
LSA 2164.3 MSA 156.5 SSA 12.8
EL1 1252.1 EL2 56.6 ALF 178.20

LAUNCH DATE MAY 29 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 2 1967

DISTANCE 330.252

HELIOCENTRIC CONIC
RL 151.62 LAL .00 LOL 246.96 VL 26.664 GAL 1.29 AZL 94.05 HCA 141.49 SMA 127.65 ECC .18908 INC 4.0465 V1 29.385
RP 108.37 LAP -2.52 LOP 28.52 VP 37.546 GAP -6.61 AZP 86.83 TAL 174.43 TAP 315.92 RCA 103.51 APO 151.79 V2 34.970
RC 61.464 GL -33.79 GP 7.04 ZAL 84.68 ZAP 30.36 ETS 347.08 ZAE 147.66 ETE 25.84 ZAC 84.94 ETC 13.00 CLP -29.61

PLANETOCENTRIC CONIC
C3 11.440 VHL 3.382 DLA -24.56 RAL 151.10 RAD 6567.4 VEL 11.525 PTH 2.01 VHP 4.737 DPA 9.90 RAP 183.22 ECC 1.1883

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 53 46	1190.67	11.47	342.36	6.98	116.07	9 13 37	590.7	14.88	335.34
90.00	13 9 5	5632.14	28.05	264.52	11.70	94.06	14 42 57	5032.1	28.32	255.86
100.00	9 53 46	997.01	9.87	327.29	6.14	118.36	10 10 23	397.0	13.58	320.47
100.00	14 51 47	5301.03	29.85	240.26	11.80	91.67	16 20 8	4701.0	29.76	231.46
110.00	10 20 40	912.60	6.33	318.75	3.99	123.66	10 35 53	312.6	10.71	312.40
110.00	16 41 22	4958.20	33.98	214.13	11.70	86.01	18 4 0	4358.2	33.05	205.01

DIFFERENTIAL CORRECTIONS
TOE .7148 TRA -.5843 TC3 1.2047 BAU .1995
ROE -.0001 RRA -.0776 RC3 .5010 FAU .08345
FOE-2.7121 FRA .9921 FC3-6.3150 BSP 5988
BOE .7148 BRA .5895 BC3 1.3047 FSP -1694

MID-COURSE EXECUTION ACCURACY
SGT 1820.6 SGR 368.4 SG3 565.0
RRT .6459 RRF -.7113 RTF -.9285
SGB 1857.5 R23 -.1273 R13 -.9313
SG1 1836.4 SG2 278.8 THA 7.62

ORBIT DETERMINATION ACCURACY
ST 1254.3 SR 44.5 SS 1894.7
CRT .2538 CRS .1187 CST .9897
LSA 2267.3 MSA 155.8 SSA 11.9
EL1 1254.3 EL2 43.1 ALF .52

LAUNCH DATE MAY 29 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 4 1967

DISTANCE 336.845

HELIOCENTRIC CONIC
RL 151.62 LAL .00 LOL 246.96 VL 26.718 GAL 1.19 AZL 94.13 HCA 144.68 SMA 128.01 ECC .18556 INC 4.1325 V1 29.385
RP 108.33 LAP -2.39 LOP 31.71 VP 37.597 GAP -6.03 AZP 86.63 TAL 174.77 TAP 319.46 RCA 104.26 APO 151.76 V2 34.983
RC 63.388 GL -34.96 GP 8.07 ZAL 85.47 ZAP 33.72 ETS 347.00 ZAE 148.16 ETE 27.50 ZAC 84.74 ETC 12.92 CLP -32.85

PLANETOCENTRIC CONIC
C3 11.287 VHL 3.360 DLA -25.31 RAL 149.84 RAD 6567.4 VEL 11.518 PTH 2.01 VHP 4.470 DPA 10.85 RAP 183.61 ECC 1.1858

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 2 13	1141.47	12.93	339.48	6.01	115.41	9 21 14	541.5	16.24	332.37
90.00	12 50 32	5675.76	27.80	267.69	10.40	95.63	14 25 8	5075.8	28.29	259.06
100.00	9 59 34	956.29	11.17	324.97	5.11	117.91	10 15 30	356.3	14.82	318.08
100.00	14 35 52	5336.17	29.75	242.87	10.57	93.04	16 4 48	4736.2	29.86	234.07
110.00	10 23 2	882.68	7.45	317.16	2.87	123.46	10 37 44	282.7	11.80	310.77
110.00	16 28 54	4982.54	34.08	216.02	10.58	87.13	17 51 56	4382.5	33.30	206.86

DIFFERENTIAL CORRECTIONS
TOE .7086 TRA -.5463 TC3 1.1961 BAU .1989
ROE .0374 RRA -.0781 RC3 .5542 FAU .09214
FOE-3.0613 FRA 1.0054 FC3-7.0671 BSP 5924
BOE .7096 BRA .5518 BC3 1.3182 FSP -1913

MID-COURSE EXECUTION ACCURACY
SGT 1780.0 SGR 405.5 SG3 631.4
RRT .7318 RRF -.8035 RTF -.9287
SGB 1825.6 R23 -.1578 R13 -.9331
SG1 1805.1 SG2 272.5 THA 9.69

ORBIT DETERMINATION ACCURACY
ST 1247.6 SR 78.4 SS 2029.0
CRT .9308 CRS .8738 CST .9899
LSA 2378.1 MSA 154.6 SSA 11.0
EL1 1249.7 EL2 28.6 ALF 3.35

LAUNCH DATE MAY 29 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 6 1967

DISTANCE 343.420

HELIOCENTRIC CONIC
RL 151.62 LAL .00 LOL 246.96 VL 26.767 GAL 1.10 AZL 94.23 HCA 147.88 SMA 128.33 ECC .18245 INC 4.2333 V1 29.385
RP 108.29 LAP -2.25 LOP 34.91 VP 37.643 GAP -5.48 AZP 86.41 TAL 175.08 TAP 322.96 RCA 104.92 APO 151.74 V2 34.996
RC 65.357 GL -36.15 GP 9.31 ZAL 86.18 ZAP 37.35 ETS 346.86 ZAE 148.81 ETE 29.91 ZAC 84.72 ETC 12.86 CLP -36.33

PLANETOCENTRIC CONIC
C3 11.215 VHL 3.349 DLA -26.12 RAL 148.62 RAD 6567.4 VEL 11.515 PTH 2.01 VHP 4.224 DPA 12.10 RAP 183.88 ECC 1.1846

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 13 51	1084.25	14.57	336.08	5.29	114.55	9 31 55	484.2	17.77	328.86
90.00	12 29 14	5730.35	27.37	271.62	9.22	97.56	14 4 44	5130.3	28.13	263.04
100.00	10 7 23	911.35	12.59	322.39	4.30	117.34	10 22 34	311.3	16.16	315.41
100.00	14 18 22	5378.48	29.56	246.00	9.49	94.67	15 48 1	4778.5	29.89	237.21
110.00	10 26 29	851.43	8.62	315.50	1.94	123.21	10 40 40	251.4	12.93	309.05
110.00	16 15 46	5011.16	34.15	218.25	9.64	88.44	17 39 17	4411.2	33.56	209.06

DIFFERENTIAL CORRECTIONS
TOE .6938 TRA -.5111 TC3 1.1536 BAU .1963
ROE .0830 RRA -.0799 RC3 .6197 FAU .10150
FOE-3.4555 FRA 1.0200 FC3-7.8351 BSP 5781
BOE .6988 BRA .5173 BC3 1.3095 FSP -2148

MID-COURSE EXECUTION ACCURACY
SGT 1718.9 SGR 464.3 SG3 703.3
RRT .7988 RRF -.8766 RTF -.9266
SGB 1780.5 R23 -.1950 R13 -.9338
SG1 1759.4 SG2 272.9 THA 12.48

ORBIT DETERMINATION ACCURACY
ST 1222.7 SR 149.7 SS 2168.9
CRT .9955 CRS .9759 CST .9898
LSA 2489.5 MSA 154.5 SSA 10.0
EL1 1231.7 EL2 14.1 ALF 6.95

LAUNCH DATE MAY 29 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 8 1967

DISTANCE 349.978

HELIOCENTRIC CONIC
RL 151.62 LAL .00 LOL 246.96 VL 26.809 GAL 1.02 AZL 94.35 HCA 151.08 SMA 128.61 ECC .17973 INC 4.3540 V1 29.385
RP 108.25 LAP -2.10 LOP 38.11 VP 37.686 GAP -4.94 AZP 86.19 TAL 175.36 TAP 326.44 RCA 105.50 APO 151.73 V2 35.009
RC 67.365 GL -37.39 GP 10.85 ZAL 86.81 ZAP 41.27 ETS 346.69 ZAE 149.51 ETE 33.28 ZAC 84.87 ETC 12.83 CLP -40.07

PLANETOCENTRIC CONIC
C3 11.232 VHL 3.351 DLA -27.00 RAL 147.46 RAD 6567.4 VEL 11.516 PTH 2.01 VHP 4.001 DPA 13.71 RAP 184.05 ECC 1.1848

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 31 18	1010.66	16.60	331.63	4.91	113.27	9 48 8	410.7	19.61	324.25
90.00	12 2 30	5804.53	26.59	276.91	8.12	100.11	13 39 15	5204.5	27.72	268.43
100.00	10 18 18	858.82	14.21	319.33	3.76	116.58	10 32 37	258.8	17.67	312.24
100.00	13 58 11	5431.61	29.20	249.91	8.56	96.70	15 28 43	4831.6	29.82	241.16
110.00	10 31 25	817.61	9.88	313.68	1.23	122.89	10 45 3	217.6	14.14	307.18
110.00	16 1 33	5045.57	34.18	220.94	8.90	90.04	17 25 39	4445.6	33.81	211.71

DIFFERENTIAL CORRECTIONS
TOE .6722 TRA -.4765 TC3 1.0741 BAU .1925
ROE .1401 RRA -.0830 RC3 .7001 FAU .11128
FOE-3.9063 FRA 1.0287 FC3-8.5776 BSP 5607
BOE .6866 BRA .4837 BC3 1.2821 FSP -2405

MID-COURSE EXECUTION ACCURACY
SGT 1635.5 SGR 550.4 SG3 780.2
RRT .8429 RRF -.9279 RTF -.9221
SGB 1725.6 R23 -.2347 R13 -.9346
SG1 1702.0 SG2 284.6 THA 16.31

ORBIT DETERMINATION ACCURACY
ST 1181.7 SR 244.7 SS 2318.7
CRT .9985 CRS .9936 CST .9894
LSA 2609.3 MSA 154.6 SSA 9.0
EL1 1206.7 EL2 13.0 ALF 11.68

LAUNCH DATE MAY 29 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 10 1967

HELIOCENTRIC CONIC DISTANCE 356.517

RL 151.62 LAL .00 LOL 246.96 VL 26.846 GAL .95 AZL 94.50 HCA 154.29 SMA 128.86 ECC .17738 INC 4.5020 V1 29.385
RP 108.20 LAP -1.95 LOP 41.31 VP 37.724 GAP -4.41 AZP 85.94 TAL 175.59 TAP 329.87 RCA 106.00 APO 151.72 V2 35.023
RC 69.409 GL -38.71 GP 12.76 ZAL 87.34 ZAP 45.52 ETS 346.49 ZAE 150.14 ETE 37.85 ZAC 85.19 ETC 12.86 CLP -44.08

PLANETOCENTRIC CONIC

C3 11.351 VHL 3.369 DLA -28.00 RAL 146.34 RAD 6567.4 VEL 11.521 PTH 2.01 VHP 3.804 DPA 15.79 RAP 184.14 ECC 1.1868

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 5 6	886.97	19.76	323.93	5.17	110.70	10 19 53	287.0	22.40	316.26
90.00	11 19 45	644.54	24.75	307.93	6.86	104.21	11 30 29	44.5	26.47	299.68
100.00	10 34 36	791.57	16.22	315.35	3.58	115.46	10 47 48	191.6	19.52	308.11
100.00	13 32 56	5503.21	28.52	255.12	7.74	99.36	15 4 39	4903.2	29.52	246.46
110.00	10 38 30	779.31	11.29	311.61	.77	122.48	10 51 30	179.3	15.49	305.03
110.00	15 45 31	5088.23	34.13	224.27	8.39	92.01	17 10 19	4488.2	34.03	215.03

DIFFERENTIAL CORRECTIONS

TDE .6366 TRA -.4456 TC3 .9485 BAU .1880
RDE .2127 RRA -.0881 RC3 .7971 FAU .12084
FDE-4.3994 FRA 1.0353 FC3-9.2165 BSP 5323
BDE .6712 BRA .4542 BC3 1.2390 FSP -2650

MID-COURSE EXECUTION ACCURACY

SGT 1522.2 SGR 669.4 SG3 857.6
RRT .8641 RRF -.9603 RTF -.9121
SGB 1662.9 R23 -.2716 R13 -.9355
SG1 1633.0 SG2 314.1 THA 21.65

ORBIT DETERMINATION ACCURACY

ST 1113.0 SR 365.7 SS 2467.9
CRT .9953 CRS .9980 CST .9882
LSA 2727.4 MSA 156.2 SSA 8.0
EL1 1171.1 EL2 33.8 ALF 18.12

LAUNCH DATE MAY 29 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 12 1967

HELIOCENTRIC CONIC DISTANCE 363.036

RL 151.62 LAL .00 LOL 246.96 VL 26.878 GAL .90 AZL 94.69 HCA 157.49 SMA 129.07 ECC .17536 INC 4.6890 V1 29.385
RP 108.16 LAP -1.79 LOP 44.52 VP 37.759 GAP -3.90 AZP 85.67 TAL 175.78 TAP 333.27 RCA 106.44 APO 151.71 V2 35.036
RC 71.485 GL -40.17 GP 15.20 ZAL 87.78 ZAP 50.14 ETS 346.28 ZAE 150.45 ETE 43.87 ZAC 85.65 ETC 12.97 CLP -48.38

PLANETOCENTRIC CONIC

C3 11.600 VHL 3.406 DLA -29.15 RAL 145.23 RAD 6567.4 VEL 11.532 PTH 2.01 VHP 3.638 DPA 18.44 RAP 184.23 ECC 1.1909

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.77	9 38 13	963.59	23.02	330.79	5.60	108.40	9 54 17	363.6	25.32	322.80
97.23	11 37 48	5865.01	23.03	280.34	5.60	108.38	13 15 33	5265.0	25.33	272.35
100.00	11 3 28	687.18	19.16	309.00	4.02	113.39	11 14 55	87.2	22.17	301.48
100.00	12 55 14	5616.65	26.99	263.20	6.85	103.35	14 28 51	5016.6	28.56	254.75
110.00	10 48 48	733.33	12.96	309.09	.64	121.91	11 1 2	133.3	17.08	302.41
110.00	15 26 23	5143.27	33.92	228.55	8.11	94.53	16 52 6	4543.3	34.17	219.32

DIFFERENTIAL CORRECTIONS

TDE .5937 TRA -.4124 TC3 .8011 BAU .1889
RDE .3095 RRA -.0938 RC3 .9176 FAU .13047
FDE-4.9547 FRA 1.0137 FC3-9.7373 BSP 5170
BDE .6695 BRA .4230 BC3 1.2181 FSP -2920

MID-COURSE EXECUTION ACCURACY

SGT 1387.9 SGR 833.4 SG3 935.7
RRT .8686 RRF -.9794 RTF -.8978
SGB 1618.9 R23 -.2846 R13 -.9419
SG1 1577.6 SG2 363.3 THA 29.25

ORBIT DETERMINATION ACCURACY

ST 1026.9 SR 523.9 SS 2627.2
CRT .9913 CRS .9994 CST .9865
LSA 2864.7 MSA 156.7 SSA 7.0
EL1 1151.1 EL2 61.5 ALF 26.91

LAUNCH DATE MAY 29 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 14 1967

HELIOCENTRIC CONIC DISTANCE 369.536

RL 151.62 LAL .00 LOL 246.96 VL 26.905 GAL .86 AZL 94.93 HCA 160.70 SMA 129.25 ECC .17366 INC 4.9346 V1 29.385
RP 108.12 LAP -1.63 LOP 47.72 VP 37.791 GAP -3.40 AZP 85.34 TAL 175.92 TAP 336.62 RCA 106.81 APO 151.70 V2 35.049
RC 73.590 GL -41.84 GP 18.37 ZAL 88.13 ZAP 55.14 ETS 346.09 ZAE 150.05 ETE 51.44 ZAC 86.19 ETC 13.20 CLP -52.97

PLANETOCENTRIC CONIC

C3 12.034 VHL 3.469 DLA -30.54 RAL 144.10 RAD 6567.5 VEL 11.551 PTH 2.02 VHP 3.510 DPA 21.87 RAP 184.42 ECC 1.1981

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.07	8 57 36	1086.62	23.89	340.25	5.40	109.60	9 15 43	486.6	26.35	332.26
101.93	12 9 22	5757.38	23.91	272.67	5.41	109.59	13 45 19	5157.4	26.36	264.68
78.07	8 57 36	1086.62	23.89	340.25	5.40	109.60	9 15 43	486.6	26.35	332.26
101.93	12 9 22	5757.38	23.91	272.67	5.41	109.59	13 45 19	5157.4	26.36	264.68
110.00	11 4 33	673.18	15.09	305.75	.99	121.04	11 15 46	73.2	19.10	298.92
110.00	15 1 36	5218.81	33.36	234.38	8.04	97.94	16 28 35	4618.8	34.10	225.22

DIFFERENTIAL CORRECTIONS

TDE .5367 TRA -.3820 TC3 .6169 BAU .1973
RDE .4420 RRA -.1007 RC3 1.0596 FAU .13837
FDE-5.5467 FRA .9661 FC3-9.9542 BSP 5106
BDE .6953 BRA .3950 BC3 1.2261 FSP -3153

MID-COURSE EXECUTION ACCURACY

SGT 1227.0 SGR 1053.9 SG3 1004.1
RRT .8532 RRF -.9898 RTF -.8720
SGB 1617.5 R23 -.2617 R13 -.9560
SG1 1558.5 SG2 432.8 THA 39.93

ORBIT DETERMINATION ACCURACY

ST 913.4 SR 732.6 SS 2784.4
CRT .9865 CRS .9998 CST .9834
LSA 3016.4 MSA 157.8 SSA 6.0
EL1 1167.1 EL2 93.9 ALF 38.65

LAUNCH DATE MAY 29 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 16 1967

HELIOCENTRIC CONIC DISTANCE 376.017

RL 151.62 LAL .00 LOL 246.96 VL 26.927 GAL .83 AZL 95.27 HCA 163.91 SMA 129.41 ECC .17225 INC 5.2740 V1 29.385
RP 108.08 LAP -1.46 LOP 50.93 VP 37.819 GAP -2.91 AZP 84.93 TAL 176.01 TAP 339.91 RCA 107.12 APO 151.70 V2 35.062
RC 75.721 GL -43.86 GP 22.61 ZAL 88.38 ZAP 60.56 ETS 345.97 ZAE 148.37 ETE 60.27 ZAC 86.68 ETC 13.59 CLP -57.83

PLANETOCENTRIC CONIC

C3 12.759 VHL 3.572 DLA -32.26 RAL 142.86 RAD 6567.5 VEL 11.582 PTH 2.03 VHP 3.436 DPA 26.36 RAP 184.94 ECC 1.2100

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.85	8 23 12	1191.75	24.88	348.60	5.56	111.23	8 43 4	591.8	27.54	340.60
106.15	12 33 55	5677.13	24.90	267.01	5.57	111.22	14 8 32	5077.1	27.55	259.02
73.85	8 23 12	1191.75	24.88	348.60	5.56	111.23	8 43 4	591.8	27.54	340.60
106.15	12 33 55	5677.13	24.90	267.01	5.57	111.22	14 8 32	5077.1	27.55	259.02
110.00	11 31 50	5869.31	18.25	278.39	2.19	119.42	13 9 39	5269.3	22.02	271.30
110.00	14 24 27	5335.61	31.91	243.18	8.02	102.95	15 53 23	4735.6	33.37	234.25

DIFFERENTIAL CORRECTIONS

TDE .4626 TRA -.3561 TC3 .4012 BAU .2184
RDE .6307 RRA -.1081 RC3 1.2160 FAU .14225
FDE-6.1334 FRA .8798 FC3-9.6520 BSP 5304
BDE .7821 BRA .3722 BC3 1.2805 FSP -3303

MID-COURSE EXECUTION ACCURACY

SGT 1043.6 SGR 1349.1 SG3 1048.0
RRT .8084 RRF -.9952 RTF -.8219
SGB 1705.6 R23 -.1924 R13 -.9768
SG1 1627.9 SG2 509.1 THA 53.90

ORBIT DETERMINATION ACCURACY

ST 769.3 SR 1013.8 SS 2925.3
CRT .9788 CRS .9999 CST .9768
LSA 3186.1 MSA 159.7 SSA 4.9
EL1 1266.3 EL2 126.2 ALF 52.97

LAUNCH DATE MAY 29 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 18 1967

DISTANCE 382.477

HELIOCENTRIC CONIC
RL 151.62 LAL .00 LOL 246.96 VL 26.945 GAL .82 AZL 95.78 HCA 167.12 SMA 129.53 ECC .17112 INC 5.7773 V1 29.385
RP 108.04 LAP -1.29 LOP 54.14 VP 37.844 GAP -2.44 AZP 84.37 TAL 176.04 TAP 343.16 RCA 107.37 APO 151.69 V2 35.075
RC 77.874 GL -46.43 GP 28.47 ZAL 88.55 ZAP 66.43 ETS 345.98 ZAE 144.58 ETE 69.53 ZAC 86.89 ETC 14.17 CLP -62.94

PLANETOCENTRIC CONIC
C3 14.013 VHL 3.743 DLA -34.53 RAL 141.38 RAD 6567.6 VEL 11.636 PTH 2.04 VHP 3.448 DPA 32.35 RAP 186.29 ECC 1.2306

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.37	7 49 14	1298.41	25.99	357.35	6.24	113.57	8 10 53	698.4	28.94	349.39
110.63	12 56 4	5611.19	26.00	262.42	6.25	113.56	14 29 35	5011.2	28.95	254.45
69.37	7 49 14	1298.41	25.99	357.35	6.24	113.57	8 10 53	698.4	28.94	349.39
110.63	12 56 4	5611.19	26.00	262.42	6.25	113.56	14 29 35	5011.2	28.95	254.45
69.37	7 49 14	1298.41	25.99	357.35	6.24	113.57	8 10 53	698.4	28.94	349.39
110.63	12 56 4	5611.19	26.00	262.42	6.25	113.56	14 29 35	5011.2	28.95	254.45

DIFFERENTIAL CORRECTIONS
TDE .3709 TRA -.3369 TC3 .1745 BAU .2577
RDE .9161 RRA -.1138 RC3 1.3642 FAU .13860
FDE-6.6326 FRA .7368 FC3-8.5625 BSP 5989
BDE .9883 BRA .3556 BC3 1.3754 FSP -3286

MID-COURSE EXECUTION ACCURACY
SGT 855.0 SGR 1747.5 SG3 1044.1
RRT .7105 RRF -.9978 RTF -.7217
SGB 1945.5 R23 -.0987 R13 -.9931
SG1 1861.7 SG2 564.7 THA 68.79

ORBIT DETERMINATION ACCURACY
ST 597.9 SR 1403.9 SS 3027.4
CRT .9625 CRS 1.0000 CST .9613
LSA 3386.3 MSA 162.1 SSA 4.0
EL1 1518.5 EL2 149.9 ALF 67.48

LAUNCH DATE MAY 29 1967 FLIGHT TIME 144.00 ARRIVAL DATE OCT 20 1967

DISTANCE 388.917

HELIOCENTRIC CONIC
RL 151.62 LAL .00 LOL 246.96 VL 26.959 GAL .81 AZL 96.61 HCA 170.33 SMA 129.63 ECC .17024 INC 6.6091 V1 29.385
RP 108.00 LAP -1.11 LOP 57.35 VP 37.866 GAP -1.97 AZP 83.48 TAL 176.02 TAP 346.35 RCA 107.56 APO 151.69 V2 35.088
RC 80.046 GL -49.95 GP 36.98 ZAL 88.66 ZAP 72.75 ETS 346.27 ZAE 137.49 ETE 78.02 ZAC 86.39 ETC 14.90 CLP -68.21

PLANETOCENTRIC CONIC
C3 16.429 VHL 4.053 DLA -37.64 RAL 139.36 RAD 6567.7 VEL 11.739 PTH 2.07 VHP 3.630 DPA 40.61 RAP 189.64 ECC 1.2704

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.09	7 12 17	1420.13	27.09	7.67	7.81	117.20	7 35 57	820.1	30.50	359.83
115.91	13 16 53	5560.84	27.10	258.98	7.81	117.19	14 49 34	4960.8	30.51	251.13
64.09	7 12 17	1420.13	27.09	7.67	7.81	117.20	7 35 57	820.1	30.50	359.83
115.91	13 16 53	5560.84	27.10	258.98	7.81	117.19	14 49 34	4960.8	30.51	251.13
64.09	7 12 17	1420.13	27.09	7.67	7.81	117.20	7 35 57	820.1	30.50	359.83
115.91	13 16 53	5560.84	27.10	258.98	7.81	117.19	14 49 34	4960.8	30.51	251.13

DIFFERENTIAL CORRECTIONS
TDE .2608 TRA -.3283 TC3 -.0278 BAU .3191
RDE 1.3896 RRA -.1003 RC3 1.4525 FAU .12278
FDE-6.8621 FRA .4661 FC3-6.4699 BSP 7449
BDE 1.4139 BRA .3433 BC3 1.4527 FSP -3021

MID-COURSE EXECUTION ACCURACY
SGT 692.7 SGR 2297.2 SG3 955.5
RRT .5043 RRF -.9990 RTF -.5150
SGB 2399.3 R23 -.0284 R13 -.9987
SG1 2325.4 SG2 590.9 THA 80.75

ORBIT DETERMINATION ACCURACY
ST 408.4 SR 1965.3 SS 3043.8
CRT .9138 CRS 1.0000 CST .9132
LSA 3642.3 MSA 165.4 SSA 3.0
EL1 2000.7 EL2 162.9 ALF 79.18

LAUNCH DATE MAY 29 1967 FLIGHT TIME 146.00 ARRIVAL DATE OCT 22 1967

DISTANCE 395.331

HELIOCENTRIC CONIC
RL 151.62 LAL .00 LOL 246.96 VL 26.970 GAL .83 AZL 98.26 HCA 173.54 SMA 129.70 ECC .16961 INC 8.2576 V1 29.385
RP 107.96 LAP -.93 LOP 60.56 VP 37.885 GAP -1.52 AZP 81.79 TAL 175.94 TAP 349.48 RCA 107.70 APO 151.70 V2 35.101
RC 82.236 GL -55.14 GP 49.93 ZAL 88.78 ZAP 79.45 ETS 347.14 ZAE 125.34 ETE 84.67 ZAC 84.40 ETC 15.41 CLP -73.47

PLANETOCENTRIC CONIC
C3 22.285 VHL 4.721 DLA -42.20 RAL 136.12 RAD 6567.9 VEL 11.986 PTH 2.14 VHP 4.263 DPA 52.07 RAP 198.68 ECC 1.3668

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.30	6 28 0	1580.63	27.44	21.46	11.17	123.41	6 54 21	980.6	31.62	14.03
122.70	13 35 16	5544.16	27.45	257.80	11.18	123.40	15 7 40	4944.2	31.63	250.37
57.30	6 28 0	1580.63	27.44	21.46	11.17	123.41	6 54 21	980.6	31.62	14.03
122.70	13 35 16	5544.16	27.45	257.80	11.18	123.40	15 7 40	4944.2	31.63	250.37
57.30	6 28 0	1580.63	27.44	21.46	11.17	123.41	6 54 21	980.6	31.62	14.03
122.70	13 35 16	5544.16	27.45	257.80	11.18	123.40	15 7 40	4944.2	31.63	250.37

DIFFERENTIAL CORRECTIONS
TDE .1456 TRA -.3476 TC3 -.1431 BAU .3928
RDE 2.2807 RRA -.0256 RC3 1.3105 FAU .08628
FDE-6.3426 FRA .0788 FC3-3.3520 BSP 9718
BDE 2.2853 BRA .3486 BC3 1.3183 FSP -2273

MID-COURSE EXECUTION ACCURACY
SGT 611.4 SGR 3032.3 SG3 719.2
RRT .1865 RRF -.9995 RTF -.1977
SGB 3093.4 R23 .0037 R13 -.9996
SG1 3034.6 SG2 600.2 THA 87.76

ORBIT DETERMINATION ACCURACY
ST 245.8 SR 2768.4 SS 2835.6
CRT .7216 CRS 1.0000 CST .7219
LSA 3966.9 MSA 170.0 SSA 2.1
EL1 2774.1 EL2 169.8 ALF 86.32

LAUNCH DATE MAY 29 1967 FLIGHT TIME 148.00 ARRIVAL DATE OCT 24 1967

DISTANCE 401.717

HELIOCENTRIC CONIC
RL 151.62 LAL .00 LOL 246.96 VL 26.977 GAL .86 AZL 103.13 HCA 176.73 SMA 129.75 ECC .16922 INC13.1286 V1 29.385
RP 107.92 LAP -.74 LOP 63.78 VP 37.902 GAP -1.08 AZP 76.89 TAL 175.78 TAP 352.52 RCA 107.79 APO 151.70 V2 35.113
RC 84.440 GL -63.04 GP 70.49 ZAL 89.04 ZAP 85.84 ETS 348.18 ZAE 105.16 ETE 88.09 ZAC 79.61 ETC 13.34 CLP -77.46

PLANETOCENTRIC CONIC
C3 47.263 VHL 6.875 DLA -48.88 RAL 130.09 RAD 6568.8 VEL 12.986 PTH 2.37 VHP 6.841 DPA 65.18 RAP 230.04 ECC 1.7778

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
48.34	5 30 26	1855.26	22.49	42.45	18.88	134.62	6 1 22	1255.3	27.98	36.43
131.66	13 44 43	5645.51	22.51	262.73	18.90	134.61	15 18 49	5045.5	27.99	256.70
48.34	5 30 26	1855.26	22.49	42.45	18.88	134.62	6 1 22	1255.3	27.98	36.43
131.66	13 44 43	5645.51	22.51	262.73	18.90	134.61	15 18 49	5045.5	27.99	256.70
48.34	5 30 26	1855.26	22.49	42.45	18.88	134.62	6 1 22	1255.3	27.98	36.43
131.66	13 44 43	5645.51	22.51	262.73	18.90	134.61	15 18 49	5045.5	27.99	256.70

DIFFERENTIAL CORRECTIONS
TDE .2655 TRA -.4998 TC3 -.1052 BAU .3351
RDE 4.4075 RRA .2170 RC3 .5199 FAU .02450
FDE-4.2829 FRA -.1732 FC3 -.4488 BSP 10192
BDE 4.4155 BRA .5448 BC3 .5304 FSP -824

MID-COURSE EXECUTION ACCURACY
SGT 686.3 SGR 3752.3 SG3 313.5
RRT .2078 RRF -.9997 RTF -.2255
SGB 3814.5 R23 .0111 R13 -.9998
SG1 3755.1 SG2 670.8 THA 87.75

ORBIT DETERMINATION ACCURACY
ST 291.7 SR 3674.3 SS 2110.1
CRT .7436 CRS 1.0000 CST .7463
LSA 4242.6 MSA 194.7 SSA 1.1
EL1 3680.7 EL2 194.7 ALF 86.61

```
LAUNCH DATE  MAY 29 1967                          FLIGHT TIME 150.00                          ARRIVAL DATE  OCT 26 1967

  HELIOCENTRIC CONIC                              DISTANCE 408.773
   RL  151.62 LAL     .00 LOL 246.96 VL  26.981 GAL    .77 AZL   3.58 HCA 180.56 SMA 129.77 ECC .16885 INC86.2613 VI  29.385
   RP  107.89 LAP    -.55 LOP  66.99 VP  37.916 GAP   -.47 AZP 176.42 TAL 176.21 TAP 356.77 RCA 107.86 APO 151.69 V2  35.125
   RC  86.655 GL    44.27 GP  -47.40 ZAL  89.89 ZAP  89.89 ETS 178.99 ZAE  52.14 ETE  77.30 ZAC  88.39 ETC 155.92 CLP  89.84
  PLANETOCENTRIC CONIC
   C31488.139 VHL 38.576 DLA  48.69 RAL 181.92 RAD 6573.2 VEL 40.118 PTH   3.56 VHP 51.514 DPA -54.31 RAP   7.22 ECC25.4910
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      48.57    20 56 10   4966.81       1.08     231.40      92.89      41.32   22 18 57    4366.8      -4.92     226.52
     131.43     5 12 33   3473.45       1.10     114.17      92.87      41.32    6 10 27    2873.5      -4.91     109.30
      48.57    20 56 10   4966.81       1.08     231.40      92.89      41.32   22 18 57    4366.8      -4.92     226.52
     131.43     5 12 33   3473.45       1.10     114.17      92.87      41.32    6 10 27    2873.5      -4.91     109.30
      48.57    20 56 10   4966.81       1.08     231.40      92.89      41.32   22 18 57    4366.8      -4.92     226.52
     131.43     5 12 33   3473.45       1.10     114.17      92.87      41.32    6 10 27    2873.5      -4.91     109.30
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY           ORBIT DETERMINATION ACCURACY
   TOE-6.2784 TRA-2.9929 TC3 -.1271 BAU 5.4714    SGT 1511.6 SGR 3224.7 SG3   66.6        ST   954.6 SR  1266.6 SS  1346.2
   ROE-7.0009 RR-10.6818 RC3 -.2439 FAU-.09992    RRT  .9096 RRF-1.0000 RTF -.9088         CRT  .9238 CRS 1.0000 CST  .9230
   FOE 1.6695 FRA 2.5582 FC3  .0581 BSP   7192    SGB 3561.3 R23 -.0739 R13 -.9973         LSA 2054.0 MSA  329.8 SSA     .2
   BOE 9.4038 BRA11.0931 BC3  .2750 FSP    118    SG1 3514.4 SG2  576.4 THA  66.23         EL1 1558.0 EL2  297.1 ALF  53.62

LAUNCH DATE  MAY 29 1967                          FLIGHT TIME 152.00                          ARRIVAL DATE  OCT 28 1967

  HELIOCENTRIC CONIC                              DISTANCE 414.572
   RL  151.62 LAL     .00 LOL 246.96 VL  26.982 GAL    .92 AZL  83.60 HCA 183.28 SMA 129.78 ECC .16901 INC 6.4010 VI  29.385
   RP  107.85 LAP    -.37 LOP  70.21 VP  37.927 GAP   -.18 AZP  96.39 TAL 175.46 TAP 358.74 RCA 107.85 APO 151.72 V2  35.137
   RC  88.880 GL    49.42 GP  -70.79 ZAL  87.90 ZAP  90.73 ETS 359.20 ZAE 112.74 ETE 260.55 ZAC 109.12 ETC 349.50 CLP -92.22
  PLANETOCENTRIC CONIC
   C3  15.699 VHL  3.962 DLA  51.67 RAL 189.27 RAD 6567.6 VEL 11.708 PTH   2.06 VHP  6.815 DPA -52.46 RAP 126.08 ECC 1.2584
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      44.78    21 13 18   4255.54     -36.26     201.03      63.84      50.27   22 24 14    3655.5     -41.11     193.28
     135.22     5 54  1   2704.77     -36.25      77.94      63.83      50.26    6 39  6    2104.8     -41.09      70.20
      44.78    21 13 18   4255.54     -36.26     201.03      63.84      50.27   22 24 14    3655.5     -41.11     193.28
     135.22     5 54  1   2704.77     -36.25      77.94      63.83      50.26    6 39  6    2104.8     -41.09      70.20
      44.78    21 13 18   4255.54     -36.26     201.03      63.84      50.27   22 24 14    3655.5     -41.11     193.28
     135.22     5 54  1   2704.77     -36.25      77.94      63.83      50.26    6 39  6    2104.8     -41.09      70.20
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY           ORBIT DETERMINATION ACCURACY
   TOE  .6497 TRA  .4147 TC3 -.9368 BAU  .5262    SGT 1539.2 SGR 3962.6 SG3  320.4        ST   983.5 SR  1511.0 SS   819.4
   ROE  .7850 RRA 1.4234 RC3-2.3257 FAU .04032    RRT  .9255 RRF  .9999 RTF  .9239         CRT  .9128 CRS -.9999 CST -.9084
   FOE  .7161 FRA 1.3270 FC3-2.2235 BSP  12157    SGB 4251.1 R23  .0515 R13  .9986         LSA 1948.1 MSA  356.4 SSA     .8
   BOE 1.0190 BRA 1.4826 BC3 2.5073 FSP   -952    SG1 4215.6 SG2  548.0 THA  69.87         EL1 1770.0 EL2  342.8 ALF  57.94

LAUNCH DATE  MAY 29 1967                          FLIGHT TIME 154.00                          ARRIVAL DATE  OCT 30 1967

  HELIOCENTRIC CONIC                              DISTANCE 420.893
   RL  151.62 LAL     .00 LOL 246.96 VL  26.980 GAL    .99 AZL  88.45 HCA 186.48 SMA 129.77 ECC .16923 INC 1.5467 VI  29.385
   RP  107.82 LAP    -.17 LOP  73.43 VP  37.937 GAP    .23 AZP  91.54 TAL 175.14 TAP   1.62 RCA 107.81 APO 151.73 V2  35.149
   RC  91.113 GL    16.74 GP  -50.66 ZAL  86.01 ZAP  94.85 ETS 354.98 ZAE 131.49 ETE 252.19 ZAC 113.36 ETC 354.92 CLP -97.66
  PLANETOCENTRIC CONIC
   C3   6.407 VHL  2.531 DLA  22.80 RAL 169.40 RAD 6567.2 VEL 11.305 PTH   1.94 VHP  4.215 DPA -34.52 RAP 138.97 ECC 1.1054
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     2 50 51   2784.45     -28.13      80.69      20.99      93.38    3 37 16    2184.4     -27.37      72.11
      90.00    21 38  0   3818.98     -11.94     150.39      17.58      64.13   22 41 39    3219.0     -15.32     143.35
     100.00     4 29 17   2467.09     -29.39      57.23      20.88      95.72    5 10 24    1867.1     -28.29      48.60
     100.00    22 42 16   3611.57     -10.81     134.57      16.99      61.96   23 42 27    3011.6     -14.48     127.70
     110.00     6 12 27   2144.32     -32.41      32.18      20.34     101.52    6 48 11    1544.3     -30.48      23.49
     110.00    23 15 35   3507.10      -8.19     125.07      15.41      56.70   24 14  2    2907.1     -12.51     118.65
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY           ORBIT DETERMINATION ACCURACY
   TOE  .1747 TRA  .2439 TC3-3.2248 BAU  .5188    SGT 1783.2 SGR 3200.5 SG3  739.1        ST   437.0 SR   591.4 SS   554.2
   ROE  .0779 RRA  .7589 RC3-5.1281 FAU .10229    RRT  .9503 RRF  .9998 RTF  .9499         CRT  .6732 CRS -.9958 CST -.6034
   FOE  .1413 FRA 1.9994 FC-13.8230 BSP  11167    SGB 3663.7 R23  .0735 R13  .9971         LSA  864.8 MSA  316.0 SSA     3.8
   BOE  .1912 BRA  .7971 BC3 6.0578 FSP  -2332    SG1 3630.9 SG2  489.3 THA  61.54         EL1  679.4 EL2  281.3 ALF  57.26

LAUNCH DATE  MAY 29 1967                          FLIGHT TIME 156.00                          ARRIVAL DATE  NOV  1 1967

  HELIOCENTRIC CONIC                              DISTANCE 427.213
   RL  151.62 LAL     .00 LOL 246.96 VL  26.976 GAL   1.06 AZL  90.10 HCA 189.70 SMA 129.74 ECC .16962 INC  .0813 VI  29.385
   RP  107.78 LAP     .02 LOP  76.66 VP  37.944 GAP    .65 AZP  89.90 TAL 174.78 TAP   4.48 RCA 107.73 APO 151.75 V2  35.160
   RC  93.352 GL   -1.08 GP  -38.05 ZAL  84.98 ZAP 100.14 ETS 352.86 ZAE 141.68 ETE 241.38 ZAC 115.67 ETC 359.19 CLP-102.92
  PLANETOCENTRIC CONIC
   C3   5.867 VHL  2.422 DLA   6.07 RAL 162.96 RAD 6567.2 VEL 11.281 PTH   1.94 VHP  3.543 DPA -22.38 RAP 143.20 ECC 1.0966
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     5  4 17   2154.31     -18.06      37.70       8.82     112.19    5 40 11    1554.3     -14.90      30.46
      90.00    18 33 12   4419.63       7.07     184.29       7.66      62.51   19 46 51    3819.6       3.33     177.61
     100.00     6 28 30   1882.65     -18.76      17.41       8.51     113.71    6 59 53    1282.7     -15.39      10.23
     100.00    19 51 39   4166.52       7.73     165.32       7.30      61.04   21  1  6    3566.5       3.81     158.73
     110.00     7 43 21   1648.43     -20.60     358.68       7.56     117.90    8 10 49    1048.4     -16.71     351.72
     110.00    20 53 18   3973.51       9.49     149.61       6.23      57.01   21 59 32    3373.5       5.08     143.29
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY           ORBIT DETERMINATION ACCURACY
   TOE -.1002 TRA  .2227 TC3-4.2569 BAU  .4829    SGT 2142.3 SGR 2524.1 SG3 1023.5        ST   292.1 SR   606.6 SS   948.0
   ROE -.2022 RRA  .5148 RC3-4.4479 FAU .14152    RRT  .9627 RRF  .9995 RTF  .9630         CRT  .9923 CRS -.9969 CST -.9933
   FOE-1.0928 FRA 2.3519 FC-20.8832 BSP  10077    SGB 3310.7 R23  .1109 R13  .9933         LSA 1161.6 MSA   40.5 SSA   31.8
   BOE  .2257 BRA  .5609 BC3 6.1567 FSP  -3257    SG1 3280.5 SG2  446.2 THA  49.86         EL1  672.5 EL2   32.6 ALF  64.40
```

LAUNCH DATE MAY 29 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 3 1967

HELIOCENTRIC CONIC DISTANCE 433.518

RL 151.62 LAL .00 LOL 246.96 VL 26.970 GAL 1.15 AZL 90.93 HCA 192.93 SMA 129.70 ECC .17020 INC .9263 V1 29.385
RP 107.75 LAP -.21 LOP 79.88 VP 37.949 GAP 1.06 AZP 89.10 TAL 174.38 TAP 7.30 RCA 107.62 APO 151.77 V2 35.170
RC 95.596 GL -10.16 GP -29.75 ZAL 84.14 ZAP 105.53 ETS 351.81 ZAE 146.46 ETE 229.40 ZAC 117.20 ETC 2.35 CLP-107.97

PLANETOCENTRIC CONIC

C3 6.127 VHL 2.475 DLA -2.68 RAL 160.37 RAD 6567.2 VEL 11.292 PTH 1.94 VHP 3.314 DPA -14.10 RAP 144.86 ECC 1.1008

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 59 14	1889.20	-10.58	21.84	5.63	116.42	6 30 43	1289.2	-6.94	15.05
90.00	17 17 34	4699.16	15.41	200.58	6.16	65.95	18 35 53	4099.2	12.03	193.54
100.00	7 19 20	1630.83	-11.25	2.49	5.28	117.88	7 46 31	1030.8	-7.43	355.78
100.00	18 40 9	4432.76	16.09	180.67	5.83	64.46	19 54 2	3832.8	12.52	173.69
110.00	8 24 43	1426.15	-13.02	345.91	4.23	121.89	8 48 29	826.2	-8.72	339.46
110.00	19 51 16	4210.20	17.91	162.78	4.84	60.38	21 1 26	3610.2	13.83	156.04

DIFFERENTIAL CORRECTIONS
TDE -.3053 TRA .2402 TC3-4.7233 BAU .4761
ROE -.2734 RRA .3870 RC3-3.3872 FAU .15969
FDE-2.0898 FRA 2.4908 FC-22.5639 BSP 9722
BDE .4098 BRA .4555 BC3 5.8123 FSP -3722

MID-COURSE EXECUTION ACCURACY
SGT 2505.4 SGR 2004.2 SG3 1164.0
RRT .9694 RRF .9989 RTF .9703
SGB 3208.3 R23 .1428 R13 .9886
SG1 3184.9 SG2 387.1 THA 38.46

ORBIT DETERMINATION ACCURACY
ST 729.4 SR 689.5 SS 1474.3
CRT .9854 CRS -.9983 CST -.9933
LSA 1781.3 MSA 90.1 SSA 12.6
EL1 1000.1 EL2 85.5 ALF 43.37

LAUNCH DATE MAY 29 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 5 1967

HELIOCENTRIC CONIC DISTANCE 439.805

RL 151.62 LAL .00 LOL 246.96 VL 26.961 GAL 1.25 AZL 91.43 HCA 196.16 SMA 129.64 ECC .17094 INC 1.4296 V1 29.385
RP 107.72 LAP .40 LOP 83.11 VP 37.952 GAP 1.47 AZP 88.63 TAL 173.92 TAP 10.08 RCA 107.48 APO 151.80 V2 35.180
RC 97.843 GL -15.32 GP -24.01 ZAL 83.25 ZAP 110.69 ETS 351.32 ZAE 147.94 ETE 218.32 ZAC 118.33 ETC 4.75 CLP-112.75

PLANETOCENTRIC CONIC

C3 6.486 VHL 2.547 DLA -7.84 RAL 159.33 RAD 6567.2 VEL 11.308 PTH 1.94 VHP 3.249 DPA -8.23 RAP 145.53 ECC 1.1068

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 34 17	1736.38	-5.83	13.12	5.06	117.76	7 3 13	1136.4	-2.07	6.46
90.00	16 34 13	4871.29	19.87	211.24	6.66	69.40	17 55 24	4271.3	16.89	203.83
100.00	7 51 51	1486.15	-6.53	354.34	4.67	119.24	8 16 37	886.1	-2.58	347.78
100.00	17 59 20	4596.75	20.62	190.74	6.35	67.86	19 15 57	3996.8	17.43	183.39
110.00	8 51 28	1299.46	-8.37	339.05	3.54	123.26	9 13 8	699.5	-3.94	332.77
110.00	19 16 12	4356.20	22.58	171.52	5.40	63.63	20 28 48	3756.2	18.86	164.37

DIFFERENTIAL CORRECTIONS
TDE -.4805 TRA .2752 TC3-5.0339 BAU .4910
ROE -.2722 RRA .3108 RC3-2.5910 FAU .16482
FDE-2.7557 FRA 2.5303 FC-21.9987 BSP 9928
BDE .5523 BRA .4152 BC3 5.6616 FSP -3889

MID-COURSE EXECUTION ACCURACY
SGT 2852.0 SGR 1617.2 SG3 1212.7
RRT .9729 RRF .9975 RTF .9749
SGB 3278.6 R23 .1573 R13 .9852
SG1 3262.2 SG2 326.7 THA 29.21

ORBIT DETERMINATION ACCURACY
ST 1099.8 SR 649.3 SS 1808.7
CRT .9871 CRS -.9981 CST -.9949
LSA 2211.4 MSA 108.9 SSA 10.7
EL1 1274.0 EL2 89.9 ALF 30.40

LAUNCH DATE MAY 29 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 7 1967

HELIOCENTRIC CONIC DISTANCE 446.075

RL 151.62 LAL .00 LOL 246.96 VL 26.950 GAL 1.36 AZL 91.77 HCA 199.39 SMA 129.56 ECC .17186 INC 1.7697 V1 29.385
RP 107.69 LAP .59 LOP 86.34 VP 37.954 GAP 1.87 AZP 88.33 TAL 173.41 TAP 12.80 RCA 107.30 APO 151.83 V2 35.190
RC 100.092 GL -18.55 GP -19.86 ZAL 82.27 ZAP 115.51 ETS 351.13 ZAE 147.54 ETE 209.38 ZAC 119.16 ETC 6.66 CLP-117.25

PLANETOCENTRIC CONIC

C3 6.841 VHL 2.616 DLA -11.24 RAL 159.09 RAD 6567.2 VEL 11.324 PTH 1.95 VHP 3.262 DPA -3.93 RAP 145.80 ECC 1.1126

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 0 39	1634.48	-2.57	7.41	5.52	118.21	7 27 53	1034.5	1.22	.78
90.00	16 5 56	4991.59	22.56	219.04	7.88	72.41	17 29 8	4391.6	19.94	211.34
100.00	8 16 20	1390.30	-3.32	349.04	5.11	119.72	8 39 30	790.3	.67	342.52
100.00	17 32 56	4711.00	23.37	198.11	7.58	70.81	18 51 27	4111.0	20.53	190.46
110.00	9 11 46	1216.71	-5.26	334.66	3.90	123.82	9 32 2	616.7	-.78	328.44
110.00	18 54 0	4457.35	25.50	177.93	6.67	66.42	20 8 17	3857.3	22.09	170.44

DIFFERENTIAL CORRECTIONS
TDE -.6389 TRA .3202 TC3-5.2824 BAU .5175
ROE -.2452 RRA .2620 RC3-2.0297 FAU .16241
FDE-3.1496 FRA 2.5265 FC-20.5536 BSP 10451
BDE .6843 BRA .4138 BC3 5.6589 FSP -3867

MID-COURSE EXECUTION ACCURACY
SGT 3178.9 SGR 1326.0 SG3 1206.6
RRT .9736 RRF .9949 RTF .9776
SGB 3444.4 R23 .1561 R13 .9833
SG1 3433.0 SG2 280.1 THA 22.26

ORBIT DETERMINATION ACCURACY
ST 1418.3 SR 566.0 SS 2004.1
CRT .9867 CRS -.9971 CST -.9960
LSA 2516.8 MSA 117.9 SSA 10.7
EL1 1524.6 EL2 85.7 ALF 21.57

LAUNCH DATE MAY 29 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 9 1967

HELIOCENTRIC CONIC DISTANCE 452.326

RL 151.62 LAL .00 LOL 246.96 VL 26.937 GAL 1.49 AZL 92.02 HCA 202.62 SMA 129.47 ECC .17294 INC 2.0153 V1 29.385
RP 107.66 LAP .78 LOP 89.57 VP 37.953 GAP 2.27 AZP 88.14 TAL 172.86 TAP 15.48 RCA 107.08 APO 151.87 V2 35.199
RC 102.344 GL -20.70 GP -16.74 ZAL 81.20 ZAP 119.97 ETS 351.11 ZAE 146.22 ETE 202.67 ZAC 119.72 ETC 8.20 CLP-121.44

PLANETOCENTRIC CONIC

C3 7.178 VHL 2.679 DLA -13.69 RAL 159.34 RAD 6567.2 VEL 11.339 PTH 1.95 VHP 3.320 DPA -.68 RAP 145.95 ECC 1.1181

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 22 27	1559.96	-.17	3.25	6.52	118.32	7 48 27	960.0	3.62	356.62
90.00	15 46 6	5083.07	24.31	225.17	9.42	75.01	17 10 49	4483.1	22.01	217.25
100.00	8 36 36	1320.75	-.96	345.22	6.08	119.88	8 58 36	720.8	3.02	338.70
100.00	17 14 39	4797.51	25.18	203.90	9.15	73.34	18 34 37	4197.5	22.66	196.01
110.00	9 28 40	1157.63	-3.01	331.57	4.80	124.07	9 47 58	557.6	1.48	325.36
110.00	18 39 4	4533.39	27.47	182.96	8.27	68.81	19 54 37	3933.4	24.34	175.19

DIFFERENTIAL CORRECTIONS
TDE -.7862 TRA .3725 TC3-5.4880 BAU .5495
ROE -.2117 RRA .2283 RC3-1.6346 FAU .15628
FDE-3.3666 FRA 2.4925 FC-18.8481 BSP 11151
BDE .8141 BRA .4369 BC3 5.7263 FSP -3766

MID-COURSE EXECUTION ACCURACY
SGT 3485.2 SGR 1106.6 SG3 1171.8
RRT .9720 RRF .9902 RTF .9796
SGB 3656.7 R23 .1414 R13 .9828
SG1 3648.2 SG2 248.5 THA 17.23

ORBIT DETERMINATION ACCURACY
ST 1701.4 SR 477.8 SS 2120.0
CRT .9845 CRS -.9952 CST -.9968
LSA 2757.2 MSA 121.6 SSA 11.3
EL1 1765.3 EL2 80.6 ALF 15.49

LAUNCH DATE MAY 29 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 11 1967

HELIOCENTRIC CONIC DISTANCE 458.558
RL 151.62 LAL .00 LOL 246.96 VL 26.923 GAL 1.62 AZL 92.20 HCA 205.86 SMA 129.38 ECC .17418 INC 2.2023 V1 29.385
RP 107.63 LAP .96 LOP 92.80 VP 37.951 GAP 2.66 AZP 88.02 TAL 172.26 TAP 18.12 RCA 106.84 APO 151.91 V2 35.208
RC 104.596 GL -22.18 GP -14.32 ZAL 80.03 ZAP 124.08 ETS 351.17 ZAE 144.49 ETE 197.79 ZAC 120.02 ETC 9.48 CLP-125.34
PLANETOCENTRIC CONIC
C3 7.504 VHL 2.739 DLA -15.55 RAL 159.93 RAD 6567.2 VEL 11.353 PTH 1.96 VHP 3.407 DPA 1.81 RAP 146.12 ECC 1.1235

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 41 39	1501.92	1.71	.01	7.85	118.27	8 6 41	901.9	5.47	353.36
90.00	15 31 35	5157.04	25.51	230.25	11.17	77.28	16 57 32	4557.0	23.51	222.16
100.00	8 54 27	1267.03	.86	342.27	7.38	119.88	9 15 34	667.0	4.83	335.74
100.00	17 1 28	4867.16	26.45	208.68	10.92	75.55	18 22 35	4267.2	24.21	200.60
110.00	9 43 41	1112.79	-1.30	329.22	6.03	124.16	10 2 13	512.8	3.19	323.02
110.00	18 28 43	4594.16	28.89	187.12	10.09	70.89	19 45 18	3994.2	26.01	179.12

DIFFERENTIAL CORRECTIONS
TOE -.9239 TRA .4320 TC3-5.6507 BAU .5828
RDE -.1769 RRA .2051 RC3-1.3462 FAU .14784
FOE-3.4526 FRA 2.4525 FC-17.0550 BSP 11896
BOE .9407 BRA .4782 BC3 5.8088 FSP -3603

MID-COURSE EXECUTION ACCURACY
SGT 3768.0 SGR 937.6 SG3 1119.2
RRT .9669 RRF .9826 RTF .9808
SGB 3882.9 R23 .1199 R13 .9827
SG1 3876.0 SG2 232.7 THA 13.58

ORBIT DETERMINATION ACCURACY
ST 1954.9 SR 393.9 SS 2178.5
CRT .9797 CRS -.9916 CST -.9973
LSA 2950.8 MSA 123.7 SSA 12.0
EL1 1992.7 EL2 77.5 ALF 11.18

LAUNCH DATE MAY 29 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 13 1967

HELIOCENTRIC CONIC DISTANCE 464.770
RL 151.62 LAL .00 LOL 246.96 VL 26.907 GAL 1.77 AZL 92.35 HCA 209.10 SMA 129.27 ECC .17558 INC 2.3504 V1 29.385
RP 107.61 LAP 1.14 LOP 96.04 VP 37.947 GAP 3.05 AZP 87.95 TAL 171.62 TAP 20.72 RCA 106.57 APO 151.96 V2 35.216
RC 106.849 GL -23.22 GP -12.42 ZAL 78.78 ZAP 127.87 ETS 351.28 ZAE 142.64 ETE 194.23 ZAC 120.09 ETC 10.53 CLP-128.95
PLANETOCENTRIC CONIC
C3 7.828 VHL 2.798 DLA -17.04 RAL 160.76 RAD 6567.3 VEL 11.367 PTH 1.96 VHP 3.515 DPA 3.74 RAP 146.38 ECC 1.1288

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 59 15	1454.63	3.23	357.37	9.42	118.15	8 23 29	854.6	6.97	350.69
90.00	15 20 39	5219.67	26.38	234.64	13.08	79.31	16 47 39	4619.7	24.64	226.40
100.00	9 10 49	1223.67	2.33	339.89	8.93	119.81	9 31 13	623.7	6.28	333.33
100.00	16 51 46	4925.86	27.38	212.79	12.84	77.52	18 13 52	4325.9	25.39	204.56
110.00	9 57 33	1077.29	.06	327.37	7.51	124.18	10 15 30	477.3	4.54	321.16
110.00	18 21 32	4645.00	29.98	190.68	12.06	72.74	19 38 57	4045.0	27.32	182.49

DIFFERENTIAL CORRECTIONS
TOE-1.0550 TRA .4969 TC3-5.7764 BAU .6160
RDE -.1440 RRA .1883 RC3-1.1329 FAU .13856
FOE-3.4579 FRA 2.4039 FC-15.3248 BSP 12662
BOE 1.0647 BRA .5313 BC3 5.8865 FSP -3422

MID-COURSE EXECUTION ACCURACY
SGT 4030.8 SGR 807.1 SG3 1058.9
RRT .9575 RRF .9706 RTF .9817
SGB 4110.8 R23 .0955 R13 .9828
SG1 4104.5 SG2 228.6 THA 10.89

ORBIT DETERMINATION ACCURACY
ST 2186.1 SR 319.3 SS 2202.5
CRT .9707 CRS -.9845 CST -.9976
LSA 3117.1 MSA 124.5 SSA 12.8
EL1 2208.0 EL2 76.0 ALF 8.08

LAUNCH DATE MAY 29 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 15 1967

HELIOCENTRIC CONIC DISTANCE 470.963
RL 151.62 LAL .00 LOL 246.96 VL 26.889 GAL 1.94 AZL 92.47 HCA 212.34 SMA 129.15 ECC .17715 INC 2.4711 V1 29.385
RP 107.59 LAP 1.32 LOP 99.27 VP 37.941 GAP 3.44 AZP 87.91 TAL 170.93 TAP 23.27 RCA 106.27 APO 152.03 V2 35.223
RC 109.101 GL -23.94 GP -10.88 ZAL 77.44 ZAP 131.37 ETS 351.39 ZAE 140.82 ETE 191.63 ZAC 119.93 ETC 11.40 CLP-132.30
PLANETOCENTRIC CONIC
C3 8.156 VHL 2.856 DLA -18.28 RAL 161.80 RAD 6567.3 VEL 11.382 PTH 1.97 VHP 3.639 DPA 5.23 RAP 146.77 ECC 1.1342

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 15 51	1414.85	4.50	355.14	11.19	117.99	8 39 25	814.8	8.21	348.43
90.00	15 12 19	5274.62	27.01	238.53	15.11	81.17	16 40 13	4674.6	25.51	230.19
100.00	9 26 16	1187.57	3.55	337.91	10.66	119.70	9 46 4	587.6	7.48	331.32
100.00	16 44 34	4977.13	28.09	216.44	14.90	79.32	18 7 31	4377.1	26.32	208.08
110.00	10 10 42	1048.36	1.16	325.86	9.18	124.17	10 28 11	448.4	5.64	319.64
110.00	18 16 37	4689.11	30.82	193.83	14.17	74.43	19 34 46	4089.1	28.38	185.49

DIFFERENTIAL CORRECTIONS
TOE-1.1784 TRA .5696 TC3-5.8589 BAU .6475
RDE -.1130 RRA .1768 RC3 -.9696 FAU .12878
FOE-3.4013 FRA 2.3623 FC-13.6702 BSP 13385
BOE 1.1838 BRA .5964 BC3 5.9386 FSP -3220

MID-COURSE EXECUTION ACCURACY
SGT 4270.4 SGR 705.4 SG3 994.3
RRT .9424 RRF .9529 RTF .9822
SGB 4328.2 R23 .0733 R13 .9828
SG1 4322.0 SG2 233.1 THA 8.87

ORBIT DETERMINATION ACCURACY
ST 2393.7 SR 253.5 SS 2197.7
CRT .9530 CRS -.9702 CST -.9979
LSA 3257.0 MSA 125.3 SSA 13.6
EL1 2405.8 EL2 76.4 ALF 5.77

LAUNCH DATE MAY 29 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 17 1967

HELIOCENTRIC CONIC DISTANCE 477.135
RL 151.62 LAL .00 LOL 246.96 VL 26.870 GAL 2.12 AZL 92.57 HCA 215.58 SMA 129.02 ECC .17889 INC 2.5720 V1 29.385
RP 107.57 LAP 1.50 LOP 102.51 VP 37.934 GAP 3.83 AZP 87.91 TAL 170.20 TAP 25.79 RCA 105.94 APO 152.10 V2 35.230
RC 111.351 GL -24.42 GP -9.62 ZAL 76.03 ZAP 134.58 ETS 351.51 ZAE 139.09 ETE 189.70 ZAC 119.56 ETC 12.10 CLP-135.40
PLANETOCENTRIC CONIC
C3 8.496 VHL 2.915 DLA -19.32 RAL 162.99 RAD 6567.3 VEL 11.397 PTH 1.97 VHP 3.776 DPA 6.37 RAP 147.31 ECC 1.1398

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 31 48	1380.63	5.59	353.22	13.12	117.80	8 54 49	780.6	9.27	346.47
90.00	15 5 55	5324.18	27.48	242.08	17.27	82.89	16 34 39	4724.2	26.21	233.65
100.00	9 41 8	1156.90	4.58	336.22	12.57	119.57	10 0 25	556.9	8.49	329.61
100.00	16 39 16	5023.14	28.62	219.76	17.08	80.99	18 2 59	4423.1	27.08	211.29
110.00	10 23 26	1024.36	2.08	324.61	11.01	124.13	10 40 30	424.4	6.55	318.37
110.00	18 13 28	4728.45	31.51	196.70	16.40	76.00	19 32 16	4128.4	29.26	188.21

DIFFERENTIAL CORRECTIONS
TOE-1.2969 TRA .6488 TC3-5.9042 BAU .6775
RDE -.0848 RRA .1686 RC3 -.8433 FAU .11918
FOE-3.3134 FRA 2.3207 FC-12.1439 BSP 14074
BOE 1.2997 BRA .6704 BC3 5.9642 FSP -3020

MID-COURSE EXECUTION ACCURACY
SGT 4491.4 SGR 626.8 SG3 930.2
RRT .9206 RRF .9283 RTF .9824
SGB 4534.9 R23 .0542 R13 .9828
SG1 4528.4 SG2 242.7 THA 7.34

ORBIT DETERMINATION ACCURACY
ST 2583.4 SR 197.7 SS 2177.7
CRT .9183 CRS -.9404 CST -.9981
LSA 3382.3 MSA 125.8 SSA 14.4
EL1 2589.8 EL2 78.1 ALF 4.02

LAUNCH DATE MAY 29 1967 FLIGHT TIME 174.00 ARRIVAL DATE NOV 19 1967

HELIOCENTRIC CONIC DISTANCE 483.287

```
RL  151.62 LAL    .00 LOL 246.96 VL  26.850 GAL   2.31 AZL  92.66 HCA 218.82 SMA 128.88 ECC .18079 INC 2.6581 V1  29.385
RP  107.55 LAP   1.67 LOP 105.75 VP  37.925 GAP   4.22 AZP  87.93 TAL 169.44 TAP  28.26 RCA 105.58 APO 152.19 V2  35.236
RC 113.598 GL  -24.71 GP   -8.58 ZAL  74.56 ZAP 137.56 ETS 351.60 ZAE 137.48 ETE 188.24 ZAC 119.00 ETC  12.67 CLP-138.27
```

PLANETOCENTRIC CONIC

```
C3   8.856 VHL  2.976 DLA -20.23 RAL 164.33 RAD 6567.3 VEL 11.413 PTH   1.98 VHP  3.923 DPA   7.24 RAP 147.99 ECC 1.1458
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 47 19	1350.76	6.54	351.53	15.21	117.61	9 9 50	750.8	10.19	344.75
90.00	15 1 3	5369.82	27.82	245.38	19.53	84.51	16 30 33	4769.8	26.77	236.87
100.00	9 55 35	1130.49	5.47	334.76	14.62	119.43	10 14 25	530.5	9.35	328.12
100.00	16 35 29	5065.33	29.03	222.82	19.38	82.55	17 59 54	4465.3	27.70	214.28
110.00	10 35 51	1004.27	2.85	323.56	12.99	124.08	10 52 36	404.3	7.30	317.31
110.00	18 11 42	4764.31	32.07	199.34	18.76	77.47	19 31 6	4164.3	30.01	190.73

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE-1.4081 TRA  .7374 TC3-5.9024 BAU  .7043   SGT 4688.3 SGR  565.5 SG3  866.4     ST  2750.8 SR   151.2 SS  2140.0
ROE -.0582 RRA  .1634 RC3 -.7415 FAU .10958   RRT  .8908 RRF  .8956 RTF  .9823     CRT  .8439 CRS -.8735 CST -.9982
FOE-3.1952 FRA 2.2887 FC-10.7123 BSP  14660   SGB 4722.3 R23  .0393 R13  .9826     LSA 3486.1 MSA  126.8 SSA   15.1
BOE 1.4093 BRA  .7553 BC3 5.9488 FSP  -2809   SG1 4715.4 SG2  255.5 THA   6.15     EL1 2753.8 EL2   81.0 ALF   2.66
```

LAUNCH DATE MAY 29 1967 FLIGHT TIME 176.00 ARRIVAL DATE NOV 21 1967

HELIOCENTRIC CONIC DISTANCE 489.418

```
RL  151.62 LAL    .00 LOL 246.96 VL  26.829 GAL   2.51 AZL  92.73 HCA 222.07 SMA 128.74 ECC .18287 INC 2.7330 V1  29.385
RP  107.53 LAP   1.83 LOP 108.99 VP  37.915 GAP   4.61 AZP  87.97 TAL 168.64 TAP  30.71 RCA 105.20 APO 152.28 V2  35.241
RC 115.842 GL  -24.86 GP   -7.71 ZAL  73.02 ZAP 140.31 ETS 351.68 ZAE 136.01 ETE 187.13 ZAC 118.26 ETC  13.12 CLP-140.94
```

PLANETOCENTRIC CONIC

```
C3   9.242 VHL  3.040 DLA -21.03 RAL 165.78 RAD 6567.3 VEL 11.429 PTH   1.98 VHP  4.079 DPA   7.88 RAP 148.81 ECC 1.1521
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 2 32	1324.51	7.36	350.05	17.42	117.42	9 24 36	724.5	10.98	343.23
90.00	14 57 26	5412.51	28.06	248.48	21.91	86.04	16 27 39	4812.5	27.22	239.92
100.00	10 9 44	1107.64	6.23	333.49	16.80	119.29	10 28 11	507.6	10.09	326.83
100.00	16 32 56	5104.60	29.35	225.70	21.78	84.04	17 58 0	4504.6	28.21	217.08
110.00	10 48 4	987.47	3.49	322.68	15.11	124.03	11 4 32	387.5	7.93	316.41
110.00	18 11 5	4797.54	32.53	201.82	21.22	78.87	19 31 2	4197.5	30.66	193.11

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE-1.5175 TRA  .8313 TC3-5.8758 BAU  .7305   SGT 4874.4 SGR  519.2 SG3  807.0     ST  2906.0 SR   116.7 SS  2098.6
ROE -.0340 RRA  .1598 RC3 -.6607 FAU .10083   RRT  .8534 RRF  .8549 RTF  .9823     CRT  .6876 CRS -.7271 CST -.9983
FOE-3.0739 FRA 2.2533 FC3-9.4456 BSP  15270   SGB 4902.0 R23  .0269 R13  .9824     LSA 3584.1 MSA  127.6 SSA   15.8
BOE 1.5179 BRA  .8465 BC3 5.9128 FSP  -2626   SG1 4894.6 SG2  269.5 THA   5.21     EL1 2907.1 EL2   84.7 ALF   1.58
```

LAUNCH DATE MAY 29 1967 FLIGHT TIME 178.00 ARRIVAL DATE NOV 23 1967

HELIOCENTRIC CONIC DISTANCE 495.528

```
RL  151.62 LAL    .00 LOL 246.96 VL  26.806 GAL   2.73 AZL  92.80 HCA 225.31 SMA 128.59 ECC .18512 INC 2.7989 V1  29.385
RP  107.52 LAP   1.99 LOP 112.24 VP  37.904 GAP   5.00 AZP  88.03 TAL 167.81 TAP  33.12 RCA 104.79 APO 152.40 V2  35.246
RC 118.080 GL  -24.88 GP   -6.97 ZAL  71.43 ZAP 142.86 ETS 351.73 ZAE 134.67 ETE 186.27 ZAC 117.37 ETC  13.47 CLP-143.43
```

PLANETOCENTRIC CONIC

```
C3   9.659 VHL  3.108 DLA -21.73 RAL 167.34 RAD 6567.3 VEL 11.448 PTH   1.99 VHP  4.244 DPA   8.34 RAP 149.77 ECC 1.1590
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 17 30	1301.39	8.09	348.73	19.76	117.23	9 39 11	701.4	11.67	341.89
90.00	14 54 53	5452.92	28.22	251.43	24.38	87.51	16 25 46	4852.9	27.57	242.82
100.00	10 23 38	1087.92	6.89	332.39	19.11	119.16	10 41 46	487.9	10.72	325.71
100.00	16 31 26	5141.61	29.58	228.43	24.29	85.45	17 57 7	4541.6	28.63	219.75
110.00	11 0 7	973.57	4.02	321.96	17.34	123.97	11 16 20	373.6	8.45	315.67
110.00	18 11 26	4828.73	32.92	204.18	23.79	80.21	19 31 55	4228.7	31.22	195.36

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE-1.6232 TRA  .9329 TC3-5.8168 BAU  .7551   SGT 5045.4 SGR  484.2 SG3  751.2     ST  3045.5 SR    96.7 SS  2051.3
ROE -.0112 RRA  .1576 RC3 -.5938 FAU .09264   RRT  .8085 RRF  .8065 RTF  .9821     CRT  .3903 CRS -.4393 CST -.9984
FOE-2.9476 FRA 2.2209 FC3-8.3028 BSP  15830   SGB 5068.5 R23  .0168 R13  .9822     LSA 3670.9 MSA  128.5 SSA   16.3
BOE 1.6233 BRA  .9461 BC3 5.8471 FSP  -2452   SG1 5060.6 SG2  284.1 THA   4.45     EL1 3045.7 EL2   89.0 ALF    .71
```

LAUNCH DATE MAY 29 1967 FLIGHT TIME 180.00 ARRIVAL DATE NOV 25 1967

HELIOCENTRIC CONIC DISTANCE 501.615

```
RL  151.62 LAL    .00 LOL 246.96 VL  26.783 GAL   2.97 AZL  92.86 HCA 228.56 SMA 128.44 ECC .18755 INC 2.8580 V1  29.385
RP  107.50 LAP   2.14 LOP 115.48 VP  37.891 GAP   5.40 AZP  88.11 TAL 166.94 TAP  35.50 RCA 104.35 APO 152.52 V2  35.250
RC 120.312 GL  -24.79 GP   -6.35 ZAL  69.80 ZAP 145.24 ETS 351.74 ZAE 133.46 ETE 185.59 ZAC 116.34 ETC  13.73 CLP-145.75
```

PLANETOCENTRIC CONIC

```
C3  10.115 VHL  3.180 DLA -22.36 RAL 168.98 RAD 6567.4 VEL 11.468 PTH   1.99 VHP  4.416 DPA   8.62 RAP 150.85 ECC 1.1665
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 32 14	1281.13	8.72	347.57	22.21	117.05	9 53 35	681.1	12.28	340.70
90.00	14 53 15	5491.48	28.30	254.24	26.95	88.92	16 24 46	4891.5	27.85	245.61
100.00	10 37 19	1071.06	7.44	331.45	21.53	119.03	10 55 10	471.1	11.26	324.74
100.00	16 30 51	5176.78	29.74	231.03	26.89	86.81	17 57 8	4576.8	28.98	222.31
110.00	11 12 0	962.33	4.44	321.37	19.68	123.93	11 28 2	362.3	8.87	315.07
110.00	18 12 39	4858.28	33.24	206.42	26.47	81.51	19 33 37	4258.3	31.71	197.53

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE-1.7263 TRA 1.0425 TC3-5.7299 BAU  .7783   SGT 5203.8 SGR  458.4 SG3  699.4     ST  3171.0 SR    93.9 SS  2000.3
ROE  .0105 RRA  .1565 RC3 -.5375 FAU .08509   RRT  .7572 RRF  .7517 RTF  .9819     CRT -.0066 CRS -.0457 CST -.9985
FOE-2.8210 FRA 2.1920 FC3-7.2827 BSP  16365   SGB 5224.0 R23  .0088 R13  .9820     LSA 3748.0 MSA  129.7 SSA   18.5
BOE 1.7263 BRA 1.0542 BC3 5.7551 FSP  -2292   SG1 5215.4 SG2  298.8 THA   3.83     EL1 3171.0 EL2   93.9 ALF 179.99
```

LAUNCH DATE MAY 29 1967 FLIGHT TIME 182.00 ARRIVAL DATE NOV 27 1967

HELIOCENTRIC CONIC DISTANCE 507.679

```
RL  151.62 LAL    .00 LOL 246.96 VL  26.759 GAL   3.22 AZL  92.91 HCA 231.80 SMA 128.28 ECC .19018 INC 2.9114 V1  29.385
RP  107.49 LAP   2.29 LOP 118.73 VP  37.877 GAP   5.79 AZP  88.20 TAL 166.04 TAP  37.85 RCA 103.88 APO 152.67 V2  35.253
RC 122.538 GL  -24.61 GP   -5.81 ZAL  68.12 ZAP 147.46 ETS 351.73 ZAE 132.36 ETE 185.04 ZAC 115.19 ETC  13.92 CLP-147.93
```

PLANETOCENTRIC CONIC

```
C3  10.616 VHL  3.258 DLA -22.92 RAL 170.70 RAD 6567.4 VEL 11.489 PTH   2.00 VHP  4.595 DPA   8.77 RAP 152.05 ECC 1.1747
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 46 44	1263.60	9.26	346.57	24.77	116.88	10 7 47	663.6	12.79	339.68
90.00	14 52 26	5528.50	28.32	256.95	29.61	90.28	16 24 35	4928.5	28.05	248.30
100.00	10 50 46	1056.92	7.91	330.66	24.05	118.92	11 8 23	456.9	11.71	323.93
100.00	16 31 6	5210.41	29.84	233.53	29.59	88.12	17 57 56	4610.4	29.26	224.77
110.00	11 23 43	953.60	4.78	320.91	22.13	123.89	11 39 37	353.6	9.19	314.60
110.00	18 14 38	4886.50	33.50	208.58	29.24	82.76	19 36 4	4286.5	32.14	199.62

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.8234 TRA 1.1640 TC3-5.6016 BAU  .7980   SGT 5342.6 SGR  439.6 SG3  650.2      ST  3276.8 SR   105.9 SS  1941.6
RDE  .0317 RRA  .1564 RC3 -.4875 FAU .07775   RRT  .7004 RRF  .6917 RTF  .9815     CRT -.3393 CRS  .2907 CST -.9986
FDE-2.6886 FRA 2.1724 FC3-6.3406 BSP  16782   SGB 5360.6 R23  .0028 R13  .9815     LSA 3807.9 MSA  132.4 SSA   17.1
BDE 1.8236 BRA 1.1744 BC3 5.6227 FSP  -2129   SG1 5351.5 SG2  313.2 THA   3.31     EL1 3277.0 EL2   99.6 ALF 179.37
```

LAUNCH DATE MAY 29 1967 FLIGHT TIME 184.00 ARRIVAL DATE NOV 29 1967

HELIOCENTRIC CONIC DISTANCE 513.718

```
RL  151.62 LAL    .00 LOL 246.96 VL  26.734 GAL   3.49 AZL  92.96 HCA 235.05 SMA 128.11 ECC .19300 INC 2.9602 V1  29.385
RP  107.49 LAP   2.43 LOP 121.97 VP  37.862 GAP   6.19 AZP  88.30 TAL 165.12 TAP  40.17 RCA 103.38 APO 152.84 V2  35.256
RC 124.755 GL  -24.35 GP   -5.35 ZAL  66.42 ZAP 149.55 ETS 351.68 ZAE 131.37 ETE 184.61 ZAC 113.91 ETC  14.05 CLP-149.97
```

PLANETOCENTRIC CONIC

```
C3  11.169 VHL  3.342 DLA -23.41 RAL 172.47 RAD 6567.4 VEL 11.513 PTH   2.01 VHP  4.781 DPA   8.80 RAP 153.35 ECC 1.1838
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 0 57	1248.77	9.71	345.72	27.42	116.73	10 21 46	648.8	13.22	338.80
90.00	14 52 24	5564.11	28.28	259.56	32.35	91.59	16 25 8	4964.1	28.20	250.89
100.00	11 3 56	1045.47	8.29	330.02	26.66	118.82	11 21 22	445.5	12.07	323.28
100.00	16 32 6	5242.65	29.89	235.92	32.37	89.38	17 59 29	4642.6	29.48	227.14
110.00	11 35 14	947.33	5.01	320.58	24.66	123.86	11 51 1	347.3	9.43	314.27
110.00	18 17 17	4913.55	33.71	210.67	32.11	83.98	19 39 11	4313.6	32.51	201.64

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.9215 TRA 1.2914 TC3-5.4610 BAU  .8181   SGT 5476.9 SGR  426.4 SG3  605.7      ST  3374.6 SR   125.4 SS  1886.0
RDE  .0520 RRA  .1567 RC3 -.4442 FAU .07128   RRT  .6408 RRF  .6289 RTF  .9811     CRT -.5410 CRS  .4985 CST -.9987
FDE-2.5678 FRA 2.1500 FC3-5.5246 BSP  17245   SGB 5493.5 R23 -.0027 R13  .9811     LSA 3865.5 MSA  134.9 SSA   17.3
BDE 1.9222 BRA 1.3009 BC3 5.4790 FSP  -1992   SG1 5483.8 SG2  326.9 THA   2.87     EL1 3375.3 EL2  105.5 ALF 178.85
```

LAUNCH DATE MAY 29 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 1 1967

HELIOCENTRIC CONIC DISTANCE 519.732

```
RL  151.62 LAL    .00 LOL 246.96 VL  26.708 GAL   3.77 AZL  93.01 HCA 238.30 SMA 127.94 ECC .19604 INC 3.0053 V1  29.385
RP  107.48 LAP   2.56 LOP 125.22 VP  37.845 GAP   6.60 AZP  88.42 TAL 164.17 TAP  42.47 RCA 102.86 APO 153.02 V2  35.258
RC 126.964 GL  -24.02 GP   -4.95 ZAL  64.69 ZAP 151.50 ETS 351.59 ZAE 130.48 ETE 184.25 ZAC 112.54 ETC  14.13 CLP-151.90
```

PLANETOCENTRIC CONIC

```
C3  11.782 VHL  3.432 DLA -23.85 RAL 174.30 RAD 6567.4 VEL 11.540 PTH   2.01 VHP  4.975 DPA   8.73 RAP 154.74 ECC 1.1939
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 14 51	1236.68	10.08	345.02	30.16	116.60	10 35 28	636.7	13.57	338.09
90.00	14 53 5	5598.42	28.19	262.06	35.17	92.84	16 26 23	4998.4	28.28	253.40
100.00	11 16 48	1036.71	8.57	329.53	29.36	118.75	11 34 5	436.7	12.35	322.77
100.00	16 33 49	5273.62	29.89	238.22	35.23	90.59	18 1 43	4673.6	29.65	229.43
110.00	11 46 31	943.49	5.16	320.38	27.27	123.84	12 2 15	343.5	9.57	314.06
110.00	18 20 35	4939.60	33.88	212.68	35.06	85.16	19 42 54	4339.6	32.84	203.60

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.0174 TRA 1.4284 TC3-5.2966 BAU  .8367   SGT 5599.7 SGR  417.5 SG3  564.7      ST  3458.8 SR   148.1 SS  1829.2
RDE  .0720 RRA  .1573 RC3 -.4052 FAU .06530   RRT  .5797 RRF  .5648 RTF  .9808     CRT -.6569 CRS  .6196 CST -.9987
FDE-2.4513 FRA 2.1308 FC3-4.7984 BSP  17673   SGB 5615.3 R23 -.0072 R13  .9807     LSA 3913.1 MSA  137.8 SSA   17.5
BDE 2.0187 BRA 1.4370 BC3 5.3121 FSP  -1865   SG1 5605.0 SG2  339.9 THA   2.48     EL1 3460.2 EL2  111.6 ALF 178.39
```

LAUNCH DATE MAY 29 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 3 1967

HELIOCENTRIC CONIC DISTANCE 525.718

```
RL  151.62 LAL    .00 LOL 246.96 VL  26.681 GAL   4.07 AZL  93.05 HCA 241.55 SMA 127.77 ECC .19930 INC 3.0474 V1  29.385
RP  107.48 LAP   2.68 LOP 128.47 VP  37.827 GAP   7.01 AZP  88.55 TAL 163.20 TAP  44.75 RCA 102.30 APO 153.23 V2  35.259
RC 129.165 GL  -23.63 GP   -4.59 ZAL  62.94 ZAP 153.35 ETS 351.47 ZAE 129.68 ETE 183.95 ZAC 111.08 ETC  14.17 CLP-153.72
```

PLANETOCENTRIC CONIC

```
C3  12.463 VHL  3.530 DLA -24.23 RAL 176.17 RAD 6567.5 VEL 11.569 PTH   2.02 VHP  5.175 DPA   8.56 RAP 156.21 ECC 1.2051
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 28 21	1227.41	10.36	344.49	32.97	116.50	10 48 49	627.4	13.84	337.54
90.00	14 54 28	5631.44	28.05	264.47	38.06	94.04	16 28 19	5031.4	28.32	255.81
100.00	11 29 18	1030.68	8.77	329.19	32.13	118.69	11 46 28	430.7	12.54	322.42
100.00	16 36 13	5303.39	29.85	240.44	38.17	91.76	18 4 36	4703.4	29.77	231.63
110.00	11 57 33	942.08	5.21	320.30	29.95	123.83	12 13 15	342.1	9.62	313.99
110.00	18 24 27	4964.76	34.01	214.64	38.08	86.31	19 47 12	4364.8	33.12	205.51

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.1119 TRA 1.5750 TC3-5.1123 BAU  .8540   SGT 5712.7 SGR  411.7 SG3  526.8      ST  3530.8 SR   171.7 SS  1772.0
RDE  .0920 RRA  .1581 RC3 -.3695 FAU .05979   RRT  .5181 RRF  .5006 RTF  .9804     CRT -.7256 CRS  .6923 CST -.9988
FDE-2.3401 FRA 2.1141 FC3-4.1535 BSP  18073   SGB 5727.5 R23 -.0109 R13  .9803     LSA 3951.7 MSA  141.2 SSA   17.4
BDE 2.1139 BRA 1.5829 BC3 5.1257 FSP  -1748   SG1 5716.7 SG2  351.9 THA   2.15     EL1 3533.0 EL2  118.1 ALF 177.98
```

LAUNCH DATE MAY 29 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 5 1967

HELIOCENTRIC CONIC DISTANCE 531.676
RL 151.62 LAL .00 LOL 246.96 VL 26.654 GAL 4.39 AZL 93.09 HCA 244.79 SMA 127.59 ECC .20280 INC 3.0870 V1 29.385
RP 107.48 LAP 2.79 LOP 131.72 VP 37.809 GAP 7.42 AZP 88.68 TAL 162.20 TAP 47.00 RCA 101.71 APO 153.46 V2 35.259
RC 131.355 GL -23.18 GP -4.29 ZAL 61.18 ZAP 155.10 ETS 351.30 ZAE 128.95 ETE 183.70 ZAC 109.53 ETC 14.18 CLP-155.45
PLANETOCENTRIC CONIC
C3 13.221 VHL 3.636 DLA -24.56 RAL 178.06 RAO 6567.5 VEL 11.602 PTH 2.03 VHP 5.383 DPA 8.31 RAP 157.76 ECC 1.2176

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 41 24	1221.07	10.56	344.12	35.85	116.43	11 1 45	621.1	14.02	337.16
90.00	14 56 32	5663.14	27.88	266.77	41.02	95.18	16 30 56	5063.1	28.30	258.13
100.00	11 41 22	1027.47	8.88	329.01	34.96	118.66	11 58 30	427.5	12.64	322.24
100.00	16 39 15	5331.98	29.77	242.56	41.17	92.87	18 8 7	4732.0	29.85	233.76
110.00	12 8 16	943.13	5.17	320.36	32.70	123.84	12 23 59	343.1	9.58	314.04
110.00	18 28 51	4989.09	34.10	216.53	41.18	87.43	19 52 0	4389.1	33.37	207.37

DIFFERENTIAL CORRECTIONS
TDE-2.2044 TRA 1.7328 TC3-4.9084 BAU .8696
RDE .1120 RRA .1589 RC3 -.3362 FAU .05465
FDE-2.2341 FRA 2.1009 FC3-3.5787 BSP 18435
BDE 2.2072 BRA 1.7400 BC3 4.9199 FSP -1638

MID-COURSE EXECUTION ACCURACY
SGT 5815.4 SGR 408.3 SG3 491.9
RRT .4573 RRF .4374 RTF .9799
SGB 5829.7 R23 -.0141 R13 .9799
SG1 5818.4 SG2 362.9 THA 1.85

ORBIT DETERMINATION ACCURACY
ST 3589.9 SR 195.0 SS 1714.6
CRT -.7685 CRS .7381 CST -.9989
LSA 3980.5 MSA 145.1 SSA 17.3
EL1 3593.1 EL2 124.7 ALF 177.61

LAUNCH DATE MAY 29 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 7 1967

HELIOCENTRIC CONIC DISTANCE 537.604
RL 151.62 LAL .00 LOL 246.96 VL 26.627 GAL 4.73 AZL 93.12 HCA 248.04 SMA 127.41 ECC .20656 INC 3.1245 V1 29.385
RP 107.48 LAP 2.90 LOP 134.97 VP 37.789 GAP 7.85 AZP 88.83 TAL 161.19 TAP 49.23 RCA 101.09 APO 153.73 V2 35.259
RC 133.537 GL -22.68 GP -4.01 ZAL 59.42 ZAP 156.76 ETS 351.10 ZAE 128.29 ETE 183.49 ZAC 107.91 ETC 14.16 CLP-157.09
PLANETOCENTRIC CONIC
C3 14.068 VHL 3.751 DLA -24.85 RAL 179.98 RAO 6567.6 VEL 11.638 PTH 2.04 VHP 5.599 DPA 7.98 RAP 159.37 ECC 1.2315

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 53 54	1217.83	10.65	343.93	38.78	116.39	11 14 12	617.8	14.12	336.97
90.00	14 59 18	5693.49	27.67	268.97	44.04	96.26	16 34 12	5093.5	28.25	260.35
100.00	11 52 58	1027.14	8.89	328.99	37.85	118.66	12 10 5	427.1	12.65	322.22
100.00	16 42 56	5359.41	29.66	244.59	44.24	93.94	18 12 15	4759.4	29.89	235.79
110.00	12 18 38	946.64	5.04	320.54	35.50	123.85	12 34 24	346.6	9.45	314.23
110.00	18 33 45	5012.67	34.15	218.37	44.35	88.51	19 57 18	4412.7	33.57	209.18

DIFFERENTIAL CORRECTIONS
TDE-2.2932 TRA 1.9041 TC3-4.6817 BAU .8824
RDE .1324 RRA .1596 RC3 -.3048 FAU .04974
FDE-2.1305 FRA 2.0933 FC3-3.0611 BSP 18705
BDE 2.2970 BRA 1.9108 BC3 4.6916 FSP -1530

MID-COURSE EXECUTION ACCURACY
SGT 5905.9 SGR 406.6 SG3 459.5
RRT .3978 RRF .3761 RTF .9794
SGB 5919.9 R23 -.0165 R13 .9793
SG1 5908.1 SG2 372.9 THA 1.58

ORBIT DETERMINATION ACCURACY
ST 3634.1 SR 217.8 SS 1655.6
CRT -.7962 CRS .7680 CST -.9989
LSA 3996.6 MSA 149.7 SSA 17.2
EL1 3638.3 EL2 131.7 ALF 177.26

LAUNCH DATE MAY 29 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 9 1967

HELIOCENTRIC CONIC DISTANCE 543.499
RL 151.62 LAL .00 LOL 246.96 VL 26.599 GAL 5.09 AZL 93.16 HCA 251.29 SMA 127.23 ECC .21058 INC 3.1603 V1 29.385
RP 107.48 LAP 2.99 LOP 138.22 VP 37.768 GAP 8.28 AZP 88.99 TAL 160.16 TAP 51.45 RCA 100.44 APO 154.02 V2 35.257
RC 135.709 GL -22.15 GP -3.77 ZAL 57.67 ZAP 158.34 ETS 350.84 ZAE 127.69 ETE 183.31 ZAC 106.22 ETC 14.13 CLP-158.66
PLANETOCENTRIC CONIC
C3 15.014 VHL 3.875 DLA -25.08 RAL 181.90 RAO 6567.6 VEL 11.679 PTH 2.05 VHP 5.823 DPA 7.59 RAP 161.03 ECC 1.2471

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 5 46	1217.82	10.65	343.93	41.76	116.39	11 26 4	617.8	14.12	336.97
90.00	15 2 46	5722.39	27.44	271.05	47.11	97.28	16 38 9	5122.4	28.16	262.46
100.00	12 4 1	1029.77	8.80	329.14	40.78	118.68	12 21 11	429.8	12.56	322.37
100.00	16 47 13	5385.67	29.52	246.53	47.36	94.95	18 16 58	4785.7	29.89	237.75
110.00	12 28 36	952.65	4.81	320.86	38.34	123.88	12 44 29	352.6	9.23	314.55
110.00	18 39 7	5035.56	34.18	220.16	47.58	89.57	20 3 2	4435.6	33.74	210.94

DIFFERENTIAL CORRECTIONS
TDE-2.3842 TRA 2.0833 TC3-4.4537 BAU .8957
RDE .1530 RRA .1598 RC3 -.2756 FAU .04540
FDE-2.0369 FRA 2.0837 FC3-2.6179 BSP 19026
BDE 2.3891 BRA 2.0894 BC3 4.4622 FSP -1438

MID-COURSE EXECUTION ACCURACY
SGT 5992.4 SGR 406.1 SG3 429.9
RRT .3400 RRF .3166 RTF .9790
SGB 6006.2 R23 -.0187 R13 .9789
SG1 5994.0 SG2 381.8 THA 1.33

ORBIT DETERMINATION ACCURACY
ST 3671.6 SR 239.5 SS 1600.1
CRT -.8155 CRS .7891 CST -.9989
LSA 4009.3 MSA 154.2 SSA 17.0
EL1 3676.8 EL2 138.4 ALF 176.95

LAUNCH DATE MAY 29 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 11 1967

HELIOCENTRIC CONIC DISTANCE 549.358
RL 151.62 LAL .00 LOL 246.96 VL 26.571 GAL 5.47 AZL 93.19 HCA 254.54 SMA 127.04 ECC .21490 INC 3.1948 V1 29.385
RP 107.49 LAP 3.08 LOP 141.47 VP 37.746 GAP 8.73 AZP 89.15 TAL 159.12 TAP 53.65 RCA 99.74 APO 154.35 V2 35.255
RC 137.871 GL -21.57 GP -3.56 ZAL 55.92 ZAP 159.85 ETS 350.54 ZAE 127.15 ETE 183.15 ZAC 104.48 ETC 14.08 CLP-160.16
PLANETOCENTRIC CONIC
C3 16.073 VHL 4.009 DLA -25.27 RAL 183.82 RAO 6567.6 VEL 11.724 PTH 2.07 VHP 6.056 DPA 7.14 RAP 162.74 ECC 1.2645

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 16 57	1221.18	10.55	344.13	44.77	116.43	11 37 18	621.2	14.02	337.17
90.00	15 6 56	5749.80	27.19	273.02	50.23	98.24	16 42 45	5149.8	28.05	264.46
100.00	12 14 28	1035.44	8.62	329.46	43.74	118.73	12 31 44	435.4	12.39	322.70
100.00	16 52 5	5410.77	29.36	248.38	50.54	95.91	18 22 16	4810.8	29.86	239.61
110.00	12 38 9	961.16	4.49	321.30	41.21	123.92	12 54 10	361.2	8.91	315.01
110.00	18 44 54	5057.82	34.18	221.90	50.86	90.60	20 9 12	4457.8	33.88	212.66

DIFFERENTIAL CORRECTIONS
TDE-2.4744 TRA 2.2746 TC3-4.2153 BAU .9074
RDE .1740 RRA .1596 RC3 -.2481 FAU .04135
FDE-1.9487 FRA 2.0769 FC3-2.2273 BSP 19327
BDE 2.4805 BRA 2.2802 BC3 4.2226 FSP -1353

MID-COURSE EXECUTION ACCURACY
SGT 6070.5 SGR 406.2 SG3 402.7
RRT .2838 RRF .2592 RTF .9785
SGB 6084.1 R23 -.0205 R13 .9785
SG1 6071.6 SG2 389.4 THA 1.09

ORBIT DETERMINATION ACCURACY
ST 3698.4 SR 260.0 SS 1545.8
CRT -.8290 CRS .8041 CST -.9990
LSA 4013.7 MSA 159.0 SSA 16.7
EL1 3704.7 EL2 145.2 ALF 176.66

LAUNCH DATE MAY 29 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 13 1967

HELIOCENTRIC CONIC DISTANCE 555.179

```
RL  151.62 LAL    .00 LOL 246.96 VL  26.542 GAL   5.88 AZL  93.23 HCA 257.78 SMA 126.86 ECC .21953 INC 3.2282 V1  29.385
RP  107.50 LAP   3.16 LOP 144.72 VP  37.723 GAP   9.19 AZP  89.32 TAL 158.06 TAP  55.84 RCA  99.01 APO 154.71 V2  35.253
RC 140.023 GL  -20.97 GP   -3.37 ZAL  54.19 ZAP 161.30 ETS 350.18 ZAE 126.65 ETE 183.00 ZAC 102.68 ETC  14.02 CLP-161.60
```

PLANETOCENTRIC CONIC

```
C3  17.261 VHL  4.155 DLA -25.42 RAL 185.73 RAO 6567.7 VEL 11.775 PTH   2.08 VHP  6.299 OPA   6.64 RAP 164.49 ECC 1.2841
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 27 21	1228.02	10.35	344.52	47.80	116.51	11 47 49	628.0	13.82	337.57
90.00	15 11 46	5775.65	26.92	274.86	53.40	99.13	16 48 2	5175.6	27.91	266.34
100.00	12 24 18	1044.17	8.33	329.95	46.73	118.81	12 41 42	444.2	12.11	323.20
100.00	16 57 31	5434.72	29.18	250.14	53.76	96.82	18 28 6	4834.7	29.81	241.39
110.00	12 47 15	972.16	4.07	321.88	44.12	123.97	13 3 27	372.2	8.50	315.60
110.00	18 51 3	5079.50	34.15	223.59	54.19	91.60	20 15 43	4479.5	34.00	214.35

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-2.5642 TRA 2.4785 TC3-3.9700 BAU  .9175    SGT 6140.7 SGR  406.8 SG3  377.5    ST  3715.4 SR   279.3 SS  1492.9
RDE  .1955 RRA  .1588 RC3 -.2221 FAU .03759    RRT  .2294 RRF  .2040 RTF  .9781   CRT -.8386 CRS  .8150 CST -.9990
FDE-1.8659 FRA 2.0722 FC3-1.8856 BSP  19601    SGB 6154.2 R23 -.0219 R13  .9781   LSA 4010.5 MSA  164.0 SSA   16.4
BDE 2.5717 BRA 2.4836 BC3 3.9762 FSP  -1274    SG1 6141.4 SG2  395.9 THA    .87   EL1 3722.8 EL2  151.8 ALF 176.39
```

LAUNCH DATE MAY 29 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 15 1967

HELIOCENTRIC CONIC DISTANCE 560.958

```
RL  151.62 LAL    .00 LOL 246.96 VL  26.513 GAL   6.31 AZL  93.26 HCA 261.03 SMA 126.67 ECC .22450 INC 3.2608 V1  29.385
RP  107.51 LAP   3.22 LOP 147.98 VP  37.700 GAP   9.66 AZP  89.49 TAL 156.99 TAP  58.02 RCA  98.23 APO 155.11 V2  35.249
RC 142.165 GL  -20.34 GP   -3.20 ZAL  52.49 ZAP 162.70 ETS 349.75 ZAE 126.19 ETE 182.87 ZAC 100.84 ETC  13.96 CLP-162.99
```

PLANETOCENTRIC CONIC

```
C3  18.594 VHL  4.312 DLA -25.52 RAL 187.63 RAO 6567.8 VEL 11.831 PTH   2.10 VHP  6.553 OPA   6.08 RAP 166.28 ECC 1.3060
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 36 57	1238.40	10.03	345.12	50.85	116.62	11 57 36	638.4	13.52	338.19
90.00	15 17 18	5799.93	26.65	276.59	56.61	99.95	16 53 58	5199.9	27.75	268.10
100.00	12 33 27	1055.98	7.94	330.61	49.74	118.91	12 51 3	456.0	11.74	323.88
100.00	17 3 29	5457.58	28.98	251.81	57.02	97.67	18 34 27	4857.6	29.74	243.09
110.00	12 55 52	985.65	3.56	322.59	47.04	124.02	13 12 18	385.6	8.00	316.32
110.00	18 57 34	5100.68	34.10	225.24	57.56	92.58	20 22 34	4500.7	34.08	216.00

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-2.6503 TRA 2.6995 TC3-3.7119 BAU  .9240    SGT 6200.6 SGR  407.7 SG3  354.1    ST  3719.2 SR   297.4 SS  1439.5
RDE  .2176 RRA  .1573 RC3 -.1975 FAU .03391    RRT  .1771 RRF  .1516 RTF  .9776   CRT -.8451 CRS  .8223 CST -.9991
FDE-1.7847 FRA 2.0730 FC3-1.5789 BSP  19757    SGB 6214.0 R23 -.0226 R13  .9776   LSA 3995.5 MSA  169.4 SSA   16.1
BDE 2.6592 BRA 2.7040 BC3 3.7171 FSP  -1193    SG1 6201.0 SG2  401.2 THA    .67   EL1 3727.7 EL2  158.6 ALF 176.13
```

LAUNCH DATE MAY 29 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 17 1967

HELIOCENTRIC CONIC DISTANCE 566.690

```
RL  151.62 LAL    .00 LOL 246.96 VL  26.484 GAL   6.77 AZL  93.29 HCA 264.28 SMA 126.49 ECC .22985 INC 3.2928 V1  29.385
RP  107.52 LAP   3.28 LOP 151.23 VP  37.675 GAP  10.15 AZP  89.67 TAL 155.92 TAP  60.20 RCA  97.41 APO 155.56 V2  35.245
RC 144.295 GL  -19.69 GP   -3.04 ZAL  50.80 ZAP 164.05 ETS 349.25 ZAE 125.77 ETE 182.76 ZAC  98.96 ETC  13.90 CLP-164.33
```

PLANETOCENTRIC CONIC

```
C3  20.093 VHL  4.482 DLA -25.59 RAL 189.50 RAO 6567.8 VEL 11.894 PTH   2.11 VHP  6.819 OPA   5.49 RAP 168.10 ECC 1.3307
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 45 42	1252.37	9.60	345.93	53.91	116.77	12 6 35	652.4	13.12	339.01
90.00	15 23 29	5822.64	26.37	278.19	59.86	100.71	17 0 31	5222.6	27.58	269.74
100.00	12 41 55	1070.86	7.45	331.44	52.75	119.03	12 59 46	470.9	11.27	324.73
100.00	17 9 57	5479.37	28.77	253.39	60.32	98.48	18 41 16	4879.4	29.64	244.70
110.00	13 4 0	1001.59	2.95	323.42	49.98	124.07	13 20 41	401.6	7.40	317.16
110.00	19 4 22	5121.41	34.02	226.86	60.97	93.53	20 29 43	4521.4	34.14	217.61

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-2.7407 TRA 2.9303 TC3-3.4616 BAU  .9310    SGT 6256.9 SGR  408.5 SG3  332.6    ST  3719.3 SR   314.0 SS  1390.6
RDE  .2402 RRA  .1548 RC3 -.1746 FAU .03067    RRT  .1258 RRF  .1004 RTF  .9773   CRT -.8503 CRS  .8284 CST -.9991
FDE-1.7129 FRA 2.0724 FC3-1.3214 BSP  19998    SGB 6270.2 R23 -.0233 R13  .9773   LSA 3979.3 MSA  174.3 SSA   15.7
BDE 2.7512 BRA 2.9344 BC3 3.4660 FSP  -1126    SG1 6257.1 SG2  405.2 THA    .47   EL1 3728.9 EL2  164.8 ALF 175.89
```

LAUNCH DATE MAY 29 1967 FLIGHT TIME 204.00 ARRIVAL DATE DEC 19 1967

HELIOCENTRIC CONIC DISTANCE 572.371

```
RL  151.62 LAL    .00 LOL 246.96 VL  26.454 GAL   7.26 AZL  93.32 HCA 267.52 SMA 126.30 ECC .23560 INC 3.3244 V1  29.385
RP  107.53 LAP   3.32 LOP 154.48 VP  37.650 GAP  10.66 AZP  89.86 TAL 154.84 TAP  62.36 RCA  96.54 APO 156.05 V2  35.240
RC 146.414 GL  -19.03 GP   -2.90 ZAL  49.15 ZAP 165.35 ETS 348.66 ZAE 125.38 ETE 182.65 ZAC  97.04 ETC  13.84 CLP-165.63
```

PLANETOCENTRIC CONIC

```
C3  21.781 VHL  4.667 DLA -25.61 RAL 191.34 RAO 6567.9 VEL 11.965 PTH   2.13 VHP  7.098 OPA   4.86 RAP 169.95 ECC 1.3585
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 53 36	1269.87	9.06	346.93	56.96	116.94	12 14 45	669.9	12.61	340.04
90.00	15 30 16	5843.85	26.09	279.68	63.14	101.41	17 7 40	5243.8	27.40	271.26
100.00	12 49 41	1088.76	6.86	332.44	55.77	119.17	13 7 50	488.8	10.70	325.75
100.00	17 16 52	5500.19	28.55	254.90	63.65	99.25	18 48 32	4900.2	29.53	246.24
110.00	13 11 37	1019.93	2.25	324.38	52.93	124.12	13 28 37	419.9	6.71	318.14
110.00	19 11 25	5141.78	33.93	228.44	64.40	94.46	20 37 7	4541.8	34.17	219.20

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-2.8319 TRA 3.1759 TC3-3.2111 BAU  .9361    SGT 6306.1 SGR  409.2 SG3  312.8    ST  3711.8 SR   329.2 SS  1343.9
RDE  .2633 RRA  .1513 RC3 -.1533 FAU .02763    RRT  .0759 RRF  .0508 RTF  .9771   CRT -.8540 CRS  .8329 CST -.9992
FDE-1.6459 FRA 2.0741 FC3-1.0981 BSP  20217    SGB 6319.4 R23 -.0237 R13  .9771   LSA 3957.2 MSA  179.1 SSA   15.4
BDE 2.8441 BRA 3.1795 BC3 3.2148 FSP  -1063    SG1 6306.2 SG2  408.0 THA    .28   EL1 3722.5 EL2  170.8 ALF 175.66
```

LAUNCH DATE MAY 29 1967 FLIGHT TIME 206.00 ARRIVAL DATE DEC 21 1967

HELIOCENTRIC CONIC DISTANCE 577.994

RL 151.62 LAL .00 LOL 246.96 VL 26.425 GAL 7.77 AZL 93.36 HCA 270.77 SMA 126.11 ECC .24179 INC 3.3558 V1 29.385
RP 107.55 LAP 3.36 LOP 157.73 VP 37.624 GAP 11.18 AZP 90.04 TAL 153.76 TAP 64.53 RCA 95.62 APO 156.60 V2 35.234
RC 148.521 GL -18.36 GP -2.78 ZAL 47.54 ZAP 166.61 ETS 347.97 ZAE 125.01 ETE 182.54 ZAC 95.10 ETC 13.78 CLP-166.90

PLANETOCENTRIC CONIC

C3 23.686 VHL 4.867 DLA -25.61 RAL 193.14 RAD 6568.0 VEL 12.044 PTH 2.15 VHP 7.392 DPA 4.19 RAP 171.82 ECC 1.3898

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 0 37	1290.82	8.42	348.13	60.01	117.14	12 22 8	690.8	11.99	341.27
90.00	15 37 38	5863.65	25.82	281.07	66.46	102.05	17 15 22	5263.7	27.22	272.68
100.00	12 56 45	1109.59	6.17	333.60	58.79	119.31	13 15 14	509.6	10.03	326.94
100.00	17 24 12	5520.12	28.33	256.34	67.00	99.97	18 56 12	4920.1	29.41	247.71
110.00	13 18 43	1040.63	1.46	325.46	55.87	124.16	13 36 4	440.6	5.93	319.23
110.00	19 18 42	5161.85	33.81	229.99	67.87	95.38	20 44 44	4561.8	34.18	220.77

DIFFERENTIAL CORRECTIONS
TDE-2.9236 TRA 3.4376 TC3-2.9619 BAU .9389
RDE .2871 RRA .1467 RC3 -.1335 FAU .02475
FDE-1.5833 FRA 2.0782 FC3 -.9046 BSP 20407
BDE 2.9377 BRA 3.4407 BC3 2.9649 FSP -1004

MID-COURSE EXECUTION ACCURACY
SGT 6348.0 SGR 409.7 SG3 294.4
RRT .0271 RRF .0028 RTF .9768
SGB 6361.3 R23 -.0238 R13 .9768
SG1 6348.1 SG2 409.5 THA .10

ORBIT DETERMINATION ACCURACY
ST 3696.9 SR 342.9 SS 1299.1
CRT -.8565 CRS .8362 CST -.9992
LSA 3929.1 MSA 183.8 SSA 15.0
EL1 3708.5 EL2 176.4 ALF 175.45

LAUNCH DATE MAY 29 1967 FLIGHT TIME 208.00 ARRIVAL DATE DEC 23 1967

HELIOCENTRIC CONIC DISTANCE 583.554

RL 151.62 LAL .00 LOL 246.96 VL 26.395 GAL 8.33 AZL 93.39 HCA 274.01 SMA 125.92 ECC .24847 INC 3.3873 V1 29.385
RP 107.57 LAP 3.38 LOP 160.97 VP 37.597 GAP 11.74 AZP 90.24 TAL 152.68 TAP 66.69 RCA 94.63 APO 157.21 V2 35.228
RC 150.615 GL -17.67 GP -2.67 ZAL 45.97 ZAP 167.85 ETS 347.13 ZAE 124.66 ETE 182.45 ZAC 93.13 ETC 13.73 CLP-168.14

PLANETOCENTRIC CONIC

C3 25.839 VHL 5.083 DLA -25.56 RAL 194.90 RAD 6568.0 VEL 12.133 PTH 2.17 VHP 7.702 DPA 3.49 RAP 173.70 ECC 1.4253

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 6 48	1315.09	7.66	349.51	63.04	117.34	12 28 43	715.1	11.26	342.69
90.00	15 45 30	5882.20	25.55	282.36	69.80	102.64	17 23 32	5282.2	27.04	274.01
100.00	13 3 7	1133.25	5.38	334.91	61.80	119.45	13 22 0	533.3	9.26	328.27
100.00	17 31 52	5539.27	28.09	257.72	70.38	100.66	19 4 11	4939.3	29.28	249.11
110.00	13 25 19	1063.59	.58	326.66	58.82	124.18	13 43 2	463.6	5.06	320.44
110.00	19 26 9	5181.69	33.67	231.53	71.35	96.28	20 52 31	4581.7	34.17	222.32

DIFFERENTIAL CORRECTIONS
TDE-3.0130 TRA 3.7203 TC3-2.7103 BAU .9371
RDE .3116 RRA .1407 RC3 -.1153 FAU .02192
FDE-1.5226 FRA 2.0874 FC3 -.7344 BSP 20480
BDE 3.0291 BRA 3.7229 BC3 2.7127 FSP -943

MID-COURSE EXECUTION ACCURACY
SGT 6382.2 SGR 409.9 SG3 277.4
RRT -.0200 RRF -.0430 RTF .9766
SGB 6395.4 R23 .0234 R13 -.9766
SG1 6382.2 SG2 409.8 THA 179.93

ORBIT DETERMINATION ACCURACY
ST 3672.2 SR 355.2 SS 1255.2
CRT -.8579 CRS .8380 CST -.9992
LSA 3892.5 MSA 188.5 SSA 14.7
EL1 3684.9 EL2 181.9 ALF 175.25

LAUNCH DATE MAY 29 1967 FLIGHT TIME 210.00 ARRIVAL DATE DEC 25 1967

HELIOCENTRIC CONIC DISTANCE 589.042

RL 151.62 LAL .00 LOL 246.96 VL 26.365 GAL 8.91 AZL 93.42 HCA 277.25 SMA 125.74 ECC .25569 INC 3.4191 V1 29.385
RP 107.59 LAP 3.39 LOP 164.22 VP 37.570 GAP 12.32 AZP 90.43 TAL 151.61 TAP 68.86 RCA 93.59 APO 157.88 V2 35.221
RC 152.696 GL -16.98 GP -2.56 ZAL 44.44 ZAP 169.05 ETS 346.11 ZAE 124.33 ETE 182.35 ZAC 91.14 ETC 13.69 CLP-169.35

PLANETOCENTRIC CONIC

C3 28.279 VHL 5.318 DLA -25.49 RAL 196.62 RAD 6568.1 VEL 12.233 PTH 2.20 VHP 8.031 DPA 2.77 RAP 175.60 ECC 1.4654

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 12 10	1342.49	6.80	351.06	66.05	117.55	12 34 32	742.5	10.44	344.27
90.00	15 53 47	611.59	25.28	305.66	73.16	103.19	16 3 59	11.6	26.85	297.34
100.00	13 8 48	1159.62	4.49	336.37	64.79	119.58	13 28 8	559.6	8.40	329.76
100.00	17 39 50	5557.74	27.85	259.04	73.78	101.32	19 12 28	4957.7	29.13	250.47
110.00	13 31 23	1088.75	-.38	327.97	61.76	124.18	13 49 32	488.8	4.11	321.76
110.00	19 33 44	5201.37	33.51	233.04	74.85	97.16	21 0 26	4601.4	34.14	223.86

DIFFERENTIAL CORRECTIONS
TDE-3.1094 TRA 4.0160 TC3-2.4724 BAU .9355
RDE .3366 RRA .1333 RC3 -.0988 FAU .01941
FDE-1.4698 FRA 2.0960 FC3 -.5943 BSP 20651
BDE 3.1276 BRA 4.0182 BC3 2.4744 FSP -893

MID-COURSE EXECUTION ACCURACY
SGT 6412.1 SGR 409.7 SG3 261.6
RRT -.0670 RRF -.0886 RTF .9766
SGB 6425.2 R23 .0229 R13 -.9766
SG1 6412.2 SG2 408.8 THA 179.75

ORBIT DETERMINATION ACCURACY
ST 3646.6 SR 365.8 SS 1216.0
CRT -.8592 CRS .8399 CST -.9993
LSA 3856.5 MSA 192.4 SSA 14.3
EL1 3660.1 EL2 186.5 ALF 175.06

LAUNCH DATE MAY 29 1967 FLIGHT TIME 212.00 ARRIVAL DATE DEC 27 1967

HELIOCENTRIC CONIC DISTANCE 594.447

RL 151.62 LAL .00 LOL 246.96 VL 26.335 GAL 9.55 AZL 93.45 HCA 280.49 SMA 125.55 ECC .26350 INC 3.4513 V1 29.385
RP 107.62 LAP 3.39 LOP 167.47 VP 37.542 GAP 12.93 AZP 90.63 TAL 150.55 TAP 71.04 RCA 92.47 APO 158.63 V2 35.214
RC 154.762 GL -16.29 GP -2.47 ZAL 42.95 ZAP 170.23 ETS 344.86 ZAE 124.00 ETE 182.26 ZAC 89.13 ETC 13.66 CLP-170.55

PLANETOCENTRIC CONIC

C3 31.051 VHL 5.572 DLA -25.38 RAL 198.28 RAD 6568.2 VEL 12.346 PTH 2.23 VHP 8.380 DPA 2.02 RAP 177.51 ECC 1.5110

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 16 46	1372.82	5.84	352.78	69.04	117.76	12 39 38	772.8	9.51	346.02
90.00	16 2 26	628.10	25.02	306.80	76.53	103.71	16 12 54	28.1	26.66	298.52
100.00	13 13 50	1188.54	3.52	337.96	67.77	119.70	13 33 39	588.5	7.45	331.38
100.00	17 48 3	5575.65	27.61	260.31	77.19	101.95	19 20 59	4975.7	28.97	251.77
110.00	13 36 57	1116.01	-1.42	329.39	64.69	124.16	13 55 33	516.0	3.07	323.19
110.00	19 41 25	5220.94	33.34	234.54	78.36	98.03	21 8 26	4620.9	34.09	225.38

DIFFERENTIAL CORRECTIONS
TDE-3.2086 TRA 4.3314 TC3-2.2404 BAU .9307
RDE .3622 RRA .1242 RC3 -.0839 FAU .01703
FDE-1.4214 FRA 2.1073 FC3 -.4749 BSP 20796
BDE 3.2290 BRA 4.3332 BC3 2.2420 FSP -845

MID-COURSE EXECUTION ACCURACY
SGT 6435.8 SGR 409.2 SG3 246.9
RRT -.1133 RRF -.1332 RTF .9768
SGB 6448.8 R23 .0222 R13 -.9768
SG1 6436.0 SG2 406.6 THA 179.59

ORBIT DETERMINATION ACCURACY
ST 3616.3 SR 374.9 SS 1179.5
CRT -.8600 CRS .8413 CST -.9993
LSA 3817.1 MSA 195.8 SSA 13.9
EL1 3630.6 EL2 190.5 ALF 174.89

LAUNCH DATE MAY 29 1967 FLIGHT TIME 214.00 ARRIVAL DATE DEC 29 1967

HELIOCENTRIC CONIC DISTANCE 599.758
RL 151.62 LAL .00 LOL 246.96 VL 26.306 GAL 10.22 AZL 93.48 HCA 283.73 SMA 125.36 ECC .27197 INC 3.4841 V1 29.385
RP 107.64 LAP 3.38 LOP 170.71 VP 37.513 GAP 13.57 AZP 90.83 TAL 149.50 TAP 73.22 RCA 91.27 APO 159.46 V2 35.205
RC 156.813 GL -15.60 GP -2.39 ZAL 41.52 ZAP 171.39 ETS 343.28 ZAE 123.69 ETE 182.17 ZAC 87.12 ETC 13.64 CLP-171.72
PLANETOCENTRIC CONIC
C3 34.208 VHL 5.849 DLA -25.25 RAL 199.88 RAD 6568.3 VEL 12.473 PTH 2.26 VHP 8.752 DPA 1.26 RAP 179.42 ECC 1.5630

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 20 37	1405.85	4.79	354.64	72.01	117.94	12 44 3	805.8	8.49	347.91
90.00	16 11 22	643.84	24.76	307.88	79.91	104.19	16 22 6	43.8	26.47	299.63
100.00	13 18 14	1219.86	2.46	339.68	70.72	119.80	13 38 34	619.9	6.41	333.12
100.00	17 56 26	5593.10	27.35	261.55	80.60	102.55	19 29 40	4993.1	28.81	253.05
110.00	13 42 0	1145.27	-2.54	330.92	67.61	124.10	14 1 6	545.3	1.95	324.72
110.00	19 49 9	5240.46	33.14	236.03	81.87	98.89	21 16 30	4640.5	34.02	226.90

DIFFERENTIAL CORRECTIONS
TDE-3.3110 TRA 4.6682 TC3-2.0158 BAU .9224
RDE .3884 RRA .1134 RC3 -.0705 FAU .01476
FDE-1.3770 FRA 2.1220 FC3 -.3736 BSP 20918
BDE 3.3338 BRA 4.6696 BC3 2.0170 FSP -800

MID-COURSE EXECUTION ACCURACY
SGT 6453.4 SGR 408.3 SG3 233.3
RRT -.1588 RRF -.1767 RTF .9770
SGB 6466.3 R23 .0212 R13 -.9770
SG1 6453.7 SG2 403.1 THA 179.42

ORBIT DETERMINATION ACCURACY
ST 3581.5 SR 382.3 SS 1145.6
CRT -.8605 CRS .8423 CST -.9993
LSA 3774.3 MSA 198.7 SSA 13.5
EL1 3596.6 EL2 194.0 ALF 174.74

LAUNCH DATE MAY 29 1967 FLIGHT TIME 216.00 ARRIVAL DATE DEC 31 1967

HELIOCENTRIC CONIC DISTANCE 604.962
RL 151.62 LAL .00 LOL 246.96 VL 26.276 GAL 10.95 AZL 93.52 HCA 286.97 SMA 125.18 ECC .28118 INC 3.5179 V1 29.385
RP 107.67 LAP 3.36 LOP 173.95 VP 37.484 GAP 14.26 AZP 91.03 TAL 148.47 TAP 75.43 RCA 89.98 APO 160.38 V2 35.197
RC 158.850 GL -14.92 GP -2.31 ZAL 40.14 ZAP 172.53 ETS 341.23 ZAE 123.37 ETE 182.09 ZAC 85.10 ETC 13.64 CLP-172.89
PLANETOCENTRIC CONIC
C3 37.814 VHL 6.149 DLA -25.09 RAL 201.42 RAD 6568.5 VEL 12.617 PTH 2.29 VHP 9.150 DPA .48 RAP 181.34 ECC 1.6223

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 23 48	1441.36	3.65	356.63	74.95	118.10	12 47 49	841.4	7.38	349.93
90.00	16 20 29	658.96	24.51	308.92	83.30	104.65	16 31 28	59.0	26.28	300.70
100.00	13 22 1	1253.42	1.32	341.53	73.65	119.87	13 42 54	653.4	5.29	334.98
100.00	18 4 58	5610.18	27.10	262.75	84.01	103.13	19 38 28	5010.2	28.63	254.28
110.00	13 46 34	1176.42	-3.73	332.55	70.51	124.00	14 6 10	576.4	.76	326.34
110.00	19 56 54	5259.94	32.93	237.51	85.37	99.74	21 24 34	4659.9	33.92	228.42

DIFFERENTIAL CORRECTIONS
TDE-3.4176 TRA 5.0279 TC3-1.7996 BAU .9103
RDE .4152 RRA .1007 RC3 -.0587 FAU .01259
FDE-1.3367 FRA 2.1399 FC3 -.2883 BSP 21018
BDE 3.4427 BRA 5.0289 BC3 1.8006 FSP -758

MID-COURSE EXECUTION ACCURACY
SGT 6465.0 SGR 407.0 SG3 220.7
RRT -.2038 RRF -.2195 RTF .9774
SGB 6477.8 R23 .0200 R13 -.9774
SG1 6465.5 SG2 398.4 THA 179.26

ORBIT DETERMINATION ACCURACY
ST 3543.0 SR 388.1 SS 1114.5
CRT -.8607 CRS .8430 CST -.9994
LSA 3728.9 MSA 201.0 SSA 13.2
EL1 3558.7 EL2 196.7 ALF 174.60

LAUNCH DATE MAY 29 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 2 1968

HELIOCENTRIC CONIC DISTANCE 610.041
RL 151.62 LAL .00 LOL 246.96 VL 26.247 GAL 11.73 AZL 93.55 HCA 290.20 SMA 125.00 ECC .29121 INC 3.5528 V1 29.385
RP 107.70 LAP 3.33 LOP 177.20 VP 37.455 GAP 14.99 AZP 91.23 TAL 147.46 TAP 77.66 RCA 88.60 APO 161.40 V2 35.187
RC 160.871 GL -14.23 GP -2.24 ZAL 38.82 ZAP 173.65 ETS 338.45 ZAE 123.06 ETE 182.00 ZAC 83.07 ETC 13.65 CLP-174.06
PLANETOCENTRIC CONIC
C3 41.948 VHL 6.477 DLA -24.90 RAL 202.90 RAD 6568.6 VEL 12.779 PTH 2.32 VHP 9.577 DPA -.31 RAP 183.26 ECC 1.6904

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 26 20	1479.13	2.44	358.74	77.85	118.22	12 50 59	879.1	6.20	352.07
90.00	16 29 45	673.60	24.25	309.91	86.68	105.08	16 40 59	73.6	26.09	301.72
100.00	13 25 12	1289.05	.11	343.48	76.56	119.89	13 46 41	689.0	4.09	336.95
100.00	18 13 34	5626.95	26.83	263.93	87.41	103.70	19 47 21	5026.9	28.45	255.50
110.00	13 50 37	1209.35	-4.98	334.28	73.39	123.86	14 10 46	609.3	-.50	328.06
110.00	20 4 39	5279.41	32.69	238.98	88.86	100.59	21 32 38	4679.4	33.81	229.93

DIFFERENTIAL CORRECTIONS
TDE-3.5261 TRA 5.4163 TC3-1.5893 BAU .8917
RDE .4425 RRA .0858 RC3 -.0485 FAU .01044
FDE-1.2988 FRA 2.1631 FC3 -.2154 BSP 21018
BDE 3.5538 BRA 5.4170 BC3 1.5901 FSP -715

MID-COURSE EXECUTION ACCURACY
SGT 6471.1 SGR 405.2 SG3 209.0
RRT -.2478 RRF -.2610 RTF .9779
SGB 6483.7 R23 .0183 R13 -.9779
SG1 6471.9 SG2 392.5 THA 179.11

ORBIT DETERMINATION ACCURACY
ST 3499.4 SR 392.3 SS 1085.5
CRT -.8605 CRS .8432 CST -.9994
LSA 3679.2 MSA 202.9 SSA 12.8
EL1 3515.7 EL2 198.9 ALF 174.47

LAUNCH DATE MAY 29 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 4 1968

HELIOCENTRIC CONIC DISTANCE 614.973
RL 151.62 LAL .00 LOL 246.96 VL 26.218 GAL 12.57 AZL 93.59 HCA 293.44 SMA 124.82 ECC .30215 INC 3.5892 V1 29.385
RP 107.73 LAP 3.29 LOP 180.43 VP 37.425 GAP 15.78 AZP 91.43 TAL 146.49 TAP 79.92 RCA 87.10 APO 162.53 V2 35.178
RC 162.878 GL -13.56 GP -2.18 ZAL 37.55 ZAP 174.75 ETS 334.50 ZAE 122.73 ETE 181.92 ZAC 81.06 ETC 13.68 CLP-175.22
PLANETOCENTRIC CONIC
C3 46.704 VHL 6.834 DLA -24.69 RAL 204.31 RAD 6568.7 VEL 12.964 PTH 2.36 VHP 10.038 DPA -1.11 RAP 185.17 ECC 1.7686

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 28 15	1518.93	1.16	.96	80.72	118.30	12 53 34	918.9	4.93	354.31
90.00	16 39 5	687.83	24.00	310.88	90.04	105.50	16 50 33	87.8	25.89	302.72
100.00	13 27 49	1326.60	-1.16	345.54	79.43	119.87	13 49 56	726.6	2.82	339.02
100.00	18 22 12	5643.44	26.56	265.08	90.80	104.25	19 56 15	5043.4	28.26	256.69
110.00	13 54 10	1243.95	-6.29	336.10	76.25	123.67	14 14 54	643.9	-1.82	329.86
110.00	20 12 20	5298.85	32.44	240.44	92.33	101.41	21 40 39	4698.9	33.67	231.43

DIFFERENTIAL CORRECTIONS
TDE-3.6459 TRA 5.8274 TC3-1.3935 BAU .8704
RDE .4705 RRA .0686 RC3 -.0397 FAU .00846
FDE-1.2676 FRA 2.1881 FC3 -.1569 BSP 21110
BDE 3.6761 BRA 5.8278 BC3 1.3941 FSP -679

MID-COURSE EXECUTION ACCURACY
SGT 6471.8 SGR 403.2 SG3 198.0
RRT -.2920 RRF -.3028 RTF .9786
SGB 6484.4 R23 .0167 R13 -.9786
SG1 6472.9 SG2 385.5 THA 178.95

ORBIT DETERMINATION ACCURACY
ST 3456.7 SR 394.9 SS 1061.0
CRT -.8607 CRS .8439 CST -.9994
LSA 3631.6 MSA 203.7 SSA 12.4
EL1 3473.4 EL2 200.1 ALF 174.37

LAUNCH DATE MAY 30 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 8 1967

HELIOCENTRIC CONIC DISTANCE 146.235

RL	151.64	LAL	.00	LOL	247.92	VL	19.804	GAL	8.91	AZL	92.99	HCA	53.31	SMA	97.72	ECC	.56676	INC	2.9850	VI	29.380
RP	108.93	LAP	-2.39	LOP	301.19	VP	32.840	GAP	-33.97	AZP	91.78	TAL	173.05	TAP	226.37	RCA	42.34	APO	153.10	V2	34.787
RC	52.748	GL	-5.69	GP	.85	ZAL	74.28	ZAP	22.34	ETS	183.40	ZAE	157.77	ETE	156.50	ZAC	120.49	ETC	18.42	CLP	22.33

PLANETOCENTRIC CONIC

C3	105.623	VHL	10.277	DLA	-2.73	RAL	171.98	RAD	6570.0	VEL	15.065	PTH	2.71	VHP	19.882	DPA	17.44	RAP	147.22	ECC	2.7383

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 42 1	2531.85	-25.79	62.61	60.79	102.12	7 24 13	1931.8	-23.86	54.47
90.00	17 59 32	5345.20	27.65	243.60	63.38	83.63	19 28 38	4745.2	26.48	235.13
100.00	8 2 5	2273.56	-27.26	43.26	60.43	102.76	8 39 59	1673.6	-25.23	35.04
100.00	19 22 9	5078.72	29.15	223.80	63.18	83.05	20 46 48	4478.7	27.88	215.23
110.00	9 7 25	2069.07	-31.25	26.62	59.32	104.62	9 41 54	1469.1	-28.93	18.19
110.00	20 33 19	4855.98	33.21	206.25	62.53	81.41	21 54 15	4256.0	31.67	197.36

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TOE	.5401	TRA	-1.2967	TC3	-.0876	BAU	.1333	SGT	804.2	SGR	446.7	SG3	36.8	ST	371.3	SR	397.6	SS	341.2
ROE	-.7050	RRA	-.3576	RC3	.0353	FAU	.01520	RRT	.0364	RRF	-.0342	RTF	-.6354	CRT	-.7138	CRS	-.8211	CST	.9842
FOE	-.3198	FRA	.5207	FC3	-.1246	BSP	2090	SGB	920.0	R23	-.0008	R13	-.6355	LSA	604.4	MSA	216.4	SSA	14.0
BOE	.8881	BRA	1.3451	BC3	.0944	FSP	-77	SG1	804.5	SG2	446.3	THA	1.67	EL1	503.8	EL2	205.2	ALF	132.26

LAUNCH DATE MAY 30 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 10 1967

HELIOCENTRIC CONIC DISTANCE 152.459

RL	151.64	LAL	.00	LOL	247.92	VL	20.376	GAL	8.54	AZL	93.03	HCA	56.47	SMA	99.40	ECC	.54056	INC	3.0262	VI	29.380
RP	108.94	LAP	-2.52	LOP	304.35	VP	33.187	GAP	-32.31	AZP	91.67	TAL	172.59	TAP	229.07	RCA	45.67	APO	153.13	V2	34.786
RC	51.183	GL	-6.29	GP	.89	ZAL	73.58	ZAP	20.79	ETS	183.56	ZAE	159.04	ETE	153.43	ZAC	118.95	ETC	18.05	CLP	20.77

PLANETOCENTRIC CONIC

C3	94.357	VHL	9.714	DLA	-3.56	RAL	172.40	RAD	6569.8	VEL	14.687	PTH	2.66	VHP	19.001	DPA	16.96	RAP	148.82	ECC	2.5529

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 49 54	2481.82	-25.03	59.15	59.10	103.70	7 31 16	1881.8	-22.90	51.12
90.00	17 55 0	5346.99	27.66	243.73	62.38	83.69	19 24 7	4747.0	26.50	235.26
100.00	8 9 35	2224.80	-26.48	39.84	58.69	104.40	8 46 40	1624.8	-24.24	31.76
100.00	19 18 1	5079.25	29.15	223.84	62.18	83.07	20 42 40	4479.3	27.89	215.27
110.00	9 14 0	2023.12	-30.41	23.30	57.46	106.42	9 47 44	1423.1	-27.86	15.04
110.00	20 30 5	4853.69	33.19	206.07	61.54	81.31	21 50 58	4253.7	31.63	197.19

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TOE	.5401	TRA	-1.2853	TC3	-.0868	BAU	.1209	SGT	840.8	SGR	450.9	SG3	40.2	ST	391.7	SR	400.2	SS	361.1
ROE	-.6706	RRA	-.3412	RC3	.0405	FAU	.01560	RRT	.0366	RRF	-.0351	RTF	-.6559	CRT	-.7160	CRS	-.8251	CST	.9836
FOE	-.3360	FRA	.5361	FC3	-.1432	BSP	2246	SGB	954.1	R23	-.0014	R13	-.6560	LSA	628.7	MSA	220.4	SSA	14.2
BOE	.8611	BRA	1.3299	BC3	.0958	FSP	-86	SG1	841.0	SG2	450.5	THA	1.58	EL1	518.7	EL2	211.0	ALF	134.15

LAUNCH DATE MAY 30 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 12 1967

HELIOCENTRIC CONIC DISTANCE 158.748

RL	151.64	LAL	.00	LOL	247.92	VL	20.909	GAL	8.17	AZL	93.06	HCA	59.64	SMA	101.06	ECC	.51538	INC	3.0645	VI	29.380
RP	108.94	LAP	-2.64	LOP	307.52	VP	33.515	GAP	-30.73	AZP	91.55	TAL	172.16	TAP	231.80	RCA	48.98	APO	153.15	V2	34.784
RC	49.723	GL	-6.92	GP	.92	ZAL	72.97	ZAP	19.25	ETS	183.78	ZAE	160.39	ETE	149.74	ZAC	117.39	ETC	17.71	CLP	19.22

PLANETOCENTRIC CONIC

C3	84.359	VHL	9.185	DLA	-4.39	RAL	172.73	RAD	6569.7	VEL	14.342	PTH	2.61	VHP	18.155	DPA	16.47	RAP	150.43	ECC	2.3883

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 57 27	2431.05	-24.16	55.68	57.30	105.23	7 37 58	1831.0	-21.84	47.78
90.00	17 50 5	5348.08	27.67	243.81	61.23	83.73	19 19 13	4748.1	26.51	235.33
100.00	8 16 44	2175.30	-25.60	36.43	56.86	105.99	8 52 59	1575.3	-23.16	28.48
100.00	19 13 29	5079.06	29.15	223.83	61.04	83.07	20 38 8	4479.1	27.88	215.25
110.00	9 20 15	1976.45	-29.47	20.00	55.52	108.17	9 53 11	1376.4	-26.70	11.90
110.00	20 26 28	4850.67	33.16	205.84	60.39	81.17	21 47 18	4250.7	31.58	196.97

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TOE	.5400	TRA	-1.2735	TC3	-.0846	BAU	.1088	SGT	878.9	SGR	454.4	SG3	44.0	ST	413.1	SR	402.1	SS	382.0
ROE	-.6370	RRA	-.3249	RC3	.0464	FAU	.01604	RRT	.0372	RRF	-.0362	RTF	-.6754	CRT	-.7183	CRS	-.8293	CST	.9831
FOE	-.3531	FRA	.5514	FC3	-.1646	BSP	2396	SGB	989.4	R23	-.0020	R13	-.6755	LSA	654.1	MSA	223.9	SSA	14.4
BOE	.8351	BRA	1.3143	BC3	.0965	FSP	-96	SG1	879.1	SG2	454.0	THA	1.50	EL1	534.3	EL2	216.2	ALF	136.08

LAUNCH DATE MAY 30 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 14 1967

HELIOCENTRIC CONIC DISTANCE 165.098

RL	151.64	LAL	.00	LOL	247.92	VL	21.403	GAL	7.79	AZL	93.10	HCA	62.80	SMA	102.70	ECC	.49122	INC	3.1004	VI	29.380
RP	108.94	LAP	-2.76	LOP	310.68	VP	33.825	GAP	-29.23	AZP	91.42	TAL	171.77	TAP	234.57	RCA	52.25	APO	153.15	V2	34.784
RC	48.377	GL	-7.59	GP	.96	ZAL	72.46	ZAP	17.71	ETS	184.05	ZAE	161.79	ETE	145.25	ZAC	115.83	ETC	17.38	CLP	17.69

PLANETOCENTRIC CONIC

C3	75.481	VHL	8.688	DLA	-5.22	RAL	172.97	RAD	6569.5	VEL	14.030	PTH	2.56	VHP	17.342	DPA	15.97	RAP	152.03	ECC	2.2422

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 4 39	2379.59	-23.20	52.21	55.43	106.71	7 44 18	1779.6	-20.69	44.44
90.00	17 44 46	5348.60	27.67	243.85	59.94	83.75	19 13 55	4748.6	26.52	235.37
100.00	8 23 31	2125.14	-24.61	33.03	54.95	107.52	8 58 57	1525.1	-21.98	25.22
100.00	19 8 34	5078.29	29.14	223.77	59.74	83.04	20 33 13	4478.3	27.87	215.20
110.00	9 26 8	1929.14	-28.42	16.72	53.52	109.85	9 58 17	1329.1	-25.45	8.80
110.00	20 22 28	4847.05	33.12	205.57	59.09	81.01	21 43 15	4247.0	31.53	196.70

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TOE	.5407	TRA	-1.2604	TC3	-.0802	BAU	.0970	SGT	918.3	SGR	457.2	SG3	48.0	ST	435.7	SR	403.1	SS	404.0
ROE	-.6042	RRA	-.3087	RC3	.0530	FAU	.01653	RRT	.0375	RRF	-.0372	RTF	-.6943	CRT	-.7214	CRS	-.8337	CST	.9825
FOE	-.3713	FRA	.5665	FC3	-.1896	BSP	2556	SGB	1025.8	R23	-.0026	R13	-.6944	LSA	681.2	MSA	226.7	SSA	14.7
BOE	.8108	BRA	1.2976	BC3	.0961	FSP	-107	SG1	918.5	SG2	456.8	THA	1.42	EL1	551.0	EL2	220.8	ALF	138.08

LAUNCH DATE MAY 30 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 16 1967

HELIOCENTRIC CONIC DISTANCE 171.503

RL 151.64 LAL .00 LOL 247.92 VL 21.864 GAL 7.41 AZL 93.13 HCA 65.96 SMA 104.31 ECC .46812 INC 3.1343 V1 29.380
RP 108.94 LAP -2.86 LOP 313.84 VP 34.119 GAP -27.81 AZP 91.28 TAL 171.42 TAP 237.38 RCA 55.48 APO 153.14 V2 34.784
RC 47.155 GL -8.29 GP 1.00 ZAL 72.03 ZAP 16.18 ETS 184.40 ZAE 163.20 ETE 139.72 ZAC 114.25 ETC 17.06 CLP 16.15

PLANETOCENTRIC CONIC

C3 67.597 VHL 8.222 DLA -6.05 RAL 173.11 RAD 6569.3 VEL 13.746 PTH 2.51 VHP 16.560 DPA 15.45 RAP 153.64 ECC 2.1125

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 11 30	2327.55	-22.14	48.77	53.49	108.12	7 50 17	1727.5	-19.46	41.12
90.00	17 39 2	5348.72	27.68	243.85	58.51	83.76	19 8 10	4748.7	26.52	235.38
100.00	8 29 58	2074.40	-23.53	29.65	52.98	108.99	9 4 33	1474.4	-20.72	21.98
100.00	19 3 14	5077.11	29.13	223.69	58.31	82.99	20 27 51	4477.1	27.86	215.11
110.00	9 31 39	1881.30	-27.27	13.47	51.45	111.46	10 3 0	1281.3	-24.11	5.73
110.00	20 18 3	4842.97	33.08	205.26	57.66	80.84	21 38 46	4243.0	31.46	196.40

DIFFERENTIAL CORRECTIONS
TDE .5394 TRA-1.2486 TC3 -.0746 BAU .0867
RDE -.5721 RRA -.2927 RC3 .0602 FAU .01705
FDE -.3903 FRA .5819 FC3 -.2184 BSP 2664
BDE .7863 BRA 1.2825 BC3 .0959 FSP -118

MID-COURSE EXECUTION ACCURACY
SGT 960.2 SGR 459.2 SG3 52.5
RRT .0396 RRF -.0387 RTF -.7112
SGB 1064.4 R23 -.0022 R13 -.7113
SG1 960.4 SG2 458.7 THA 1.41

ORBIT DETERMINATION ACCURACY
ST 458.5 SR 403.4 SS 426.9
CRT -.7229 CRS -.8379 CST .9816
LSA 708.8 MSA 229.4 SSA 14.9
EL1 567.7 EL2 225.1 ALF 140.03

LAUNCH DATE MAY 30 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 18 1967

HELIOCENTRIC CONIC DISTANCE 177.959

RL 151.64 LAL .00 LOL 247.92 VL 22.291 GAL 7.02 AZL 93.17 HCA 69.12 SMA 105.88 ECC .44607 INC 3.1666 V1 29.380
RP 108.94 LAP -2.96 LOP 317.01 VP 34.395 GAP -26.44 AZP 91.13 TAL 171.11 TAP 240.23 RCA 58.65 APO 153.11 V2 34.785
RC 46.068 GL -9.03 GP 1.04 ZAL 71.70 ZAP 14.66 ETS 184.86 ZAE 164.54 ETE 132.89 ZAC 112.67 ETC 16.76 CLP 14.62

PLANETOCENTRIC CONIC

C3 60.595 VHL 7.784 DLA -6.88 RAL 173.15 RAD 6569.1 VEL 13.489 PTH 2.47 VHP 15.807 DPA 14.93 RAP 155.24 ECC 1.9972

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 18 0	2275.01	-20.99	45.35	51.48	109.46	7 55 55	1675.0	-18.14	37.83
90.00	17 32 50	5348.62	27.67	243.85	56.95	83.75	19 1 59	4748.6	26.52	235.37
100.00	8 36 4	2023.19	-22.36	26.30	50.94	110.38	9 9 47	1423.2	-19.38	18.76
100.00	18 57 28	5075.66	29.12	223.58	56.76	82.94	20 22 4	4475.7	27.84	215.01
110.00	9 36 48	1833.03	-26.03	10.27	49.34	112.99	10 7 21	1233.0	-22.68	2.70
110.00	20 13 13	4838.59	33.03	204.92	56.10	80.64	21 33 52	4238.6	31.38	196.08

DIFFERENTIAL CORRECTIONS
TDE .5410 TRA-1.2330 TC3 -.0650 BAU .0764
RDE -.5409 RRA -.2769 RC3 .0683 FAU .01766
FDE -.4110 FRA .5966 FC3 -.2523 BSP 2834
BDE .7650 BRA 1.2637 BC3 .0943 FSP -132

MID-COURSE EXECUTION ACCURACY
SGT 1002.2 SGR 460.4 SG3 57.4
RRT .0398 RRF -.0397 RTF -.7285
SGB 1102.9 R23 -.0029 R13 -.7286
SG1 1002.4 SG2 459.9 THA 1.33

ORBIT DETERMINATION ACCURACY
ST 483.5 SR 402.9 SS 451.5
CRT -.7272 CRS -.8428 CST .9812
LSA 739.2 MSA 230.8 SSA 15.1
EL1 586.6 EL2 227.9 ALF 142.08

LAUNCH DATE MAY 30 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 20 1967

HELIOCENTRIC CONIC DISTANCE 184.460

RL 151.64 LAL .00 LOL 247.92 VL 22.689 GAL 6.65 AZL 93.20 HCA 72.28 SMA 107.41 ECC .42508 INC 3.1976 V1 29.380
RP 108.93 LAP -3.05 LOP 320.17 VP 34.656 GAP -25.14 AZP 90.97 TAL 170.85 TAP 243.13 RCA 61.75 APO 153.07 V2 34.787
RC 45.125 GL -9.82 GP 1.09 ZAL 71.47 ZAP 13.14 ETS 185.46 ZAE 165.73 ETE 124.48 ZAC 111.09 ETC 16.48 CLP 13.09

PLANETOCENTRIC CONIC

C3 54.377 VHL 7.374 DLA -7.71 RAL 173.09 RAD 6569.0 VEL 13.257 PTH 2.42 VHP 15.082 DPA 14.41 RAP 156.84 ECC 1.8949

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 24 11	2222.09	-19.75	41.96	49.41	110.71	8 1 13	1622.1	-16.76	34.56
90.00	17 26 11	5348.46	27.67	243.84	55.27	83.75	18 55 20	4748.5	26.52	235.36
100.00	8 41 49	1971.64	-21.10	22.98	48.86	111.68	9 14 40	1371.6	-17.97	15.59
100.00	18 51 14	5074.15	29.11	223.47	55.08	82.88	20 15 48	4474.1	27.82	214.91
110.00	9 41 35	1784.46	-24.70	7.12	47.19	114.42	10 11 20	1184.5	-21.19	359.73
110.00	20 7 57	4834.09	32.98	204.58	54.42	80.45	21 28 31	4234.1	31.31	195.76

DIFFERENTIAL CORRECTIONS
TDE .5430 TRA-1.2166 TC3 -.0521 BAU .0677
RDE -.5105 RRA -.2615 RC3 .0772 FAU .01832
FDE -.4334 FRA .6115 FC3 -.2916 BSP 2999
BDE .7453 BRA 1.2444 BC3 .0932 FSP -147

MID-COURSE EXECUTION ACCURACY
SGT 1045.9 SGR 460.8 SG3 62.8
RRT .0404 RRF -.0409 RTF -.7451
SGB 1142.9 R23 -.0036 R13 -.7451
SG1 1046.1 SG2 460.3 THA 1.27

ORBIT DETERMINATION ACCURACY
ST 509.8 SR 401.4 SS 477.5
CRT -.7318 CRS -.8477 CST .9808
LSA 771.5 MSA 231.5 SSA 15.3
EL1 606.8 EL2 229.8 ALF 144.13

LAUNCH DATE MAY 30 1967 FLIGHT TIME 84.00 ARRIVAL DATE AUG 22 1967

HELIOCENTRIC CONIC DISTANCE 191.002

RL 151.64 LAL .00 LOL 247.92 VL 23.058 GAL 6.27 AZL 93.23 HCA 75.44 SMA 108.90 ECC .40514 INC 3.2275 V1 29.380
RP 108.93 LAP -3.12 LOP 323.34 VP 34.902 GAP -23.90 AZP 90.81 TAL 170.63 TAP 246.07 RCA 64.78 APO 153.02 V2 34.790
RC 44.335 GL -10.64 GP 1.15 ZAL 71.33 ZAP 11.62 ETS 186.26 ZAE 166.65 ETE 114.37 ZAC 109.51 ETC 16.21 CLP 11.56

PLANETOCENTRIC CONIC

C3 48.857 VHL 6.990 DLA -8.53 RAL 172.92 RAD 6568.8 VEL 13.047 PTH 2.38 VHP 14.384 DPA 13.87 RAP 158.43 ECC 1.8041

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 30 0	2168.91	-18.43	38.61	47.30	111.88	8 6 9	1568.9	-15.30	31.33
90.00	17 19 3	5348.45	27.67	243.83	53.48	83.75	18 48 11	4748.4	26.52	235.36
100.00	8 47 12	1919.86	-19.76	19.72	46.73	112.90	9 19 12	1319.9	-16.49	12.45
100.00	18 44 32	5072.74	29.10	223.37	53.29	82.83	20 9 5	4472.7	27.80	214.80
110.00	9 46 1	1735.73	-23.29	4.03	45.01	115.76	10 14 56	1135.7	-19.63	356.80
110.00	20 2 13	4829.63	32.93	204.24	52.62	80.25	21 22 43	4229.6	31.23	195.43

DIFFERENTIAL CORRECTIONS
TDE .5454 TRA-1.1988 TC3 -.0354 BAU .0613
RDE -.4810 RRA -.2464 RC3 .0869 FAU .01905
FDE -.4576 FRA .6262 FC3 -.3376 BSP 3170
BDE .7272 BRA 1.2238 BC3 .0939 FSP -163

MID-COURSE EXECUTION ACCURACY
SGT 1090.7 SGR 460.4 SG3 68.7
RRT .0411 RRF -.0422 RTF -.7607
SGB 1183.9 R23 -.0042 R13 -.7608
SG1 1090.9 SG2 459.9 THA 1.21

ORBIT DETERMINATION ACCURACY
ST 537.4 SR 399.0 SS 505.1
CRT -.7370 CRS -.8529 CST .9804
LSA 805.8 MSA 231.4 SSA 15.5
EL1 628.3 EL2 230.7 ALF 146.14

LAUNCH DATE MAY 30 1967 FLIGHT TIME 86.00 ARRIVAL DATE AUG 24 1967

HELIOCENTRIC CONIC DISTANCE 197.580

```
RL  151.64 LAL    .00 LOL 247.92 VL  23.401 GAL   5.90 AZL  93.26 HCA  78.60 SMA 110.35 ECC .38624 INC 3.2565 V1  29.380
RP  108.92 LAP  -3.19 LOP 326.50 VP  35.132 GAP -22.71 AZP  90.64 TAL 170.46 TAP 249.06 RCA  67.73 APO 152.97 V2  34.793
RC   43.707 GL  -11.50 GP    1.21 ZAL  71.30 ZAP  10.09 ETS 187.37 ZAE 167.16 ETE 102.75 ZAC 107.93 ETC  15.96 CLP  10.02
```

PLANETOCENTRIC CONIC

```
C3  43.960 VHL  6.630 DLA  -9.36 RAL 172.65 RAD 6568.7 VEL 12.858 PTH   2.34 VHP 13.712 DPA  13.34 RAP 160.00 ECC 1.7235
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 35 30	2115.61	-17.05	35.31	45.16	112.96	8 10 45	1515.6	-13.80	28.15
90.00	17 11 24	5348.77	27.68	243.86	51.59	83.76	18 40 33	4748.8	26.52	235.38
100.00	8 52 15	1867.99	-18.35	16.51	44.57	114.02	9 23 23	1268.0	-14.95	9.37
100.00	18 37 20	5071.62	29.09	223.28	51.40	82.79	20 1 52	4471.6	27.78	214.72
110.00	9 50 3	1686.99	-21.81	1.02	42.81	116.99	10 18 10	1087.0	-18.02	353.94
110.00	19 56 1	4825.39	32.88	203.92	50.73	80.07	21 16 27	4225.4	31.16	195.12

DIFFERENTIAL CORRECTIONS

```
TDE  .5489 TRA-1.1791 TC3 -.0139 BAU  .0579
RDE -.4524 RRA -.2317 RC3  .0976 FAU .01988
FDE -.4841 FRA  .6406 FC3 -.3915 BSP   3350
BDE  .7113 BRA 1.2017 BC3  .0986 FSP   -182
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1136.6 SGR  459.1 SG3   75.3
RRT  .0417 RRF -.0436 RTF -.7758
SGB 1225.8 R23 -.0050 R13 -.7758
SG1 1136.8 SG2  458.6 THA   1.15
```

ORBIT DETERMINATION ACCURACY

```
ST   566.5 SR   395.7 SS   534.6
CRT -.7431 CRS -.8584 CST  .9802
LSA  842.6 MSA  230.4 SSA   15.7
EL1  651.6 EL2  230.2 ALF 148.13
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 88.00 ARRIVAL DATE AUG 26 1967

HELIOCENTRIC CONIC DISTANCE 204.189

```
RL  151.64 LAL    .00 LOL 247.92 VL  23.720 GAL   5.55 AZL  93.28 HCA  81.77 SMA 111.74 ECC .36836 INC 3.2849 V1  29.380
RP  108.90 LAP  -3.25 LOP 329.67 VP  35.349 GAP -21.57 AZP  90.47 TAL 170.34 TAP 252.10 RCA  70.58 APO 152.90 V2  34.797
RC   43.245 GL  -12.41 GP    1.27 ZAL  71.37 ZAP   8.57 ETS 188.96 ZAE 167.16 ETE  90.36 ZAC 106.35 ETC  15.72 CLP   8.47
```

PLANETOCENTRIC CONIC

```
C3  39.618 VHL  6.294 DLA -10.19 RAL 172.28 RAD 6568.5 VEL 12.688 PTH   2.30 VHP 13.065 DPA  12.81 RAP 161.57 ECC 1.6520
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 40 39	2062.33	-15.61	32.07	42.99	113.93	8 15 2	1462.3	-12.24	25.00
90.00	17 3 14	5349.60	27.68	243.92	49.60	83.79	18 32 24	4749.6	26.53	235.44
100.00	8 56 57	1816.19	-16.89	13.36	42.38	115.04	9 27 13	1216.2	-13.38	6.33
100.00	18 29 38	5070.97	29.08	223.24	49.41	82.76	19 54 9	4471.0	27.78	214.68
110.00	9 53 44	1638.39	-20.28	358.08	40.59	118.12	10 21 2	1038.4	-16.36	351.15
110.00	19 49 20	4821.54	32.83	203.63	48.75	79.90	21 9 42	4221.5	31.09	194.84

DIFFERENTIAL CORRECTIONS

```
TDE  .5530 TRA-1.1581 TC3  .0125 BAU  .0582
RDE -.4248 RRA -.2175 RC3  .1091 FAU .02079
FDE -.5132 FRA  .6550 FC3 -.4543 BSP   3524
BDE  .6974 BRA 1.1783 BC3  .1098 FSP   -202
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1183.6 SGR  457.0 SG3   82.5
RRT  .0424 RRF -.0452 RTF -.7900
SGB 1268.8 R23 -.0059 R13 -.7900
SG1 1183.8 SG2  456.5 THA   1.10
```

ORBIT DETERMINATION ACCURACY

```
ST   597.2 SR   391.4 SS   566.1
CRT -.7498 CRS -.8640 CST  .9801
LSA  881.9 MSA  228.6 SSA   15.9
EL1  676.5 EL2  228.6 ALF 150.07
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 90.00 ARRIVAL DATE AUG 28 1967

HELIOCENTRIC CONIC DISTANCE 210.825

```
RL  151.64 LAL    .00 LOL 247.92 VL  24.015 GAL   5.20 AZL  93.31 HCA  84.93 SMA 113.08 ECC .35149 INC 3.3129 V1  29.380
RP  108.89 LAP  -3.30 LOP 332.84 VP  35.552 GAP -20.47 AZP  90.29 TAL 170.26 TAP 255.20 RCA  73.33 APO 152.83 V2  34.801
RC   42.956 GL  -13.36 GP    1.34 ZAL  71.55 ZAP   7.04 ETS 191.35 ZAE 166.62 ETE  78.27 ZAC 104.79 ETC  15.49 CLP   6.91
```

PLANETOCENTRIC CONIC

```
C3  35.773 VHL  5.981 DLA -11.02 RAL 171.79 RAD 6568.4 VEL 12.536 PTH   2.27 VHP 12.441 DPA  12.28 RAP 163.12 ECC 1.5887
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 45 29	2009.21	-14.11	28.88	40.79	114.81	8 18 58	1409.2	-10.65	21.91
90.00	16 54 33	5351.12	27.69	244.03	47.54	83.84	18 23 44	4751.1	26.55	235.55
100.00	9 1 18	1764.60	-15.38	10.28	40.17	115.95	9 30 43	1164.6	-11.76	3.35
100.00	18 21 25	5070.96	29.08	223.24	47.35	82.76	19 45 56	4471.0	27.78	214.68
110.00	9 57 2	1590.09	-18.71	355.22	38.35	119.15	10 23 32	990.1	-14.68	348.42
110.00	19 42 10	4818.24	32.79	203.38	46.69	79.76	21 2 29	4218.2	31.03	194.60

DIFFERENTIAL CORRECTIONS

```
TDE  .5581 TRA-1.1357 TC3  .0448 BAU  .0619
RDE -.3982 RRA -.2038 RC3  .1215 FAU .02181
FDE -.5452 FRA  .6693 FC3 -.5278 BSP   3709
BDE  .6855 BRA 1.1538 BC3  .1295 FSP   -225
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1231.7 SGR  454.1 SG3   90.5
RRT  .0434 RRF -.0472 RTF -.8035
SGB 1312.7 R23 -.0068 R13 -.8035
SG1 1231.9 SG2  453.6 THA   1.06
```

ORBIT DETERMINATION ACCURACY

```
ST   629.6 SR   386.1 SS   599.9
CRT -.7572 CRS -.8698 CST  .9801
LSA  924.1 MSA  226.1 SSA   16.1
EL1  703.2 EL2  225.8 ALF 151.95
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 92.00 ARRIVAL DATE AUG 30 1967

HELIOCENTRIC CONIC DISTANCE 217.484

```
RL  151.64 LAL    .00 LOL 247.92 VL  24.289 GAL   4.86 AZL  93.34 HCA  88.10 SMA 114.37 ECC .33560 INC 3.3406 V1  29.380
RP  108.87 LAP  -3.34 LOP 336.01 VP  35.743 GAP -19.42 AZP  90.11 TAL 170.24 TAP 258.34 RCA  75.99 APO 152.75 V2  34.806
RC   42.841 GL  -14.35 GP    1.42 ZAL  71.83 ZAP   5.51 ETS 195.23 ZAE 165.58 ETE  67.42 ZAC 103.24 ETC  15.27 CLP   5.33
```

PLANETOCENTRIC CONIC

```
C3  32.372 VHL  5.690 DLA -11.84 RAL 171.20 RAD 6568.3 VEL 12.399 PTH   2.24 VHP 11.840 DPA  11.76 RAP 164.65 ECC 1.5328
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 49 59	1956.41	-12.58	25.76	38.57	115.58	8 22 35	1356.4	-9.04	18.87
90.00	16 45 19	5353.50	27.71	244.20	45.41	83.93	18 14 32	4753.5	26.58	235.72
100.00	9 5 18	1713.39	-13.83	7.26	37.94	116.77	9 33 52	1113.4	-10.13	.43
100.00	18 12 40	5071.75	29.09	223.29	45.22	82.79	19 37 12	4471.8	27.79	214.73
110.00	9 59 57	1542.26	-17.10	352.44	36.11	120.06	10 25 39	942.3	-12.97	345.76
110.00	19 34 31	4815.65	32.76	203.19	44.56	79.65	20 54 47	4215.6	30.99	194.41

DIFFERENTIAL CORRECTIONS

```
TDE  .5637 TRA-1.1117 TC3  .0834 BAU  .0686
RDE -.3725 RRA -.1906 RC3  .1348 FAU .02295
FDE -.5805 FRA  .6835 FC3 -.6136 BSP   3893
BDE  .6756 BRA 1.1279 BC3  .1585 FSP   -250
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1280.5 SGR  450.2 SG3   99.4
RRT  .0450 RRF -.0497 RTF -.8162
SGB 1357.3 R23 -.0078 R13 -.8162
SG1 1280.6 SG2  449.7 THA   1.03
```

ORBIT DETERMINATION ACCURACY

```
ST   663.3 SR   379.7 SS   636.1
CRT -.7652 CRS -.8757 CST  .9802
LSA  968.9 MSA  222.9 SSA   16.3
EL1  731.4 EL2  221.7 ALF 153.75
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 1 1967

DISTANCE 224.162

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 24.542 GAL 4.53 AZL 93.37 HCA 91.26 SMA 115.60 ECC .32066 INC 3.3682 V1 29.380
RP 108.86 LAP -3.37 LOP 339.18 VP 35.921 GAP -18.41 AZP 89.93 TAL 170.27 TAP 261.53 RCA 78.53 APO 152.67 V2 34.812
RC 42.900 GL -15.38 GP 1.51 ZAL 72.20 ZAP 4.02 ETS 202.31 ZAE 164.16 ETE 58.25 ZAC 101.71 ETC 15.07 CLP 3.72

PLANETOCENTRIC CONIC
C3 29.366 VHL 5.419 DLA -12.67 RAL 170.49 RAD 6568.2 VEL 12.278 PTH 2.21 VHP 11.261 DPA 11.24 RAP 166.15 ECC 1.4833

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 54 9	1904.08	-11.03	22.70	36.34	116.25	8 25 53	1304.1	-7.41	15.89
90.00	16 35 32	5356.89	27.73	244.44	43.22	84.05	18 4 49	4756.9	26.62	235.96
100.00	9 8 58	1662.71	-12.26	4.32	35.71	117.48	9 36 41	1062.7	-8.48	357.57
100.00	18 3 25	5073.49	29.10	223.42	43.04	82.86	19 27 58	4473.5	27.81	214.86
110.00	10 2 30	1495.07	-15.47	349.76	33.86	120.87	10 27 25	895.1	-11.26	343.18
110.00	19 26 22	4813.89	32.74	203.05	42.38	79.57	20 46 36	4213.9	30.96	194.29

DIFFERENTIAL CORRECTIONS
TDE .5701 TRA-1.0867 TC3 .1283 BAU .0772
RDE -.3478 RRA -.1780 RC3 .1490 FAU .02421
FDE -.6198 FRA .6978 FC3 -.7138 BSP 4070
BDE .6678 BRA 1.1011 BC3 .1966 FSP -279

MID-COURSE EXECUTION ACCURACY
SGT 1330.2 SGR 445.6 SG3 109.3
RRT .0471 RRF -.0528 RTF -.8280
SGB 1402.8 R23 -.0089 R13 -.8281
SG1 1330.4 SG2 445.0 THA 1.02

ORBIT DETERMINATION ACCURACY
ST 698.7 SR 372.3 SS 675.1
CRT -.7735 CRS -.8816 CST .9803
LSA 1017.0 MSA 219.1 SSA 16.5
EL1 761.5 EL2 216.5 ALF 155.49

LAUNCH DATE MAY 30 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 3 1967

DISTANCE 230.854

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 24.777 GAL 4.21 AZL 93.40 HCA 94.43 SMA 116.78 ECC .30666 INC 3.3959 V1 29.380
RP 108.84 LAP -3.39 LOP 342.35 VP 36.088 GAP -17.44 AZP 89.74 TAL 170.35 TAP 264.78 RCA 80.97 APO 152.59 V2 34.819
RC 43.133 GL -16.45 GP 1.61 ZAL 72.68 ZAP 2.64 ETS 217.75 ZAE 162.49 ETE 50.78 ZAC 100.20 ETC 14.88 CLP 2.09

PLANETOCENTRIC CONIC
C3 26.714 VHL 5.169 DLA -13.48 RAL 169.69 RAD 6568.1 VEL 12.169 PTH 2.18 VHP 10.704 DPA 10.74 RAP 167.64 ECC 1.4397

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 58 1	1852.38	-9.45	19.72	34.11	116.82	8 28 53	1252.4	-5.78	12.96
90.00	16 25 14	5361.40	27.77	244.77	40.98	84.21	17 54 35	4761.4	26.67	236.28
100.00	9 12 18	1612.73	-10.67	1.46	33.47	118.09	9 39 10	1012.7	-6.83	354.77
100.00	17 53 38	5076.29	29.13	223.63	40.80	82.96	19 18 15	4476.3	27.85	215.06
110.00	10 4 40	1448.69	-13.83	347.16	31.62	121.58	10 28 49	848.7	-9.55	340.67
110.00	19 17 45	4813.09	32.73	202.99	40.16	79.54	20 37 58	4213.1	30.94	194.23

DIFFERENTIAL CORRECTIONS
TDE .5778 TRA-1.0595 TC3 .1811 BAU .0872
RDE -.3241 RRA -.1660 RC3 .1639 FAU .02564
FDE -.6638 FRA .7118 FC3 -.8308 BSP 4260
BDE .6625 BRA 1.0724 BC3 .2443 FSP -311

MID-COURSE EXECUTION ACCURACY
SGT 1379.9 SGR 440.0 SG3 120.3
RRT .0496 RRF -.0565 RTF -.8394
SGB 1448.4 R23 -.0102 R13 -.8394
SG1 1380.1 SG2 439.4 THA 1.01

ORBIT DETERMINATION ACCURACY
ST 735.9 SR 363.8 SS 717.2
CRT -.7827 CRS -.8877 CST .9807
LSA 1068.6 MSA 214.5 SSA 16.7
EL1 793.6 EL2 210.0 ALF 157.16

LAUNCH DATE MAY 30 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 5 1967

DISTANCE 237.558

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 24.994 GAL 3.91 AZL 93.42 HCA 97.60 SMA 117.90 ECC .29356 INC 3.4238 V1 29.380
RP 108.81 LAP -3.39 LOP 345.53 VP 36.245 GAP -16.51 AZP 89.55 TAL 170.48 TAP 268.08 RCA 83.29 APO 152.51 V2 34.826
RC 43.534 GL -17.55 GP 1.72 ZAL 73.26 ZAP 1.78 ETS 256.07 ZAE 160.67 ETE 44.76 ZAC 98.72 ETC 14.70 CLP .43

PLANETOCENTRIC CONIC
C3 24.379 VHL 4.938 DLA -14.30 RAL 168.78 RAD 6568.0 VEL 12.073 PTH 2.16 VHP 10.168 DPA 10.25 RAP 169.09 ECC 1.4012

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 1 34	1801.45	-7.88	16.81	31.88	117.29	8 31 36	1201.5	-4.16	10.10
90.00	16 14 24	5367.16	27.81	245.19	38.70	84.41	17 43 51	4767.2	26.74	236.68
100.00	9 15 17	1563.59	-9.08	358.68	31.23	118.60	9 41 21	963.6	-5.19	352.05
100.00	17 43 22	5080.25	29.16	223.92	38.54	83.11	19 8 2	4480.3	27.90	215.34
110.00	10 6 28	1403.28	-12.20	344.65	29.37	122.18	10 29 52	803.3	-7.86	338.24
110.00	19 8 41	4813.33	32.73	203.01	37.90	79.55	20 28 54	4213.3	30.95	194.25

DIFFERENTIAL CORRECTIONS
TDE .5859 TRA-1.0313 TC3 .2406 BAU .0978
RDE -.3014 RRA -.1546 RC3 .1795 FAU .02723
FDE -.7129 FRA .7258 FC3 -.9669 BSP 4444
BDE .6588 BRA 1.0428 BC3 .3002 FSP -347

MID-COURSE EXECUTION ACCURACY
SGT 1429.6 SGR 433.6 SG3 132.5
RRT .0533 RRF -.0615 RTF -.8497
SGB 1493.9 R23 -.0116 R13 -.8498
SG1 1429.8 SG2 432.9 THA 1.02

ORBIT DETERMINATION ACCURACY
ST 774.3 SR 354.2 SS 762.4
CRT -.7919 CRS -.8937 CST .9810
LSA 1123.4 MSA 209.6 SSA 16.8
EL1 827.0 EL2 202.5 ALF 158.75

LAUNCH DATE MAY 30 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 7 1967

DISTANCE 244.270

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 25.194 GAL 3.62 AZL 93.45 HCA 100.76 SMA 118.96 ECC .28133 INC 3.4522 V1 29.380
RP 108.79 LAP -3.39 LOP 348.70 VP 36.390 GAP -15.60 AZP 89.35 TAL 170.66 TAP 271.42 RCA 85.50 APO 152.43 V2 34.834
RC 44.099 GL -18.69 GP 1.85 ZAL 73.93 ZAP 2.24 ETS 304.49 ZAE 158.81 ETE 39.94 ZAC 97.26 ETC 14.53 CLP -1.27

PLANETOCENTRIC CONIC
C3 22.326 VHL 4.725 DLA -15.10 RAL 167.77 RAD 6567.9 VEL 11.988 PTH 2.14 VHP 9.652 DPA 9.79 RAP 170.51 ECC 1.3674

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 4 50	1751.44	-6.31	13.97	29.65	117.66	8 34 1	1151.4	-2.55	7.30
90.00	16 3 5	5374.23	27.85	245.70	36.41	84.67	17 32 39	4774.2	26.82	237.19
100.00	9 17 58	1515.46	-7.50	355.98	29.01	119.02	9 43 14	915.5	-3.57	349.39
100.00	17 32 38	5085.45	29.20	224.30	36.25	83.31	18 57 23	4485.5	27.97	215.71
110.00	10 7 55	1359.00	-10.58	342.24	27.14	122.70	10 30 34	759.0	-6.20	335.90
110.00	18 59 10	4814.68	32.75	203.11	35.62	79.61	20 19 25	4214.7	30.97	194.34

DIFFERENTIAL CORRECTIONS
TDE .5954 TRA-1.0013 TC3 .3081 BAU .1089
RDE -.2796 RRA -.1439 RC3 .1957 FAU .02900
FDE -.7679 FRA .7401 FC3-1.1245 BSP 4622
BDE .6578 BRA 1.0116 BC3 .3650 FSP -387

MID-COURSE EXECUTION ACCURACY
SGT 1479.1 SGR 426.4 SG3 146.1
RRT .0578 RRF -.0678 RTF -.8598
SGB 1539.3 R23 -.0137 R13 -.8598
SG1 1479.3 SG2 425.6 THA 1.04

ORBIT DETERMINATION ACCURACY
ST 814.7 SR 343.4 SS 811.0
CRT -.8017 CRS -.8995 CST .9817
LSA 1182.1 MSA 204.1 SSA 16.9
EL1 862.6 EL2 193.9 ALF 160.30

LAUNCH DATE MAY 30 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 9 1967

HELIOCENTRIC CONIC DISTANCE 250.986

```
RL  151.64 LAL    .00 LOL 247.92 VL  25.379 GAL   3.34 AZL  93.48 HCA 103.94 SMA 119.97 ECC .26995 INC 3.4811 V1  29.380
RP  108.76 LAP  -3.38 LOP 351.88 VP  36.527 GAP -14.74 AZP  89.16 TAL 170.88 TAP 274.81 RCA  87.58 APO 152.35 V2  34.842
RC  44.820 GL  -19.85 GP    1.99 ZAL  74.68 ZAP   3.61 ETS 326.51 ZAE 156.96 ETE  36.05 ZAC  95.85 ETC  14.37 CLP  -3.02
```

PLANETOCENTRIC CONIC

```
C3  20.525 VHL  4.530 DLA -15.90 RAL 166.66 RAD 6567.8 VEL 11.912 PTH   2.12 VHP  9.155 DPA   9.35 RAP 171.89 ECC 1.3378
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 7 49	1702.49	-4.75	11.22	27.44	117.95	8 36 12	1102.5	-.97	4.57
90.00	15 51 17	5382.68	27.90	246.31	34.10	84.97	17 21 0	4782.7	26.91	237.79
100.00	9 20 21	1468.47	-5.94	353.36	26.79	119.35	9 44 49	868.5	-1.99	346.81
100.00	17 21 27	5091.94	29.25	224.77	33.95	83.55	18 46 19	4491.9	28.05	216.18
110.00	10 9 1	1315.99	-8.99	339.93	24.92	123.12	10 30 57	716.0	-4.57	333.63
110.00	18 49 16	4817.18	32.78	203.30	33.34	79.71	20 9 33	4217.2	31.01	194.53

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .6049 TRA -.9713 TC3  .3829 BAU  .1202   SGT 1528.7 SGR  418.3 SG3  161.4     ST   855.6 SR   331.3 SS   863.6
 RDE -.2586 RRA -.1339 RC3  .2124 FAU .03100   RRT  .0650 RRF -.0760 RTF -.8688     CRT -.8108 CRS -.9051 CST  .9822
 FDE -.8301 FRA  .7544 FC3-1.3075 BSP   4791   SGB 1584.9 R23 -.0151 R13 -.8689     LSA 1244.1 MSA  198.8 SSA   17.0
 BDE  .6578 BRA  .9805 BC3  .4379 FSP   -432   SG1 1528.9 SG2  417.4 THA   1.10     EL1  898.8 EL2  184.6 ALF 161.77
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 11 1967

HELIOCENTRIC CONIC DISTANCE 257.704

```
RL  151.64 LAL    .00 LOL 247.92 VL  25.549 GAL   3.08 AZL  93.51 HCA 107.11 SMA 120.92 ECC .25938 INC 3.5109 V1  29.380
RP  108.74 LAP  -3.36 LOP 355.06 VP  36.653 GAP -13.90 AZP  88.97 TAL 171.14 TAP 278.25 RCA  89.55 APO 152.28 V2  34.851
RC  45.690 GL  -21.03 GP    2.15 ZAL  75.51 ZAP   5.27 ETS 335.81 ZAE 155.19 ETE  32.90 ZAC  94.48 ETC  14.23 CLP  -4.82
```

PLANETOCENTRIC CONIC

```
C3  18.950 VHL  4.353 DLA -16.68 RAL 165.47 RAD 6567.8 VEL 11.846 PTH   2.10 VHP  8.678 DPA   8.95 RAP 173.23 ECC 1.3119
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 10 33	1654.72	-3.22	8.54	25.25	118.15	8 38 8	1054.7	.57	1.91
90.00	15 39 4	5392.54	27.96	247.03	31.79	85.32	17 8 57	4792.5	27.02	238.49
100.00	9 22 27	1422.75	-4.41	350.83	24.59	119.60	9 46 9	822.8	-.44	344.30
100.00	17 9 52	5099.73	29.31	225.34	31.65	83.85	18 34 52	4499.7	28.15	216.73
110.00	10 9 48	1274.39	-7.44	337.71	22.73	123.46	10 31 3	674.4	-2.98	331.45
110.00	18 39 0	4820.86	32.82	203.58	31.06	79.87	19 59 21	4220.9	31.08	194.79

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .6153 TRA -.9394 TC3  .4642 BAU  .1312   SGT 1576.4 SGR  409.5 SG3  178.5     ST   897.8 SR   318.0 SS   920.2
 RDE -.2384 RRA -.1246 RC3  .2296 FAU .03325   RRT  .0738 RRF -.0866 RTF -.8772     CRT -.8202 CRS -.9105 CST  .9828
 FDE -.9004 FRA  .7684 FC3-1.5193 BSP   4960   SGB 1628.7 R23 -.0173 R13 -.8773     LSA 1310.1 MSA  193.2 SSA   17.0
 BDE  .6599 BRA  .9476 BC3  .5179 FSP   -483   SG1 1576.7 SG2  408.3 THA   1.18     EL1  936.3 EL2  174.4 ALF 163.20
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 13 1967

HELIOCENTRIC CONIC DISTANCE 264.420

```
RL  151.64 LAL    .00 LOL 247.92 VL  25.706 GAL   2.82 AZL  93.54 HCA 110.28 SMA 121.81 ECC .24959 INC 3.5418 V1  29.380
RP  108.71 LAP  -3.32 LOP 358.23 VP  36.772 GAP -13.09 AZP  88.77 TAL 171.44 TAP 281.72 RCA  91.40 APO 152.21 V2  34.860
RC  46.700 GL  -22.23 GP    2.32 ZAL  76.41 ZAP   7.06 ETS 340.58 ZAE 153.55 ETE  30.33 ZAC  93.16 ETC  14.09 CLP  -6.67
```

PLANETOCENTRIC CONIC

```
C3  17.575 VHL  4.192 DLA -17.45 RAL 164.21 RAD 6567.7 VEL 11.788 PTH   2.08 VHP  8.219 DPA   8.58 RAP 174.52 ECC 1.2892
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 13 4	1608.20	-1.72	5.94	23.09	118.27	8 39 52	1008.2	2.07	359.31
90.00	15 26 28	5403.81	28.02	247.85	29.50	85.73	16 56 32	4803.8	27.13	239.29
100.00	9 24 17	1378.42	-2.91	348.39	22.43	119.76	9 47 16	778.4	1.07	341.87
100.00	16 57 56	5108.85	29.37	226.01	29.37	84.20	18 23 5	4508.8	28.26	217.39
110.00	10 10 17	1234.31	-5.93	335.59	20.56	123.73	10 30 51	634.3	-1.45	329.36
110.00	18 28 26	4825.72	32.88	203.95	28.80	80.08	19 48 52	4225.7	31.16	195.15

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .6262 TRA -.9063 TC3  .5505 BAU  .1418   SGT 1622.1 SGR  400.0 SG3  197.7     ST   940.4 SR   303.3 SS   981.2
 RDE -.2189 RRA -.1159 RC3  .2471 FAU .03578   RRT  .0852 RRF -.1002 RTF -.8849     CRT -.8292 CRS -.9153 CST  .9835
 FDE -.9800 FRA  .7827 FC3-1.7624 BSP   5123   SGB 1670.7 R23 -.0201 R13 -.8850     LSA 1379.7 MSA  187.7 SSA   17.0
 BDE  .6634 BRA  .9137 BC3  .6034 FSP   -540   SG1 1622.5 SG2  398.4 THA   1.28     EL1  974.5 EL2  163.6 ALF 164.58
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 15 1967

HELIOCENTRIC CONIC DISTANCE 271.134

```
RL  151.64 LAL    .00 LOL 247.92 VL  25.849 GAL   2.59 AZL  93.57 HCA 113.46 SMA 122.64 ECC .24055 INC 3.5739 V1  29.380
RP  108.68 LAP  -3.28 LOP   1.42 VP  36.881 GAP -12.31 AZP  88.58 TAL 171.77 TAP 285.23 RCA  93.14 APO 152.14 V2  34.870
RC  47.841 GL  -23.44 GP    2.53 ZAL  77.37 ZAP   8.96 ETS 343.37 ZAE 152.05 ETE  28.26 ZAC  91.90 ETC  13.95 CLP  -8.60
```

PLANETOCENTRIC CONIC

```
C3  16.380 VHL  4.047 DLA -18.19 RAL 162.88 RAD 6567.7 VEL 11.737 PTH   2.07 VHP  7.778 DPA   8.26 RAP 175.76 ECC 1.2696
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 15 24	1563.08	-.27	3.42	20.97	118.32	8 41 27	963.1	3.52	356.79
90.00	15 13 32	5416.52	28.08	248.77	27.24	86.19	16 43 49	4816.5	27.26	240.20
100.00	9 25 54	1335.55	-1.46	346.03	20.30	119.86	9 48 10	735.6	2.52	339.51
100.00	16 45 43	5119.28	29.44	226.78	27.11	84.60	18 11 2	4519.3	28.38	218.14
110.00	10 10 30	1195.85	-4.47	333.57	18.43	123.93	10 30 26	595.8	.02	327.35
110.00	18 17 37	4831.75	32.95	204.40	26.57	80.35	19 38 9	4231.7	31.27	195.58

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .6378 TRA -.8725 TC3  .6425 BAU  .1522   SGT 1666.1 SGR  389.8 SG3  219.3     ST   983.6 SR   287.1 SS  1047.1
 RDE -.1999 RRA -.1080 RC3  .2649 FAU .03864   RRT  .1006 RRF -.1179 RTF -.8922     CRT -.8375 CRS -.9197 CST  .9843
 FDE-1.0709 FRA  .7972 FC3-2.0421 BSP   5286   SGB 1711.1 R23 -.0232 R13 -.8923     LSA 1453.6 MSA  182.3 SSA   16.9
 BDE  .6683 BRA  .8791 BC3  .6949 FSP   -606   SG1 1666.6 SG2  387.7 THA   1.43     EL1 1013.3 EL2  152.3 ALF 165.94
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 17 1967

HELIOCENTRIC CONIC DISTANCE 277.841

RL 151.64 LAL .00 LOL 247.92 VL 25.981 GAL 2.36 AZL 93.61 HCA 116.64 SMA 123.42 ECC .23222 INC 3.6077 V1 29.380
RP 108.64 LAP -3.22 LOP 4.60 VP 36.984 GAP -11.56 AZP 88.38 TAL 172.13 TAP 288.77 RCA 94.76 APO 152.08 V2 34.881
RC 49.103 GL -24.64 GP 2.76 ZAL 78.37 ZAP 10.95 ETS 345.14 ZAE 150.74 ETE 26.58 ZAC 90.70 ETC 13.83 CLP -10.60

PLANETOCENTRIC CONIC

C3 15.345 VHL 3.917 DLA -18.93 RAL 161.50 RAO 6567.6 VEL 11.693 PTH 2.06 VHP 7.356 DPA 8.00 RAP 176.94 ECC 1.2525

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 17 35	1519.34	1.14	.98	18.89	118.30	8 42 54	919.3	4.92	354.34
90.00	15 0 20	5430.66	28.14	249.80	25.02	86.70	16 30 51	4830.7	27.39	241.22
100.00	9 27 21	1294.21	-.06	343.77	18.22	119.89	9 48 55	694.2	3.92	337.24
100.00	16 33 15	5131.02	29.52	227.65	24.90	85.05	17 58 46	4531.0	28.52	218.99
110.00	10 10 29	1159.06	-3.07	331.64	16.35	124.06	10 29 48	559.1	1.42	325.44
110.00	18 6 37	4838.93	33.03	204.95	24.39	80.66	19 27 16	4238.9	31.39	196.11

DIFFERENTIAL CORRECTIONS
TOE .6490 TRA -.8376 TC3 .7357 BAU .1617
ROE -.1813 RRA -.1008 RC3 .2830 FAU .04185
FOE-1.1739 FRA .8116 FC3-2.3611 BSP 5427
BOE .6738 BRA .8436 BC3 .7883 FSP -679

MID-COURSE EXECUTION ACCURACY
SGT 1706.1 SGR 379.1 SG3 243.5
RRT .1207 RRF -.1409 RTF -.8987
SGB 1747.7 R23 -.0271 R13 -.8988
SG1 1706.7 SG2 376.2 THA 1.61

ORBIT DETERMINATION ACCURACY
ST 1025.8 SR 269.3 SS 1117.7
CRT -.8448 CRS -.9232 CST .9850
LSA 1530.5 MSA 177.3 SSA 16.7
EL1 1051.2 EL2 140.6 ALF 167.26

LAUNCH DATE MAY 30 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 19 1967

HELIOCENTRIC CONIC DISTANCE 284.541

RL 151.64 LAL .00 LOL 247.92 VL 26.101 GAL 2.15 AZL 93.64 HCA 119.81 SMA 124.14 ECC .22458 INC 3.6434 V1 29.380
RP 108.61 LAP -3.16 LOP 7.78 VP 37.078 GAP -10.84 AZP 88.19 TAL 172.52 TAP 292.33 RCA 96.26 APO 152.02 V2 34.891
RC 50.476 GL -25.85 GP 3.02 ZAL 79.40 ZAP 13.04 ETS 346.31 ZAE 149.62 ETE 25.25 ZAC 89.58 ETC 13.71 CLP -12.69

PLANETOCENTRIC CONIC

C3 14.453 VHL 3.802 DLA -19.64 RAL 160.08 RAO 6567.6 VEL 11.655 PTH 2.05 VHP 6.951 DPA 7.79 RAP 178.05 ECC 1.2379

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 19 42	1476.99	2.51	358.62	16.88	118.21	8 44 19	877.0	6.26	351.95
90.00	14 46 54	5446.25	28.20	250.94	22.85	87.27	16 17 40	4846.2	27.52	242.34
100.00	9 28 41	1254.41	1.29	341.58	16.20	119.87	9 49 35	654.4	5.25	335.04
100.00	16 20 37	5144.07	29.59	228.61	22.75	85.55	17 46 21	4544.1	28.66	219.93
110.00	10 10 18	1123.99	-1.73	329.81	14.32	124.14	10 29 2	524.0	2.76	323.60
110.00	17 55 29	4847.26	33.12	205.58	22.26	81.02	19 16 16	4247.3	31.53	196.72

DIFFERENTIAL CORRECTIONS
TOE .6601 TRA -.8027 TC3 .8289 BAU .1704
ROE -.1628 RRA -.0944 RC3 .3016 FAU .04547
FOE-1.2919 FRA .8269 FC3-2.7236 BSP 5558
BOE .6799 BRA .8082 BC3 .8821 FSP -763

MID-COURSE EXECUTION ACCURACY
SGT 1742.6 SGR 368.2 SG3 270.9
RRT .1471 RRF -.1706 RTF -.9045
SGB 1781.1 R23 -.0319 R13 -.9047
SG1 1743.5 SG2 364.0 THA 1.86

ORBIT DETERMINATION ACCURACY
ST 1067.1 SR 249.6 SS 1193.9
CRT -.8505 CRS -.9256 CST .9858
LSA 1611.3 MSA 172.8 SSA 16.4
EL1 1088.3 EL2 128.7 ALF 168.59

LAUNCH DATE MAY 30 1967 FLIGHT TIME 114.00 ARRIVAL DATE SEP 21 1967

HELIOCENTRIC CONIC DISTANCE 291.230

RL 151.64 LAL .00 LOL 247.92 VL 26.211 GAL 1.96 AZL 93.68 HCA 123.00 SMA 124.81 ECC .21759 INC 3.6815 V1 29.380
RP 108.58 LAP -3.09 LOP 10.97 VP 37.166 GAP -10.13 AZP 87.99 TAL 172.92 TAP 295.92 RCA 97.65 APO 151.97 V2 34.903
RC 51.950 GL -27.04 GP 3.32 ZAL 80.45 ZAP 15.24 ETS 347.12 ZAE 148.71 ETE 24.24 ZAC 88.55 ETC 13.59 CLP -14.88

PLANETOCENTRIC CONIC

C3 13.689 VHL 3.700 DLA -20.33 RAL 158.64 RAO 6567.5 VEL 11.622 PTH 2.04 VHP 6.564 DPA 7.67 RAP 179.09 ECC 1.2253

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 21 49	1435.99	3.83	356.33	14.95	118.08	8 45 45	836.0	7.55	349.63
90.00	14 33 17	5463.34	28.25	252.19	20.76	87.89	16 4 20	4863.3	27.65	243.57
100.00	9 29 57	1216.11	2.59	339.48	14.26	119.79	9 50 13	616.1	6.53	332.91
100.00	16 7 50	5158.45	29.66	229.67	20.67	86.10	17 33 49	4558.4	28.80	220.97
110.00	10 9 59	1090.60	-.45	328.07	12.36	124.18	10 28 10	490.6	4.04	321.86
110.00	17 44 17	4856.72	33.22	206.30	20.22	81.44	19 5 13	4256.7	31.68	197.41

DIFFERENTIAL CORRECTIONS
TOE .6728 TRA -.7646 TC3 .9275 BAU .1796
ROE -.1442 RRA -.0886 RC3 .3211 FAU .04967
FOE-1.4285 FRA .8400 FC3-3.1414 BSP 5723
BOE .6881 BRA .7697 BC3 .9815 FSP -862

MID-COURSE EXECUTION ACCURACY
SGT 1775.1 SGR 357.4 SG3 302.0
RRT .1815 RRF -.2090 RTF -.9108
SGB 1810.8 R23 -.0376 R13 -.9111
SG1 1776.4 SG2 351.2 THA 2.18

ORBIT DETERMINATION ACCURACY
ST 1108.8 SR 227.7 SS 1277.1
CRT -.8551 CRS -.9268 CST .9867
LSA 1698.2 MSA 167.9 SSA 16.0
EL1 1126.0 EL2 116.3 ALF 169.93

LAUNCH DATE MAY 30 1967 FLIGHT TIME 116.00 ARRIVAL DATE SEP 23 1967

HELIOCENTRIC CONIC DISTANCE 297.909

RL 151.64 LAL .00 LOL 247.92 VL 26.311 GAL 1.78 AZL 93.72 HCA 126.18 SMA 125.43 ECC .21121 INC 3.7225 V1 29.380
RP 108.54 LAP -3.00 LOP 14.15 VP 37.247 GAP -9.45 AZP 87.80 TAL 173.33 TAP 299.51 RCA 98.94 APO 151.92 V2 34.914
RC 53.515 GL -28.22 GP 3.68 ZAL 81.49 ZAP 17.56 ETS 347.66 ZAE 148.03 ETE 23.53 ZAC 87.61 ETC 13.48 CLP -17.18

PLANETOCENTRIC CONIC

C3 13.039 VHL 3.611 DLA -21.00 RAL 157.19 RAO 6567.5 VEL 11.594 PTH 2.03 VHP 6.194 DPA 7.63 RAP 180.04 ECC 1.2146

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 24 1	1396.17	5.10	354.09	13.10	117.89	8 47 17	796.2	8.79	347.36
90.00	14 19 31	5482.04	28.28	253.55	18.75	88.58	15 50 53	4882.0	27.79	244.92
100.00	9 31 15	1179.19	3.83	337.45	12.40	119.67	9 50 54	579.2	7.75	330.85
100.00	15 54 58	5174.24	29.73	230.84	18.68	86.71	17 21 12	4574.2	28.96	222.12
110.00	10 9 39	1058.83	.76	326.41	10.49	124.18	10 27 18	458.8	5.24	320.19
110.00	17 33 3	4867.37	33.33	207.12	18.26	81.91	18 54 11	4267.4	31.85	198.20

DIFFERENTIAL CORRECTIONS
TOE .6818 TRA -.7288 TC3 1.0129 BAU .1863
ROE -.1252 RRA -.0836 RC3 .3417 FAU .05430
FOE-1.5827 FRA .8554 FC3-3.6052 BSP 5815
BOE .6932 BRA .7335 BC3 1.0690 FSP -970

MID-COURSE EXECUTION ACCURACY
SGT 1799.9 SGR 347.3 SG3 336.8
RRT .2265 RRF -.2585 RTF -.9152
SGB 1833.1 R23 -.0448 R13 -.9156
SG1 1801.7 SG2 337.9 THA 2.59

ORBIT DETERMINATION ACCURACY
ST 1144.1 SR 203.4 SS 1364.6
CRT -.8551 CRS -.9252 CST .9873
LSA 1784.8 MSA 164.5 SSA 15.6
EL1 1157.4 EL2 104.2 ALF 171.28

LAUNCH DATE MAY 30 1967 FLIGHT TIME 118.00 ARRIVAL DATE SEP 25 1967

HELIOCENTRIC CONIC DISTANCE 304.574

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.401 GAL   1.61 AZL  93.77 HCA 129.37 SMA 126.00 ECC .20542 INC 3.7670 V1  29.380
RP  108.50 LAP  -2.91 LOP  17.34 VP  37.328 GAP  -8.79 AZP  87.61 TAL 173.75 TAP 303.11 RCA 100.11 APO 151.88 V2  34.926
RC   55.163 GL  -29.38 GP    4.08 ZAL  82.52 ZAP  20.02 ETS 348.03 ZAE 147.58 ETE  23.12 ZAC  86.79 ETC  13.38 CLP -19.62
```

PLANETOCENTRIC CONIC

```
C3  12.492 VHL  3.534 DLA -21.66 RAL 155.75 RAD 6567.5 VEL 11.571 PTH   2.02 VHP  5.841 DPA   7.69 RAP 180.90 ECC 1.2056
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 26 27	1357.31	6.33	351.90	11.35	117.66	8 49 4	757.3	9.99	345.13
90.00	14 5 35	5502.52	28.31	255.05	16.84	89.33	15 37 18	4902.5	27.92	246.41
100.00	9 32 42	1143.50	5.03	335.48	10.64	119.50	9 51 45	543.5	8.92	328.85
100.00	15 42 1	5191.57	29.79	232.13	16.79	87.39	17 8 33	4591.6	29.11	223.39
110.00	10 9 22	1028.56	1.92	324.83	8.71	124.14	10 26 30	428.6	6.39	318.59
110.00	17 21 51	4879.27	33.44	208.03	16.41	82.44	18 43 10	4279.3	32.03	199.08

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .6899 TRA -.6918 TC3 1.0920 BAU  .1922    SGT 1817.4 SGR  338.6 SG3  376.3    ST  1175.8 SR   176.0 SS  1459.4
RDE -.1054 RRA -.0794 RC3  .3642 FAU .05958    RRT  .2840 RRF -.3213 RTF -.9193    CRT -.8499 CRS -.9197 CST  .9880
FDE-1.7607 FRA  .8697 FC3-4.1293 BSP   5897    SGB 1848.7 R23 -.0539 R13 -.9198    LSA 1875.4 MSA  161.4 SSA   15.0
BDE  .6979 BRA  .6964 BC3 1.1511 FSP  -1094    SG1 1820.1 SG2  324.2 THA   3.13    EL1 1185.4 EL2   92.0 ALF 172.71
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 120.00 ARRIVAL DATE SEP 27 1967

HELIOCENTRIC CONIC DISTANCE 311.226

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.483 GAL   1.46 AZL  93.82 HCA 132.55 SMA 126.52 ECC .20018 INC 3.8157 V1  29.380
RP  108.46 LAP  -2.81 LOP  20.53 VP  37.392 GAP  -8.16 AZP  87.42 TAL 174.16 TAP 306.72 RCA 101.19 APO 151.84 V2  34.938
RC   56.885 GL  -30.52 GP    4.56 ZAL  83.53 ZAP  22.64 ETS 348.26 ZAE 147.36 ETE  23.03 ZAC  86.08 ETC  13.28 CLP -22.19
```

PLANETOCENTRIC CONIC

```
C3  12.038 VHL  3.470 DLA -22.31 RAL 154.33 RAD 6567.5 VEL 11.551 PTH   2.02 VHP  5.506 DPA   7.88 RAP 181.66 ECC 1.1981
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 29 14	1319.07	7.53	349.74	9.73	117.38	8 51 13	719.1	11.14	342.92
90.00	13 51 28	5525.08	28.32	256.70	15.05	90.16	15 23 33	4925.1	28.04	248.05
100.00	9 34 24	1108.74	6.19	333.55	9.00	119.30	9 52 53	508.7	10.05	326.89
100.00	15 28 59	5210.64	29.84	233.54	15.02	88.13	16 55 50	4610.6	29.26	224.79
110.00	10 9 13	999.59	3.03	323.32	7.04	124.07	10 25 53	399.6	7.48	317.06
110.00	17 10 40	4892.56	33.55	209.05	14.68	83.03	18 32 12	4292.6	32.22	200.07

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .6952 TRA -.6565 TC3 1.1552 BAU  .1962    SGT 1825.8 SGR  332.8 SG3  420.6    ST  1200.8 SR   145.1 SS  1560.5
RDE -.0842 RRA -.0760 RC3  .3895 FAU .06547    RRT  .3554 RRF -.3990 RTF -.9222    CRT -.8329 CRS -.9055 CST  .9884
FDE-1.9645 FRA  .8866 FC3-4.7081 BSP   5923    SGB 1855.9 R23 -.0658 R13 -.9230    LSA 1967.9 MSA  159.4 SSA   14.3
BDE  .7002 BRA  .6609 BC3 1.2190 FSP  -1232    SG1 1829.8 SG2  310.4 THA   3.82    EL1 1206.9 EL2   79.9 ALF 174.23
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 122.00 ARRIVAL DATE SEP 29 1967

HELIOCENTRIC CONIC DISTANCE 317.862

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.557 GAL   1.32 AZL  93.87 HCA 135.74 SMA 126.99 ECC .19546 INC 3.8698 V1  29.380
RP  108.43 LAP  -2.70 LOP  23.73 VP  37.456 GAP  -7.54 AZP  87.23 TAL 174.57 TAP 310.31 RCA 102.17 APO 151.81 V2  34.951
RC   58.673 GL  -31.64 GP    5.13 ZAL  84.49 ZAP  25.43 ETS 348.38 ZAE 147.38 ETE  23.28 ZAC  85.51 ETC  13.18 CLP -24.94
```

PLANETOCENTRIC CONIC

```
C3  11.670 VHL  3.416 DLA -22.96 RAL 152.94 RAD 6567.4 VEL 11.535 PTH   2.01 VHP  5.189 DPA   8.21 RAP 182.31 ECC 1.1921
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 32 35	1280.94	8.72	347.56	8.24	117.05	8 53 56	680.9	12.28	340.69
90.00	13 37 5	5550.17	28.30	258.54	13.38	91.08	15 9 35	4950.2	28.15	249.88
100.00	9 36 32	1074.54	7.33	331.65	7.49	119.06	9 54 27	474.5	11.15	324.94
100.00	15 15 49	5231.80	29.88	235.12	13.38	88.96	16 43 1	4631.8	29.41	226.34
110.00	10 9 21	971.65	4.09	321.85	5.49	123.97	10 25 33	371.7	8.52	315.57
110.00	16 59 30	4907.45	33.67	210.20	13.09	83.70	18 21 17	4307.5	32.43	201.18

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .6985 TRA -.6194 TC3 1.2055 BAU  .1991    SGT 1823.2 SGR  331.9 SG3  470.6    ST  1219.7 SR   110.1 SS  1669.1
RDE -.0610 RRA -.0733 RC3  .4187 FAU .07214    RRT  .4405 RRF -.4913 RTF -.9249    CRT -.7890 CRS -.8692 CST  .9890
FDE-2.1992 FRA  .9012 FC3-5.3513 BSP   5949    SGB 1853.1 R23 -.0811 R13 -.9261    LSA 2064.2 MSA  157.2 SSA   13.6
BDE  .7012 BRA  .6238 BC3 1.2761 FSP  -1391    SG1 1829.2 SG2  297.0 THA   4.71    EL1 1222.8 EL2   67.5 ALF 175.91
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 1 1967

HELIOCENTRIC CONIC DISTANCE 324.483

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.623 GAL   1.19 AZL  93.93 HCA 138.94 SMA 127.42 ECC .19124 INC 3.9304 V1  29.380
RP  108.39 LAP  -2.58 LOP  26.92 VP  37.515 GAP  -6.94 AZP  87.03 TAL 174.96 TAP 313.89 RCA 103.05 APO 151.78 V2  34.964
RC   60.521 GL  -32.74 GP    5.80 ZAL  85.39 ZAP  28.41 ETS 348.42 ZAE 147.64 ETE  23.93 ZAC  85.09 ETC  13.09 CLP -27.86
```

PLANETOCENTRIC CONIC

```
C3  11.381 VHL  3.374 DLA -23.61 RAL 151.61 RAD 6567.4 VEL 11.523 PTH   2.01 VHP  4.890 DPA   8.71 RAP 182.83 ECC 1.1873
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 36 46	1242.16	9.91	345.34	6.90	116.66	8 57 28	642.2	13.42	338.41
90.00	13 22 14	5578.51	28.24	260.61	11.85	92.11	14 55 13	4978.5	28.24	251.94
100.00	9 39 18	1040.33	8.46	329.73	6.12	118.78	9 56 38	440.3	12.23	322.98
100.00	15 2 24	5255.56	29.89	236.88	11.88	89.89	16 30 0	4655.6	29.56	228.09
110.00	10 9 53	944.40	5.12	320.42	4.08	123.84	10 25 38	344.4	9.54	314.11
110.00	16 48 18	4924.26	33.79	211.49	11.66	84.46	18 10 22	4324.3	32.65	202.44

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .6982 TRA -.5826 TC3 1.2351 BAU  .2002    SGT 1807.3 SGR  338.7 SG3  526.8    ST  1229.5 SR    71.8 SS  1786.3
RDE -.0348 RRA -.0715 RC3  .4536 FAU .07963    RRT  .5359 RRF -.5945 RTF -.9266    CRT -.6451 CRS -.7462 CST  .9893
FDE-2.4703 FRA  .9143 FC3-6.0571 BSP   5931    SGB 1838.8 R23 -.1010 R13 -.9283    LSA 2164.1 MSA  155.7 SSA   12.7
BDE  .6991 BRA  .5869 BC3 1.3158 FSP  -1573    SG1 1816.7 SG2  284.5 THA   5.88    EL1 1230.4 EL2   54.8 ALF 177.84
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 3 1967

HELIOCENTRIC CONIC DISTANCE 331.086

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.682 GAL   1.08 AZL  94.00 HCA 142.13 SMA 127.80 ECC .18747 INC 3.9995 V1  29.380
RP  108.35 LAP  -2.45 LOP  30.12 VP  37.568 GAP  -6.36 AZP  86.84 TAL 175.32 TAP 317.45 RCA 103.84 APO 151.76 V2  34.977
RC  62.420 GL  -33.83 GP    6.61 ZAL  86.23 ZAP  31.62 ETS 348.40 ZAE 148.12 ETE  25.08 ZAC  84.84 ETC  13.01 CLP -30.99
```

PLANETOCENTRIC CONIC

```
C3  11.167 VHL  3.342 DLA -24.28 RAL 150.33 RAD 6567.4 VEL 11.513 PTH   2.01 VHP  4.610 OPA   9.42 RAP 183.23 ECC 1.1838
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 42 8	1201.62	11.14	342.99	5.73	116.20	9 2 10	601.6	14.58	336.00
90.00	13 6 39	5611.19	28.14	262.99	10.46	93.31	14 40 10	5011.2	28.30	254.33
100.00	9 42 57	1005.34	9.60	327.76	4.92	118.45	9 59 42	405.3	13.32	320.95
100.00	14 48 32	5282.70	29.88	238.90	10.54	90.95	16 16 35	4682.7	29.69	230.10
110.00	10 11 0	917.36	6.15	319.00	2.82	123.69	10 26 17	317.4	10.53	312.65
110.00	16 36 58	4943.45	33.90	212.98	10.38	85.34	17 59 22	4343.5	32.88	203.89

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .6905 TRA -.5481 TC3 1.2367 BAU  .1989   SGT 1774.1 SGR  357.1 SG3  588.8     ST  1223.9 SR    41.8 SS  1908.1
 RDE -.0047 RRA -.0706 RC3  .4958 FAU .08788   RRT  .6334 RRF -.6998 RTF -.9264     CRT  .0603 CRS -.0791 CST  .9894
 FDE-2.7762 FRA  .9297 FC3-6.8125 BSP   5840   SGB 1809.7 R23 -.1274 R13 -.9292     LSA 2261.9 MSA  155.4 SSA   11.9
 BDE  .6906 BRA  .5526 BC3 1.3324 FSP  -1771   SG1 1788.8 SG2  274.0 THA   7.44    EL1 1223.9 EL2   41.7 ALF   .12
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 5 1967

HELIOCENTRIC CONIC DISTANCE 337.672

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.734 GAL    .98 AZL  94.08 HCA 145.33 SMA 128.15 ECC .18413 INC 4.0792 V1  29.380
RP  108.31 LAP  -2.32 LOP  33.31 VP  37.618 GAP  -5.79 AZP  86.64 TAL 175.66 TAP 320.99 RCA 104.55 APO 151.74 V2  34.990
RC  64.367 GL  -34.93 GP    7.58 ZAL  86.99 ZAP  35.07 ETS 348.33 ZAE 148.80 ETE  26.84 ZAC  84.76 ETC  12.94 CLP -34.35
```

PLANETOCENTRIC CONIC

```
C3  11.027 VHL  3.321 DLA -24.98 RAL 149.11 RAD 6567.4 VEL 11.507 PTH   2.00 VHP  4.349 OPA  10.36 RAP 183.50 ECC 1.1815
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 49 15	1157.66	12.45	340.43	4.76	115.64	9 8 32	557.7	15.80	333.35
90.00	12 49 49	5649.95	27.95	265.81	9.23	94.71	14 23 59	5049.9	28.31	257.17
100.00	9 47 51	968.48	10.78	325.67	3.90	118.05	10 3 59	368.5	14.45	318.80
100.00	14 33 55	5314.36	29.82	241.25	9.35	92.19	16 2 29	4714.4	29.80	232.45
110.00	10 12 53	889.91	7.18	317.55	1.73	123.51	10 27 43	289.9	11.54	311.16
110.00	16 25 21	4965.69	34.01	214.71	9.29	86.35	17 48 7	4365.7	33.13	205.58

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .6803 TRA -.5118 TC3 1.2175 BAU  .1969   SGT 1726.5 SGR  391.9 SG3  658.5     ST  1209.9 SR    68.1 SS  2042.4
 RDE  .0312 RRA -.0705 RC3  .5485 FAU .09717   RRT  .7219 RRF -.7956 RTF -.9258     CRT  .9132 CRS  .8495 CST  .9894
 FDE-3.1334 FRA  .9383 FC3-7.6287 BSP   5761   SGB 1770.4 R23 -.1601 R13 -.9303     LSA 2369.8 MSA  154.5 SSA   10.9
 BDE  .6810 BRA  .5166 BC3 1.3353 FSP  -2005   SG1 1750.1 SG2  267.5 THA   9.53    EL1 1211.5 EL2   27.7 ALF   2.95
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 7 1967

HELIOCENTRIC CONIC DISTANCE 344.240

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.780 GAL    .89 AZL  94.17 HCA 148.53 SMA 128.45 ECC .18120 INC 4.1731 V1  29.380
RP  108.27 LAP  -2.18 LOP  36.51 VP  37.663 GAP  -5.24 AZP  86.44 TAL 175.96 TAP 324.49 RCA 105.18 APO 151.73 V2  35.003
RC  66.356 GL  -36.05 GP    8.76 ZAL  87.66 ZAP  38.80 ETS 348.22 ZAE 149.63 ETE  29.39 ZAC  84.86 ETC  12.91 CLP -37.95
```

PLANETOCENTRIC CONIC

```
C3  10.962 VHL  3.311 DLA -25.73 RAL 147.95 RAD 6567.4 VEL 11.504 PTH   2.00 VHP  4.110 OPA  11.61 RAP 183.63 ECC 1.1804
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 59 1	1107.34	13.91	337.46	4.03	114.91	9 17 28	507.3	17.16	330.28
90.00	12 30 50	5697.84	27.64	269.28	8.14	96.42	14 5 48	5097.8	28.24	260.67
100.00	9 54 33	928.02	12.07	323.35	3.10	117.56	10 10 1	328.0	15.67	316.41
100.00	14 17 59	5352.40	29.69	244.07	8.34	93.66	15 47 12	4752.4	29.88	235.27
110.00	10 15 51	861.21	8.26	316.02	.83	123.29	10 30 12	261.2	12.58	309.59
110.00	16 13 11	4991.97	34.11	216.76	8.40	87.56	17 36 23	4392.0	33.39	207.59

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .6581 TRA -.4811 TC3 1.1472 BAU  .1906   SGT 1651.7 SGR  447.1 SG3  732.0     ST  1172.4 SR   136.0 SS  2178.5
 RDE  .0745 RRA -.0718 RC3  .6120 FAU .10664   RRT  .7884 RRF -.8714 RTF -.9210     CRT  .9950 CRS  .9739 CST  .9889
 FDE-3.5293 FRA  .9553 FC3-8.4219 BSP   5490   SGB 1711.2 R23 -.2039 R13 -.9287     LSA 2472.7 MSA  155.6 SSA    9.9
 BDE  .6623 BRA  .4864 BC3 1.3003 FSP  -2229   SG1 1689.9 SG2  268.8 THA  12.36    EL1 1180.1 EL2   13.5 ALF   6.58
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 9 1967

HELIOCENTRIC CONIC DISTANCE 350.790

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.820 GAL    .82 AZL  94.29 HCA 151.73 SMA 128.72 ECC .17864 INC 4.2858 V1  29.380
RP  108.22 LAP  -2.03 LOP  39.71 VP  37.704 GAP  -4.71 AZP  86.22 TAL 176.23 TAP 327.96 RCA 105.73 APO 151.72 V2  35.016
RC  68.382 GL  -37.22 GP   10.23 ZAL  88.24 ZAP  42.83 ETS 348.08 ZAE 150.54 ETE  32.96 ZAC  85.16 ETC  12.92 CLP -41.82
```

PLANETOCENTRIC CONIC

```
C3  10.979 VHL  3.313 DLA -26.56 RAL 146.86 RAD 6567.4 VEL 11.505 PTH   2.00 VHP  3.894 OPA  13.22 RAP 183.65 ECC 1.1807
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 13 14	1044.98	15.67	333.72	3.60	113.89	9 30 39	445.0	18.77	326.41
90.00	12 7 52	5760.84	27.08	273.81	7.16	98.62	13 43 52	5160.8	27.99	265.26
100.00	10 3 57	881.22	13.53	320.64	2.55	116.91	10 18 38	281.2	17.03	313.60
100.00	13 59 50	5399.83	29.43	247.57	7.49	95.49	15 29 50	4799.8	29.88	238.80
110.00	10 20 14	830.10	9.42	314.36	.13	123.01	10 34 4	230.1	13.70	307.87
110.00	16 0 3	5023.71	34.17	219.23	7.71	89.02	17 23 46	4423.7	33.66	210.03

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .6316 TRA -.4464 TC3 1.0608 BAU  .1860   SGT 1559.4 SGR  530.2 SG3  812.8     ST  1122.6 SR   227.5 SS  2328.1
 RDE  .1290 RRA -.0737 RC3  .6932 FAU .11729   RRT  .8340 RRF -.9254 RTF -.9154     CRT  .9982 CRS  .9934 CST  .9883
 FDE-3.9879 FRA  .9526 FC3-9.2485 BSP   5317   SGB 1647.1 R23 -.2469 R13 -.9291     LSA 2589.9 MSA  155.4 SSA    8.9
 BDE  .6446 BRA  .4525 BC3 1.2672 FSP  -2505   SG1 1622.9 SG2  281.1 THA  16.33    EL1 1145.3 EL2   13.4 ALF  11.44
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 11 1967

DISTANCE 357.320

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 26.855 GAL .76 AZL 94.42 HCA 154.93 SMA 128.95 ECC .17644 INC 4.4249 V1 29.380
RP 108.18 LAP -1.87 LOP 42.91 VP 37.741 GAP -4.19 AZP 85.99 TAL 176.45 TAP 331.38 RCA 106.20 APO 151.71 V2 35.029
RC 70.443 GL -38.47 GP 12.07 ZAL 88.72 ZAP 47.18 ETS 347.93 ZAE 151.36 ETE 37.83 ZAC 85.63 ETC 12.99 CLP -45.97

PLANETOCENTRIC CONIC
C3 11.092 VHL 3.330 DLA -27.51 RAL 145.81 RAD 6567.4 VEL 11.510 PTH 2.00 VHP 3.703 DPA 15.28 RAP 183.58 ECC 1.1825

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 36 59	954.42	18.08	328.17	3.62	112.17	9 52 54	354.4	20.93	320.65
90.00	11 35 44	5855.60	25.93	280.51	6.20	101.79	13 13 19	5255.6	27.30	272.11
100.00	10 17 45	822.70	15.30	317.20	2.33	116.00	10 31 28	222.7	18.67	310.03
100.00	13 37 39	5462.56	28.93	252.17	6.79	97.86	15 8 42	4862.6	29.72	243.45
110.00	10 26 38	794.80	10.72	312.45	359.68	122.65	10 39 53	194.8	14.95	305.90
110.00	15 45 16	5063.23	34.17	222.32	7.26	90.85	17 9 39	4463.2	33.91	213.08

DIFFERENTIAL CORRECTIONS
TDE .5929 TRA -.4144 TC3 .9317 BAU .1814
RDE .1986 RRA -.0769 RC3 .7931 FAU .12793
FDE-4.4954 FRA .9434 FC3-9.9850 BSP 5088
BDE .6253 BRA .4215 BC3 1.2235 FSP -2786

MID-COURSE EXECUTION ACCURACY
SGT 1439.3 SGR 646.5 SG3 895.4
RRT .8556 RRF -.9594 RTF -.9042
SGB 1577.9 R23 -.2846 R13 -.9303
SG1 1546.8 SG2 311.5 THA 21.96

ORBIT DETERMINATION ACCURACY
ST 1048.3 SR 344.9 SS 2481.4
CRT .9944 CRS .9980 CST .9870
LSA 2711.3 MSA 155.9 SSA 7.9
EL1 1103.1 EL2 34.6 ALF 18.13

LAUNCH DATE MAY 30 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 13 1967

DISTANCE 363.832

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 26.884 GAL .71 AZL 94.60 HCA 158.14 SMA 129.15 ECC .17457 INC 4.6020 V1 29.380
RP 108.14 LAP -1.71 LOP 46.12 VP 37.774 GAP -3.68 AZP 85.73 TAL 176.62 TAP 334.76 RCA 106.61 APO 151.70 V2 35.042
RC 72.534 GL -39.85 GP 14.42 ZAL 89.10 ZAP 51.89 ETS 347.79 ZAE 151.86 ETE 44.29 ZAC 86.24 ETC 13.16 CLP -50.41

PLANETOCENTRIC CONIC
C3 11.328 VHL 3.366 DLA -28.62 RAL 144.78 RAD 6567.4 VEL 11.520 PTH 2.01 VHP 3.543 DPA 17.91 RAP 183.48 ECC 1.1864

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.69	9 56 9	882.30	22.71	324.70	4.65	107.89	10 10 51	282.3	24.95	316.72
94.31	11 8 22	648.39	22.72	307.57	4.66	107.88	11 19 11	48.4	24.96	299.59
100.00	10 40 22	738.73	17.74	312.16	2.60	114.46	10 52 41	138.7	20.89	304.79
100.00	13 6 50	5555.23	27.89	258.86	6.14	101.23	14 39 25	4955.2	29.15	250.28
110.00	10 36 3	752.34	12.27	310.14	359.55	122.16	10 48 35	152.3	16.43	303.50
110.00	15 27 39	5114.39	34.05	226.31	7.05	93.21	16 52 54	4514.4	34.12	217.06

DIFFERENTIAL CORRECTIONS
TDE .5399 TRA -.3870 TC3 .7554 BAU .1795
RDE .2903 RRA -.0819 RC3 .9132 FAU .13759
FDE-5.0464 FRA .9291 FC-10.5147 BSP 4828
BDE .6130 BRA .3956 BC3 1.1851 FSP -3046

MID-COURSE EXECUTION ACCURACY
SGT 1291.0 SGR 804.5 SG3 974.2
RRT .8530 RRF -.9791 RTF -.8826
SGB 1521.2 R23 -.3035 R13 -.9353
SG1 1476.2 SG2 367.3 THA 30.04

ORBIT DETERMINATION ACCURACY
ST 946.5 SR 496.8 SS 2635.6
CRT .9894 CRS .9994 CST .9843
LSA 2839.7 MSA 157.7 SSA 6.8
EL1 1067.0 EL2 63.9 ALF 27.55

LAUNCH DATE MAY 30 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 15 1967

DISTANCE 370.323

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 26.909 GAL .68 AZL 94.84 HCA 161.35 SMA 129.32 ECC .17300 INC 4.8367 V1 29.380
RP 108.10 LAP -1.55 LOP 49.33 VP 37.804 GAP -3.18 AZP 85.42 TAL 176.74 TAP 338.09 RCA 106.95 APO 151.70 V2 35.056
RC 74.652 GL -41.46 GP 17.50 ZAL 89.37 ZAP 56.97 ETS 347.68 ZAE 151.60 ETE 52.45 ZAC 86.92 ETC 13.46 CLP -55.14

PLANETOCENTRIC CONIC
C3 11.740 VHL 3.426 DLA -29.97 RAL 143.73 RAD 6567.4 VEL 11.538 PTH 2.01 VHP 3.420 DPA 21.32 RAP 183.48 ECC 1.1932

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.76	9 4 50	1041.19	23.58	336.74	4.50	109.05	9 22 12	441.2	25.96	328.75
100.24	11 51 18	5792.39	23.59	275.17	4.50	109.03	13 27 51	5192.4	25.97	267.17
79.76	9 4 50	1041.19	23.58	336.74	4.50	109.05	9 22 12	441.2	25.96	328.75
100.24	11 51 18	5792.39	23.59	275.17	4.50	109.03	13 27 51	5192.4	25.97	267.17
110.00	10 50 23	697.05	14.25	307.08	359.86	121.40	11 2 0	97.1	18.31	300.31
110.00	15 4 56	5184.53	33.65	231.75	7.09	96.40	16 31 21	4584.5	34.17	222.54

DIFFERENTIAL CORRECTIONS
TDE .4742 TRA -.3598 TC3 .5538 BAU .1875
RDE .4165 RRA -.0872 RC3 1.0589 FAU .14589
FDE-5.6373 FRA .8805 FC-10.7584 BSP 4736
BDE .6311 BRA .3702 BC3 1.1949 FSP -3283

MID-COURSE EXECUTION ACCURACY
SGT 1120.3 SGR 1019.7 SG3 1044.4
RRT .8268 RRF -.9898 RTF -.8458
SGB 1514.9 R23 -.2752 R13 -.9521
SG1 1448.5 SG2 443.7 THA 41.75

ORBIT DETERMINATION ACCURACY
ST 819.9 SR 698.6 SS 2790.6
CRT .9829 CRS .9998 CST .9794
LSA 2987.1 MSA 158.9 SSA 5.8
EL1 1072.7 EL2 98.4 ALF 40.35

LAUNCH DATE MAY 30 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 17 1967

DISTANCE 376.796

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 26.930 GAL .66 AZL 95.17 HCA 164.56 SMA 129.46 ECC .17171 INC 5.1652 V1 29.380
RP 108.06 LAP -1.37 LOP 52.53 VP 37.831 GAP -2.70 AZP 85.02 TAL 176.81 TAP 341.37 RCA 107.23 APO 151.69 V2 35.069
RC 76.795 GL -43.44 GP 21.66 ZAL 89.54 ZAP 62.44 ETS 347.65 ZAE 149.97 ETE 61.95 ZAC 87.54 ETC 13.95 CLP -60.15

PLANETOCENTRIC CONIC
C3 12.433 VHL 3.526 DLA -31.68 RAL 142.58 RAD 6567.5 VEL 11.568 PTH 2.02 VHP 3.350 DPA 25.81 RAP 183.82 ECC 1.2046

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.17	8 27 2	1158.40	24.59	345.94	4.71	110.63	8 46 20	558.4	27.17	337.94
104.83	12 19 56	5699.40	24.60	268.58	4.71	110.62	13 54 56	5099.4	27.18	260.58
75.17	8 27 2	1158.40	24.59	345.94	4.71	110.63	8 46 20	558.4	27.17	337.94
104.83	12 19 56	5699.40	24.60	268.58	4.71	110.62	13 54 56	5099.4	27.18	260.58
110.00	11 14 36	614.66	17.12	302.42	.93	120.05	11 24 51	14.7	20.98	295.42
110.00	14 31 32	5291.14	32.54	239.87	7.28	101.09	15 59 43	4691.1	33.73	230.83

DIFFERENTIAL CORRECTIONS
TDE .3909 TRA -.3375 TC3 .3197 BAU .2098
RDE .5982 RRA -.0926 RC3 1.2213 FAU .14981
FDE-6.2295 FRA .7927 FC-10.4317 BSP 4935
BDE .7146 BRA .3499 BC3 1.2625 FSP -3429

MID-COURSE EXECUTION ACCURACY
SGT 932.5 SGR 1310.7 SG3 1089.0
RRT .7573 RRF -.9953 RTF -.7712
SGB 1608.6 R23 -.1892 R13 -.9775
SG1 1520.5 SG2 525.0 THA 57.31

ORBIT DETERMINATION ACCURACY
ST 664.0 SR 973.9 SS 2933.8
CRT .9710 CRS .9999 CST .9687
LSA 3157.6 MSA 161.0 SSA 4.8
EL1 1171.3 EL2 132.0 ALF 56.00

LAUNCH DATE MAY 30 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 19 1967

HELIOCENTRIC CONIC DISTANCE 383.248

RL 151.64 LAL .00 LOL 247.92 VL 26.946 GAL .65 AZL 95.66 HCA 167.77 SMA 129.57 ECC .17070 INC 5.6614 V1 29.380
RP 108.02 LAP -1.20 LOP 55.74 VP 37.854 GAP -2.23 AZP 84.47 TAL 176.83 TAP 344.60 RCA 107.46 APO 151.69 V2 35.082
RC 78.958 GL -46.01 GP 27.54 ZAL 89.61 ZAP 68.33 ETS 347.77 ZAE 146.06 ETE 71.77 ZAC 87.84 ETC 14.66 CLP -65.38

PLANETOCENTRIC CONIC

C3 13.650 VHL 3.695 DLA -33.97 RAL 141.17 RAD 6567.5 VEL 11.620 PTH 2.04 VHP 3.365 DPA 31.88 RAP 185.00 ECC 1.2246

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.41	7 50 40	1273.75	25.74	355.31	5.44	112.96	8 11 54	673.8	28.62	347.33
109.59	12 45 4	5624.33	25.76	263.33	5.45	112.95	14 18 49	5024.3	28.63	255.35
70.41	7 50 40	1273.75	25.74	355.31	5.44	112.96	8 11 54	673.8	28.62	347.33
109.59	12 45 4	5624.33	25.76	263.33	5.45	112.95	14 18 49	5024.3	28.63	255.35
110.00	12 18 18	5706.02	23.40	268.53	4.28	115.66	13 53 24	5106.0	26.66	260.88
110.00	13 16 37	5528.10	28.15	256.89	6.51	110.25	14 48 45	4928.1	30.64	248.58

DIFFERENTIAL CORRECTIONS
TOE .2875 TRA -.3216 TC3 .0847 BAU .2535
RDE .8777 RRA -.0941 RC3 1.3867 FAU .14648
FDE-6.7369 FRA .6365 FC3-9.2902 BSP 5748
BDE .9236 BRA .3351 BC3 1.3893 FSP -3439

MID-COURSE EXECUTION ACCURACY
SGT 751.3 SGR 1712.8 SG3 1085.0
RRT .6037 RRF -.9979 RTF -.6151
SGB 1870.3 R23 -.0802 R13 -.9948
SG1 1779.2 SG2 576.6 THA 73.37

ORBIT DETERMINATION ACCURACY
ST 481.0 SR 1362.6 SS 3040.1
CRT .9406 CRS 1.0000 CST .9391
LSA 3362.1 MSA 163.5 SSA 3.8
EL1 1436.7 EL2 154.8 ALF 71.41

LAUNCH DATE MAY 30 1967 FLIGHT TIME 144.00 ARRIVAL DATE OCT 21 1967

HELIOCENTRIC CONIC DISTANCE 389.679

RL 151.64 LAL .00 LOL 247.92 VL 26.959 GAL .66 AZL 96.51 HCA 170.98 SMA 129.66 ECC .16993 INC 6.5049 V1 29.380
RP 107.98 LAP -1.02 LOP 58.96 VP 37.875 GAP -1.77 AZP 83.57 TAL 176.78 TAP 347.76 RCA 107.63 APO 151.69 V2 35.094
RC 81.139 GL -49.64 GP 36.31 ZAL 89.60 ZAP 74.61 ETS 348.20 ZAE 138.55 ETE 80.51 ZAC 87.31 ETC 15.57 CLP -70.78

PLANETOCENTRIC CONIC

C3 16.064 VHL 4.008 DLA -37.21 RAL 139.18 RAD 6567.6 VEL 11.724 PTH 2.07 VHP 3.555 DPA 40.43 RAP 188.32 ECC 1.2644

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.77	7 11 8	1404.71	26.96	6.34	7.11	116.69	7 34 33	804.7	30.31	358.48
115.23	13 8 42	5566.01	26.97	259.32	7.12	116.67	14 41 28	4966.0	30.32	251.46
64.77	7 11 8	1404.71	26.96	6.34	7.11	116.69	7 34 33	804.7	30.31	358.48
115.23	13 8 42	5566.01	26.97	259.32	7.12	116.67	14 41 28	4966.0	30.32	251.46
64.77	7 11 8	1404.71	26.96	6.34	7.11	116.69	7 34 33	804.7	30.31	358.48
115.23	13 8 42	5566.01	26.97	259.32	7.12	116.67	14 41 28	4966.0	30.32	251.46

DIFFERENTIAL CORRECTIONS
TOE .1613 TRA -.3193 TC3 -.1199 BAU .3199
RDE 1.3526 RRA -.0787 RC3 1.4846 FAU .12868
FDE-6.9508 FRA .3753 FC3-6.9348 BSP 7300
BDE 1.3622 BRA .3288 BC3 1.4895 FSP -3120

MID-COURSE EXECUTION ACCURACY
SGT 625.2 SGR 2274.9 SG3 985.4
RRT .2900 RRF -.9991 RTF -.3005
SGB 2359.2 R23 -.0111 R13 -.9991
SG1 2282.6 SG2 596.3 THA 85.11

ORBIT DETERMINATION ACCURACY
ST 287.6 SR 1934.4 SS 3052.7
CRT .8142 CRS 1.0000 CST .8133
LSA 3621.6 MSA 166.9 SSA 2.9
EL1 1948.7 EL2 165.8 ALF 83.05

LAUNCH DATE MAY 30 1967 FLIGHT TIME 146.00 ARRIVAL DATE OCT 23 1967

HELIOCENTRIC CONIC DISTANCE 396.085

RL 151.64 LAL .00 LOL 247.92 VL 26.968 GAL .68 AZL 98.27 HCA 174.19 SMA 129.72 ECC .16941 INC 8.2734 V1 29.380
RP 107.94 LAP -.83 LOP 62.17 VP 37.893 GAP -1.32 AZP 81.77 TAL 176.68 TAP 350.87 RCA 107.75 APO 151.70 V2 35.107
RC 83.336 GL -55.23 GP 50.24 ZAL 89.56 ZAP 81.18 ETS 349.30 ZAE 125.25 ETE 87.08 ZAC 84.97 ETC 16.29 CLP -76.14

PLANETOCENTRIC CONIC

C3 22.313 VHL 4.724 DLA -42.16 RAL 135.79 RAD 6567.9 VEL 11.987 PTH 2.14 VHP 4.245 DPA 52.74 RAP 198.14 ECC 1.3672

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.36	6 23 0	1580.33	27.40	21.41	10.84	123.39	6 49 20	980.3	31.59	13.98
122.64	13 29 49	5545.06	27.42	257.86	10.85	123.38	15 2 14	4945.1	31.60	250.43
57.36	6 23 0	1580.33	27.40	21.41	10.84	123.39	6 49 20	980.3	31.59	13.98
122.64	13 29 49	5545.06	27.42	257.86	10.85	123.38	15 2 14	4945.1	31.60	250.43
57.36	6 23 0	1580.33	27.40	21.41	10.84	123.39	6 49 20	980.3	31.59	13.98
122.64	13 29 49	5545.06	27.42	257.86	10.85	123.38	15 2 14	4945.1	31.60	250.43

DIFFERENTIAL CORRECTIONS
TOE .0191 TRA -.3527 TC3 -.2166 BAU .4068
RDE 2.3100 RRA .0208 RC3 1.3465 FAU .08879
FDE-6.3682 FRA -.0499 FC3-3.4451 BSP 10051
BDE 2.3101 BRA .3533 BC3 1.3638 FSP -2337

MID-COURSE EXECUTION ACCURACY
SGT 612.8 SGR 3077.4 SG3 724.2
RRT -.1140 RRF -.9996 RTF .1039
SGB 3137.8 R23 .0147 R13 -.9996
SG1 3078.2 SG2 608.6 THA 91.35

ORBIT DETERMINATION ACCURACY
ST 174.8 SR 2802.2 SS 2833.1
CRT .1287 CRS 1.0000 CST .1292
LSA 3984.9 MSA 173.3 SSA 1.9
EL1 2802.3 EL2 173.3 ALF 89.54

LAUNCH DATE MAY 30 1967 FLIGHT TIME 148.00 ARRIVAL DATE OCT 25 1967

HELIOCENTRIC CONIC DISTANCE 402.459

RL 151.64 LAL .00 LOL 247.92 VL 26.973 GAL .71 AZL 104.37 HCA 177.39 SMA 129.76 ECC .16910 INC14.3666 V1 29.380
RP 107.91 LAP -.65 LOP 65.39 VP 37.909 GAP -.88 AZP 75.65 TAL 176.49 TAP 353.87 RCA 107.82 APO 151.70 V2 35.119
RC 85.546 GL -64.09 GP 73.70 ZAL 89.58 ZAP 87.20 ETS 350.63 ZAE 102.09 ETE 90.15 ZAC 79.13 ETC 13.84 CLP -79.97

PLANETOCENTRIC CONIC

C3 55.358 VHL 7.440 DLA -49.69 RAL 129.06 RAD 6569.0 VEL 13.294 PTH 2.43 VHP 7.549 DPA 66.50 RAP 237.22 ECC 1.9111

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
47.30	5 19 0	1902.76	20.86	45.44	20.18	136.18	5 50 43	1302.8	26.52	39.67
132.70	13 40 6	5676.62	20.88	264.06	20.19	136.18	15 14 43	5076.6	26.53	258.30
47.30	5 19 0	1902.76	20.86	45.44	20.18	136.18	5 50 43	1302.8	26.52	39.67
132.70	13 40 6	5676.62	20.88	264.06	20.19	136.18	15 14 43	5076.6	26.53	258.30
47.30	5 19 0	1902.76	20.86	45.44	20.18	136.18	5 50 43	1302.8	26.52	39.67
132.70	13 40 6	5676.62	20.88	264.06	20.19	136.18	15 14 43	5076.6	26.53	258.30

DIFFERENTIAL CORRECTIONS
TOE .2320 TRA -.5610 TC3 -.1037 BAU .3273
RDE 4.9198 RRA .3757 RC3 .4300 FAU .01985
FDE-3.9765 FRA -.2670 FC3 -.3104 BSP 11161
BDE 4.9253 BRA .6752 BC3 .4423 FSP -749

MID-COURSE EXECUTION ACCURACY
SGT 708.3 SGR 3868.2 SG3 269.0
RRT .1020 RRF -.9998 RTF -.1196
SGB 3932.5 R23 .0141 R13 -.9998
SG1 3868.9 SG2 704.5 THA 88.89

ORBIT DETERMINATION ACCURACY
ST 268.5 SR 3791.0 SS 1998.3
CRT .6386 CRS 1.0000 CST .6419
LSA 4288.9 MSA 206.4 SSA .9
EL1 3794.9 EL2 206.4 ALF 87.40

LAUNCH DATE MAY 30 1967 FLIGHT TIME 150.00 ARRIVAL DATE OCT 27 1967

DISTANCE 409.074

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 26.976 GAL .71 AZL 56.17 HCA 180.83 SMA 129.78 ECC .16894 INC33.8232 V1 29.380
RP 107.87 LAP -.46 LOP 68.60 VP 37.921 GAP -.39 AZP 123.82 TAL 176.50 TAP 357.33 RCA 107.85 APO 151.70 V2 35.131
RC 87.767 GL 65.10 GP -77.89 ZAL 89.82 ZAP 89.89 ETS 176.27 ZAE 81.99 ETE 77.76 ZAC 100.35 ETC 156.94 CLP 89.48

PLANETOCENTRIC CONIC
C3 274.064 VHL 16.555 DLA 63.38 RAL 209.16 RAD 6571.6 VEL 19.884 PTH 3.13 VHP 23.442 DPA -68.82 RAP 67.53 ECC 5.5104

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
30.60	21 50 39	4950.78	-6.04	240.06	116.13	26.78	23 13 10	4350.8	-13.17	236.79
149.40	7 47 31	3248.37	-6.03	98.52	116.11	26.78	8 41 39	2648.4	-13.16	95.24
30.60	21 50 39	4950.78	-6.04	240.06	116.13	26.78	23 13 10	4350.8	-13.17	236.79
149.40	7 47 31	3248.37	-6.03	98.52	116.11	26.78	8 41 39	2648.4	-13.16	95.24
30.60	21 50 39	4950.78	-6.04	240.06	116.13	26.78	23 13 10	4350.8	-13.17	236.79
149.40	7 47 31	3248.37	-6.03	98.52	116.11	26.78	8 41 39	2648.4	-13.16	95.24

DIFFERENTIAL CORRECTIONS
TOE-2.3000 TRA-1.4115 TC3 -.0813 BAU .7540
RDE-1.5091 RRA-5.2638 RC3 -.1891 FAU-.01369
FDE .3531 FRA 1.1906 FC3 .0433 BSP 9343
BDE 2.7509 BRA 5.4498 BC3 .2058 FSP -182

MID-COURSE EXECUTION ACCURACY
SGT 1376.4 SGR 4146.3 SG3 81.1
RRT .8789 RRF-1.0000 RTF -.8811
SGB 4368.7 R23 -.0390 R13 -.9992
SG1 4323.1 SG2 629.6 THA 73.37

ORBIT DETERMINATION ACCURACY
ST 860.6 SR 1326.9 SS 611.1
CRT .7135 CRS .9999 CST .7221
LSA 1604.6 MSA 547.8 SSA .3
EL1 1487.2 EL2 538.0 ALF 61.02

LAUNCH DATE MAY 30 1967 FLIGHT TIME 152.00 ARRIVAL DATE OCT 29 1967

DISTANCE .000

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 26.976 GAL .79 AZL 86.04 HCA 183.92 SMA 129.78 ECC .16907 INC 3.9583 V1 29.380
RP 107.83 LAP -.27 LOP 71.82 VP 37.932 GAP .00 AZP 93.95 TAL 176.09 TAP .01 RCA 107.83 APO 151.72 V2 35.143
RC 89.996 GL 36.99 GP -62.80 ZAL 88.29 ZAP 92.16 ETS 356.87 ZAE 120.28 ETE 257.51 ZAC 110.96 ETC 351.31 CLP -94.72

PLANETOCENTRIC CONIC
C3 9.577 VHL 3.095 DLA 41.33 RAL 179.19 RAD 6567.3 VEL 11.444 PTH 1.99 VHP 5.443 DPA -45.60 RAP 132.36 ECC 1.1576

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.54	21 19 20	4022.90	-33.22	176.73	41.07	63.85	22 26 23	3422.9	-36.43	168.21
121.46	4 19 44	2728.05	-33.21	77.73	41.06	63.84	5 5 12	2128.0	-36.42	69.22
58.54	21 19 20	4022.90	-33.22	176.73	41.07	63.85	22 26 23	3422.9	-36.43	168.21
121.46	4 19 44	2728.05	-33.21	77.73	41.06	63.84	5 5 12	2128.0	-36.42	69.22
58.54	21 19 20	4022.90	-33.22	176.73	41.07	63.85	22 26 23	3422.9	-36.43	168.21
121.46	4 19 44	2728.05	-33.21	77.73	41.06	63.84	5 5 12	2128.0	-36.42	69.22

DIFFERENTIAL CORRECTIONS
TOE .4695 TRA .3146 TC3-1.8638 BAU .5286
RDE .5698 RRA 1.0915 RC3-3.6838 FAU .06039
FDE .8037 FRA 1.5831 FC3-5.4585 BSP 11117
BDE .7383 BRA 1.1360 BC3 4.1285 FSP -1310

MID-COURSE EXECUTION ACCURACY
SGT 1639.5 SGR 3681.6 SG3 464.2
RRT .9335 RRF .9999 RTF .9330
SGB 4030.1 R23 .0586 R13 .9982
SG1 3993.5 SG2 542.0 THA 66.98

ORBIT DETERMINATION ACCURACY
ST 900.5 SR 1330.2 SS 891.8
CRT .9243 CRS -.9999 CST -.9191
LSA 1811.5 MSA 307.0 SSA 1.3
EL1 1580.1 EL2 289.3 ALF 56.70

LAUNCH DATE MAY 30 1967 FLIGHT TIME 154.00 ARRIVAL DATE OCT 31 1967

DISTANCE 421.601

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 26.973 GAL .86 AZL 89.36 HCA 187.13 SMA 129.75 ECC .16936 INC .6374 V1 29.380
RP 107.80 LAP -.08 LOP 75.05 VP 37.940 GAP .42 AZP 90.63 TAL 175.76 TAP 2.89 RCA 107.78 APO 151.73 V2 35.154
RC 92.232 GL 7.10 GP -44.27 ZAL 87.06 ZAP 97.13 ETS 353.88 ZAE 136.95 ETE 247.76 ZAC 114.38 ETC 357.15 CLP -99.99

PLANETOCENTRIC CONIC
C3 5.919 VHL 2.433 DLA 14.05 RAL 165.12 RAD 6567.2 VEL 11.283 PTH 1.94 VHP 3.817 DPA -28.51 RAP 141.55 ECC 1.0974

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 4 1	2418.52	-23.94	54.83	12.93	105.60	4 44 20	1818.5	-21.57	46.96
90.00	19 42 48	4158.36	-1.31	169.66	10.37	61.71	20 52 7	3558.4	-5.08	163.01
100.00	5 32 49	2132.17	-24.76	33.50	12.66	107.31	6 8 21	1532.2	-22.15	25.67
100.00	20 56 42	3919.94	-.56	151.71	9.95	60.11	22 2 2	3319.9	-4.53	145.18
110.00	6 57 45	1866.41	-26.89	12.47	11.82	111.94	7 28 51	1266.4	-23.68	4.79
110.00	21 48 15	3758.47	1.36	138.26	8.75	55.84	22 50 53	3158.5	-3.13	132.06

DIFFERENTIAL CORRECTIONS
TOE .0448 TRA .2021 TC3-3.8303 BAU .5004
RDE -.0784 RRA .5933 RC3-5.0308 FAU .12352
FDE -.3683 FRA 2.0823 FC-18.0661 BSP 10523
BDE .0903 BRA .6268 BC3 6.3229 FSP -2796

MID-COURSE EXECUTION ACCURACY
SGT 1930.1 SGR 2846.2 SG3 879.3
RRT .9556 RRF .9997 RTF .9556
SGB 3439.0 R23 .0916 R13 .9955
SG1 3405.9 SG2 475.5 THA 56.31

ORBIT DETERMINATION ACCURACY
ST 189.6 SR 475.6 SS 582.7
CRT .5346 CRS -.9934 CST -.4369
LSA 756.7 MSA 170.5 SSA 8.6
EL1 487.6 EL2 156.3 ALF 76.56

LAUNCH DATE MAY 30 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 2 1967

DISTANCE 427.915

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 26.967 GAL .94 AZL 90.62 HCA 190.35 SMA 129.72 ECC .16983 INC .6230 V1 29.380
RP 107.77 LAP .11 LOP 78.27 VP 37.946 GAP .83 AZP 89.39 TAL 175.37 TAP 5.73 RCA 107.69 APO 151.75 V2 35.165
RC 94.474 GL -6.90 GP -33.02 ZAL 86.18 ZAP 102.65 ETS 352.51 ZAE 145.14 ETE 235.48 ZAC 116.22 ETC 1.27 CLP-105.14

PLANETOCENTRIC CONIC
C3 5.955 VHL 2.440 DLA .77 RAL 160.56 RAD 6567.2 VEL 11.285 PTH 1.94 VHP 3.377 DPA -17.53 RAP 144.67 ECC 1.0980

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 30 31	1991.21	-13.60	27.81	5.81	115.08	6 3 42	1391.2	-10.11	20.87
90.00	17 39 56	4587.64	12.21	193.96	5.66	64.25	18 56 23	3987.6	8.64	187.09
100.00	6 52 13	1727.68	-14.27	8.10	5.48	116.55	7 21 1	1127.7	-10.59	1.24
100.00	19 0 55	4326.40	12.87	174.41	5.32	62.79	20 13 1	3726.4	9.12	167.63
110.00	8 1 17	1511.51	-16.04	350.69	4.47	120.60	8 26 28	911.5	-11.86	344.07
110.00	20 8 20	4115.34	14.63	157.37	4.30	58.76	21 16 56	3515.3	10.39	150.84

DIFFERENTIAL CORRECTIONS
TOE -.2063 TRA .1919 TC3-4.5031 BAU .4728
RDE -.2507 RRA .4082 RC3-3.8730 FAU .15515
FDE-1.6456 FRA 2.3069 FC-22.5572 BSP 9681
BDE .3247 BRA .4510 BC3 5.9395 FSP -3560

MID-COURSE EXECUTION ACCURACY
SGT 2295.1 SGR 2199.6 SG3 1111.4
RRT .9649 RRF .9994 RTF .9656
SGB 3178.9 R23 .1333 R13 .9904
SG1 3151.0 SG2 420.7 THA 43.74

ORBIT DETERMINATION ACCURACY
ST 507.2 SR 657.6 SS 1226.8
CRT .9827 CRS -.9984 CST -.9908
LSA 1479.4 MSA 75.7 SSA 14.3
EL1 827.1 EL2 74.8 ALF 52.48

LAUNCH DATE MAY 30 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 4 1967

HELIOCENTRIC CONIC DISTANCE 434.213
RL 151.64 LAL .00 LOL 247.92 VL 26.959 GAL 1.04 AZL 91.29 HCA 193.58 SMA 129.66 ECC .17047 INC 1.2897 V1 29.380
RP 107.73 LAP .30 LOP 81.50 VP 37.950 GAP 1.24 AZP 88.75 TAL 174.94 TAP 8.52 RCA 107.56 APO 151.77 V2 35.175
RC 96.719 GL -13.97 GP -25.77 ZAL 85.29 ZAP 108.00 ETS 351.92 ZAE 148.31 ETE 223.05 ZAC 117.47 ETC 4.19 CLP-110.07
PLANETOCENTRIC CONIC
C3 6.320 VHL 2.514 DLA -6.14 RAL 158.78 RAD 6567.2 VEL 11.301 PTH 1.94 VHP 3.240 DPA -10.21 RAP 145.85 ECC 1.1040

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 15 5	1785.84	-7.39	15.92	4.23	117.41	6 44 51	1185.8	-3.66	9.23
90.00	16 41 11	4812.96	18.44	207.57	5.48	68.12	18 1 24	4213.0	15.30	200.29
100.00	7 33 31	1532.84	-8.07	356.95	3.86	118.88	7 59 4	932.8	-4.16	350.35
100.00	18 5 26	4541.19	19.15	187.26	5.16	66.60	19 21 7	3941.2	15.82	180.05
110.00	8 35 5	1340.08	-9.88	341.22	2.77	122.89	8 57 25	740.1	-5.48	334.90
110.00	19 20 21	4306.72	21.06	168.49	4.20	62.43	20 32 8	3706.7	17.20	161.49

DIFFERENTIAL CORRECTIONS
TDE -.3985 TRA .2131 TC3-4.8471 BAU .4760
RDE -.2737 RRA .3115 RC3-2.8706 FAU .16651
FDE-2.5158 FRA 2.3811 FC-22.8095 BSP 9556
BDE .4834 BRA .3775 BC3 5.6333 FSP -3850

MID-COURSE EXECUTION ACCURACY
SGT 2646.3 SGR 1726.9 SG3 1204.0
RRT .9700 RRF .9984 RTF .9714
SGB 3159.9 R23 .1599 R13 .9856
SG1 3140.0 SG2 353.7 THA 32.80

ORBIT DETERMINATION ACCURACY
ST 922.8 SR 661.0 SS 1671.9
CRT .9854 CRS -.9986 CST -.9928
LSA 2017.9 MSA 108.4 SSA 9.8
EL1 1131.4 EL2 91.7 ALF 35.49

LAUNCH DATE MAY 30 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 6 1967

HELIOCENTRIC CONIC DISTANCE 440.492
RL 151.64 LAL .00 LOL 247.92 VL 26.949 GAL 1.14 AZL 91.70 HCA 196.81 SMA 129.60 ECC .17127 INC 1.7041 V1 29.380
RP 107.70 LAP .49 LOP 84.72 VP 37.953 GAP 1.64 AZP 88.37 TAL 174.46 TAP 11.27 RCA 107.40 APO 151.79 V2 35.185
RC 98.967 GL -18.04 GP -20.79 ZAL 84.33 ZAP 113.02 ETS 351.72 ZAE 148.67 ETE 212.55 ZAC 118.40 ETC 6.37 CLP-114.72
PLANETOCENTRIC CONIC
C3 6.695 VHL 2.587 DLA -10.32 RAL 158.19 RAD 6567.2 VEL 11.318 PTH 1.95 VHP 3.221 DPA -5.09 RAP 146.30 ECC 1.1102

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 45 32	1661.37	-3.43	8.91	4.34	118.13	7 13 14	1061.4	.35	2.28
90.00	16 6 1	4957.18	21.83	216.78	6.48	71.51	17 28 38	4357.2	19.10	209.17
100.00	8 1 46	1415.47	-4.16	350.43	3.94	119.63	8 25 21	815.5	-.19	343.90
100.00	17 32 29	4678.32	22.62	195.97	6.18	69.92	18 50 27	4078.3	19.68	188.41
110.00	8 58 23	1238.17	-6.07	335.79	2.75	123.70	9 19 1	638.2	-1.60	329.56
110.00	18 52 21	4428.37	24.69	176.06	5.25	65.57	20 6 10	3828.4	21.19	168.67

DIFFERENTIAL CORRECTIONS
TDE -.5663 TRA .2480 TC3-5.1181 BAU .4985
RDE -.2539 RRA .2532 RC3-2.1957 FAU .16765
FDE-3.0573 FRA 2.3833 FC-21.6801 BSP 9981
BDE .6206 BRA .3545 BC3 5.5692 FSP -3928

MID-COURSE EXECUTION ACCURACY
SGT 2983.1 SGR 1390.0 SG3 1223.3
RRT .9725 RRF .9965 RTF .9754
SGB 3291.1 R23 .1655 R13 .9830
SG1 3277.9 SG2 294.4 THA 24.59

ORBIT DETERMINATION ACCURACY
ST 1267.6 SR 588.6 SS 1938.6
CRT .9869 CRS -.9980 CST -.9949
LSA 2386.9 MSA 119.3 SSA 9.5
EL1 1394.9 EL2 86.4 ALF 24.72

LAUNCH DATE MAY 30 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 8 1967

HELIOCENTRIC CONIC DISTANCE 446.753
RL 151.64 LAL .00 LOL 247.92 VL 26.937 GAL 1.26 AZL 91.99 HCA 200.05 SMA 129.51 ECC .17225 INC 1.9885 V1 29.380
RP 107.67 LAP .68 LOP 87.95 VP 37.953 GAP 2.04 AZP 88.13 TAL 173.92 TAP 13.97 RCA 107.21 APO 151.82 V2 35.195
RC 101.218 GL -20.62 GP -17.21 ZAL 83.28 ZAP 117.66 ETS 351.71 ZAE 147.62 ETE 204.62 ZAC 119.07 ETC 8.07 CLP-119.08
PLANETOCENTRIC CONIC
C3 7.043 VHL 2.654 DLA -13.14 RAL 158.25 RAD 6567.2 VEL 11.333 PTH 1.95 VHP 3.261 DPA -1.35 RAP 146.47 ECC 1.1159

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 9 24	1575.44	-.67	4.11	5.16	118.31	7 35 40	975.4	3.12	357.48
90.00	15 42 35	5060.82	23.91	223.66	7.92	74.35	17 6 56	4460.8	21.53	215.80
100.00	8 23 54	1335.06	-1.45	346.01	4.73	119.86	8 46 9	735.1	2.54	339.48
100.00	17 10 46	4776.44	24.76	202.47	7.65	72.70	18 30 22	4176.4	22.16	194.64
110.00	9 16 46	1169.50	-3.47	332.19	3.47	124.03	9 36 16	569.5	1.02	325.98
110.00	18 34 24	4514.76	27.00	181.71	6.76	68.20	19 49 39	3914.8	23.80	174.01

DIFFERENTIAL CORRECTIONS
TDE -.7186 TRA .2924 TC3-5.3485 BAU .5294
RDE -.2204 RRA .2160 RC3-1.7337 FAU .16296
FDE-3.3534 FRA 2.3602 FC-20.0329 BSP 10631
BDE .7516 BRA .3636 BC3 5.6225 FSP -3857

MID-COURSE EXECUTION ACCURACY
SGT 3299.4 SGR 1141.3 SG3 1199.8
RRT .9722 RRF .9928 RTF .9779
SGB 3491.2 R23 .1554 R13 .9821
SG1 3482.0 SG2 253.2 THA 18.69

ORBIT DETERMINATION ACCURACY
ST 1565.9 SR 497.8 SS 2089.1
CRT .9859 CRS -.9968 CST -.9960
LSA 2654.9 MSA 124.2 SSA 10.0
EL1 1641.2 EL2 79.6 ALF 17.44

LAUNCH DATE MAY 30 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 10 1967

HELIOCENTRIC CONIC DISTANCE 452.996
RL 151.64 LAL .00 LOL 247.92 VL 26.924 GAL 1.39 AZL 92.20 HCA 203.28 SMA 129.42 ECC .17338 INC 2.1967 V1 29.380
RP 107.65 LAP .87 LOP 91.19 VP 37.951 GAP 2.44 AZP 87.98 TAL 173.34 TAP 16.63 RCA 106.98 APO 151.86 V2 35.204
RC 103.470 GL -22.34 GP -14.52 ZAL 82.13 ZAP 121.95 ETS 351.79 ZAE 145.94 ETE 198.91 ZAC 119.49 ETC 9.43 CLP-123.14
PLANETOCENTRIC CONIC
C3 7.368 VHL 2.714 DLA -15.21 RAL 158.71 RAD 6567.2 VEL 11.347 PTH 1.96 VHP 3.336 DPA 1.45 RAP 146.59 ECC 1.1213

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 29 43	1510.89	1.42	.51	6.39	118.28	7 54 54	910.9	5.19	353.86
90.00	15 25 58	5141.45	25.28	229.17	9.61	76.79	16 51 40	4541.5	23.21	221.12
100.00	8 42 46	1275.16	.58	342.72	5.92	119.89	9 4 2	675.2	4.56	336.19
100.00	16 55 36	4852.41	26.20	207.66	9.35	75.07	18 16 28	4252.4	23.89	199.62
110.00	9 32 33	1119.23	-1.55	329.56	4.59	124.15	9 51 12	519.2	2.94	323.36
110.00	18 22 19	4581.10	28.60	186.21	8.51	70.43	19 38 40	3981.1	25.66	178.27

DIFFERENTIAL CORRECTIONS
TDE -.8589 TRA .3457 TC3-5.5335 BAU .5624
RDE -.1843 RRA .1916 RC3-1.4051 FAU .15479
FDE-3.4837 FRA 2.3327 FC-18.1884 BSP 11348
BDE .8785 BRA .3952 BC3 5.7091 FSP -3700

MID-COURSE EXECUTION ACCURACY
SGT 3589.3 SGR 953.4 SG3 1151.5
RRT .9684 RRF .9863 RTF .9795
SGB 3713.7 R23 .1358 R13 .9818
SG1 3706.6 SG2 230.2 THA 14.48

ORBIT DETERMINATION ACCURACY
ST 1829.4 SR 409.6 SS 2166.8
CRT .9824 CRS -.9941 CST -.9967
LSA 2862.4 MSA 126.7 SSA 10.8
EL1 1873.2 EL2 74.7 ALF 12.42

LAUNCH DATE MAY 30 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 12 1967

DISTANCE 459.219

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 26.908 GAL 1.53 AZL 92.36 HCA 206.52 SMA 129.32 ECC .17468 INC 2.3566 V1 29.380
RP 107.62 LAP 1.05 LOP 94.42 VP 37.948 GAP 2.83 AZP 87.89 TAL 172.72 TAP 19.24 RCA 106.73 APO 151.90 V2 35.212
RC 105.723 GL -23.52 GP -12.44 ZAL 80.90 ZAP 125.90 ETS 351.92 ZAE 144.04 ETE 194.84 ZAC 119.68 ETC 10.54 CLP-126.90

PLANETOCENTRIC CONIC
C3 7.681 VHL 2.772 DLA -16.82 RAL 159.47 RAD 6567.3 VEL 11.361 PTH 1.96 VHP 3.436 DPA 3.58 RAP 146.77 ECC 1.1264

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 47 59	1459.48	3.07	357.64	7.88	118.16	8 12 18	859.5	6.82	350.96
90.00	15 13 44	5207.92	26.23	233.81	11.45	78.92	16 40 31	4607.9	24.43	225.60
100.00	8 59 45	1227.91	2.19	340.13	7.39	119.82	9 20 13	627.9	6.14	333.57
100.00	16 44 39	4914.73	27.22	212.01	11.21	77.14	18 6 33	4314.7	25.18	203.80
110.00	9 46 51	1080.32	-.06	327.53	5.98	124.18	10 4 52	480.3	4.43	321.32
110.00	18 14 1	4635.08	29.77	189.98	10.42	72.37	19 31 16	4035.1	27.07	181.83

DIFFERENTIAL CORRECTIONS
TOE -.9917 TRA .4045 TC3-5.6877 BAU .5963
ROE -.1502 RRA .1745 RC3-1.1695 FAU .14546
FOE-3.5135 FRA 2.2954 FC-16.3944 BSP 12124
BOE 1.0030 BRA .4406 BC3 5.8066 FSP -3523

MID-COURSE EXECUTION ACCURACY
SGT 3860.8 SGR 811.6 SG3 1092.6
RRT .9605 RRF .9758 RTF .9805
SGB 3945.2 R23 .1110 R13 .9819
SG1 3939.0 SG2 -221.5 THA 11.45

ORBIT DETERMINATION ACCURACY
ST 2069.0 SR 331.0 SS 2202.4
CRT .9754 CRS -.9890 CST -.9972
LSA 3037.2 MSA 127.8 SSA 11.7
EL1 2094.1 EL2 72.1 ALF 8.88

LAUNCH DATE MAY 30 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 14 1967

DISTANCE 465.422

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 26.891 GAL 1.69 AZL 92.48 HCA 209.76 SMA 129.20 ECC .17613 INC 2.4839 V1 29.380
RP 107.60 LAP 1.23 LOP 97.66 VP 37.943 GAP 3.22 AZP 87.84 TAL 172.05 TAP 21.81 RCA 106.44 APO 151.96 V2 35.220
RC 107.975 GL -24.33 GP -10.80 ZAL 79.58 ZAP 129.53 ETS 352.06 ZAE 142.13 ETE 191.92 ZAC 119.64 ETC 11.45 CLP-130.39

PLANETOCENTRIC CONIC
C3 7.993 VHL 2.827 DLA -18.13 RAL 160.44 RAD 6567.3 VEL 11.375 PTH 1.96 VHP 3.553 DPA 5.21 RAP 147.06 ECC 1.1315

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 5 0	1416.82	4.44	355.25	9.58	118.00	8 28 37	816.8	8.15	348.54
90.00	15 4 29	5265.17	26.91	237.86	13.42	80.84	16 32 15	4665.2	25.37	229.53
100.00	9 15 34	1189.09	3.50	337.99	9.06	119.71	9 35 23	589.1	7.43	331.41
100.00	16 36 36	4968.13	27.97	215.80	13.21	79.00	17 59 24	4368.1	26.17	207.46
110.00	10 0 17	1048.99	1.14	325.90	7.59	124.17	10 17 46	449.0	5.61	319.67
110.00	18 8 23	4681.00	30.67	193.25	12.47	74.12	19 26 24	4081.0	28.19	184.93

DIFFERENTIAL CORRECTIONS
TOE-1.1171 TRA .4705 TC3-5.8017 BAU .6290
ROE -.1187 RRA .1628 RC3 -.9943 FAU .13554
FOE-3.4754 FRA 2.2584 FC-14.6813 BSP 12862
BOE 1.1234 BRA .4979 BC3 5.8863 FSP -3320

MID-COURSE EXECUTION ACCURACY
SGT 4110.1 SGR 703.2 SG3 1028.5
RRT .9471 RRF .9597 RTF .9812
SGB 4169.9 R23 .0861 R13 .9820
SG1 4163.9 SG2 222.8 THA 9.23

ORBIT DETERMINATION ACCURACY
ST 2285.9 SR 262.7 SS 2208.3
CRT .9619 CRS -.9784 CST -.9975
LSA 3186.6 MSA 128.0 SSA 12.6
EL1 2299.9 EL2 71.4 ALF 6.31

LAUNCH DATE MAY 30 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 16 1967

DISTANCE 471.606

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 26.873 GAL 1.86 AZL 92.59 HCA 213.00 SMA 129.08 ECC .17775 INC 2.5883 V1 29.380
RP 107.58 LAP 1.41 LOP 100.89 VP 37.937 GAP 3.61 AZP 87.83 TAL 171.34 TAP 24.34 RCA 106.13 APO 152.02 V2 35.227
RC 110.226 GL -24.88 GP -9.47 ZAL 78.18 ZAP 132.88 ETS 352.20 ZAE 140.30 ETE 189.79 ZAC 119.38 ETC 12.18 CLP-133.62

PLANETOCENTRIC CONIC
C3 8.311 VHL 2.883 DLA -19.23 RAL 161.60 RAD 6567.3 VEL 11.389 PTH 1.97 VHP 3.683 DPA 6.47 RAP 147.50 ECC 1.1368

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 21 15	1380.36	5.60	353.20	11.45	117.80	8 44 16	780.4	9.28	346.45
90.00	14 57 27	5316.15	27.41	241.51	15.52	82.61	16 26 3	4716.2	26.10	233.08
100.00	9 30 42	1156.29	4.60	336.18	10.90	119.57	9 49 58	556.3	8.51	329.57
100.00	16 30 42	5015.46	28.54	219.20	15.33	80.71	17 54 18	4415.5	26.96	210.75
110.00	10 13 12	1023.11	2.13	324.55	9.36	124.12	10 30 15	423.1	6.59	318.30
110.00	18 4 42	4721.39	31.39	196.18	14.65	75.72	19 23 23	4121.4	29.11	187.72

DIFFERENTIAL CORRECTIONS
TOE-1.2364 TRA .5431 TC3-5.8827 BAU .6606
ROE -.0899 RRA .1548 RC3 -.8621 FAU .12582
FOE-3.3935 FRA 2.2231 FC-13.1062 BSP 13585
BOE 1.2396 BRA .5647 BC3 5.9455 FSP -3123

MID-COURSE EXECUTION ACCURACY
SGT 4341.6 SGR 620.6 SG3 964.0
RRT .9269 RRF .9367 RTF .9817
SGB 4385.7 R23 .0644 R13 .9821
SG1 4379.6 SG2 230.9 THA 7.57

ORBIT DETERMINATION ACCURACY
ST 2483.2 SR 204.2 SS 2193.6
CRT .9349 CRS -.9560 CST -.9978
LSA 3317.1 MSA 128.1 SSA 13.4
EL1 2490.5 EL2 72.3 ALF 4.40

LAUNCH DATE MAY 30 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 18 1967

DISTANCE 477.770

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 26.853 GAL 2.04 AZL 92.68 HCA 216.24 SMA 128.94 ECC .17953 INC 2.6760 V1 29.380
RP 107.56 LAP 1.58 LOP 104.13 VP 37.929 GAP 4.00 AZP 87.84 TAL 170.59 TAP 26.83 RCA 105.79 APO 152.09 V2 35.233
RC 112.475 GL -25.23 GP -8.39 ZAL 76.71 ZAP 135.97 ETS 352.32 ZAE 138.59 ETE 188.21 ZAC 118.93 ETC 12.77 CLP-136.62

PLANETOCENTRIC CONIC
C3 8.643 VHL 2.940 DLA -20.17 RAL 162.90 RAD 6567.3 VEL 11.403 PTH 1.97 VHP 3.825 DPA 7.41 RAP 148.08 ECC 1.1422

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 37 2	1348.56	6.61	351.41	13.48	117.60	8 59 31	748.6	10.25	344.63
90.00	14 52 6	5362.73	27.78	244.87	17.73	84.25	16 21 28	4762.7	26.69	236.37
100.00	9 45 22	1128.06	5.55	334.62	12.90	119.42	10 4 10	528.1	9.43	327.98
100.00	16 26 27	5058.47	28.97	222.32	17.57	82.29	17 50 45	4458.5	27.60	213.79
110.00	10 25 47	1001.42	2.96	323.41	11.29	124.07	10 42 28	401.4	7.41	317.15
110.00	18 2 32	4757.87	31.97	198.87	16.94	77.21	19 21 50	4157.9	29.88	190.28

DIFFERENTIAL CORRECTIONS
TOE-1.3508 TRA .6225 TC3-5.9233 BAU .6900
ROE -.0636 RRA .1495 RC3 -.7584 FAU .11622
FOE-3.2870 FRA 2.1894 FC-11.6408 BSP 14261
BOE 1.3523 BRA .6402 BC3 5.9716 FSP -2924

MID-COURSE EXECUTION ACCURACY
SGT 4553.1 SGR 557.3 SG3 900.2
RRT .8988 RRF .9055 RTF .9819
SGB 4587.1 R23 .0466 R13 .9822
SG1 4580.7 SG2 242.8 THA 6.30

ORBIT DETERMINATION ACCURACY
ST 2663.0 SR 155.6 SS 2165.7
CRT .8780 CRS -.9060 CST -.9980
LSA 3433.6 MSA 128.0 SSA 14.3
EL1 2666.5 EL2 74.4 ALF 2.94

LAUNCH DATE MAY 30 1967 FLIGHT TIME 174.00 ARRIVAL DATE NOV 20 1967

HELIOCENTRIC CONIC DISTANCE 483.913

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.832 GAL   2.24 AZL  92.75 HCA 219.49 SMA 128.80 ECC .18148 INC 2.7512 VI  29.380
RP  107.54 LAP   1.75 LOP 107.37 VP  37.919 GAP   4.38 AZP  87.88 TAL 169.80 TAP  29.29 RCA 105.43 APO 152.18 V2  35.239
RC 114.720 GL  -25.41 GP   -7.49 ZAL  75.18 ZAP 138.83 ETS 352.42 ZAE 137.03 ETE 187.02 ZAC 118.29 ETC  13.23 CLP-139.40
```

PLANETOCENTRIC CONIC

```
C3   8.996 VHL  2.999 DLA -21.00 RAL 164.34 RAD 6567.3 VEL 11.419 PTH   1.98 VHP  3.976 DPA   8.11 RAP 148.81 ECC 1.1481
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 52 31	1320.48	7.49	349.82	15.65	117.39	9 14 31	720.5	11.10	343.00
90.00	14 48 4	5406.13	28.03	248.02	20.05	85.81	16 18 10	4806.1	27.16	239.46
100.00	9 59 45	1103.50	6.37	333.26	15.04	119.27	10 18 8	503.5	10.22	326.59
100.00	16 23 31	5098.34	29.30	225.24	19.92	83.80	17 48 29	4498.3	28.13	216.63
110.00	10 38 9	983.11	3.65	322.46	13.36	124.01	10 54 32	383.1	8.09	316.18
110.00	18 1 36	4791.49	32.45	201.37	19.35	78.62	19 21 27	4191.5	30.54	192.67

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-1.4575 TRA  .7131 TC3-5.9152 BAU  .7160    SGT 4740.4 SGR  508.9 SG3  837.3    ST  2820.4 SR   117.4 SS  2121.1
RDE -.0389 RRA  .1467 RC3 -.6738 FAU .10664    RRT  .8618 RRF  .8655 RTF  .9817    CRT  .7476 CRS -.7863 CST -.9981
FDE-3.1543 FRA 2.1704 FC-10.2619 BSP  14815    SGB 4767.7 R23  .0336 R13  .9819    LSA 3528.5 MSA  129.0 SSA   15.0
BDE 1.4580 BRA  .7281 BC3 5.9534 FSP  -2713    SG1 4760.7 SG2  257.1 THA   5.30    EL1 2821.7 EL2   77.9 ALF   1.78
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 176.00 ARRIVAL DATE NOV 22 1967

HELIOCENTRIC CONIC DISTANCE 490.035

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.810 GAL   2.45 AZL  92.82 HCA 222.73 SMA 128.65 ECC .18360 INC 2.8167 VI  29.380
RP  107.52 LAP   1.91 LOP 110.62 VP  37.908 GAP   4.77 AZP  87.93 TAL 168.98 TAP  31.71 RCA 105.03 APO 152.27 V2  35.244
RC 116.961 GL  -25.46 GP   -6.74 ZAL  73.59 ZAP 141.48 ETS 352.49 ZAE 135.60 ETE 186.12 ZAC 117.49 ETC  13.59 CLP-141.98
```

PLANETOCENTRIC CONIC

```
C3   9.377 VHL  3.062 DLA -21.73 RAL 165.88 RAD 6567.3 VEL 11.435 PTH   1.98 VHP  4.136 DPA   8.61 RAP 149.68 ECC 1.1543
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 7 45	1295.55	8.27	348.40	17.95	117.18	9 29 21	695.5	11.85	341.55
90.00	14 45 8	5447.11	28.20	251.00	22.48	87.30	16 15 55	4847.1	27.53	242.40
100.00	10 13 54	1082.08	7.08	332.07	17.31	119.12	10 31 56	482.1	10.91	325.37
100.00	16 21 41	5135.81	29.54	228.00	22.38	85.23	17 47 17	4535.8	28.57	219.33
110.00	10 50 23	967.74	4.24	321.65	15.56	123.95	11 6 30	367.7	8.67	315.36
110.00	18 1 42	4822.92	32.85	203.74	21.87	79.96	19 22 5	4222.9	31.12	194.94

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-1.5642 TRA  .8074 TC3-5.8892 BAU  .7422    SGT 4921.3 SGR  473.5 SG3  780.1    ST  2969.1 SR    93.4 SS  2077.7
RDE -.0164 RRA  .1449 RC3 -.6069 FAU .09818    RRT  .8174 RRF  .8177 RTF  .9816    CRT  .4821 CRS -.5321 CST -.9982
FDE-3.0280 FRA 2.1418 FC3-9.0646 BSP  15418    SGB 4944.0 R23  .0222 R13  .9817    LSA 3622.8 MSA  129.2 SSA   15.7
BDE 1.5643 BRA  .8203 BC3 5.9204 FSP  -2537    SG1 4936.5 SG2  271.9 THA   4.51    EL1 2969.5 EL2   81.8 ALF    .87
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 178.00 ARRIVAL DATE NOV 24 1967

HELIOCENTRIC CONIC DISTANCE 496.135

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.787 GAL   2.68 AZL  92.87 HCA 225.98 SMA 128.50 ECC .18589 INC 2.8746 VI  29.380
RP  107.51 LAP   2.07 LOP 113.86 VP  37.896 GAP   5.16 AZP  88.00 TAL 168.12 TAP  34.10 RCA 104.61 APO 152.39 V2  35.248
RC 119.197 GL  -25.40 GP   -6.11 ZAL  71.94 ZAP 143.94 ETS 352.53 ZAE 134.31 ETE 185.41 ZAC 116.54 ETC  13.86 CLP-144.39
```

PLANETOCENTRIC CONIC

```
C3   9.791 VHL  3.129 DLA -22.38 RAL 167.52 RAD 6567.4 VEL 11.453 PTH   1.99 VHP  4.303 DPA   8.94 RAP 150.69 ECC 1.1611
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 22 49	1273.41	8.95	347.13	20.37	116.98	9 44 3	673.4	12.50	340.25
90.00	14 43 9	5486.24	28.29	253.86	25.00	88.73	16 14 35	4886.2	27.82	245.23
100.00	10 27 52	1063.48	7.69	331.03	19.69	118.97	10 45 35	463.5	11.50	324.31
100.00	16 20 48	5171.39	29.72	230.63	24.93	86.60	17 46 59	4571.4	28.93	221.92
110.00	11 2 28	954.99	4.72	320.98	17.87	123.89	11 18 23	355.0	9.14	314.68
110.00	18 2 41	4852.65	33.18	205.99	24.50	81.26	19 23 33	4252.6	31.62	197.11

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-1.6664 TRA  .9103 TC3-5.8279 BAU  .7662    SGT 5085.4 SGR  447.6 SG3  726.1    ST  3100.8 SR    86.8 SS  2027.3
RDE  .0050 RRA  .1442 RC3 -.5505 FAU .09020    RRT  .7660 RRF  .7628 RTF  .9815    CRT  .0732 CRS -.1291 CST -.9983
FDE-2.8962 FRA 2.1178 FC3-7.9762 BSP  15966    SGB 5105.1 R23  .0133 R13  .9815    LSA 3703.4 MSA  130.0 SSA   16.1
BDE 1.6664 BRA  .9216 BC3 5.8538 FSP  -2371    SG1 5097.0 SG2  287.1 THA   3.87    EL1 3100.8 EL2   86.5 ALF    .12
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 180.00 ARRIVAL DATE NOV 26 1967

HELIOCENTRIC CONIC DISTANCE 502.213

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.763 GAL   2.92 AZL  92.93 HCA 229.22 SMA 128.34 ECC .18837 INC 2.9265 VI  29.380
RP  107.50 LAP   2.22 LOP 117.10 VP  37.882 GAP   5.55 AZP  88.09 TAL 167.23 TAP  36.46 RCA 104.16 APO 152.52 V2  35.252
RC 121.426 GL  -25.24 GP   -5.57 ZAL  70.26 ZAP 146.24 ETS 352.54 ZAE 133.15 ETE 184.86 ZAC 115.46 ETC  14.05 CLP-146.65
```

PLANETOCENTRIC CONIC

```
C3  10.245 VHL  3.201 DLA -22.97 RAL 169.24 RAD 6567.4 VEL 11.473 PTH   1.99 VHP  4.478 DPA   9.12 RAP 151.81 ECC 1.1686
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 37 43	1253.88	9.56	346.01	22.90	116.78	9 58 37	653.9	13.08	339.10
90.00	14 42 0	5523.84	28.32	256.61	27.62	90.11	16 14 4	4923.8	28.03	247.96
100.00	10 41 39	1047.53	8.22	330.14	22.19	118.84	10 59 6	447.5	12.01	323.39
100.00	16 20 45	5205.42	29.83	233.16	27.59	87.93	17 47 31	4605.4	29.22	224.40
110.00	11 14 26	944.72	5.11	320.44	20.28	123.84	11 30 11	344.7	9.52	314.13
110.00	18 4 27	4881.00	33.45	208.16	27.23	82.52	19 25 48	4281.0	32.06	199.21

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-1.7658 TRA 1.0223 TC3-5.7351 BAU  .7885    SGT 5236.5 SGR  429.1 SG3  675.9    ST  3218.6 SR    96.2 SS  1973.6
RDE  .0254 RRA  .1444 RC3 -.5019 FAU .08277    RRT  .7093 RRF  .7026 RTF  .9812    CRT -.2989 CRS  .2463 CST -.9984
FDE-2.7657 FRA 2.0984 FC3-6.9941 BSP  16466    SGB 5254.0 R23  .0062 R13  .9812    LSA 3774.5 MSA  131.3 SSA   16.8
BDE 1.7660 BRA 1.0324 BC3 5.7570 FSP  -2213    SG1 5245.3 SG2  302.0 THA   3.34    EL1 3218.8 EL2   91.8 ALF 179.49
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 182.00 ARRIVAL DATE NOV 28 1967

DISTANCE 508.267

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 26.738 GAL 3.18 AZL 92.97 HCA 232.47 SMA 128.17 ECC .19104 INC 2.9737 V1 29.380
RP 107.49 LAP 2.36 LOP 120.35 VP 37.867 GAP 5.95 AZP 88.19 TAL 166.32 TAP 38.79 RCA 103.69 APO 152.66 V2 35.255
RC 123.648 GL -24.99 GP -5.10 ZAL 68.53 ZAP 148.39 ETS 352.52 ZAE 132.10 ETE 184.41 ZAC 114.25 ETC 14.18 CLP-148.76

PLANETOCENTRIC CONIC
C3 10.745 VHL 3.278 DLA -23.49 RAL 171.04 RAD 6567.4 VEL 11.495 PTH 2.00 VHP 4.659 DPA 9.17 RAP 153.05 ECC 1.1768

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 52 24	1236.90	10.07	345.04	25.53	116.60	10 13 1	636.9	13.57	338.10
90.00	14 41 36	5560.12	28.28	259.27	30.32	91.44	16 14 16	4960.1	28.18	250.60
100.00	10 55 13	1034.15	8.66	329.38	24.78	118.72	11 12 27	434.1	12.43	322.62
100.00	16 21 29	5238.11	29.88	235.58	30.33	89.20	17 48 47	4638.1	29.45	226.81
110.00	11 26 15	936.83	5.41	320.03	22.79	123.80	11 41 52	336.8	9.82	313.70
110.00	18 6 56	4908.19	33.67	210.25	30.06	83.74	19 28 44	4308.2	32.44	201.24

DIFFERENTIAL CORRECTIONS
TDE-1.8603 TRA 1.1453 TC3-5.6054 BAU .8079
RDE .0455 RRA .1454 RC3 -.4585 FAU .07566
FDE-2.6335 FRA 2.0856 FC3-6.0955 BSP 16875
BDE 1.8609 BRA 1.1545 BC3 5.6241 FSP -2058

MID-COURSE EXECUTION ACCURACY
SGT 5370.5 SGR 416.4 SG3 628.7
RRT .6488 RRF .6391 RTF .9807
SGB 5386.6 R23 .0008 R13 .9807
SG1 5377.3 SG2 316.5 THA 2.89

ORBIT DETERMINATION ACCURACY
ST 3318.7 SR 115.3 SS 1914.5
CRT -.5301 CRS .4840 CST -.9985
LSA 3830.7 MSA 133.6 SSA 17.2
EL1 3319.3 EL2 97.8 ALF 178.94

LAUNCH DATE MAY 30 1967 FLIGHT TIME 184.00 ARRIVAL DATE NOV 30 1967

DISTANCE 514.297

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 26.712 GAL 3.45 AZL 93.02 HCA 235.72 SMA 128.01 ECC .19392 INC 3.0168 V1 29.380
RP 107.48 LAP 2.49 LOP 123.60 VP 37.851 GAP 6.35 AZP 88.30 TAL 165.37 TAP 41.09 RCA 103.18 APO 152.83 V2 35.257
RC 125.861 GL -24.67 GP -4.70 ZAL 66.78 ZAP 150.40 ETS 352.46 ZAE 131.15 ETE 184.05 ZAC 112.94 ETC 14.26 CLP-150.75

PLANETOCENTRIC CONIC
C3 11.300 VHL 3.362 DLA -23.95 RAL 172.88 RAD 6567.4 VEL 11.519 PTH 2.01 VHP 4.846 DPA 9.12 RAP 154.38 ECC 1.1860

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 6 49	1222.51	10.51	344.21	28.26	116.44	10 27 12	622.5	13.98	337.25
90.00	14 41 55	5595.19	28.20	261.83	33.11	92.72	16 15 11	4995.2	28.28	253.16
100.00	11 8 31	1023.36	9.01	328.78	27.46	118.62	11 25 34	423.4	12.76	322.00
100.00	16 22 55	5269.57	29.89	237.92	33.17	90.44	17 50 44	4669.6	29.63	229.13
110.00	11 37 52	931.33	5.62	319.74	25.39	123.77	11 53 23	331.3	10.02	313.41
110.00	18 10 3	4934.37	33.85	212.28	32.98	84.92	19 32 18	4334.4	32.78	203.20

DIFFERENTIAL CORRECTIONS
TDE-1.9560 TRA 1.2746 TC3-5.4631 BAU .8278
RDE .0648 RRA .1465 RC3 -.4203 FAU .06942
FDE-2.5138 FRA 2.0694 FC3-5.3186 BSP 17331
BDE 1.9570 BRA 1.2830 BC3 5.4792 FSP -1928

MID-COURSE EXECUTION ACCURACY
SGT 5500.5 SGR 408.3 SG3 586.2
RRT .5873 RRF .5744 RTF .9804
SGB 5515.6 R23 -.0043 R13 .9804
SG1 5505.7 SG2 330.1 THA 2.51

ORBIT DETERMINATION ACCURACY
ST 3411.0 SR 137.8 SS 1859.0
CRT -.6573 CRS .6172 CST -.9986
LSA 3884.8 MSA 135.7 SSA 17.4
EL1 3412.2 EL2 103.8 ALF 178.48

LAUNCH DATE MAY 30 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 2 1967

DISTANCE 520.301

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 26.686 GAL 3.74 AZL 93.06 HCA 238.97 SMA 127.83 ECC .19700 INC 3.0568 V1 29.380
RP 107.48 LAP 2.62 LOP 126.85 VP 37.834 GAP 6.75 AZP 88.42 TAL 164.40 TAP 43.37 RCA 102.65 APO 153.01 V2 35.258
RC 128.066 GL -24.29 GP -4.35 ZAL 65.00 ZAP 152.30 ETS 352.37 ZAE 130.29 ETE 183.76 ZAC 111.53 ETC 14.30 CLP-152.62

PLANETOCENTRIC CONIC
C3 11.916 VHL 3.452 DLA -24.36 RAL 174.78 RAD 6567.5 VEL 11.546 PTH 2.02 VHP 5.041 DPA 8.97 RAP 155.80 ECC 1.1961

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 20 56	1210.79	10.87	343.53	31.07	116.31	10 41 7	610.8	14.32	336.55
90.00	14 42 56	5629.07	28.06	264.30	35.98	93.95	16 16 45	5029.1	28.32	255.64
100.00	11 21 31	1015.21	9.28	328.32	30.23	118.54	11 38 26	415.2	13.02	321.53
100.00	16 25 2	5299.88	29.85	240.18	36.08	91.62	17 53 22	4699.9	29.76	231.37
110.00	11 49 15	928.20	5.74	319.57	28.07	123.76	12 4 44	328.2	10.13	313.24
110.00	18 13 47	4959.66	33.98	214.24	35.98	86.08	19 36 26	4359.7	33.07	205.12

DIFFERENTIAL CORRECTIONS
TDE-2.0492 TRA 1.4140 TC3-5.2957 BAU .8459
RDE .0841 RRA .1478 RC3 -.3852 FAU .06361
FDE-2.3976 FRA 2.0565 FC3-4.6213 BSP 17736
BDE 2.0509 BRA 1.4217 BC3 5.3097 FSP -1805

MID-COURSE EXECUTION ACCURACY
SGT 5618.9 SGR 403.4 SG3 546.8
RRT .5255 RRF .5098 RTF .9801
SGB 5633.4 R23 -.0083 R13 .9801
SG1 5623.0 SG2 343.0 THA 2.17

ORBIT DETERMINATION ACCURACY
ST 3489.6 SR 161.5 SS 1801.6
CRT -.7304 CRS .6948 CST -.9986
LSA 3928.1 MSA 138.5 SSA 17.5
EL1 3491.6 EL2 110.3 ALF 178.06

LAUNCH DATE MAY 30 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 4 1967

DISTANCE 526.277

HELIOCENTRIC CONIC
RL 151.64 LAL .00 LOL 247.92 VL 26.659 GAL 4.05 AZL 93.09 HCA 242.21 SMA 127.65 ECC .20031 INC 3.0941 V1 29.380
RP 107.48 LAP 2.74 LOP 130.10 VP 37.816 GAP 7.16 AZP 88.56 TAL 163.41 TAP 45.63 RCA 102.08 APO 153.23 V2 35.259
RC 130.261 GL -23.85 GP -4.05 ZAL 63.21 ZAP 154.10 ETS 352.24 ZAE 129.52 ETE 183.52 ZAC 110.03 ETC 14.30 CLP-154.40

PLANETOCENTRIC CONIC
C3 12.603 VHL 3.550 DLA -24.71 RAL 176.71 RAD 6567.5 VEL 11.575 PTH 2.02 VHP 5.243 DPA 8.73 RAP 157.30 ECC 1.2074

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 34 38	1201.87	11.14	343.01	33.95	116.20	10 54 40	601.9	14.57	336.01
90.00	14 44 38	5661.73	27.89	266.67	38.91	95.13	16 18 59	5061.7	28.31	258.03
100.00	11 34 8	1009.79	9.45	328.01	33.06	118.49	11 50 58	409.8	13.19	321.21
100.00	16 27 49	5329.05	29.78	242.34	39.06	92.76	17 56 38	4729.0	29.84	233.54
110.00	12 0 22	927.48	5.77	319.53	30.82	123.75	12 15 50	327.5	10.16	313.20
110.00	18 18 4	4984.12	34.08	216.14	39.06	87.20	19 41 8	4384.1	33.32	206.99

DIFFERENTIAL CORRECTIONS
TDE-2.1410 TRA 1.5629 TC3-5.1083 BAU .8627
RDE .1035 RRA .1491 RC3 -.3525 FAU .05825
FDE-2.2879 FRA 2.0450 FC3-4.0017 BSP 18124
BDE 2.1435 BRA 1.5700 BC3 5.1204 FSP -1693

MID-COURSE EXECUTION ACCURACY
SGT 5727.6 SGR 400.9 SG3 510.5
RRT .4644 RRF .4463 RTF .9797
SGB 5741.6 R23 -.0118 R13 .9797
SG1 5730.6 SG2 354.8 THA 1.87

ORBIT DETERMINATION ACCURACY
ST 3556.1 SR 185.1 SS 1744.4
CRT -.7749 CRS .7427 CST -.9987
LSA 3962.7 MSA 141.8 SSA 17.5
EL1 3559.0 EL2 116.9 ALF 177.69

LAUNCH DATE MAY 30 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 6 1967

HELIOCENTRIC CONIC DISTANCE 532.225
RL 151.64 LAL .00 LOL 247.92 VL 26.631 GAL 4.37 AZL 93.13 HCA 245.46 SMA 127.47 ECC .20386 INC 3.1293 VI 29.380
RP 107.48 LAP 2.85 LOP 133.35 VP 37.796 GAP 7.57 AZP 88.70 TAL 162.40 TAP 47.86 RCA 101.49 APO 153.46 V2 35.259
RC 132.447 GL -23.36 GP -3.78 ZAL 61.41 ZAP 155.80 ETS 352.08 ZAE 128.83 ETE 183.31 ZAC 108.45 ETC 14.28 CLP-156.08

PLANETOCENTRIC CONIC
C3 13.369 VHL 3.656 DLA -25.02 RAL 178.66 RAD 6567.5 VEL 11.608 PTH 2.03 VHP 5.452 DPA 8.42 RAP 158.87 ECC 1.2200

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 47 51	1195.93	11.31	342.66	36.89	116.13	11 7 47	595.9	14.74	335.66
90.00	14 47 0	5693.11	27.67	268.94	41.91	96.25	16 21 53	5093.1	28.25	260.32
100.00	11 46 19	1007.19	9.54	327.87	35.96	118.46	12 3 6	407.2	13.27	321.06
100.00	16 31 14	5357.07	29.67	244.42	42.11	93.85	18 0 31	4757.1	29.88	235.62
110.00	12 11 10	929.20	5.70	319.62	33.62	123.76	12 26 40	329.2	10.10	313.29
110.00	18 22 52	5007.83	34.15	217.99	42.21	88.29	19 46 19	4407.8	33.53	208.80

DIFFERENTIAL CORRECTIONS
TDE-2.2313 TRA 1.7229 TC3-4.9034 BAU .8783
RDE .1230 RRA .1503 RC3 -.3218 FAU .05330
FDE-2.1835 FRA 2.0367 FC3-3.4512 BSP 18479
BDE 2.2347 BRA 1.7294 BC3 4.9139 FSP -1589

MID-COURSE EXECUTION ACCURACY
SGT 5827.5 SGR 400.1 SG3 477.0
RRT .4049 RRF .3847 RTF .9793
SGB 5841.2 R23 -.0147 R13 .9792
SG1 5829.8 SG2 365.7 THA 1.60

ORBIT DETERMINATION ACCURACY
ST 3610.5 SR 208.0 SS 1687.2
CRT -.8034 CRS .7738 CST -.9988
LSA 3988.0 MSA 145.6 SSA 17.4
EL1 3614.4 EL2 123.7 ALF 177.35

LAUNCH DATE MAY 30 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 8 1967

HELIOCENTRIC CONIC DISTANCE 538.142
RL 151.64 LAL .00 LOL 247.92 VL 26.603 GAL 4.72 AZL 93.16 HCA 248.71 SMA 127.29 ECC .20767 INC 3.1626 VI 29.380
RP 107.48 LAP 2.95 LOP 136.60 VP 37.776 GAP 8.00 AZP 88.85 TAL 161.37 TAP 50.08 RCA 100.86 APO 153.73 V2 35.258
RC 134.624 GL -22.82 GP -3.54 ZAL 59.61 ZAP 157.42 ETS 351.87 ZAE 128.20 ETE 183.13 ZAC 106.80 ETC 14.24 CLP-157.69

PLANETOCENTRIC CONIC
C3 14.226 VHL 3.772 DLA -25.28 RAL 180.63 RAD 6567.6 VEL 11.645 PTH 2.04 VHP 5.669 DPA 8.04 RAP 160.50 ECC 1.2341

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 0 30	1193.13	11.40	342.50	39.89	116.10	11 20 23	593.1	14.82	335.49
90.00	14 50 5	5723.10	27.43	271.10	44.97	97.31	16 25 28	5123.1	28.16	262.51
100.00	11 57 59	1007.53	9.53	327.88	38.90	118.47	12 14 46	407.5	13.26	321.08
100.00	16 35 17	5383.94	29.53	246.40	45.22	94.88	18 5 1	4783.9	29.89	237.62
110.00	12 21 36	933.40	5.54	319.84	36.48	123.78	12 37 10	333.4	9.94	313.52
110.00	18 28 9	5030.83	34.18	219.79	45.42	89.35	19 51 59	4430.8	33.71	210.57

DIFFERENTIAL CORRECTIONS
TDE-2.3173 TRA 1.8971 TC3-4.6738 BAU .8906
RDE .1430 RRA .1513 RC3 -.2923 FAU .04851
FDE-2.0810 FRA 2.0340 FC3-2.9523 BSP 18733
BDE 2.3217 BRA 1.9031 BC3 4.6829 FSP -1484

MID-COURSE EXECUTION ACCURACY
SGT 5914.4 SGR 400.5 SG3 445.9
RRT .3475 RRF .3257 RTF .9787
SGB 5927.9 R23 -.0168 R13 .9787
SG1 5916.0 SG2 375.5 THA 1.35

ORBIT DETERMINATION ACCURACY
ST 3649.3 SR 230.3 SS 1628.1
CRT -.8222 CRS .7942 CST -.9988
LSA 3999.8 MSA 150.3 SSA 17.2
EL1 3654.2 EL2 130.9 ALF 177.03

LAUNCH DATE MAY 30 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 10 1967

HELIOCENTRIC CONIC DISTANCE 544.025
RL 151.64 LAL .00 LOL 247.92 VL 26.575 GAL 5.09 AZL 93.19 HCA 251.96 SMA 127.11 ECC .21175 INC 3.1946 VI 29.380
RP 107.48 LAP 3.04 LOP 139.85 VP 37.754 GAP 8.43 AZP 89.01 TAL 160.32 TAP 52.28 RCA 100.19 APO 154.02 V2 35.256
RC 136.791 GL -22.24 GP -3.34 ZAL 57.82 ZAP 158.97 ETS 351.62 ZAE 127.62 ETE 182.98 ZAC 105.09 ETC 14.18 CLP-159.22

PLANETOCENTRIC CONIC
C3 15.185 VHL 3.897 DLA -25.49 RAL 182.61 RAD 6567.6 VEL 11.686 PTH 2.06 VHP 5.894 DPA 7.60 RAP 162.18 ECC 1.2499

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 12 28	1193.69	11.38	342.53	42.92	116.10	11 32 21	593.7	14.80	335.52
90.00	14 53 52	5751.59	27.17	273.15	48.08	98.30	16 29 44	5151.6	28.04	264.59
100.00	12 9 5	1010.89	9.42	328.07	41.89	118.50	12 25 55	410.9	13.15	321.28
100.00	16 39 56	5409.62	29.36	248.29	48.39	95.86	18 10 6	4809.6	29.87	239.53
110.00	12 31 38	940.12	5.29	320.20	39.37	123.82	12 47 18	340.1	9.69	313.88
110.00	18 33 52	5053.15	34.18	221.53	48.70	90.39	19 58 5	4453.2	33.86	212.30

DIFFERENTIAL CORRECTIONS
TDE-2.4062 TRA 2.0791 TC3-4.4432 BAU .9036
RDE .1632 RRA .1518 RC3 -.2648 FAU .04430
FDE-1.9895 FRA 2.0289 FC3-2.5255 BSP 19055
BDE 2.4117 BRA 2.0847 BC3 4.4510 FSP -1397

MID-COURSE EXECUTION ACCURACY
SGT 5998.2 SGR 401.6 SG3 417.5
RRT .2918 RRF .2687 RTF .9783
SGB 6011.6 R23 -.0188 R13 .9783
SG1 5999.3 SG2 384.1 THA 1.12

ORBIT DETERMINATION ACCURACY
ST 3682.4 SR 251.2 SS 1573.3
CRT -.8355 CRS .8091 CST -.9988
LSA 4009.3 MSA 154.8 SSA 17.0
EL1 3688.4 EL2 137.8 ALF 176.73

LAUNCH DATE MAY 30 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 12 1967

HELIOCENTRIC CONIC DISTANCE 549.873
RL 151.64 LAL .00 LOL 247.92 VL 26.546 GAL 5.48 AZL 93.23 HCA 255.20 SMA 126.92 ECC .21613 INC 3.2254 VI 29.380
RP 107.49 LAP 3.12 LOP 143.10 VP 37.732 GAP 8.88 AZP 89.18 TAL 159.26 TAP 54.47 RCA 99.49 APO 154.35 V2 35.254
RC 138.949 GL -21.64 GP -3.15 ZAL 56.04 ZAP 160.45 ETS 351.32 ZAE 127.10 ETE 182.84 ZAC 103.32 ETC 14.11 CLP-160.69

PLANETOCENTRIC CONIC
C3 16.260 VHL 4.032 DLA -25.66 RAL 184.58 RAD 6567.7 VEL 11.732 PTH 2.07 VHP 6.129 DPA 7.11 RAP 163.91 ECC 1.2676

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 23 41	1197.75	11.26	342.77	45.99	116.15	11 43 38	597.7	14.69	335.77
90.00	14 58 22	5778.48	26.89	275.07	51.24	99.22	16 34 41	5178.5	27.89	266.54
100.00	12 19 33	1017.36	9.21	328.44	44.91	118.57	12 36 30	417.4	12.95	321.65
100.00	16 45 12	5434.10	29.18	250.09	51.61	96.79	18 15 46	4834.1	29.81	241.34
110.00	12 41 13	949.36	4.94	320.68	42.30	123.87	12 57 2	349.4	9.35	314.38
110.00	18 40 1	5074.87	34.16	223.23	52.02	91.39	20 4 35	4474.9	33.97	213.99

DIFFERENTIAL CORRECTIONS
TDE-2.4941 TRA 2.2734 TC3-4.2021 BAU .9149
RDE .1839 RRA .1517 RC3 -.2385 FAU .04036
FDE-1.9030 FRA 2.0260 FC3-2.1487 BSP 19339
BDE 2.5009 BRA 2.2784 BC3 4.2089 FSP -1315

MID-COURSE EXECUTION ACCURACY
SGT 6073.5 SGR 403.1 SG3 391.3
RRT .2381 RRF .2139 RTF .9779
SGB 6086.8 R23 -.0205 R13 .9779
SG1 6074.2 SG2 391.5 THA .91

ORBIT DETERMINATION ACCURACY
ST 3704.7 SR 271.1 SS 1519.4
CRT -.8448 CRS .8198 CST -.9989
LSA 4010.2 MSA 159.6 SSA 16.7
EL1 3711.8 EL2 144.8 ALF 176.46

LAUNCH DATE MAY 30 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 14 1967

HELIOCENTRIC CONIC DISTANCE 555.681

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.517 GAL   5.89 AZL  93.26 HCA 258.45 SMA 126.73 ECC .22083 INC 3.2552 V1  29.380
RP  107.50 LAP   3.19 LOP 146.35 VP  37.708 GAP   9.34 AZP  89.35 TAL 158.19 TAP  56.64 RCA  98.75 APO 154.72 V2  35.251
RC 141.095 GL  -21.00 GP   -2.98 ZAL  54.28 ZAP 161.87 ETS 350.97 ZAE 126.62 ETE 182.72 ZAC 101.51 ETC  14.04 CLP-162.11
```

PLANETOCENTRIC CONIC

```
C3  17.467 VHL  4.179 DLA -25.79 RAL 186.54 RAD 6567.7 VEL 11.783 PTH   2.08 VHP  6.374 CPA   6.57 RAP 165.68 ECC 1.2875
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 34 4	1205.45	11.03	343.22	49.07	116.25	11 54 10	605.5	14.47	336.23
90.00	15 3 36	5803.70	26.60	276.86	54.45	100.08	16 40 20	5203.7	27.72	268.37
100.00	12 29 20	1026.98	8.89	328.98	47.94	118.66	12 46 27	427.0	12.65	322.21
100.00	16 51 1	5457.41	28.98	251.79	54.87	97.67	18 21 59	4857.4	29.74	243.07
110.00	12 50 20	961.13	4.49	321.30	45.25	123.92	13 6 21	361.1	8.91	315.01
110.00	18 46 31	5096.03	34.11	224.88	55.39	92.37	20 11 27	4496.0	34.06	215.63

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.5811 TRA 2.4807 TC3-3.9536 BAU  .9246   SGT 6140.8 SGR  404.8 SG3  367.1     ST  3716.9 SR   289.7 SS  1466.7
RDE  .2052 RRA  .1510 RC3 -.2136 FAU .03667   RRT  .1862 RRF  .1614 RTF  .9775    CRT -.8514 CRS  .8275 CST -.9989
FDE-1.8215 FRA 2.0252 FC3-1.8176 BSP  19597   SGB 6154.1 R23 -.0217 R13  .9775    LSA 4002.9 MSA  164.6 SSA   16.4
BDE 2.5893 BRA 2.4853 BC3 3.9594 FSP  -1238   SG1 6141.3 SG2  397.7 THA    .71    EL1 3725.1 EL2  151.6 ALF 176.20
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 16 1967

HELIOCENTRIC CONIC DISTANCE 561.447

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.488 GAL   6.33 AZL  93.28 HCA 261.70 SMA 126.55 ECC .22587 INC 3.2844 V1  29.380
RP  107.51 LAP   3.25 LOP 149.60 VP  37.684 GAP   9.81 AZP  89.53 TAL 157.11 TAP  58.81 RCA  97.96 APO 155.13 V2  35.247
RC 143.232 GL  -20.34 GP   -2.83 ZAL  52.54 ZAP 163.24 ETS 350.56 ZAE 126.19 ETE 182.61 ZAC  99.65 ETC  13.97 CLP-163.47
```

PLANETOCENTRIC CONIC

```
C3  18.823 VHL  4.339 DLA -25.88 RAL 188.47 RAD 6567.8 VEL 11.841 PTH   2.10 VHP  6.630 CPA   5.98 RAP 167.48 ECC 1.3098
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 43 35	1216.88	10.68	343.88	52.16	116.38	12 3 52	616.9	14.14	336.91
90.00	15 9 33	5827.21	26.31	278.52	57.70	100.86	16 46 40	5227.2	27.55	270.07
100.00	12 38 26	1039.77	8.47	329.70	50.99	118.77	12 55 46	439.8	12.25	322.95
100.00	16 57 23	5479.56	28.77	253.41	58.17	98.49	18 28 43	4879.6	29.64	244.71
110.00	12 58 57	975.40	3.95	322.05	48.22	123.98	13 15 12	375.4	8.38	315.77
110.00	18 53 22	5116.69	34.04	226.49	58.81	93.32	20 18 39	4516.7	34.13	217.24

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.6649 TRA 2.7046 TC3-3.6949 BAU  .9310   SGT 6198.7 SGR  406.6 SG3  344.6     ST  3716.6 SR   307.2 SS  1414.0
RDE  .2272 RRA  .1495 RC3 -.1899 FAU .03312   RRT  .1363 RRF  .1116 RTF  .9770    CRT -.8557 CRS  .8325 CST -.9990
FDE-1.7423 FRA 2.0289 FC3-1.5233 BSP  19760   SGB 6212.0 R23 -.0224 R13  .9770    LSA 3984.7 MSA  170.0 SSA   16.1
BDE 2.6746 BRA 2.7087 BC3 3.6998 FSP  -1161   SG1 6198.9 SG2  402.8 THA    .51    EL1 3725.9 EL2  158.5 ALF 175.95
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 18 1967

HELIOCENTRIC CONIC DISTANCE 567.165

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.458 GAL   6.80 AZL  93.31 HCA 264.94 SMA 126.36 ECC .23129 INC 3.3131 V1  29.380
RP  107.53 LAP   3.30 LOP 152.85 VP  37.659 GAP  10.30 AZP  89.71 TAL 156.02 TAP  60.97 RCA  97.13 APO 155.58 V2  35.243
RC 145.356 GL  -19.67 GP   -2.70 ZAL  50.84 ZAP 164.56 ETS 350.07 ZAE 125.78 ETE 182.51 ZAC  97.75 ETC  13.90 CLP-164.79
```

PLANETOCENTRIC CONIC

```
C3  20.350 VHL  4.511 DLA -25.92 RAL 190.38 RAD 6567.8 VEL 11.905 PTH   2.12 VHP  6.897 CPA   5.35 RAP 169.31 ECC 1.3349
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 52 11	1232.05	10.22	344.76	55.26	116.55	12 12 43	632.0	13.71	337.81
90.00	15 16 11	5849.03	26.02	280.05	60.98	101.58	16 53 40	5249.0	27.36	271.63
100.00	12 46 48	1055.70	7.95	330.59	54.05	118.91	13 4 23	455.7	11.75	323.86
100.00	17 4 16	5500.61	28.55	254.93	61.50	99.27	18 35 56	4900.6	29.53	246.27
110.00	13 7 3	992.15	3.31	322.93	51.20	124.04	13 23 35	392.2	7.76	316.66
110.00	19 0 30	5136.92	33.95	228.06	62.25	94.24	20 26 7	4536.9	34.17	218.82

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.7530 TRA 2.9389 TC3-3.4421 BAU  .9376   SGT 6252.7 SGR  408.1 SG3  324.0     ST  3712.9 SR   323.1 SS  1365.7
RDE  .2496 RRA  .1470 RC3 -.1678 FAU .02994   RRT  .0874 RRF  .0628 RTF  .9767    CRT -.8591 CRS  .8366 CST -.9990
FDE-1.6721 FRA 2.0316 FC3-1.2735 BSP  19994   SGB 6266.0 R23 -.0230 R13  .9767    LSA 3965.4 MSA  175.0 SSA   15.7
BDE 2.7643 BRA 2.9426 BC3 3.4462 FSP  -1097   SG1 6252.8 SG2  406.5 THA    .33    EL1 3723.3 EL2  164.9 ALF 175.72
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 204.00 ARRIVAL DATE DEC 20 1967

HELIOCENTRIC CONIC DISTANCE 572.831

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.428 GAL   7.29 AZL  93.34 HCA 268.19 SMA 126.17 ECC .23712 INC 3.3414 V1  29.380
RP  107.54 LAP   3.34 LOP 156.10 VP  37.633 GAP  10.81 AZP  89.89 TAL 154.93 TAP  63.12 RCA  96.25 APO 156.08 V2  35.237
RC 147.469 GL  -18.98 GP   -2.58 ZAL  49.16 ZAP 165.84 ETS 349.50 ZAE 125.40 ETE 182.41 ZAC  95.82 ETC  13.83 CLP-166.07
```

PLANETOCENTRIC CONIC

```
C3  22.071 VHL  4.698 DLA -25.93 RAL 192.26 RAD 6567.9 VEL 11.977 PTH   2.13 VHP  7.179 CPA   4.69 RAP 171.17 ECC 1.3632
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 59 51	1250.91	9.65	345.84	58.35	116.75	12 20 42	650.9	13.16	338.93
90.00	15 23 28	5869.21	25.74	281.46	64.30	102.23	17 1 17	5269.2	27.17	273.08
100.00	12 54 25	1074.71	7.32	331.66	57.10	119.06	13 12 20	474.7	11.14	324.95
100.00	17 11 35	5520.64	28.32	256.38	64.87	99.99	18 43 36	4920.6	29.41	247.74
110.00	13 14 37	1011.33	2.58	323.93	54.18	124.10	13 31 28	411.3	7.04	317.68
110.00	19 7 53	5156.79	33.84	229.60	65.73	95.15	20 33 50	4556.8	34.18	220.37

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.8416 TRA 3.1881 TC3-3.1898 BAU  .9422   SGT 6299.6 SGR  409.3 SG3  304.9     ST  3701.4 SR   337.7 SS  1319.6
RDE  .2727 RRA  .1433 RC3 -.1472 FAU .02696   RRT  .0396 RRF  .0155 RTF  .9765    CRT -.8613 CRS  .8397 CST -.9991
FDE-1.6066 FRA 2.0362 FC3-1.0574 BSP  20203   SGB 6312.9 R23 -.0233 R13  .9765    LSA 3939.9 MSA  179.9 SSA   15.4
BDE 2.8547 BRA 3.1913 BC3 3.1932 FSP  -1036   SG1 6299.6 SG2  409.0 THA    .15    EL1 3712.9 EL2  171.0 ALF 175.50
```

```
LAUNCH DATE  MAY 30 1967                          FLIGHT TIME 206.00                          ARRIVAL DATE  DEC 22 1967

 HELIOCENTRIC CONIC                                DISTANCE 578.438
  RL  151.64 LAL     .00 LOL 247.92 VL  26.398 GAL   7.82 AZL  93.37 HCA 271.43 SMA 125.98 ECC .24341 INC 3.3697 VI  29.380
  RP  107.56 LAP    3.37 LOP 159.35 VP  37.606 GAP  11.35 AZP  90.08 TAL 153.84 TAP  65.27 RCA  95.31 APO 156.64 V2  35.231
  RC 149.570 GL   -18.28 GP   -2.47 ZAL  47.53 ZAP 167.09 ETS 348.82 ZAE 125.04 ETE 182.32 ZAC  93.86 ETC  13.77 CLP-167.32
 PLANETOCENTRIC CONIC
  C3  24.016 VHL  4.901 DLA -25.91 RAL 194.09 RAD 6568.0 VEL 12.058 PTH   2.16 VHP  7.475 DPA   4.00 RAP 173.04 ECC 1.3952
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00    12  6 37   1273.34      8.96     347.13      61.42      116.98   12 27 50     673.3      12.51     340.25
     90.00    15 31 20   5887.90     25.46     282.76      67.65      102.82   17  9 28    5287.9      26.98     274.42
    100.00    13  1 19   1096.72      6.59     332.88      60.15      119.22   13 19 36     496.7      10.44     326.21
    100.00    17 19 20   5539.76     28.09     257.75      68.26      100.68   18 51 39    4939.8      29.27     249.15
    110.00    13 21 40   1032.87      1.76     325.06      57.16      124.14   13 38 53     432.9       6.22     318.82
    110.00    19 15 28   5176.37     33.71     231.12      69.23       96.04   20 41 45    4576.4      34.18     221.90
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE-2.9311 TRA 3.4537 TC3-2.9394 BAU  .9446      SGT 6340.0 SGR  410.2 SG3  287.2         ST  3683.1 SR   350.8 SS  1275.6
  RDE  .2965 RRA  .1385 RC3 -.1280 FAU .02416      RRT -.0070 RRF -.0302 RTF  .9763         CRT -.8628 CRS  .8417 CST -.9991
  FDE-1.5456 FRA 2.0433 FC3 -.8708 BSP  20387      SGB 6353.2 R23  .0233 R13 -.9763         LSA 3909.1 MSA  184.6 SSA   15.0
  BDE 2.9461 BRA 3.4565 BC3 2.9422 FSP   -979      SG1 6340.0 SG2  410.2 THA 179.97         EL1 3695.5 EL2  176.8 ALF 175.29

LAUNCH DATE  MAY 30 1967                          FLIGHT TIME 208.00                          ARRIVAL DATE  DEC 24 1967

 HELIOCENTRIC CONIC                                DISTANCE 583.980
  RL  151.64 LAL     .00 LOL 247.92 VL  26.368 GAL   8.38 AZL  93.40 HCA 274.67 SMA 125.79 ECC .25019 INC 3.3981 VI  29.380
  RP  107.58 LAP    3.39 LOP 162.60 VP  37.579 GAP  11.90 AZP  90.28 TAL 152.75 TAP  67.42 RCA  94.32 APO 157.26 V2  35.225
  RC 151.657 GL   -17.58 GP   -2.37 ZAL  45.93 ZAP 168.31 ETS 348.01 ZAE 124.71 ETE 182.23 ZAC  91.88 ETC  13.71 CLP-168.55
 PLANETOCENTRIC CONIC
  C3  26.216 VHL  5.120 DLA -25.85 RAL 195.88 RAD 6568.1 VEL 12.149 PTH   2.18 VHP  7.788 DPA   3.27 RAP 174.93 ECC 1.4314
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00    12 12 30   1299.17      8.16     348.60      64.48      117.21   12 34  9     699.2      11.74     341.76
     90.00    15 39 43    617.23     25.20     306.05      71.03      103.37   15 50  1      17.2      26.79     297.75
    100.00    13  7 30   1121.58      5.77     334.26      63.19      119.38   13 26 11     521.6       9.64     327.62
    100.00    17 27 25   5558.09     27.85     259.06      71.68      101.33   19  0  3    4958.1      29.13     250.49
    110.00    13 28 11   1056.69       .84     326.30      60.13      124.17   13 45 47     456.7       5.32     320.08
    110.00    19 23 13   5195.75     33.56     232.61      72.74       96.91   20 49 49    4595.7      34.15     223.42
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE-3.0182 TRA 3.7400 TC3-2.6873 BAU  .9427      SGT 6372.3 SGR  410.8 SG3  270.7         ST  3655.2 SR   362.4 SS  1232.5
  RDE  .3208 RRA  .1323 RC3 -.1104 FAU .02140      RRT -.0521 RRF -.0738 RTF  .9762         CRT -.8632 CRS  .8426 CST -.9991
  FDE-1.4865 FRA 2.0548 FC3 -.7067 BSP  20461      SGB 6385.5 R23  .0228 R13 -.9762         LSA 3869.7 MSA  189.4 SSA   14.6
  BDE 3.0352 BRA 3.7424 BC3 2.6896 FSP   -921      SG1 6372.3 SG2  410.2 THA 179.81         EL1 3668.6 EL2  182.3 ALF 175.10

LAUNCH DATE  MAY 30 1967                          FLIGHT TIME 210.00                          ARRIVAL DATE  DEC 26 1967

 HELIOCENTRIC CONIC                                DISTANCE 589.448
  RL  151.64 LAL     .00 LOL 247.92 VL  26.338 GAL   8.98 AZL  93.43 HCA 277.91 SMA 125.60 ECC .25752 INC 3.4267 VI  29.380
  RP  107.60 LAP    3.39 LOP 165.84 VP  37.551 GAP  12.49 AZP  90.47 TAL 151.67 TAP  69.58 RCA  93.26 APO 157.94 V2  35.217
  RC 153.730 GL   -16.87 GP   -2.28 ZAL  44.39 ZAP 169.50 ETS 347.02 ZAE 124.38 ETE 182.15 ZAC  89.88 ETC  13.67 CLP-169.75
 PLANETOCENTRIC CONIC
  C3  28.711 VHL  5.358 DLA -25.75 RAL 197.62 RAD 6568.2 VEL 12.251 PTH   2.20 VHP  8.119 DPA   2.53 RAP 176.84 ECC 1.4725
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00    12 17 32   1328.19      7.25     350.25      67.52      117.45   12 39 41     728.2      10.87     343.45
     90.00    15 48 32    633.45     24.94     307.17      74.42      103.87   15 59  6      33.5      26.60     298.90
    100.00    13 12 59   1149.17      4.84     335.79      66.20      119.53   13 32  8     549.2       8.74     329.17
    100.00    17 35 47   5575.74     27.60     260.32      75.10      101.95   19  8 43    4975.7      28.97     251.78
    110.00    13 34 10   1082.71      -.15     327.66      63.10      124.18   13 52 13     482.7       4.34     321.44
    110.00    19 31  5   5214.97     33.39     234.09      76.27       97.77   20 58  0    4615.0      34.11     224.92
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE-3.1121 TRA 4.0402 TC3-2.4480 BAU  .9403      SGT 6400.3 SGR  410.9 SG3  255.5         ST  3626.4 SR   372.4 SS  1194.0
  RDE  .3458 RRA  .1246 RC3 -.0944 FAU .01893      RRT -.0972 RRF -.1174 RTF  .9762         CRT -.8636 CRS  .8436 CST -.9992
  FDE-1.4351 FRA 2.0659 FC3 -.5709 BSP  20621      SGB 6413.5 R23  .0223 R13 -.9762         LSA 3831.1 MSA  193.3 SSA   14.2
  BDE 3.1312 BRA 4.0421 BC3 2.4498 FSP   -872      SG1 6400.4 SG2  409.0 THA 179.64         EL1 3640.7 EL2  187.0 ALF 174.92

LAUNCH DATE  MAY 30 1967                          FLIGHT TIME 212.00                          ARRIVAL DATE  DEC 28 1967

 HELIOCENTRIC CONIC                                DISTANCE 594.832
  RL  151.64 LAL     .00 LOL 247.92 VL  26.308 GAL   9.62 AZL  93.46 HCA 281.15 SMA 125.41 ECC .26545 INC 3.4557 VI  29.380
  RP  107.63 LAP    3.39 LOP 169.09 VP  37.523 GAP  13.10 AZP  90.67 TAL 150.60 TAP  71.75 RCA  92.12 APO 158.70 V2  35.210
  RC 155.789 GL   -16.16 GP   -2.20 ZAL  42.89 ZAP 170.67 ETS 345.79 ZAE 124.07 ETE 182.07 ZAC  87.87 ETC  13.64 CLP-170.93
 PLANETOCENTRIC CONIC
  C3  31.547 VHL  5.617 DLA -25.63 RAL 199.30 RAD 6568.3 VEL 12.366 PTH   2.23 VHP  8.472 DPA   1.77 RAP 178.75 ECC 1.5192
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00    12 21 48   1360.14      6.24     352.06      70.52      117.68   12 44 28     760.1       9.90     345.29
     90.00    15 57 42    648.74     24.68     308.22      77.83      104.34   16  8 30      48.7      26.41     299.98
    100.00    13 17 48   1179.32      3.83     337.45      69.20      119.67   13 37 27     579.3       7.75     330.86
    100.00    17 44 23   5592.84     27.36     261.53      78.54      102.54   19 17 35    4992.8      28.81     253.03
    110.00    13 39 38   1110.82     -1.23     329.12      66.05      124.16   13 58  8     510.8       3.27     322.92
    110.00    19 39  2   5234.11     33.21     235.55      79.81       98.61   21  6 16    4634.1      34.04     226.41
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE-3.2089 TRA 4.3602 TC3-2.2157 BAU  .9351      SGT 6422.5 SGR  410.6 SG3  241.4         ST  3593.2 SR   380.9 SS  1158.1
  RDE  .3714 RRA  .1152 RC3 -.0800 FAU .01660      RRT -.1416 RRF -.1601 RTF  .9764         CRT -.8637 CRS  .8442 CST -.9992
  FDE-1.3880 FRA 2.0798 FC3 -.4555 BSP  20766      SGB 6435.6 R23  .0215 R13 -.9764         LSA 3789.3 MSA  196.7 SSA   13.9
  BDE 3.2303 BRA 4.3618 BC3 2.2172 FSP   -826      SG1 6422.8 SG2  406.4 THA 179.48         EL1 3608.3 EL2  191.1 ALF 174.75
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 214.00 ARRIVAL DATE DEC 30 1967

HELIOCENTRIC CONIC DISTANCE 600.119

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.278 GAL  10.31 AZL  93.49 HCA 284.39 SMA 125.23 ECC .27406 INC 3.4854 VI  29.380
RP  107.65 LAP   3.38 LOP 172.33 VP  37.494 GAP  13.75 AZP  90.87 TAL 149.54 TAP  73.93 RCA  90.91 APO 159.55 V2  35.201
RC 157.834 GL  -15.46 GP   -2.13 ZAL  41.44 ZAP 171.81 ETS 344.23 ZAE 123.76 ETE 181.99 ZAC  85.84 ETC  13.62 CLP-172.09
```

PLANETOCENTRIC CONIC

```
C3  34.781 VHL  5.898 DLA -25.48 RAL 200.92 RAD 6568.4 VEL 12.496 PTH   2.26 VHP  8.848 DPA    .98 RAP 180.67 ECC 1.5724
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 25 19	1394.78	5.14	354.01	73.50	117.88	12 48 33	794.8	8.84	347.28
90.00	16 7 7	663.29	24.43	309.21	81.25	104.78	16 18 10	63.3	26.23	301.00
100.00	13 21 58	1211.85	2.73	339.24	72.17	119.78	13 42 10	611.8	6.67	332.68
100.00	17 53 8	5609.50	27.11	262.70	81.98	103.11	19 26 38	5009.5	28.64	254.24
110.00	13 44 35	1140.91	-2.37	330.69	68.99	124.11	14 3 35	540.9	2.12	324.49
110.00	19 47 1	5253.20	33.00	237.00	83.34	99.45	21 14 34	4653.2	33.96	227.89

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-3.3085 TRA 4.7018 TC3-1.9905 BAU  .9261   SGT 6438.1 SGR  409.8 SG3  228.2          ST  3555.5 SR   387.7 SS  1124.9
 RDE  .3975 RRA  .1040 RC3 -.0671 FAU .01436   RRT -.1854 RRF -.2019 RTF  .9766          CRT -.8635 CRS  .8446 CST -.9993
 FDE-1.3447 FRA 2.0967 FC3 -.3575 BSP  20880   SGB 6451.2 R23  .0205 R13 -.9767          LSA 3743.9 MSA  199.7 SSA   13.5
 BDE 3.3323 BRA 4.7029 BC3 1.9916 FSP   -783   SGI 6438.6 SG2  402.7 THA 179.32          EL1 3571.2 EL2  194.7 ALF 174.60
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 1 1968

HELIOCENTRIC CONIC DISTANCE 605.295

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.248 GAL  11.05 AZL  93.52 HCA 287.63 SMA 125.04 ECC .28342 INC 3.5159 VI  29.380
RP  107.68 LAP   3.35 LOP 175.58 VP  37.464 GAP  14.45 AZP  91.07 TAL 148.50 TAP  76.13 RCA  89.60 APO 160.48 V2  35.192
RC 159.863 GL  -14.76 GP   -2.06 ZAL  40.05 ZAP 172.95 ETS 342.18 ZAE 123.45 ETE 181.91 ZAC  83.82 ETC  13.62 CLP-173.25
```

PLANETOCENTRIC CONIC

```
C3  38.478 VHL  6.203 DLA -25.31 RAL 202.48 RAD 6568.5 VEL 12.643 PTH   2.30 VHP  9.251 DPA    .19 RAP 182.59 ECC 1.6333
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 28 9	1431.85	3.96	356.10	76.45	118.06	12 52 0	831.8	7.68	349.39
90.00	16 16 42	677.28	24.19	310.16	84.66	105.19	16 28 0	77.3	26.04	301.98
100.00	13 25 31	1246.59	1.55	341.15	75.12	119.86	13 46 18	646.6	5.52	334.61
100.00	18 2 1	5625.81	26.85	263.85	85.42	103.66	19 35 46	5025.8	28.46	255.42
110.00	13 49 1	1172.88	-3.69	332.36	71.91	124.02	14 8 34	572.9	.90	326.16
110.00	19 55 0	5272.28	32.78	238.45	86.87	100.28	21 22 53	4672.3	33.85	229.37

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-3.4128 TRA 5.0669 TC3-1.7741 BAU  .9131   SGT 6448.4 SGR  408.6 SG3  216.0          ST  3514.7 SR   392.9 SS  1094.7
 RDE  .4243 RRA  .0909 RC3 -.0557 FAU .01223   RRT -.2286 RRF -.2430 RTF  .9771          CRT -.8632 CRS  .8447 CST -.9993
 FDE-1.3057 FRA 2.1170 FC3 -.2752 BSP  20980   SGB 6461.4 R23  .0192 R13 -.9771          LSA 3696.6 MSA  202.0 SSA   13.1
 BDE 3.4391 BRA 5.0677 BC3 1.7750 FSP   -742   SGI 6449.1 SG2  397.8 THA 179.17          EL1 3531.1 EL2  197.4 ALF 174.47
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 3 1968

HELIOCENTRIC CONIC DISTANCE 610.343

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.219 GAL  11.84 AZL  93.55 HCA 290.86 SMA 124.86 ECC .29362 INC 3.5476 VI  29.380
RP  107.71 LAP   3.31 LOP 178.82 VP  37.435 GAP  15.19 AZP  91.26 TAL 147.49 TAP  78.36 RCA  88.20 APO 161.52 V2  35.183
RC 161.876 GL  -14.06 GP   -2.00 ZAL  38.72 ZAP 174.06 ETS 339.36 ZAE 123.13 ETE 181.83 ZAC  81.79 ETC  13.63 CLP-174.41
```

PLANETOCENTRIC CONIC

```
C3  42.721 VHL  6.536 DLA -25.11 RAL 203.97 RAD 6568.6 VEL 12.810 PTH   2.33 VHP  9.684 DPA   -.61 RAP 184.51 ECC 1.7031
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 30 20	1471.11	2.70	358.29	79.36	118.20	12 54 51	871.1	6.45	351.62
90.00	16 26 24	690.83	23.94	311.08	88.06	105.59	16 37 55	90.8	25.85	302.93
100.00	13 28 29	1283.36	.31	343.17	78.03	119.89	13 49 52	683.4	4.28	336.64
100.00	18 10 56	5641.85	26.59	264.97	88.84	104.19	19 44 58	5041.8	28.28	256.57
110.00	13 52 57	1206.61	-4.88	334.13	74.81	123.88	14 13 4	606.6	-.39	327.92
110.00	20 2 58	5291.36	32.54	239.88	90.38	101.10	21 31 9	4691.4	33.73	230.85

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-3.5192 TRA 5.4606 TC3-1.5644 BAU  .8939   SGT 6453.1 SGR  406.9 SG3  204.6          ST  3469.2 SR   396.4 SS  1066.6
 RDE  .4515 RRA  .0755 RC3 -.0459 FAU .01011   RRT -.2711 RRF -.2829 RTF  .9776          CRT -.8625 CRS  .8444 CST -.9993
 FDE-1.2692 FRA 2.1422 FC3 -.2049 BSP  20977   SGB 6465.9 R23  .0176 R13 -.9776          LSA 3645.4 MSA  203.8 SSA   12.7
 BDE 3.5481 BRA 5.4611 BC3 1.5651 FSP   -700   SGI 6454.0 SG2  391.6 THA 179.02          EL1 3486.1 EL2  199.6 ALF 174.35
```

LAUNCH DATE MAY 30 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 5 1968

HELIOCENTRIC CONIC DISTANCE 615.239

```
RL  151.64 LAL    .00 LOL 247.92 VL  26.189 GAL  12.70 AZL  93.58 HCA 294.09 SMA 124.68 ECC .30476 INC 3.5806 VI  29.380
RP  107.74 LAP   3.27 LOP 182.05 VP  37.405 GAP  15.98 AZP  91.46 TAL 146.52 TAP  80.61 RCA  86.68 APO 162.68 V2  35.172
RC 163.875 GL  -13.37 GP   -1.94 ZAL  37.45 ZAP 175.16 ETS 335.26 ZAE 122.81 ETE 181.75 ZAC  79.77 ETC  13.67 CLP-175.56
```

PLANETOCENTRIC CONIC

```
C3  47.608 VHL  6.900 DLA -24.88 RAL 205.39 RAD 6568.8 VEL 12.999 PTH   2.37 VHP 10.152 DPA  -1.42 RAP 186.42 ECC 1.7835
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 31 55	1512.32	1.37	.59	82.23	118.29	12 57 7	912.3	5.14	353.94
90.00	16 36 8	704.05	23.70	311.97	91.45	105.97	16 47 52	104.0	25.66	303.85
100.00	13 30 52	1322.00	-1.00	345.29	80.91	119.88	13 52 54	722.0	2.98	338.77
100.00	18 19 52	5657.64	26.32	266.06	92.24	104.71	19 54 10	5057.6	28.08	257.70
110.00	13 56 23	1241.98	-6.22	336.00	77.68	123.68	14 17 5	642.0	-1.75	329.76
110.00	20 10 51	5310.43	32.28	241.31	93.86	101.90	21 39 21	4710.4	33.58	232.32

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-3.6361 TRA 5.8783 TC3-1.3686 BAU  .8714   SGT 6452.5 SGR  404.9 SG3  194.1          ST  3424.3 SR   398.4 SS  1042.8
 RDE  .4793 RRA  .0579 RC3 -.0375 FAU .00815   RRT -.3136 RRF -.3230 RTF  .9784          CRT -.8622 CRS  .8446 CST -.9994
 FDE-1.2389 FRA 2.1697 FC3 -.1482 BSP  21056   SGB 6465.2 R23  .0159 R13 -.9784          LSA 3595.8 MSA  204.6 SSA   12.3
 BDE 3.6676 BRA 5.8786 BC3 1.3691 FSP   -665   SGI 6453.7 SG2  384.4 THA 178.87          EL1 3441.5 EL2  200.8 ALF 174.25
```

LAUNCH DATE MAY 31 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 9 1967

HELIOCENTRIC CONIC DISTANCE 146.950

RL	151.67	LAL	.00	LOL	248.88	VL	19.962	GAL	8.39	AZL	93.04	HCA	53.94	SMA	98.19	ECC	.55819	INC	3.0422	V1	29.375
RP	108.94	LAP	-2.46	LOP	302.77	VP	32.939	GAP	-33.41	AZP	91.79	TAL	173.24	TAP	227.17	RCA	43.38	APO	153.00	V2	34.786
RC	51.953	GL	-5.98	GP	.77	ZAL	74.80	ZAP	21.88	ETS	183.18	ZAE	158.72	ETE	154.88	ZAC	119.45	ETC	18.10	CLP	21.86

PLANETOCENTRIC CONIC

C3	101.251	VHL	10.062	DLA	-3.17	RAL	172.27	RAD	6570.0	VEL	14.920	PTH	2.69	VHP	19.583	DPA	17.01	RAP	148.30	ECC	2.6663

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 42 32	2509.22	-25.46	61.04	60.24	102.84	7 24 21	1909.2	-23.44	52.95
90.00	17 53 29	5349.98	27.69	243.95	63.21	83.80	19 22 39	4750.0	26.54	235.47
100.00	8 2 24	2251.59	-26.92	41.71	59.86	103.51	8 39 55	1651.6	-24.80	33.56
100.00	19 16 18	5082.83	29.18	224.11	63.02	83.21	20 41 1	4482.8	27.93	215.52
110.00	9 7 15	2048.59	-30.89	25.13	58.69	105.43	9 41 23	1448.6	-28.46	16.77
110.00	20 27 57	4858.60	33.24	206.45	62.38	81.52	21 48 55	4258.6	31.71	197.55

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.5319	TRA	-1.2705	TC3	-.0842	BAU	.1245	SGT	803.4	SGR	446.1	SG3	37.5	ST	372.8	SR	397.1	SS	341.9
RDE	-.6895	RRA	-.3478	RC3	.0370	FAU	.01536	RRT	.0340	RRF	-.0323	RTF	-.6369	CRT	-.7159	CRS	-.8247	CST	.9836
FDE	-.3195	FRA	.5126	FC3	-.1313	BSP	2106	SGB	918.9	R23	-.0010	R13	-.6370	LSA	605.8	MSA	215.4	SSA	14.0
BDE	.8708	BRA	1.3173	BC3	.0920	FSP	-79	SG1	803.6	SG2	445.7	THA	1.56	EL1	504.7	EL2	204.8	ALF	132.48

LAUNCH DATE MAY 31 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 11 1967

HELIOCENTRIC CONIC DISTANCE 153.196

RL	151.67	LAL	.00	LOL	248.88	VL	20.526	GAL	8.05	AZL	93.08	HCA	57.10	SMA	99.88	ECC	.53216	INC	3.0782	V1	29.375
RP	108.94	LAP	-2.58	LOP	305.94	VP	33.282	GAP	-31.77	AZP	91.67	TAL	172.80	TAP	229.89	RCA	46.73	APO	153.03	V2	34.785
RC	50.440	GL	-6.59	GP	.80	ZAL	74.14	ZAP	20.32	ETS	183.33	ZAE	160.02	ETE	151.48	ZAC	117.91	ETC	17.76	CLP	20.30

PLANETOCENTRIC CONIC

C3	90.383	VHL	9.507	DLA	-4.00	RAL	172.65	RAD	6569.8	VEL	14.551	PTH	2.64	VHP	18.710	DPA	16.52	RAP	149.89	ECC	2.4875

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 50 15	2458.67	-24.65	57.56	58.48	104.40	7 31 14	1858.7	-22.43	49.59
90.00	17 48 46	5351.26	27.69	244.04	62.13	83.85	19 17 58	4751.3	26.55	235.56
100.00	8 9 44	2202.32	-26.09	38.28	58.06	105.13	8 46 26	1602.3	-23.76	30.26
100.00	19 11 59	5082.84	29.18	224.11	61.94	83.21	20 36 42	4482.8	27.93	215.52
110.00	9 13 40	2002.14	-30.00	21.81	56.78	107.21	9 47 2	1402.1	-27.35	13.62
110.00	20 24 32	4855.79	33.21	206.23	61.30	81.40	21 45 28	4255.8	31.67	197.35

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.5316	TRA	-1.2586	TC3	-.0827	BAU	.1124	SGT	840.0	SGR	450.2	SG3	41.0	ST	393.3	SR	399.6	SS	362.0
RDE	-.6556	RRA	-.3314	RC3	.0425	FAU	.01578	RRT	.0343	RRF	-.0331	RTF	-.6573	CRT	-.7181	CRS	-.8288	CST	.9830
FDE	-.3357	FRA	.5275	FC3	-.1511	BSP	2253	SGB	953.1	R23	-.0015	R13	-.6574	LSA	630.2	MSA	219.4	SSA	14.2
BDE	.8440	BRA	1.3016	BC3	.0930	FSP	-88	SG1	840.2	SG2	449.9	THA	1.48	EL1	519.7	EL2	210.5	ALF	134.36

LAUNCH DATE MAY 31 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 13 1967

HELIOCENTRIC CONIC DISTANCE 159.505

RL	151.67	LAL	.00	LOL	248.88	VL	21.049	GAL	7.69	AZL	93.11	HCA	60.26	SMA	101.54	ECC	.50716	INC	3.1117	V1	29.375
RP	108.94	LAP	-2.70	LOP	309.10	VP	33.607	GAP	-30.21	AZP	91.54	TAL	172.39	TAP	232.65	RCA	50.04	APO	153.04	V2	34.784
RC	49.035	GL	-7.24	GP	.83	ZAL	73.58	ZAP	18.77	ETS	183.52	ZAE	161.39	ETE	147.36	ZAC	116.36	ETC	17.43	CLP	18.75

PLANETOCENTRIC CONIC

C3	80.749	VHL	8.986	DLA	-4.83	RAL	172.94	RAD	6569.6	VEL	14.216	PTH	2.59	VHP	17.871	DPA	16.02	RAP	151.48	ECC	2.3289

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 57 38	2407.42	-23.73	54.08	56.64	105.92	7 37 45	1807.4	-21.32	46.24
90.00	17 43 40	5351.85	27.70	244.08	60.90	83.87	19 12 52	4751.9	26.56	235.60
100.00	8 16 42	2152.35	-25.16	34.87	56.18	106.70	8 52 34	1552.4	-22.63	26.98
100.00	19 7 17	5082.15	29.18	224.06	60.71	83.18	20 31 59	4482.2	27.93	215.48
110.00	9 19 44	1955.00	-29.00	18.50	54.79	108.94	9 52 19	1355.0	-26.14	10.49
110.00	20 20 44	4852.26	33.18	205.96	60.07	81.24	21 41 37	4252.3	31.61	197.09

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.5319	TRA	-1.2456	TC3	-.0794	BAU	.1005	SGT	877.9	SGR	453.7	SG3	44.8	ST	415.0	SR	401.5	SS	383.1
RDE	-.6224	RRA	-.3152	RC3	.0486	FAU	.01624	RRT	.0344	RRF	-.0339	RTF	-.6770	CRT	-.7211	CRS	-.8332	CST	.9825
FDE	-.3530	FRA	.5421	FC3	-.1741	BSP	2411	SGB	988.1	R23	-.0022	R13	-.6770	LSA	656.0	MSA	222.6	SSA	14.5
BDE	.8187	BRA	1.2849	BC3	.0931	FSP	-98	SG1	878.0	SG2	453.3	THA	1.39	EL1	535.7	EL2	215.5	ALF	136.32

LAUNCH DATE MAY 31 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 15 1967

HELIOCENTRIC CONIC DISTANCE 165.873

RL	151.67	LAL	.00	LOL	248.88	VL	21.536	GAL	7.32	AZL	93.14	HCA	63.42	SMA	103.18	ECC	.48323	INC	3.1432	V1	29.375
RP	108.94	LAP	-2.81	LOP	312.26	VP	33.914	GAP	-28.73	AZP	91.41	TAL	172.03	TAP	235.45	RCA	53.32	APO	153.04	V2	34.784
RC	47.750	GL	-7.92	GP	.87	ZAL	73.10	ZAP	17.23	ETS	183.78	ZAE	162.79	ETE	142.31	ZAC	114.80	ETC	17.11	CLP	17.21

PLANETOCENTRIC CONIC

C3	72.204	VHL	8.497	DLA	-5.66	RAL	173.12	RAD	6569.4	VEL	13.912	PTH	2.54	VHP	17.064	DPA	15.51	RAP	153.08	ECC	2.1883

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 4 38	2355.54	-22.72	50.61	54.72	107.37	7 43 54	1755.5	-20.13	42.90
90.00	17 38 10	5351.92	27.70	244.09	59.52	83.87	19 7 21	4751.9	26.56	235.60
100.00	8 23 18	2101.77	-24.13	31.46	54.22	108.21	8 58 20	1501.8	-21.41	23.72
100.00	19 2 11	5080.93	29.17	223.97	59.33	83.14	20 26 52	4480.9	27.91	215.39
110.00	9 25 25	1907.29	-27.90	15.22	52.74	110.60	9 57 13	1307.3	-24.84	7.39
110.00	20 16 33	4848.17	33.13	205.65	58.69	81.06	21 37 21	4248.2	31.54	196.79

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.5302	TRA	-1.2340	TC3	-.0751	BAU	.0901	SGT	918.3	SGR	456.3	SG3	49.0	ST	436.7	SR	402.5	SS	405.1
RDE	-.5901	RRA	-.2991	RC3	.0554	FAU	.01674	RRT	.0363	RRF	-.0352	RTF	-.6944	CRT	-.7224	CRS	-.8374	CST	.9816
FDE	-.3710	FRA	.5570	FC3	-.2007	BSP	2515	SGB	1025.4	R23	-.0017	R13	-.6945	LSA	682.4	MSA	225.8	SSA	14.7
BDE	.7933	BRA	1.2697	BC3	.0933	FSP	-109	SG1	918.5	SG2	455.9	THA	1.37	EL1	551.5	EL2	220.4	ALF	138.23

LAUNCH DATE MAY 31 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 17 1967

HELIOCENTRIC CONIC DISTANCE 172.295
RL 151.67 LAL .00 LOL 248.88 VL 21.989 GAL 6.95 AZL 93.17 HCA 66.58 SMA 104.78 ECC .46035 INC 3.1730 V1 29.375
RP 108.94 LAP -2.91 LOP 315.42 VP 34.204 GAP -27.32 AZP 91.26 TAL 171.71 TAP 238.29 RCA 56.55 APO 153.02 V2 34.785
RC 46.594 GL -8.64 GP .90 ZAL 72.72 ZAP 15.69 ETS 184.11 ZAE 164.16 ETE 136.07 ZAC 113.23 ETC 16.81 CLP 15.67

PLANETOCENTRIC CONIC
C3 64.624 VHL 8.039 DLA -6.48 RAL 173.21 RAD 6569.2 VEL 13.637 PTH 2.49 VHP 16.289 DPA 14.99 RAP 154.67 ECC 2.0636

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 11 18	2303.13	-21.61	47.17	52.72	108.75	7 49 41	1703.1	-18.86	39.58
90.00	17 32 13	5351.62	27.70	244.06	58.01	83.86	19 1 25	4751.6	26.56	235.58
100.00	8 29 33	2050.67	-23.00	28.09	52.20	109.64	9 3 44	1450.7	-20.11	20.48
100.00	18 56 39	5079.31	29.15	223.85	57.82	83.08	20 21 18	4479.3	27.89	215.27
110.00	9 30 44	1859.10	-26.71	11.99	50.64	112.17	10 1 44	1259.1	-23.46	4.33
110.00	20 11 57	4843.65	33.08	205.31	57.17	80.87	21 32 40	4243.6	31.47	196.45

DIFFERENTIAL CORRECTIONS
TDE .5312 TRA-1.2191 TC3 -.0670 BAU .0795
RDE -.5585 RRA -.2832 RC3 .0630 FAU .01730
FDE -.3905 FRA .5713 FC3 -.2318 BSP 2675
BDE .7708 BRA 1.2516 BC3 .0920 FSP -121

MID-COURSE EXECUTION ACCURACY
SGT 959.0 SGR 458.2 SG3 53.6
RRT .0365 RRF -.0360 RTF -.7126
SGB 1062.9 R23 -.0023 R13 -.7126
SG1 959.2 SG2 457.8 THA 1.29

ORBIT DETERMINATION ACCURACY
ST 460.6 SR 402.7 SS 428.5
CRT -.7263 CRS -.8422 CST .9811
LSA 711.2 MSA 227.8 SSA 14.9
EL1 569.4 EL2 223.9 ALF 140.26

LAUNCH DATE MAY 31 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 19 1967

HELIOCENTRIC CONIC DISTANCE 178.766
RL 151.67 LAL .00 LOL 248.88 VL 22.409 GAL 6.59 AZL 93.20 HCA 69.74 SMA 106.35 ECC .43855 INC 3.2014 V1 29.375
RP 108.94 LAP -3.00 LOP 318.59 VP 34.477 GAP -25.98 AZP 91.11 TAL 171.43 TAP 241.17 RCA 59.71 APO 152.99 V2 34.786
RC 45.578 GL -9.40 GP .94 ZAL 72.44 ZAP 14.16 ETS 184.55 ZAE 165.42 ETE 128.35 ZAC 111.65 ETC 16.52 CLP 14.13

PLANETOCENTRIC CONIC
C3 57.900 VHL 7.609 DLA -7.31 RAL 173.20 RAD 6569.1 VEL 13.389 PTH 2.45 VHP 15.542 DPA 14.46 RAP 156.26 ECC 1.9529

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 17 36	2250.29	-20.42	43.76	50.67	110.06	7 55 6	1650.3	-17.50	36.29
90.00	17 25 49	5351.13	27.69	244.03	56.37	83.84	18 55 0	4751.1	26.55	235.55
100.00	8 35 26	1999.18	-21.78	24.75	50.12	111.00	9 8 45	1399.2	-18.73	17.28
100.00	18 50 40	5077.48	29.14	223.71	56.18	83.01	20 15 17	4477.5	27.86	215.14
110.00	9 35 41	1810.56	-25.42	8.80	48.49	113.66	10 5 51	1210.6	-22.00	1.32
110.00	20 6 54	4838.87	33.03	204.94	55.52	80.66	21 27 33	4238.9	31.39	196.10

DIFFERENTIAL CORRECTIONS
TDE .5327 TRA-1.2030 TC3 -.0559 BAU .0702
RDE -.5278 RRA -.2676 RC3 .0714 FAU .01793
FDE -.4115 FRA .5856 FC3 -.2680 BSP 2838
BDE .7499 BRA 1.2325 BC3 .0906 FSP -135

MID-COURSE EXECUTION ACCURACY
SGT 1001.1 SGR 459.3 SG3 58.6
RRT .0368 RRF -.0369 RTF -.7299
SGB 1101.5 R23 -.0029 R13 -.7299
SG1 1001.3 SG2 458.9 THA 1.22

ORBIT DETERMINATION ACCURACY
ST 485.8 SR 402.0 SS 453.3
CRT -.7307 CRS -.8471 CST .9806
LSA 741.9 MSA 229.1 SSA 15.2
EL1 588.5 EL2 226.6 ALF 142.30

LAUNCH DATE MAY 31 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 21 1967

HELIOCENTRIC CONIC DISTANCE 185.281
RL 151.67 LAL .00 LOL 248.88 VL 22.800 GAL 6.22 AZL 93.23 HCA 72.90 SMA 107.88 ECC .41782 INC 3.2287 V1 29.375
RP 108.93 LAP -3.09 LOP 321.75 VP 34.734 GAP -24.69 AZP 90.95 TAL 171.19 TAP 244.09 RCA 62.80 APO 152.95 V2 34.788
RC 44.711 GL -10.20 GP .99 ZAL 72.26 ZAP 12.63 ETS 185.13 ZAE 166.47 ETE 118.92 ZAC 110.08 ETC 16.25 CLP 12.59

PLANETOCENTRIC CONIC
C3 51.936 VHL 7.207 DLA -8.13 RAL 173.08 RAD 6568.9 VEL 13.164 PTH 2.40 VHP 14.824 DPA 13.93 RAP 157.84 ECC 1.8547

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 23 32	2197.17	-19.14	40.38	48.56	111.27	8 0 10	1597.2	-16.08	33.04
90.00	17 18 57	5350.64	27.69	243.99	54.61	83.82	18 48 7	4750.6	26.55	235.51
100.00	8 40 57	1947.42	-20.48	21.45	47.99	112.26	9 13 25	1347.4	-17.28	14.12
100.00	18 44 13	5075.62	29.12	223.58	54.42	82.94	20 8 49	4475.6	27.84	215.01
110.00	9 40 14	1761.80	-24.05	5.68	46.30	115.06	10 9 36	1161.8	-20.47	358.36
110.00	20 1 25	4834.01	32.98	204.58	53.76	80.44	21 21 59	4234.0	31.31	195.75

DIFFERENTIAL CORRECTIONS
TDE .5350 TRA-1.1854 TC3 -.0409 BAU .0627
RDE -.4979 RRA -.2524 RC3 .0806 FAU .01862
FDE -.4343 FRA .5995 FC3 -.3105 BSP 3009
BDE .7309 BRA 1.2120 BC3 .0903 FSP -150

MID-COURSE EXECUTION ACCURACY
SGT 1044.4 SGR 459.6 SG3 64.2
RRT .0369 RRF -.0377 RTF -.7465
SGB 1141.1 R23 -.0035 R13 -.7466
SG1 1044.6 SG2 459.2 THA 1.15

ORBIT DETERMINATION ACCURACY
ST 512.4 SR 400.5 SS 479.7
CRT -.7360 CRS -.8523 CST .9803
LSA 774.7 MSA 229.5 SSA 15.4
EL1 609.0 EL2 228.1 ALF 144.34

LAUNCH DATE MAY 31 1967 FLIGHT TIME 84.00 ARRIVAL DATE AUG 23 1967

HELIOCENTRIC CONIC DISTANCE 191.836
RL 151.67 LAL .00 LOL 248.88 VL 23.163 GAL 5.86 AZL 93.26 HCA 76.07 SMA 109.36 ECC .39815 INC 3.2551 V1 29.375
RP 108.92 LAP -3.16 LOP 324.92 VP 34.976 GAP -23.46 AZP 90.78 TAL 171.00 TAP 247.07 RCA 65.82 APO 152.90 V2 34.791
RC 44.000 GL -11.04 GP 1.04 ZAL 72.19 ZAP 11.09 ETS 185.92 ZAE 167.17 ETE 107.82 ZAC 108.51 ETC 16.00 CLP 11.05

PLANETOCENTRIC CONIC
C3 46.649 VHL 6.830 DLA -8.95 RAL 172.86 RAD 6568.7 VEL 12.962 PTH 2.36 VHP 14.132 DPA 13.39 RAP 159.41 ECC 1.7677

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 29 8	2143.88	-17.79	37.05	46.41	112.40	8 4 52	1543.9	-14.60	29.83
90.00	17 11 35	5350.33	27.69	243.97	52.74	83.81	18 40 45	4750.3	26.54	235.49
100.00	8 46 6	1895.54	-19.11	18.21	45.82	113.43	9 17 42	1295.5	-15.78	11.00
100.00	18 37 17	5073.90	29.11	223.45	52.55	82.87	20 1 51	4473.9	27.82	214.89
110.00	9 44 25	1712.98	-22.61	2.62	44.09	116.35	10 12 58	1113.0	-18.88	355.46
110.00	19 55 29	4829.23	32.92	204.21	51.89	80.24	21 15 58	4229.2	31.23	195.40

DIFFERENTIAL CORRECTIONS
TDE .5380 TRA-1.1663 TC3 -.0217 BAU .0581
RDE -.4690 RRA -.2375 RC3 .0906 FAU .01940
FDE -.4590 FRA .6132 FC3 -.3600 BSP 3185
BDE .7137 BRA 1.1902 BC3 .0932 FSP -167

MID-COURSE EXECUTION ACCURACY
SGT 1088.8 SGR 459.1 SG3 70.3
RRT .0370 RRF -.0386 RTF -.7623
SGB 1181.6 R23 -.0043 R13 -.7624
SG1 1089.0 SG2 458.7 THA 1.09

ORBIT DETERMINATION ACCURACY
ST 540.4 SR 398.1 SS 507.7
CRT -.7419 CRS -.8578 CST .9800
LSA 809.6 MSA 229.1 SSA 15.6
EL1 631.0 EL2 228.5 ALF 146.35

```
LAUNCH DATE  MAY 31 1967                          FLIGHT TIME  86.00                          ARRIVAL DATE  AUG 25 1967

  HELIOCENTRIC CONIC                              DISTANCE 198.424
   RL  151.67 LAL     .00 LOL 248.88 VL  23.499 GAL   5.50 AZL  93.28 HCA  79.23 SMA 110.80 ECC .37953 INC 3.2807 V1  29.375
   RP  108.91 LAP  -3.22 LOP 328.09 VP  35.204 GAP -22.28 AZP  90.61 TAL 170.78 TAP 250.09 RCA  68.75 APO 152.85 V2  34.795
   RC  43.455 GL  -11.93 GP    1.09 ZAL  72.21 ZAP   9.56 ETS 187.03 ZAE 167.39 ETE  95.54 ZAC 106.94 ETC  15.75 CLP   9.49
  PLANETOCENTRIC CONIC
   C3  41.965 VHL  6.478 DLA  -9.77 RAL 172.53 RAD 6568.6 VEL 12.780 PTH   2.33 VHP 13.467 DPA  12.85 RAP 160.97 ECC 1.6906
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00      7 34 22   2090.59     -16.38     33.78      44.23      113.43    8  9 12    1490.6     -13.07      26.67
      90.00     17  3 43   5350.39      27.69    243.97      50.77       83.82   18 32 53    4750.4      26.54     235.50
     100.00      8 50 53   1843.69     -17.67     15.03      43.62      114.51    9 21 37    1243.7     -14.22       7.94
     100.00     18 29 52   5072.51      29.10    223.35      50.58       82.82   19 54 25    4472.5      27.80     214.79
     110.00      9 48 11   1664.26     -21.10    359.64      41.85      117.54   10 15 56    1064.3     -17.25     352.63
     110.00     19 49  4   4824.71      32.87    203.87      49.92       80.04   21  9 28    4224.7      31.15     195.07
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE  .5414 TRA-1.1463 TC3  .0020 BAU  .0570     SGT 1134.7 SGR  457.7 SG3   77.0        ST   569.7 SR   394.7 SS   537.6
   RDE -.4410 RRA -.2230 RC3  .1016 FAU .02026     RRT  .0375 RRF -.0398 RTF -.7772        CRT -.7483 CRS -.8634 CST  .9798
   FDE -.4860 FRA  .6270 FC3 -.4180 BSP   3355     SGB 1223.6 R23 -.0050 R13 -.7772        LSA  846.8 MSA  228.0 SSA   15.8
   BDE  .6983 BRA 1.1678 BC3  .1016 FSP   -186     SG1 1134.9 SG2  457.4 THA   1.04       EL1  654.5 EL2  227.9 ALF 148.32

LAUNCH DATE  MAY 31 1967                          FLIGHT TIME  88.00                          ARRIVAL DATE  AUG 27 1967

  HELIOCENTRIC CONIC                              DISTANCE 205.043
   RL  151.67 LAL     .00 LOL 248.88 VL  23.812 GAL   5.16 AZL  93.31 HCA  82.39 SMA 112.18 ECC .36193 INC 3.3058 V1  29.375
   RP  108.90 LAP  -3.28 LOP 331.26 VP  35.417 GAP -21.16 AZP  90.44 TAL 170.78 TAP 253.17 RCA  71.58 APO 152.78 V2  34.799
   RC  43.079 GL  -12.85 GP    1.15 ZAL  72.34 ZAP   8.02 ETS 188.65 ZAE 167.08 ETE  83.08 ZAC 105.38 ETC  15.52 CLP   7.93
  PLANETOCENTRIC CONIC
   C3  37.818 VHL  6.150 DLA -10.59 RAL 172.09 RAD 6568.5 VEL 12.617 PTH   2.29 VHP 12.825 DPA  12.31 RAP 162.52 ECC 1.6224
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00      7 39 14   2037.43     -14.91     30.57      42.01      114.35    8 13 12    1437.4     -11.50      23.55
      90.00     16 55 20   5350.99      27.69    244.02      48.71       83.84   18 24 31    4751.0      26.55     235.54
     100.00      8 55 18   1792.02     -16.19     11.91      41.40      115.48    9 25 10    1192.0     -12.63       4.93
     100.00     18 21 57   5071.63      29.09    223.29      48.52       82.79   19 46 28    4471.6      27.78     214.72
     110.00      9 51 35   1615.80     -19.55    356.73      39.59      118.61   10 18 31    1015.8     -15.58     349.86
     110.00     19 42 10   4820.62      32.82    203.56      47.86       79.86   21  2 30    4220.6      31.08     194.78
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE  .5458 TRA-1.1244 TC3  .0316 BAU  .0595     SGT 1181.5 SGR  455.5 SG3   84.5        ST   600.7 SR   390.3 SS   569.7
   RDE -.4140 RRA -.2091 RC3  .1134 FAU .02122     RRT  .0380 RRF -.0411 RTF -.7915        CRT -.7556 CRS -.8692 CST  .9797
   FDE -.5156 FRA  .6404 FC3 -.4858 BSP   3535     SGB 1266.2 R23 -.0058 R13 -.7915        LSA  886.8 MSA  226.0 SSA   16.0
   BDE  .6851 BRA 1.1437 BC3  .1177 FSP   -207     SG1 1181.6 SG2  455.1 THA    .99       EL1  679.8 EL2  225.9 ALF 150.24

LAUNCH DATE  MAY 31 1967                          FLIGHT TIME  90.00                          ARRIVAL DATE  AUG 29 1967

  HELIOCENTRIC CONIC                              DISTANCE 211.687
   RL  151.67 LAL     .00 LOL 248.88 VL  24.102 GAL   4.82 AZL  93.33 HCA  85.56 SMA 113.51 ECC .34534 INC 3.3306 V1  29.375
   RP  108.88 LAP  -3.32 LOP 334.42 VP  35.617 GAP -20.07 AZP  90.26 TAL 170.74 TAP 256.30 RCA  74.31 APO 152.71 V2  34.804
   RC  42.876 GL  -13.81 GP    1.22 ZAL  72.58 ZAP   6.47 ETS 191.16 ZAE 166.23 ETE  71.52 ZAC 103.83 ETC  15.31 CLP   6.35
  PLANETOCENTRIC CONIC
   C3  34.151 VHL  5.844 DLA -11.40 RAL 171.54 RAD 6568.3 VEL 12.471 PTH   2.26 VHP 12.208 DPA  11.78 RAP 164.04 ECC 1.5620
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00      7 43 46   1984.58     -13.41     27.42      39.78      115.18    8 16 50    1384.6      -9.90      20.49
      90.00     16 46 25   5352.30      27.70    244.11      46.58       83.88   18 15 37    4752.3      26.57     235.63
     100.00      8 59 21   1740.71     -14.66      8.86      39.15      116.34    9 28 22    1140.7     -11.00       1.98
     100.00     18 13 31   5071.41      29.09    223.27      46.39       82.78   19 38  2    4471.4      27.78     214.71
     110.00      9 54 35   1567.77     -17.96    353.92      37.33      119.58   10 20 42     967.8     -13.89     347.17
     110.00     19 34 47   4817.11      32.78    203.30      45.73       79.71   20 55  4    4217.1      31.01     194.52
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE  .5506 TRA-1.1013 TC3  .0669 BAU  .0652     SGT 1229.2 SGR  452.4 SG3   92.8        ST   633.0 SR   384.9 SS   603.9
   RDE -.3880 RRA -.1956 RC3  .1261 FAU .02229     RRT  .0389 RRF -.0428 RTF -.8048        CRT -.7632 CRS -.8752 CST  .9797
   FDE -.5482 FRA  .6537 FC3 -.5651 BSP   3710     SGB 1309.8 R23 -.0065 R13 -.8048        LSA  929.2 MSA  223.3 SSA   16.2
   BDE  .6736 BRA 1.1185 BC3  .1427 FSP   -231     SG1 1229.3 SG2  452.0 THA    .95       EL1  706.5 EL2  222.8 ALF 152.09

LAUNCH DATE  MAY 31 1967                          FLIGHT TIME  92.00                          ARRIVAL DATE  AUG 31 1967

  HELIOCENTRIC CONIC                              DISTANCE 218.353
   RL  151.67 LAL     .00 LOL 248.88 VL  24.370 GAL   4.49 AZL  93.36 HCA  88.72 SMA 114.79 ECC .32974 INC 3.3552 V1  29.375
   RP  108.87 LAP  -3.35 LOP 337.59 VP  35.805 GAP -19.03 AZP  90.08 TAL 170.75 TAP 259.48 RCA  76.94 APO 152.64 V2  34.809
   RC  42.849 GL  -14.82 GP    1.29 ZAL  72.92 ZAP   4.93 ETS 195.43 ZAE 164.96 ETE  61.54 ZAC 102.30 ETC  15.10 CLP   4.76
  PLANETOCENTRIC CONIC
   C3  30.911 VHL  5.560 DLA -12.22 RAL 170.88 RAD 6568.2 VEL 12.340 PTH   2.23 VHP 11.613 DPA  11.25 RAP 165.55 ECC 1.5087
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00      7 47 56   1932.20     -11.87     24.34      37.53      115.90    8 20  9    1332.2      -8.29      17.49
      90.00     16 36 58   5354.49      27.72    244.27      44.38       83.96   18  6 13    4754.5      26.59     235.79
     100.00      9  3  2   1689.92     -13.11      5.89      36.90      117.11    9 31 12    1089.9      -9.37     359.10
     100.00     18  4 34   5072.00      29.09    223.31      44.20       82.80   19 29  6    4472.0      27.79     214.75
     110.00      9 57 11   1520.36     -16.35    351.19      35.06      120.45   10 22 31     920.4     -12.18     344.56
     110.00     19 26 55   4814.32      32.75    203.09      43.54       79.59   20 47  9    4214.3      30.96     194.32
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE  .5546 TRA-1.0788 TC3  .1062 BAU  .0725     SGT 1278.5 SGR  448.5 SG3  101.9        ST   665.7 SR   378.6 SS   640.3
   RDE -.3630 RRA -.1827 RC3  .1396 FAU .02346     RRT  .0412 RRF -.0450 RTF -.8162        CRT -.7702 CRS -.8810 CST  .9795
   FDE -.5840 FRA  .6673 FC3 -.6570 BSP  .3839     SGB 1354.9 R23 -.0067 R13 -.8162        LSA  973.4 MSA  220.6 SSA   16.4
   BDE  .6629 BRA 1.0941 BC3  .1754 FSP   -256     SG1 1278.6 SG2  448.1 THA    .94       EL1  733.8 EL2  219.1 ALF 153.84
```

LAUNCH DATE MAY 31 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 2 1967

DISTANCE 225.036

HELIOCENTRIC CONIC
RL 151.67 LAL .00 LOL 248.88 VL 24.618 GAL 4.17 AZL 93.38 HCA 91.89 SMA 116.01 ECC .31509 INC 3.3797 VI 29.375
RP 108.85 LAP -3.38 LOP 340.77 VP 35.980 GAP -18.03 AZP 89.89 TAL 170.82 TAP 262.71 RCA 79.46 APO 152.56 V2 34.815
RC 42.995 GL -15.86 GP 1.38 ZAL 73.36 ZAP 3.42 ETS 203.83 ZAE 163.37 ETE 53.32 ZAC 100.78 ETC 14.91 CLP 3.13

PLANETOCENTRIC CONIC
C3 28.053 VHL 5.297 DLA -13.02 RAL 170.11 RAD 6568.1 VEL 12.224 PTH 2.20 VHP 11.041 DPA 10.73 RAP 167.03 ECC 1.4617

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 51 46	1880.45	-10.31	21.33	35.27	116.52	8 23 7	1280.4	-6.67	14.55
90.00	16 27 1	5357.66	27.74	244.50	42.12	84.07	17 56 18	4757.7	26.63	236.01
100.00	9 6 21	1639.82	-11.53	3.01	34.63	117.77	9 33 41	1039.8	-7.73	356.28
100.00	17 55 7	5073.53	29.10	223.42	41.95	82.86	19 19 40	4473.5	27.81	214.86
110.00	9 59 23	1473.74	-14.72	348.56	32.78	121.21	10 23 57	873.7	-10.48	342.02
110.00	19 18 35	4812.38	32.72	202.94	41.29	79.51	20 38 47	4212.4	30.93	194.18

DIFFERENTIAL CORRECTIONS
TOE .5611 TRA-1.0529 TC3 .1547 BAU .0819
ROE -.3390 RRA -.1704 RC3 .1539 FAU .02479
FOE -.6242 FRA .6804 FC3 -.7652 BSP 4016
BOE .6556 BRA 1.0666 BC3 .2183 FSP -285

MID-COURSE EXECUTION ACCURACY
SGT 1327.4 SGR 443.7 SG3 112.1
RRT .0429 RRF -.0477 RTF -.8279
SGB 1399.6 R23 -.0077 R13 -.8279
SG1 1327.6 SG2 443.2 THA .92

ORBIT DETERMINATION ACCURACY
ST 701.1 SR 371.1 SS 679.8
CRT -.7790 CRS -.8872 CST .9797
LSA 1021.8 MSA 216.6 SSA 16.6
EL1 763.9 EL2 213.5 ALF 155.56

LAUNCH DATE MAY 31 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 4 1967

DISTANCE 231.733

HELIOCENTRIC CONIC
RL 151.67 LAL .00 LOL 248.88 VL 24.848 GAL 3.87 AZL 93.40 HCA 95.05 SMA 117.17 ECC .30138 INC 3.4043 VI 29.375
RP 108.83 LAP -3.39 LOP 343.94 VP 36.144 GAP -17.07 AZP 89.70 TAL 170.93 TAP 265.99 RCA 81.86 APO 152.49 V2 34.822
RC 43.312 GL -16.94 GP 1.47 ZAL 73.90 ZAP 2.09 ETS 224.75 ZAE 161.59 ETE 46.70 ZAC 99.29 ETC 14.73 CLP 1.48

PLANETOCENTRIC CONIC
C3 25.536 VHL 5.053 DLA -13.82 RAL 169.24 RAD 6568.0 VEL 12.121 PTH 2.17 VHP 10.489 DPA 10.23 RAP 168.49 ECC 1.4203

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 55 15	1829.50	-8.75	18.41	33.00	117.04	8 25 45	1229.5	-5.05	11.68
90.00	16 16 32	5361.94	27.77	244.81	39.83	84.23	17 45 54	4761.9	26.68	236.31
100.00	9 9 18	1590.58	-9.96	.20	32.36	118.33	9 35 49	990.6	-6.09	353.54
100.00	17 45 11	5076.09	29.13	223.61	39.65	82.96	19 9 47	4476.1	27.84	215.04
110.00	10 1 11	1428.07	-13.09	346.02	30.50	121.86	10 24 59	828.1	-8.79	339.57
110.00	19 9 47	4811.36	32.71	202.86	39.01	79.46	20 29 58	4211.4	30.91	194.10

DIFFERENTIAL CORRECTIONS
TOE .5689 TRA-1.0249 TC3 .2113 BAU .0924
ROE -.3160 RRA -.1586 RC3 .1690 FAU .02629
FOE -.6693 FRA .6930 FC3 -.8914 BSP 4200
BOE .6508 BRA 1.0371 BC3 .2705 FSP -319

MID-COURSE EXECUTION ACCURACY
SGT 1376.2 SGR 438.0 SG3 123.5
RRT .0448 RRF -.0508 RTF -.8391
SGB 1444.2 R23 -.0090 R13 -.8392
SG1 1376.4 SG2 437.5 THA .91

ORBIT DETERMINATION ACCURACY
ST 738.3 SR 362.6 SS 722.5
CRT -.7887 CRS -.8934 CST .9801
LSA 1074.0 MSA 211.9 SSA 16.8
EL1 796.1 EL2 206.7 ALF 157.20

LAUNCH DATE MAY 31 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 6 1967

DISTANCE 238.440

HELIOCENTRIC CONIC
RL 151.67 LAL .00 LOL 248.88 VL 25.060 GAL 3.57 AZL 93.43 HCA 98.22 SMA 118.28 ECC .28857 INC 3.4291 VI 29.375
RP 108.80 LAP -3.39 LOP 347.11 VP 36.298 GAP -16.15 AZP 89.51 TAL 171.10 TAP 269.32 RCA 84.15 APO 152.41 V2 34.830
RC 43.796 GL -18.05 GP 1.57 ZAL 74.54 ZAP 1.58 ETS 277.32 ZAE 159.72 ETE 41.38 ZAC 97.83 ETC 14.56 CLP -.20

PLANETOCENTRIC CONIC
C3 23.322 VHL 4.829 DLA -14.61 RAL 168.26 RAD 6567.9 VEL 12.029 PTH 2.15 VHP 9.959 DPA 9.74 RAP 169.92 ECC 1.3838

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 58 24	1779.51	-7.19	15.56	30.73	117.46	8 28 4	1179.5	-3.45	8.87
90.00	16 5 35	5367.40	27.81	245.21	37.50	84.42	17 35 2	4767.4	26.74	236.70
100.00	9 11 54	1542.37	-8.39	357.48	30.09	118.80	9 37 36	942.4	-4.48	350.87
100.00	17 34 46	5079.77	29.16	223.88	37.33	83.09	18 59 26	4479.8	27.89	215.31
110.00	10 2 36	1383.54	-11.48	343.58	28.23	122.42	10 25 40	783.5	-7.12	337.20
110.00	19 0 33	4811.36	32.71	202.86	36.69	79.46	20 20 45	4211.4	30.91	194.10

DIFFERENTIAL CORRECTIONS
TOE .5797 TRA -.9952 TC3 .2764 BAU ..1036
ROE -.2940 RRA -.1475 RC3 .1846 FAU .02800
FOE -.7204 FRA .7051 FC3-1.0392 BSP 4403
BOE .6500 BRA 1.0060 BC3 .3323 FSP -357

MID-COURSE EXECUTION ACCURACY
SGT 1425.8 SGR 431.4 SG3 136.2
RRT .0462 RRF -.0548 RTF -.8500
SGB 1489.7 R23 -.0115 R13 -.8500
SG1 1426.0 SG2 430.9 THA .88

ORBIT DETERMINATION ACCURACY
ST 779.1 SR 353.0 SS 769.0
CRT -.7997 CRS -.8998 CST .9809
LSA 1131.4 MSA 206.4 SSA 16.9
EL1 832.0 EL2 198.5 ALF 158.82

LAUNCH DATE MAY 31 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 8 1967

DISTANCE 245.153

HELIOCENTRIC CONIC
RL 151.67 LAL .00 LOL 248.88 VL 25.256 GAL 3.29 AZL 93.45 HCA 101.39 SMA 119.33 ECC .27663 INC 3.4544 VI 29.375
RP 108.78 LAP -3.39 LOP 350.29 VP 36.441 GAP -15.26 AZP 89.32 TAL 171.31 TAP 272.70 RCA 86.32 APO 152.34 V2 34.838
RC 44.440/GL -19.18 GP 1.68 ZAL 75.27 ZAP 2.56 ETS 318.76 ZAE 157.85 ETE 37.10 ZAC 96.41 ETC 14.40 CLP -1.93

PLANETOCENTRIC CONIC
C3 21.379 VHL 4.624 DLA -15.39 RAL 167.18 RAD 6567.9 VEL 11.948 PTH 2.13 VHP 9.449 DPA 9.27 RAP 171.31 ECC 1.3519

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 1 14	1730.64	-5.65	12.80	28.48	117.79	8 30 5	1130.6	-1.88	6.14
90.00	15 54 10	5374.10	27.85	245.69	35.15	84.66	17 23 44	4774.1	26.82	237.18
100.00	9 14 9	1495.35	-6.84	354.85	27.83	119.17	9 39 5	895.3	-2.89	348.28
100.00	17 23 56	5084.62	29.20	224.24	34.99	83.28	18 48 41	4484.6	27.96	215.65
110.00	10 3 39	1340.31	-9.89	341.24	25.97	122.89	10 25 59	740.3	-5.49	334.91
110.00	18 50 56	4812.43	32.72	202.94	34.37	79.51	20 11 8	4212.4	30.93	194.18

DIFFERENTIAL CORRECTIONS
TOE .5888 TRA -.9635 TC3 .3514 BAU .1157
ROE -.2729 RRA -.1371 RC3 .2007 FAU .02988
FOE -.7772 FRA .7176 FC3-1.2099 BSP 4619
BOE .6489 BRA .9732 BC3 .4047 FSP -399

MID-COURSE EXECUTION ACCURACY
SGT 1473.5 SGR 424.0 SG3 150.4
RRT .0510 RRF -.0603 RTF -.8609
SGB 1533.3 R23 -.0125 R13 -.8610
SG1 1473.7 SG2 423.4 THA .92

ORBIT DETERMINATION ACCURACY
ST 818.8 SR 342.3 SS 818.5
CRT -.8100 CRS -.9058 CST .9816
LSA 1190.3 MSA 200.8 SSA 17.0
EL1 866.9 EL2 189.6 ALF 160.31

LAUNCH DATE MAY 31 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 10 1967

HELIOCENTRIC CONIC DISTANCE 251.870

RL 151.67 LAL .00 LOL 248.88 VL 25.436 GAL 3.02 AZL 93.48 HCA 104.56 SMA 120.32 ECC .26553 INC 3.4803 V1 29.375
RP 108.75 LAP -3.37 LOP 353.47 VP 36.574 GAP -14.40 AZP 89.12 TAL 171.86 TAP 276.13 RCA 88.37 APO 152.26 V2 34.846
RC 45.237 GL -20.34 GP 1.81 ZAL 76.08 ZAP 4.12 ETS 333.74 ZAE 156.03 ETE 33.64 ZAC 95.02 ETC 14.25 CLP -3.70

PLANETOCENTRIC CONIC

C3 19.679 VHL 4.436 DLA -16.15 RAL 166.02 RAD 6567.8 VEL 11.877 PTH 2.11 VHP 8.958 DPA 8.84 RAP 172.66 ECC 1.3239

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 3 46	1683.02	-4.13	10.12	26.24	118.04	8 31 49	1083.0	-.35	3.49
90.00	15 42 21	5382.08	27.90	246.27	32.80	84.95	17 12 3	4782.1	26.91	237.74
100.00	9 16 5	1449.66	-5.31	352.32	25.58	119.46	9 40 15	849.7	-1.35	345.77
100.00	17 12 43	5090.67	29.24	224.68	32.64	83.51	18 37 33	4490.7	28.04	216.08
110.00	10 4 20	1298.52	-8.34	339.00	23.73	123.27	10 25 58	698.5	-3.80	332.72
110.00	18 40 57	4814.58	32.75	203.11	32.04	79.60	20 1 12	4214.6	30.97	194.34

DIFFERENTIAL CORRECTIONS
TDE .5985 TRA -.9330 TC3 .4290 BAU .1265
RDE -.2526 RRA -.1273 RC3 .2171 FAU .03199
FDE -.8410 FRA .7301 FC3-1.4072 BSP 4779
BDE .6496 BRA .9416 BC3 .4808 FSP -446

MID-COURSE EXECUTION ACCURACY
SGT 1521.9 SGR 415.8 SG3 166.2
RRT .0568 RRF -.0677 RTF -.8696
SGB 1577.7 R23 -.0144 R13 -.8697
SG1 1522.1 SG2 415.1 THA .96

ORBIT DETERMINATION ACCURACY
ST 859.8 SR 330.4 SS 871.6
CRT -.8196 CRS -.9115 CST .9821
LSA 1252.8 MSA 195.4 SSA 17.1
EL1 903.3 EL2 180.1 ALF 161.77

LAUNCH DATE MAY 31 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 12 1967

HELIOCENTRIC CONIC DISTANCE 258.588

RL 151.67 LAL .00 LOL 248.88 VL 25.602 GAL 2.77 AZL 93.51 HCA 107.74 SMA 121.25 ECC .25524 INC 3.5069 V1 29.375
RP 108.72 LAP -3.34 LOP 356.65 VP 36.699 GAP -13.57 AZP 88.93 TAL 171.86 TAP 279.60 RCA 90.30 APO 152.19 V2 34.856
RC 46.178 GL -21.51 GP 1.96 ZAL 76.97 ZAP 5.87 ETS 340.28 ZAE 154.32 ETE 30.82 ZAC 93.68 ETC 14.11 CLP -5.53

PLANETOCENTRIC CONIC

C3 18.193 VHL 4.265 DLA -16.90 RAL 164.77 RAD 6567.7 VEL 11.814 PTH 2.09 VHP 8.486 DPA 8.43 RAP 173.96 ECC 1.2994

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 6 0	1636.80	-2.65	7.54	24.02	118.20	8 33 17	1036.8	1.15	.91
90.00	15 30 10	5391.32	27.95	246.94	30.45	85.28	17 0 1	4791.3	27.00	238.40
100.00	9 17 42	1405.45	-3.83	349.88	23.36	119.67	9 41 7	805.4	.15	343.35
100.00	17 1 9	5097.90	29.30	225.21	30.30	83.78	18 26 7	4497.9	28.13	216.60
110.00	10 4 40	1258.30	-6.83	336.86	21.51	123.58	10 25 38	658.3	-2.37	330.61
110.00	18 30 40	4817.82	32.79	203.35	29.72	79.74	19 50 58	4217.8	31.03	194.57

DIFFERENTIAL CORRECTIONS
TDE .6090 TRA -.9004 TC3 .5147 BAU .1375
RDE -.2332 RRA -.1182 RC3 .2339 FAU .03437
FDE -.9136 FRA .7422 FC3-1.6354 BSP 4943
BDE .6521 BRA .9082 BC3 .5653 FSP -499

MID-COURSE EXECUTION ACCURACY
SGT 1568.4 SGR 406.8 SG3 184.1
RRT .0646 RRF -.0772 RTF -.8780
SGB 1620.3 R23 -.0164 R13 -.8781
SG1 1568.7 SG2 405.9 THA 1.03

ORBIT DETERMINATION ACCURACY
ST 901.8 SR 317.2 SS 929.1
CRT -.8294 CRS -.9170 CST .9828
LSA 1319.4 MSA 189.8 SSA 17.1
EL1 940.7 EL2 169.9 ALF 163.17

LAUNCH DATE MAY 31 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 14 1967

HELIOCENTRIC CONIC DISTANCE 265.304

RL 151.67 LAL .00 LOL 248.88 VL 25.755 GAL 2.53 AZL 93.53 HCA 110.91 SMA 122.12 ECC .24573 INC 3.5345 V1 29.375
RP 108.69 LAP -3.30 LOP 359.83 VP 36.814 GAP -12.77 AZP 88.74 TAL 172.19 TAP 283.10 RCA 92.11 APO 152.13 V2 34.865
RC 47.255 GL -22.70 GP 2.12 ZAL 77.92 ZAP 7.72 ETS 343.77 ZAE 152.75 ETE 28.53 ZAC 92.40 ETC 13.98 CLP -7.42

PLANETOCENTRIC CONIC

C3 16.899 VHL 4.111 DLA -17.63 RAL 163.45 RAD 6567.7 VEL 11.759 PTH 2.08 VHP 8.034 DPA 8.06 RAP 175.21 ECC 1.2781

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 7 59	1592.08	-1.20	5.04	21.83	118.29	8 34 31	992.1	2.59	358.41
90.00	15 17 40	5401.83	28.01	247.70	28.13	85.66	16 47 42	4801.8	27.11	239.15
100.00	9 19 2	1362.82	-2.39	347.53	21.17	119.81	9 41 45	762.8	1.60	341.01
100.00	16 49 18	5106.32	29.36	225.83	27.99	84.10	18 14 25	4506.3	28.23	217.21
110.00	10 4 41	1219.78	-5.38	334.83	19.32	123.81	10 25 1	619.8	-.90	328.60
110.00	18 20 8	4822.13	32.84	203.68	27.42	79.93	19 40 30	4222.1	31.10	194.88

DIFFERENTIAL CORRECTIONS
TDE .6194 TRA -.8673 TC3 .6050 BAU .1480
RDE -.2144 RRA -.1098 RC3 .2508 FAU .03705
FDE -.9955 FRA .7544 FC3-1.8978 BSP 5096
BDE .6555 BRA .8742 BC3 .6549 FSP -559

MID-COURSE EXECUTION ACCURACY
SGT 1612.9 SGR 397.0 SG3 204.0
RRT .0754 RRF -.0898 RTF -.8856
SGB 1661.0 R23 -.0189 R13 -.8857
SG1 1613.2 SG2 395.8 THA 1.13

ORBIT DETERMINATION ACCURACY
ST 943.5 SR 302.8 SS 990.6
CRT -.8386 CRS -.9220 CST .9835
LSA 1388.8 MSA 184.5 SSA 17.1
EL1 978.1 EL2 159.1 ALF 164.52

LAUNCH DATE MAY 31 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 16 1967

HELIOCENTRIC CONIC DISTANCE 272.015

RL 151.67 LAL .00 LOL 248.88 VL 25.894 GAL 2.30 AZL 93.56 HCA 114.09 SMA 122.94 ECC .23695 INC 3.5633 V1 29.375
RP 108.66 LAP -3.25 LOP 3.01 VP 36.922 GAP -12.00 AZP 88.54 TAL 172.55 TAP 286.64 RCA 93.81 APO 152.07 V2 34.875
RC 48.458 GL -23.88 GP 2.31 ZAL 78.91 ZAP 9.66 ETS 345.87 ZAE 151.35 ETE 26.65 ZAC 91.18 ETC 13.86 CLP -9.39

PLANETOCENTRIC CONIC

C3 15.777 VHL 3.972 DLA -18.34 RAL 162.08 RAD 6567.6 VEL 11.712 PTH 2.06 VHP 7.599 DPA 7.74 RAP 176.41 ECC 1.2596

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 9 45	1548.93	.19	2.63	19.69	118.32	8 35 34	948.9	3.97	356.00
90.00	15 4 56	5413.58	28.07	248.56	25.84	86.08	16 35 9	4813.6	27.23	239.99
100.00	9 20 7	1321.86	-1.00	345.28	19.03	119.88	9 42 9	721.9	2.98	338.76
100.00	16 37 15	5115.89	29.42	226.53	25.71	84.47	18 2 30	4515.9	28.34	217.90
110.00	10 4 26	1183.02	-3.98	332.90	17.17	123.98	10 24 9	583.0	.51	326.69
110.00	18 9 25	4827.49	32.90	204.08	25.16	80.16	19 29 53	4227.5	31.20	195.27

DIFFERENTIAL CORRECTIONS
TDE .6303 TRA -.8330 TC3 .6995 BAU .1580
RDE -.1962 RRA -.1021 RC3 .2678 FAU .04008
FDE-1.0888 FRA .7664 FC3-2.1994 BSP 5256
BDE .6601 BRA .8392 BC3 .7490 FSP -627

MID-COURSE EXECUTION ACCURACY
SGT 1654.7 SGR 386.6 SG3 226.6
RRT .0895 RRF -.1064 RTF -.8927
SGB 1699.2 R23 -.0219 R13 -.8928
SG1 1655.0 SG2 385.0 THA 1.27

ORBIT DETERMINATION ACCURACY
ST 985.4 SR 286.9 SS 1057.0
CRT -.8473 CRS -.9265 CST .9843
LSA 1462.2 MSA 179.3 SSA 16.9
EL1 1015.7 EL2 147.9 ALF 165.84

```
LAUNCH DATE  MAY 31 1967                          FLIGHT TIME 110.00                          ARRIVAL DATE  SEP 18 1967

  HELIOCENTRIC CONIC                                  DISTANCE 278.719
   RL  151.67 LAL     .00 LOL 248.88 VL  26.022 GAL   2.08 AZL  93.59 HCA 117.27 SMA 123.70 ECC .22889 INC 3.5935 V1  29.375
   RP  108.63 LAP  -3.19 LOP   6.19 VP  37.022 GAP -11.26 AZP  88.35 TAL 172.94 TAP 290.21 RCA  95.38 APO 152.01 V2  34.886
   RC  49.776 GL  -25.06 GP    2.52 ZAL  79.95 ZAP  11.71 ETS 347.22 ZAE 150.13 ETE  25.14 ZAC  90.03 ETC  13.75 CLP -11.43
  PLANETOCENTRIC CONIC
   C3  14.806 VHL  3.848 DLA -19.02 RAL 160.66 RAD 6567.6 VEL 11.670 PTH   2.05 VHP  7.182 DPA   7.48 RAP 177.54 ECC 1.2437
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     8 11 21   1507.41      -1.53       .32       17.60      118.28    8 36 29     907.4       5.30      353.67
      90.00    14 52  0   5426.56      28.12    249.50       23.60       86.55   16 22 27    4826.6      27.35      240.92
     100.00     9 21  1   1282.62        .33    343.13       16.94      119.89    9 42 24     682.6       4.31      336.60
     100.00    16 25  2   5126.59      29.49    227.32       23.48       84.88   17 50 28    4526.6      28.47      218.67
     110.00    10  3 57   1148.10      -2.65    331.07       15.07      124.09   10 23  5     548.1       1.84      324.86
     110.00    17 58 36   4833.87      32.98    204.37       22.96       80.44   19 19  9    4233.9      31.31      195.74
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE   .6409 TRA -.7986 TC3   .7944 BAU   .1671    SGT 1693.1 SGR  375.6 SG3  251.9      ST  1026.4 SR   269.5 SS  1128.2
   RDE -.1784 RRA -.0951 RC3   .2850 FAU  .04348    RRT   .1083 RRF -.1279 RTF -.8989      CRT -.8548 CRS -.9303 CST  .9850
   FDE-1.1951 FRA   .7787 FC3-2.5425 BSP   5390    SGB 1734.3 R23 -.0257 R13 -.8991       LSA 1539.0 MSA  174.6 SSA   16.7
   BDE   .6653 BRA   .8042 BC3   .8440 FSP   -704    SG1 1693.7 SG2  373.3 THA   1.45     EL1 1052.4 EL2  136.4 ALF 167.13

LAUNCH DATE  MAY 31 1967                          FLIGHT TIME 112.00                          ARRIVAL DATE  SEP 20 1967

  HELIOCENTRIC CONIC                                  DISTANCE 285.415
   RL  151.67 LAL     .00 LOL 248.88 VL  26.139 GAL   1.88 AZL  93.63 HCA 120.45 SMA 124.40 ECC .22151 INC 3.6256 V1  29.375
   RP  108.59 LAP  -3.13 LOP   9.37 VP  37.114 GAP -10.54 AZP  88.16 TAL 173.35 TAP 293.80 RCA  96.85 APO 151.96 V2  34.897
   RC  51.201 GL  -26.23 GP    2.77 ZAL  81.01 ZAP  13.85 ETS 348.13 ZAE 149.13 ETE  23.95 ZAC  88.96 ETC  13.64 CLP -13.57
  PLANETOCENTRIC CONIC
   C3  13.971 VHL  3.738 DLA -19.69 RAL 159.21 RAD 6567.6 VEL 11.634 PTH   2.04 VHP  6.783 DPA   7.28 RAP 178.60 ECC 1.2299
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     8 12 51   1467.51       2.81    358.09       15.58      118.19    8 37 18     867.5       6.56      351.42
      90.00    14 38 58   5440.77      28.18    250.54       21.42       87.07   16  9 39    4840.8      27.47      241.94
     100.00     9 21 46   1245.10       1.60    341.07       14.91      119.85    9 42 31     645.1       5.56      334.52
     100.00    16 12 44   5138.40      29.56    228.19       21.32       85.33   17 38 22    4538.4      28.60      219.52
     110.00    10  3 17   1115.01      -1.39    329.34       13.04      124.16   10 21 52     515.0       3.11      323.13
     110.00    17 47 43   4841.26      33.06    205.13       20.82       80.76   19  8 24    4241.3      31.43      196.28
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE   .6513 TRA -.7628 TC3   .8909 BAU   .1757    SGT 1727.0 SGR  364.4 SG3  280.5      ST  1065.9 SR   250.3 SS  1205.0
   RDE -.1608 RRA -.0887 RC3   .3026 FAU  .04736    RRT   .1333 RRF -.1560 RTF -.9049      CRT -.8612 CRS -.9332 CST  .9858
   FDE-1.3167 FRA   .7902 FC3-2.9348 BSP   5519    SGB 1765.0 R23 -.0301 R13 -.9051       LSA 1619.1 MSA  170.2 SSA   16.4
 * BDE   .6709 BRA   .7679 BC3   .9409 FSP   -793    SG1 1727.7 SG2  361.0 THA   1.68     EL1 1087.7 EL2  124.7 ALF 168.41

LAUNCH DATE  MAY 31 1967                          FLIGHT TIME 114.00                          ARRIVAL DATE  SEP 22 1967

  HELIOCENTRIC CONIC                                  DISTANCE 292.101
   RL  151.67 LAL     .00 LOL 248.88 VL  26.245 GAL   1.70 AZL  93.66 HCA 123.63 SMA 125.06 ECC .21476 INC 3.6599 V1  29.375
   RP  108.56 LAP  -3.05 LOP  12.56 VP  37.200 GAP  -9.84 AZP  87.97 TAL 173.77 TAP 297.41 RCA  98.20 APO 151.91 V2  34.908
   RC  52.722 GL  -27.38 GP    3.05 ZAL  82.08 ZAP  16.10 ETS 348.75 ZAE 148.34 ETE  23.05 ZAC  87.99 ETC  13.53 CLP -15.82
  PLANETOCENTRIC CONIC
   C3  13.257 VHL  3.641 DLA -20.33 RAL 157.75 RAD 6567.5 VEL 11.604 PTH   2.03 VHP  6.402 DPA   7.15 RAP 179.57 ECC 1.2182
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     8 14 18   1429.15       4.05    355.94       13.64      118.05    8 38  7     829.2       7.77      349.24
      90.00    14 25 51   5456.22      28.23    251.67       19.33       87.63   15 56 47    4856.2      27.60      243.06
     100.00     9 22 26   1209.26       2.82    339.10       12.96      119.77    9 42 36     609.3       6.76      332.53
     100.00    16  0 24   5151.34      29.63    229.15       19.24       85.83   17 26 15    4551.3      28.73      220.46
     110.00    10  2 30   1083.73       -.19    327.71       11.08      124.18   10 20 33     483.7       4.30      321.50
     110.00    17 36 50   4849.64      33.15    205.76       18.77       81.13   18 57 40    4249.6      31.57      196.89
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE   .6627 TRA -.7252 TC3   .9886 BAU   .1842    SGT 1756.9 SGR  353.1 SG3  313.1      ST  1105.2 SR   229.1 SS  1288.5
   RDE -.1431 RRA -.0830 RC3   .3208 FAU  .05182    RRT   .1660 RRF -.1927 RTF -.9109      CRT -.8665 CRS -.9349 CST  .9867
   FDE-1.4572 FRA   .8003 FC3-3.3840 BSP   5672    SGB 1792.0 R23 -.0358 R13 -.9111       LSA 1704.8 MSA  165.6 SSA   16.0
   BDE   .6780 BRA   .7299 BC3 1.0393 FSP   -895    SG1 1757.9 SG2  348.0 THA   1.99     EL1 1123.0 EL2  112.5 ALF 169.71

LAUNCH DATE  MAY 31 1967                          FLIGHT TIME 116.00                          ARRIVAL DATE  SEP 24 1967

  HELIOCENTRIC CONIC                                  DISTANCE 298.774
   RL  151.67 LAL     .00 LOL 248.88 VL  26.342 GAL   1.52 AZL  93.70 HCA 126.82 SMA 125.66 ECC .20863 INC 3.6968 V1  29.375
   RP  108.52 LAP  -2.96 LOP  15.75 VP  37.279 GAP  -9.17 AZP  87.78 TAL 174.21 TAP 301.02 RCA  99.44 APO 151.87 V2  34.920
   RC  54.330 GL  -28.51 GP    3.38 ZAL  83.14 ZAP  18.49 ETS 349.17 ZAE 147.79 ETE  22.43 ZAC  87.12 ETC  13.43 CLP -18.19
  PLANETOCENTRIC CONIC
   C3  12.651 VHL  3.557 DLA -20.95 RAL 156.29 RAD 6567.5 VEL 11.577 PTH   2.02 VHP  6.038 DPA   7.12 RAP 180.46 ECC 1.2082
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     8 15 49   1392.21       5.22    353.87       11.79      117.87    8 39  2     792.2       8.91      347.13
      90.00    14 12 42   5473.01      28.27    252.89       17.33       88.25   15 43 55    4873.0      27.72      244.27
     100.00     9 23  8   1174.98       3.97    337.21       11.10      119.65    9 42 43     575.0       7.89      330.62
     100.00    15 48  5   5165.48      29.69    230.19       17.25       86.37   17 14 10    4565.5      28.87      221.49
     110.00    10  1 41   1054.16        .94    326.17        9.21      124.17   10 19 15     454.2       5.42      319.94
     110.00    17 26  1   4859.06      33.24    206.48       16.81       81.54   18 47  0    4259.1      31.72      197.59
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE   .6700 TRA -.6896 TC3 1.0713 BAU   .1901    SGT 1777.8 SGR  342.3 SG3  349.5      ST  1137.0 SR   205.4 SS  1376.2
   RDE -.1250 RRA -.0781 RC3   .3400 FAU  .05673    RRT   .2091 RRF -.2403 RTF -.9150      CRT -.8677 CRS -.9344 CST  .9873
   FDE-1.6158 FRA   .8122 FC3-3.8821 BSP   5748    SGB 1810.4 R23 -.0429 R13 -.9154       LSA 1789.5 MSA  162.6 SSA   15.6
   BDE   .6816 BRA   .6940 BC3 1.1240 FSP   -1009    SG1 1779.2 SG2  334.4 THA   2.39     EL1 1151.0 EL2  100.9 ALF 171.02
```

LAUNCH DATE MAY 31 1967 FLIGHT TIME 118.00 ARRIVAL DATE SEP 26 1967

HELIOCENTRIC CONIC DISTANCE 305.434
RL 151.67 LAL .00 LOL 248.88 VL 26.429 GAL 1.36 AZL 93.74 HCA 130.00 SMA 126.21 ECC .20307 INC 3.7370 V1 29.375
RP 108.48 LAP -2.86 LOP 18.94 VP 37.352 GAP -8.52 AZP 87.60 TAL 174.64 TAP 304.64 RCA 100.58 APO 151.84 V2 34.932
RC 56.016 GL -29.62 GP 3.76 ZAL 84.17 ZAP 21.01 ETS 349.45 ZAE 147.48 ETE 22.09 ZAC 86.36 ETC 13.34 CLP -20.69
PLANETOCENTRIC CONIC
C3 12.141 VHL 3.484 DLA -21.55 RAL 154.85 RAD 6567.5 VEL 11.555 PTH 2.02 VHP 5.692 DPA 7.18 RAP 181.24 ECC 1.1998

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 17 31	1356.45	6.36	351.85	10.05	117.65	8 40 8	756.4	10.01	345.08
90.00	13 59 32	5491.30	28.30	254.23	15.44	88.92	15 31 3	4891.3	27.85	245.60
100.00	9 23 57	1142.07	5.08	335.40	9.35	119.50	9 42 59	542.1	8.97	328.77
100.00	15 35 47	5180.92	29.75	231.34	15.38	86.97	17 2 8	4580.9	29.02	222.61
110.00	10 0 55	1026.16	2.01	324.71	7.44	124.13	10 18 2	426.2	6.48	318.47
110.00	17 15 18	4869.58	33.35	207.29	14.97	82.01	18 36 27	4269.6	31.88	198.36

DIFFERENTIAL CORRECTIONS
TDE .6760 TRA -.6541 TC3 1.1449 BAU .1949
RDE -.1060 RRA -.0738 RC3 .3611 FAU .06231
FDE-1.7984 FRA .8241 FC3-4.4430 BSP 5803
BDE .6842 BRA .6582 BC3 1.2005 FSP -1137

MID-COURSE EXECUTION ACCURACY
SGT 1791.5 SGR 332.8 SG3 390.8
RRT .2647 RRF -.3014 RTF -.9186
SGB 1822.1 R23 -.0520 R13 -.9191
SG1 1793.7 SG2 320.5 THA 2.91

ORBIT DETERMINATION ACCURACY
ST 1164.6 SR 178.9 SS 1470.7
CRT -.8643 CRS -.9306 CST .9878
LSA 1877.7 MSA 160.1 SSA 15.0
EL1 1174.9 EL2 89.2 ALF 172.39

LAUNCH DATE MAY 31 1967 FLIGHT TIME 120.00 ARRIVAL DATE SEP 28 1967

HELIOCENTRIC CONIC DISTANCE 312.080
RL 151.67 LAL .00 LOL 248.88 VL 26.508 GAL 1.22 AZL 93.78 HCA 133.19 SMA 126.71 ECC .19805 INC 3.7812 V1 29.375
RP 108.45 LAP -2.76 LOP 22.13 VP 37.420 GAP -7.89 AZP 87.41 TAL 175.06 TAP 308.25 RCA 101.62 APO 151.81 V2 34.945
RC 57.772 GL -30.70 GP 4.21 ZAL 85.17 ZAP 23.70 ETS 349.62 ZAE 147.41 ETE 22.06 ZAC 85.74 ETC 13.25 CLP -23.35
PLANETOCENTRIC CONIC
C3 11.720 VHL 3.423 DLA -22.14 RAL 153.45 RAD 6567.4 VEL 11.537 PTH 2.01 VHP 5.363 DPA 7.37 RAP 181.92 ECC 1.1929

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 19 32	1321.53	7.46	349.88	8.43	117.40	8 41 34	721.5	11.07	343.06
90.00	13 46 18	5511.35	28.32	255.70	13.67	89.65	15 18 9	4911.3	27.97	247.05
100.00	9 25 0	1110.25	6.14	333.63	7.72	119.31	9 43 30	510.2	10.00	326.97
100.00	15 23 31	5197.87	29.81	232.60	13.63	87.63	16 50 9	4597.9	29.16	223.85
110.00	10 0 19	999.53	3.03	323.31	5.79	124.06	10 16 59	399.5	7.48	317.05
110.00	17 4 41	4881.35	33.45	208.19	13.26	82.53	18 26 2	4281.4	32.06	199.23

DIFFERENTIAL CORRECTIONS
TDE .6785 TRA -.6187 TC3 1.2034 BAU .1980
RDE -.0859 RRA -.0702 RC3 .3848 FAU .06859
FDE-2.0066 FRA .8358 FC3-5.0665 BSP 5820
BDE .6839 BRA .6227 BC3 1.2634 FSP -1283

MID-COURSE EXECUTION ACCURACY
SGT 1793.9 SGR 325.9 SG3 437.1
RRT .3349 RRF -.3779 RTF -.9212
SGB 1823.3 R23 -.0638 R13 -.9219
SG1 1797.4 SG2 306.5 THA 3.59

ORBIT DETERMINATION ACCURACY
ST 1184.3 SR 148.9 SS 1571.0
CRT -.8520 CRS -.9204 CST .9883
LSA 1966.6 MSA 158.3 SSA 14.3
EL1 1191.1 EL2 77.5 ALF 173.86

LAUNCH DATE MAY 31 1967 FLIGHT TIME 122.00 ARRIVAL DATE SEP 30 1967

HELIOCENTRIC CONIC DISTANCE 318.710
RL 151.67 LAL .00 LOL 248.88 VL 26.579 GAL 1.08 AZL 93.83 HCA 136.38 SMA 127.17 ECC .19355 INC 3.8302 V1 29.375
RP 108.41 LAP -2.64 LOP 25.32 VP 37.482 GAP -7.28 AZP 87.23 TAL 175.47 TAP 311.85 RCA 102.56 APO 151.78 V2 34.957
RC 59.590 GL -31.75 GP 4.74 ZAL 86.12 ZAP 26.57 ETS 349.71 ZAE 147.59 ETE 22.37 ZAC 85.26 ETC 13.17 CLP -26.18
PLANETOCENTRIC CONIC
C3 11.378 VHL 3.373 DLA -22.73 RAL 152.09 RAD 6567.4 VEL 11.522 PTH 2.01 VHP 5.052 DPA 7.70 RAP 182.47 ECC 1.1872

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 22 3	1286.99	8.53	347.91	6.95	117.10	8 43 30	687.0	12.10	341.05
90.00	13 32 56	5533.55	28.31	257.32	12.04	90.47	15 5 9	4933.6	28.08	248.66
100.00	9 26 27	1079.14	7.18	331.90	6.22	119.10	9 44 26	479.1	11.00	325.20
100.00	15 11 13	5216.63	29.85	233.99	12.02	88.37	16 38 10	4616.6	29.31	225.23
110.00	10 0 0	973.98	4.00	321.98	4.26	123.98	10 16 14	374.0	8.44	315.69
110.00	16 54 10	4894.56	33.57	209.20	11.70	83.12	18 15 44	4294.6	32.25	200.22

DIFFERENTIAL CORRECTIONS
TDE .6809 TRA -.5816 TC3 1.2526 BAU .2006
RDE -.0637 RRA -.0673 RC3 .4127 FAU .07582
FDE-2.2507 FRA .8442 FC3-5.7690 BSP 5857
BDE .6839 BRA .5855 BC3 1.3189 FSP -1455

MID-COURSE EXECUTION ACCURACY
SGT 1788.6 SGR 323.4 SG3 490.1
RRT .4199 RRF -.4702 RTF -.9241
SGB 1817.6 R23 -.0787 R13 -.9252
SG1 1793.9 SG2 292.7 THA 4.46

ORBIT DETERMINATION ACCURACY
ST 1200.7 SR 114.7 SS 1681.8
CRT -.8203 CRS -.8944 CST .9888
LSA 2063.7 MSA 156.1 SSA 13.5
EL1 1204.4 EL2 65.4 ALF 175.50

LAUNCH DATE MAY 31 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 2 1967

HELIOCENTRIC CONIC DISTANCE 325.323
RL 151.67 LAL .00 LOL 248.88 VL 26.643 GAL .97 AZL 93.89 HCA 139.58 SMA 127.58 ECC .18952 INC 3.8854 V1 29.375
RP 108.37 LAP -2.52 LOP 28.52 VP 37.539 GAP -6.68 AZP 87.04 TAL 175.86 TAP 315.44 RCA 103.40 APO 151.76 V2 34.970
RC 61.464 GL -32.79 GP 5.36 ZAL 87.00 ZAP 29.64 ETS 349.74 ZAE 148.01 ETE 23.08 ZAC 84.94 ETC 13.09 CLP -29.20
PLANETOCENTRIC CONIC
C3 11.110 VHL 3.333 DLA -23.33 RAL 150.79 RAD 6567.4 VEL 11.511 PTH 2.01 VHP 4.759 DPA 8.21 RAP 182.89 ECC 1.1828

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 25 19	1252.12	9.61	345.91	5.63	116.76	8 46 11	652.1	13.13	339.00
90.00	13 19 17	5558.57	28.29	259.15	10.55	91.38	14 51 56	4958.6	28.18	250.49
100.00	9 28 29	1048.20	8.20	330.17	4.87	118.85	9 45 58	448.2	11.99	323.43
100.00	14 58 48	5237.71	29.88	235.56	10.56	89.19	16 26 6	4637.7	29.45	226.78
110.00	10 0 5	949.13	4.95	320.67	2.88	123.87	10 15 54	349.1	9.36	314.36
110.00	16 43 41	4909.55	33.68	210.36	10.29	83.80	18 5 31	4309.5	32.46	201.34

DIFFERENTIAL CORRECTIONS
TDE .6753 TRA -.5472 TC3 1.2714 BAU .2001
RDE -.0389 RRA -.0652 RC3 .4460 FAU .08376
FDE-2.5242 FRA .8546 FC3-6.5272 BSP 5799
BDE .6764 BRA .5511 BC3 1.3473 FSP -1643

MID-COURSE EXECUTION ACCURACY
SGT 1764.9 SGR 328.3 SG3 548.6
RRT .5166 RRF -.5750 RTF -.9247
SGB 1795.2 R23 -.0992 R13 -.9264
SG1 1773.3 SG2 279.8 THA 5.63

ORBIT DETERMINATION ACCURACY
ST 1201.0 SR 76.8 SS 1795.9
CRT -.7176 CRS -.8098 CST .9889
LSA 2156.2 MSA 155.4 SSA 12.6
EL1 1202.3 EL2 53.4 ALF 177.37

LAUNCH DATE MAY 31 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 4 1967

HELIOCENTRIC CONIC DISTANCE 331.920

```
RL  151.67 LAL    .00 LOL 248.88 VL  26.699 GAL    .86 AZL  93.95 HCA 142.77 SMA 127.95 ECC .18595 INC 3.9484 V1  29.375
RP  108.33 LAP  -2.39 LOP  31.71 VP  37.591 GAP  -6.11 AZP  86.85 TAL 176.23 TAP 319.00 RCA 104.16 APO 151.74 V2  34.983
RC  63.388 GL  -33.81 GP    6.12 ZAL  87.81 ZAP  32.94 ETS 349.71 ZAE 148.66 ETE  24.30 ZAC  84.80 ETC  13.03 CLP -32.43
```

PLANETOCENTRIC CONIC

```
C3  10.911 VHL  3.303 DLA -23.94 RAL 149.55 RAD 6567.4 VEL 11.502 PTH   2.00 VHP  4.486 DPA   8.91 RAP 183.17 ECC 1.1796
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 29 38	1215.96	10.71	343.83	4.47	116.37	8 49 54	616.0	14.17	336.86
90.00	13 5 7	5587.32	28.22	261.25	9.22	92.44	14 38 14	4987.3	28.26	252.59
100.00	9 31 22	1016.71	9.23	328.40	3.69	118.56	9 48 18	416.7	12.97	321.61
100.00	14 46 4	5261.80	29.89	237.35	9.26	90.13	16 13 46	4661.8	29.59	228.55
110.00	10 0 45	924.53	5.88	319.38	1.65	123.73	10 16 10	324.5	10.27	313.04
110.00	16 33 10	4926.74	33.80	211.69	9.05	84.57	17 55 17	4326.7	32.68	202.63

DIFFERENTIAL CORRECTIONS

```
TDE  .6648 TRA -.5141 TC3 1.2601 BAU  .1970
RDE -.0103 RRA -.0639 RC3  .4866 FAU .09249
FDE-2.8387 FRA  .8651 FC3-7.3387 BSP   5665
BDE  .6649 BRA  .5180 BC3 1.3508 FSP  -1849
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1724.7 SGR  344.0 SG3  613.7
RRT  .6155 RRF -.6832 RTF -.9238
SGB 1758.7 R23 -.1274 R13 -.9264
SG1 1737.9 SG2  269.1 THA   7.17
```

ORBIT DETERMINATION ACCURACY

```
ST  1189.9 SR    41.7 SS  1918.6
CRT -.1970 CRS -.3339 CST  .9889
LSA 2252.6 MSA  155.2 SSA   11.7
EL1 1190.0 EL2   40.8 ALF 179.60
```

LAUNCH DATE MAY 31 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 6 1967

HELIOCENTRIC CONIC DISTANCE 338.498

```
RL  151.67 LAL    .00 LOL 248.88 VL  26.749 GAL    .77 AZL  94.02 HCA 145.97 SMA 128.28 ECC .18279 INC 4.0214 V1  29.375
RP  108.29 LAP  -2.25 LOP  34.91 VP  37.638 GAP  -5.55 AZP  86.67 TAL 176.56 TAP 322.53 RCA 104.83 APO 151.73 V2  34.996
RC  65.357 GL  -34.84 GP    7.03 ZAL  88.54 ZAP  36.50 ETS 349.65 ZAE 149.53 ETE  26.14 ZAC  84.85 ETC  12.99 CLP -35.91
```

PLANETOCENTRIC CONIC

```
C3  10.781 VHL  3.283 DLA -24.58 RAL 148.39 RAD 6567.4 VEL 11.496 PTH   2.00 VHP  4.232 DPA   9.85 RAP 183.30 ECC 1.1774
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 35 27	1177.11	11.88	341.57	3.51	115.90	8 55 5	577.1	15.26	334.53
90.00	12 50 0	5621.25	28.10	263.73	8.05	93.67	14 23 41	5021.3	28.31	255.07
100.00	9 35 22	983.68	10.30	326.53	2.69	118.22	9 51 46	383.7	13.99	319.69
100.00	14 32 46	5289.92	29.87	239.44	8.14	91.23	16 0 56	4689.9	29.72	230.63
110.00	10 2 11	899.58	6.82	318.06	.59	123.58	10 17 11	299.6	11.19	311.69
110.00	16 22 27	4946.79	33.92	213.24	8.00	85.49	17 44 53	4346.8	32.92	204.14

DIFFERENTIAL CORRECTIONS

```
TDE  .6477 TRA -.4806 TC3 1.2257 BAU  .1929
RDE  .0234 RRA -.0633 RC3  .5374 FAU .10225
FDE-3.1955 FRA  .8718 FC3-8.2111 BSP   5517
BDE  .6482 BRA  .4848 BC3 1.3383 FSP  -2083
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1666.1 SGR  375.4 SG3  685.6
RRT  .7070 RRF -.7834 RTF -.9217
SGB 1707.9 R23 -.1629 R13 -.9261
SG1 1687.7 SG2  262.1 THA   9.28
```

ORBIT DETERMINATION ACCURACY

```
ST  1163.9 SR    55.8 SS  2047.9
CRT  .8709 CRS  .7936 CST  .9887
LSA 2351.1 MSA  155.0 SSA   10.8
EL1 1164.9 EL2   27.4 ALF   2.39
```

LAUNCH DATE MAY 31 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 8 1967

HELIOCENTRIC CONIC DISTANCE 345.058

```
RL  151.67 LAL    .00 LOL 248.88 VL  26.793 GAL    .69 AZL  94.11 HCA 149.17 SMA 128.57 ECC .18003 INC 4.1077 V1  29.375
RP  108.25 LAP  -2.10 LOP  38.11 VP  37.682 GAP  -5.00 AZP  86.47 TAL 176.86 TAP 326.03 RCA 105.43 APO 151.72 V2  35.009
RC  67.365 GL  -35.88 GP    8.15 ZAL  89.17 ZAP  40.33 ETS 349.57 ZAE 150.57 ETE  28.82 ZAC  85.09 ETC  12.98 CLP -39.64
```

PLANETOCENTRIC CONIC

```
C3  10.720 VHL  3.274 DLA -25.28 RAL 147.30 RAD 6567.4 VEL 11.494 PTH   2.00 VHP  3.999 DPA  11.08 RAP 183.29 ECC 1.1764
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 43 30	1133.29	13.16	338.99	2.77	115.30	9 2 24	533.3	16.47	331.87
90.00	12 33 14	5662.78	27.88	266.75	7.04	95.17	14 7 37	5062.8	28.30	258.11
100.00	9 41 0	947.63	11.45	324.48	1.90	117.80	9 56 48	347.6	15.08	317.57
100.00	14 18 25	5323.67	29.79	241.94	7.19	92.55	15 47 9	4723.7	29.83	233.14
110.00	10 4 39	873.46	7.80	316.67	359.71	123.39	10 19 13	273.5	12.14	310.26
110.00	16 11 16	4970.61	34.03	215.09	7.15	86.58	17 34 6	4370.6	33.18	205.95

DIFFERENTIAL CORRECTIONS

```
TDE  .6229 TRA -.4502 TC3 1.1477 BAU  .1856
RDE  .0644 RRA -.0638 RC3  .6002 FAU .11253
FDE-3.6028 FRA  .8801 FC3-9.0873 BSP   5296
BDE  .6263 BRA  .4547 BC3 1.2951 FSP  -2339
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1585.0 SGR  427.1 SG3  763.4
RRT  .7768 RRF -.8639 RTF -.9161
SGB 1641.5 R23 -.2097 R13 -.9240
SG1 1620.3 SG2  263.1 THA  12.15
```

ORBIT DETERMINATION ACCURACY

```
ST  1121.2 SR   119.3 SS  2186.4
CRT  .9936 CRS  .9698 CST  .9881
LSA 2455.0 MSA  155.8 SSA    9.8
EL1 1127.5 EL2   13.4 ALF   6.03
```

LAUNCH DATE MAY 31 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 10 1967

HELIOCENTRIC CONIC DISTANCE 351.600

```
RL  151.67 LAL    .00 LOL 248.88 VL  26.831 GAL    .62 AZL  94.21 HCA 152.37 SMA 128.83 ECC .17763 INC 4.2119 V1  29.375
RP  108.20 LAP  -1.95 LOP  41.31 VP  37.721 GAP  -4.47 AZP  86.27 TAL 177.11 TAP 329.48 RCA 105.94 APO 151.71 V2  35.023
RC  69.409 GL  -36.97 GP    9.53 ZAL  89.70 ZAP  44.46 ETS 349.47 ZAE 151.68 ETE  32.58 ZAC  85.53 ETC  13.02 CLP -43.64
```

PLANETOCENTRIC CONIC

```
C3  10.735 VHL  3.276 DLA -26.05 RAL 146.27 RAD 6567.4 VEL 11.495 PTH   2.00 VHP  3.789 DPA  12.67 RAP 183.15 ECC 1.1767
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 55 4	1080.41	14.68	335.85	2.31	114.49	9 13 4	480.4	17.86	328.62
90.00	12 13 30	5716.23	27.49	270.61	6.18	97.07	13 48 46	5116.2	28.18	262.01
100.00	9 48 59	906.27	12.75	322.10	1.34	117.27	10 4 6	306.3	16.31	315.11
100.00	14 2 15	5365.60	29.63	245.05	6.42	94.18	15 31 41	4765.6	29.89	236.25
110.00	10 8 29	845.07	8.86	315.16	359.04	123.15	10 22 35	245.1	13.16	308.70
110.00	15 59 14	4999.57	34.13	217.35	6.51	87.91	17 22 34	4399.6	33.46	208.17

DIFFERENTIAL CORRECTIONS

```
TDE  .5890 TRA -.4199 TC3 1.0354 BAU  .1777
RDE  .1155 RRA -.0651 RC3  .6789 FAU .12341
FDE-4.0617 FRA  .8793 FC3-9.9524 BSP   5011
BDE  .6002 BRA  .4249 BC3 1.2381 FSP  -2608
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1479.6 SGR  504.7 SG3  846.2
RRT  .8214 RRF -.9211 RTF -.9068
SGB 1563.3 R23 -.2613 R13 -.9217
SG1 1538.6 SG2  276.8 THA  16.19
```

ORBIT DETERMINATION ACCURACY

```
ST  1059.0 SR   206.0 SS  2332.4
CRT  .9978 CRS  .9929 CST  .9870
LSA 2565.0 MSA  156.5 SSA    8.8
EL1 1078.8 EL2   13.3 ALF  10.99
```

LAUNCH DATE MAY 31 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 12 1967

HELIOCENTRIC CONIC DISTANCE 358.122

RL	151.67	LAL	.00	LOL	248.88	VL	26.863	GAL	.57	AZL	94.34	HCA	155.58	SMA	129.05	ECC	.17558	INC	4.3412	V1	29.375
RP	108.16	LAP	-1.79	LOP	44.52	VP	37.756	GAP	-3.96	AZP	86.05	TAL	177.31	TAP	332.89	RCA	106.39	APO	151.71	V2	35.036
RC	71.485	GL	-38.14	GP	11.27	ZAL	90.12	ZAP	48.92	ETS	349.38	ZAE	152.73	ETE	37.77	ZAC	86.16	ETC	13.14	CLP	-47.93

PLANETOCENTRIC CONIC

C3	10.839	VHL	3.292	DLA	-26.94	RAL	145.30	RAD	6567.4	VEL	11.499	PTH	2.00	VHP	3.605	DPA	14.70	RAP	182.90	ECC	1.1784

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 13 1	1009.23	16.64	331.55	2.21	113.24	9 29 51	409.2	19.65	324.16
90.00	11 47 46	5791.35	26.75	275.98	5.41	99.66	13 24 18	5191.3	27.81	267.47
100.00	10 0 38	855.46	14.32	319.14	1.09	116.52	10 14 53	255.5	17.76	312.04
100.00	13 42 51	5420.35	29.29	249.08	5.82	96.27	15 13 12	4820.3	29.85	240.32
110.00	10 14 13	812.76	10.06	313.42	358.60	122.84	10 27 46	212.8	14.32	306.91
110.00	15 45 45	5035.81	34.18	220.18	6.11	89.58	17 9 41	4435.8	33.75	210.96

DIFFERENTIAL CORRECTIONS

TOE	.5448	TRA	-.3892	TC3	.8923	BAU	.1716	SGT	1349.6	SGR	615.8	SG3	932.4	ST	975.3	SR	317.9	SS	2485.8
RDE	.1810	RRA	-.0669	RC3	.7786	FAU	.13481	RRT	.8413	RRF	-.9574	RTF	-.8919	CRT	.9933	CRS	.9979	CST	.9851
FDE	-4.5746	FRA	.8612	FC	-10.7670	BSP	4749	SGB	1483.4	R23	-.3048	R13	-.9216	LSA	2684.5	MSA	156.8	SSA	7.8
BDE	.5741	BRA	.3949	BC3	1.1843	FSP	-2903	SGI	1450.8	SG2	309.6	THA	22.06	EL1	1025.2	EL2	35.1	ALF	17.96

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAY 31 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 14 1967

HELIOCENTRIC CONIC DISTANCE 364.625

RL	151.67	LAL	.00	LOL	248.88	VL	26.891	GAL	.53	AZL	94.51	HCA	158.79	SMA	129.23	ECC	.17385	INC	4.5069	V1	29.375
RP	108.12	LAP	-1.63	LOP	47.72	VP	37.788	GAP	-3.46	AZP	85.80	TAL	177.47	TAP	336.25	RCA	106.77	APO	151.70	V2	35.049
RC	73.590	GL	-39.45	GP	13.51	ZAL	90.43	ZAP	53.72	ETS	349.30	ZAE	153.42	ETE	44.71	ZAC	86.93	ETC	13.36	CLP	-52.52

PLANETOCENTRIC CONIC

C3	11.058	VHL	3.325	DLA	-28.00	RAL	144.36	RAD	6567.4	VEL	11.509	PTH	2.00	VHP	3.451	DPA	17.30	RAP	182.61	ECC	1.1820

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 49 26	881.22	19.90	323.57	2.82	110.57	10 4 7	281.2	22.52	315.88
90.00	11 3 51	639.51	24.84	307.58	4.48	104.06	11 14 30	39.5	26.53	299.32
100.00	10 18 52	786.03	16.38	315.02	1.25	115.36	10 31 58	186.0	19.67	307.76
100.00	13 17 6	5497.97	28.58	254.74	5.34	99.17	14 48 44	4898.0	29.55	246.07
110.00	10 22 45	773.84	11.49	311.31	358.47	122.42	10 35 39	173.8	15.68	304.72
110.00	15 29 43	5082.92	34.14	223.86	5.97	91.76	16 54 26	4482.9	34.01	214.61

DIFFERENTIAL CORRECTIONS

TOE	.4849	TRA	-.3644	TC3	.6962	BAU	.1680	SGT	1190.8	SGR	766.5	SG3	1013.4	ST	862.4	SR	462.4	SS	2638.3
RDE	.2671	RRA	-.0706	RC3	.8981	FAU	.14482	RRT	.8315	RRF	-.9783	RTF	-.8622	CRT	.9869	CRS	.9993	CST	.9812
FDE	-5.1256	FRA	.8447	FC	-11.3378	BSP	4452	SGB	1416.2	R23	-.3276	R13	-.9260	LSA	2809.5	MSA	158.6	SSA	6.7
BDE	.5536	BRA	.3712	BC3	1.1364	FSP	-3171	SGI	1366.7	SG2	371.0	THA	30.66	EL1	976.3	EL2	65.9	ALF	28.03

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAY 31 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 16 1967

HELIOCENTRIC CONIC DISTANCE 371.109

RL	151.67	LAL	.00	LOL	248.88	VL	26.914	GAL	.51	AZL	94.73	HCA	162.00	SMA	129.39	ECC	.17241	INC	4.7288	V1	29.375
RP	108.08	LAP	-1.46	LOP	50.93	VP	37.817	GAP	-2.97	AZP	85.50	TAL	177.57	TAP	339.57	RCA	107.08	APO	151.70	V2	35.062
RC	75.721	GL	-40.99	GP	16.47	ZAL	90.63	ZAP	58.88	ETS	349.27	ZAE	153.33	ETE	53.54	ZAC	87.77	ETC	13.73	CLP	-57.39

PLANETOCENTRIC CONIC

C3	11.442	VHL	3.383	DLA	-29.31	RAL	143.40	RAD	6567.4	VEL	11.525	PTH	2.01	VHP	3.334	DPA	20.66	RAP	182.41	ECC	1.1883

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.12	9 17 49	977.46	23.20	331.88	3.60	108.43	9 34 7	377.5	25.50	323.88
97.88	11 27 49	5845.40	23.21	278.95	3.61	108.41	13 5 14	5245.4	25.51	270.96
100.00	10 54 28	664.28	19.78	307.57	2.22	112.88	11 5 32	64.3	22.71	300.00
100.00	12 33 51	5633.81	26.72	264.41	4.73	103.93	14 7 45	5033.8	28.37	255.99
110.00	10 35 44	723.28	13.32	308.54	358.74	121.78	10 47 47	123.3	17.42	301.83
110.00	15 9 5	5147.58	33.89	228.89	6.10	94.73	16 34 52	4547.6	34.18	219.65

DIFFERENTIAL CORRECTIONS

TOE	.4105	TRA	-.3406	TC3	.4755	BAU	.1757	SGT	1012.3	SGR	973.7	SG3	1085.3	ST	723.1	SR	655.0	SS	2791.5
RDE	.3857	RRA	-.0744	RC3	1.0458	FAU	.15353	RRT	.7887	RRF	-.9896	RTF	-.8083	CRT	.9775	CRS	.9998	CST	.9735
FDE	-5.7131	FRA	.7945	FC	-11.6168	BSP	4327	SGB	1404.6	R23	-.2933	R13	-.9462	LSA	2952.7	MSA	160.2	SSA	5.7
BDE	.5632	BRA	.3487	BC3	1.1488	FSP	-3413	SGI	1328.4	SG2	456.2	THA	43.59	EL1	970.2	EL2	103.0	ALF	42.11

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAY 31 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 18 1967

HELIOCENTRIC CONIC DISTANCE 377.572

RL	151.67	LAL	.00	LOL	248.88	VL	26.933	GAL	.49	AZL	95.04	HCA	165.21	SMA	129.52	ECC	.17125	INC	5.0435	V1	29.375
RP	108.04	LAP	-1.29	LOP	54.14	VP	37.842	GAP	-2.49	AZP	85.12	TAL	177.62	TAP	342.83	RCA	107.34	APO	151.70	V2	35.075
RC	77.874	GL	-42.91	GP	20.52	ZAL	90.72	ZAP	64.41	ETS	349.34	ZAE	151.76	ETE	63.79	ZAC	88.53	ETC	14.31	CLP	-62.53

PLANETOCENTRIC CONIC

C3	12.094	VHL	3.478	DLA	-30.99	RAL	142.34	RAD	6567.5	VEL	11.553	PTH	2.02	VHP	3.267	DPA	25.10	RAP	182.54	ECC	1.1990

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.84	8 33 50	1115.78	24.21	342.57	3.85	109.96	8 52 26	515.8	26.71	334.56
103.16	12 3 21	5730.32	24.23	270.77	3.85	109.95	13 38 52	5130.3	26.72	262.76
76.84	8 33 50	1115.78	24.21	342.57	3.85	109.96	8 52 26	515.8	26.71	334.56
103.16	12 3 21	5730.32	24.23	270.77	3.85	109.95	13 38 52	5130.3	26.72	262.76
110.00	10 57 15	649.28	15.93	304.40	359.68	120.65	11 8 4	49.3	19.88	297.50
110.00	14 39 7	5244.81	33.10	236.36	6.47	99.08	16 6 32	4644.8	34.00	227.24

DIFFERENTIAL CORRECTIONS

TOE	.3184	TRA	-.3214	TC3	.2311	BAU	.2003	SGT	826.2	SGR	1258.3	SG3	1132.0	ST	556.3	SR	920.4	SS	2934.6
RDE	.5577	RRA	-.0782	RC3	1.2170	FAU	.15808	RRT	.6838	RRF	-.9953	RTF	-.6978	CRT	.9579	CRS	.9999	CST	.9552
FDE	-6.3034	FRA	.7084	FC	-11.3158	BSP	4565	SGB	1505.3	R23	-.1827	R13	-.9787	LSA	3121.2	MSA	162.1	SSA	4.7
BDE	.6422	BRA	.3308	BC3	1.2387	FSP	-3571	SGI	1405.2	SG2	539.9	THA	61.18	EL1	1066.5	EL2	137.8	ALF	59.36

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAY 31 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 20 1967

HELIOCENTRIC CONIC DISTANCE 384.016

```
RL  151.67 LAL    .00 LOL 248.88 VL  26.947 GAL    .49 AZL  95.53 HCA 168.42 SMA 129.62 ECC .17035 INC 5.5286 V1  29.375
RP  108.00 LAP  -1.11 LOP  57.35 VP  37.865 GAP  -2.02 AZP  84.58 TAL 177.61 TAP 346.03 RCA 107.54 APO 151.70 V2  35.088
RC  80.046 GL  -45.47 GP   26.36 ZAL  90.69 ZAP  70.29 ETS 349.57 ZAE 147.75 ETE  74.21 ZAC  88.92 ETC  15.16 CLP -67.89
```

PLANETOCENTRIC CONIC

```
C3  13.261 VHL  3.642 DLA -33.30 RAL 141.02 RAD 6567.5 VEL 11.604 PTH   2.03 VHP  3.284 DPA  31.20 RAP 183.53 ECC 1.2182
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
71.70	7 54 4	1243.07	25.43	352.78	4.63	112.26	8 14 47	643.1	28.22	344.79
108.30	12 32 34	5642.43	25.44	264.59	4.63	112.25	14 6 36	5042.4	28.23	256.60
71.70	7 54 4	1243.07	25.43	352.78	4.63	112.26	8 14 47	643.1	28.22	344.79
108.30	12 32 34	5642.43	25.44	264.59	4.63	112.25	14 6 36	5042.4	28.23	256.60
110.00	11 44 14	5790.71	20.81	273.74	2.28	117.75	13 20 45	5190.7	24.35	266.39
110.00	13 41 34	5430.83	30.25	250.10	6.55	106.74	15 12 5	4830.8	32.24	241.45

DIFFERENTIAL CORRECTIONS

```
TDE  .2037 TRA -.3104 TC3 -.0209 BAU  .2468
RDE  .8273 RRA -.0780 RC3 1.3920 FAU .15415
FDE-6.8163 FRA  .5555 FC-10.0638 BSP  5412
BDE  .8520 BRA  .3201 BC3 1.3922 FSP  -3560
```

MID-COURSE EXECUTION ACCURACY

```
SGT  666.6 SGR 1656.5 SG3 1126.0
RRT  .4414 RRF -.9980 RTF -.4531
SGB 1785.6 R23 -.0566 R13 -.9965
SG1 1686.1 SG2  587.7 THA  78.51
```

ORBIT DETERMINATION ACCURACY

```
ST   365.3 SR  1302.8 SS  3044.6
CRT  .8927 CRS 1.0000 CST  .8907
LSA 3327.6 MSA  165.1 SSA     3.7
EL1 1343.6 EL2  159.6 ALF  75.74
```

LAUNCH DATE MAY 31 1967 FLIGHT TIME 144.00 ARRIVAL DATE OCT 22 1967

HELIOCENTRIC CONIC DISTANCE 390.439

```
RL  151.67 LAL    .00 LOL 248.88 VL  26.958 GAL    .50 AZL  96.38 HCA 171.64 SMA 129.69 ECC .16969 INC 6.3800 V1  29.375
RP  107.96 LAP   -.93 LOP  60.56 VP  37.884 GAP, -1.56 AZP  83.69 TAL 177.54 TAP 349.17 RCA 107.68 APO 151.70 V2  35.101
RC  82.236 GL  -49.22 GP   35.38 ZAL  90.56 ZAP  76.52 ETS 350.14 ZAE 139.80 ETE  83.16 ZAC  88.34 ETC  16.26 CLP -73.39
```

PLANETOCENTRIC CONIC

```
C3  15.653 VHL  3.956 DLA -36.69 RAL 139.06 RAD 6567.6 VEL 11.706 PTH   2.06 VHP  3.477 DPA  40.05 RAP 186.79 ECC 1.2576
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.63	7 11 12	1385.67	26.78	4.70	6.39	116.07	7 34 18	785.7	30.05	356.81
114.37	12 59 49	5573.30	26.79	259.82	6.40	116.06	14 32 42	4973.3	30.06	251.93
65.63	7 11 12	1385.67	26.78	4.70	6.39	116.07	7 34 18	785.7	30.05	356.81
114.37	12 59 49	5573.30	26.79	259.82	6.40	116.06	14 32 42	4973.3	30.06	251.93
65.63	7 11 12	1385.67	26.78	4.70	6.39	116.07	7 34 18	785.7	30.05	356.81
114.37	12 59 49	5573.30	26.79	259.82	6.40	116.06	14 32 42	4973.3	30.06	251.93

DIFFERENTIAL CORRECTIONS

```
TDE  .0622 TRA -.3133 TC3 -.2225 BAU  .3190
RDE 1.3002 RRA -.0606 RC3 1.5080 FAU .13489
FDE-7.0265 FRA  .2974 FC3-7.4605 BSP  7090
BDE 1.3017 BRA  .3191 BC3 1.5243 FSP  -3211
```

MID-COURSE EXECUTION ACCURACY

```
SGT  599.4 SGR 2231.9 SG3 1017.5
RRT  .0161 RRF -.9992 RTF -.0257
SGB 2311.0 R23  .0084 R13 -.9992
SG1 2231.9 SG2  599.3 THA  89.73
```

ORBIT DETERMINATION ACCURACY

```
ST   192.3 SR  1883.6 SS  3057.8
CRT  .4835 CRS 1.0000 CST  .4822
LSA 3592.6 MSA  168.4 SSA     2.7
EL1 1885.9 EL2  168.1 ALF  87.15
```

LAUNCH DATE MAY 31 1967 FLIGHT TIME 146.00 ARRIVAL DATE OCT 24 1967

HELIOCENTRIC CONIC DISTANCE 396.836

```
RL  151.67 LAL    .00 LOL 248.88 VL  26.966 GAL    .53 AZL  98.29 HCA 174.85 SMA 129.74 ECC .16926 INC 8.2857 V1  29.375
RP  107.92 LAP   -.74 LOP  63.78 VP  37.901 GAP  -1.12 AZP  81.75 TAL 177.41 TAP 352.26 RCA 107.78 APO 151.70 V2  35.113
RC  84.440 GL  -55.30 GP   50.49 ZAL  90.32 ZAP  82.93 ETS 351.50 ZAE 125.17 ETE  89.56 ZAC  85.56 ETC  17.20 CLP -78.84
```

PLANETOCENTRIC CONIC

```
C3  22.345 VHL  4.727 DLA -42.11 RAL 135.49 RAD 6567.9 VEL 11.989 PTH   2.14 VHP  4.230 DPA  53.38 RAP 197.52 ECC 1.3677
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.43	6 18 10	1579.82	27.36	21.33	10.54	123.35	6 44 30	979.8	31.54	13.91
122.57	13 24 21	5546.27	27.37	257.93	10.55	123.34	14 56 48	4946.3	31.55	250.50
57.43	6 18 10	1579.82	27.36	21.33	10.54	123.35	6 44 30	979.8	31.54	13.91
122.57	13 24 21	5546.27	27.37	257.93	10.55	123.34	14 56 48	4946.3	31.55	250.50
57.43	6 18 10	1579.82	27.36	21.33	10.54	123.35	6 44 30	979.8	31.54	13.91
122.57	13 24 21	5546.27	27.37	257.93	10.55	123.34	14 56 48	4946.3	31.55	250.50

DIFFERENTIAL CORRECTIONS

```
TDE -.1109 TRA -.3591 TC3 -.2874 BAU  .4111
RDE 2.3102 RRA  .0439 RC3 1.3459 FAU .08891
FDE-6.3210 FRA -.1156 FC3-3.4448 BSP  9927
BDE 2.3129 BRA  .3618 BC3 1.3763 FSP  -2290
```

MID-COURSE EXECUTION ACCURACY

```
SGT  660.4 SGR 3076.5 SG3  719.5
RRT -.3761 RRF -.9997 RTF  .3683
SGB 3146.6 R23  .0249 R13 -.9994
SG1 3087.0 SG2  609.8 THA  94.80
```

ORBIT DETERMINATION ACCURACY

```
ST   221.6 SR  2800.5 SS  2800.6
CRT -.6130 CRS 1.0000 CST -.6128
LSA 3962.9 MSA  175.0 SSA     1.7
EL1 2803.8 EL2  174.9 ALF  92.79
```

LAUNCH DATE MAY 31 1967 FLIGHT TIME 148.00 ARRIVAL DATE OCT 26 1967

HELIOCENTRIC CONIC DISTANCE 403.195

```
RL  151.67 LAL    .00 LOL 248.88 VL  26.970 GAL    .57 AZL 106.42 HCA 178.04 SMA 129.77 ECC .16904 INC16.4145 V1  29.375
RP  107.89 LAP   -.55 LOP  66.99 VP  37.915 GAP   -.69 AZP  73.59 TAL 177.19 TAP 355.22 RCA 107.83 APO 151.71 V2  35.125
RC  86.655 GL  -65.30 GP   77.98 ZAL  90.04 ZAP  88.41 ETS 353.21 ZAE  97.93 ETE  92.22 ZAC  78.31 ETC  14.17 CLP -82.34
```

PLANETOCENTRIC CONIC

```
C3  70.382 VHL  8.389 DLA -50.66 RAL 127.91 RAD 6569.4 VEL 13.847 PTH   2.53 VHP  8.759 DPA  67.45 RAP 247.92 ECC 2.1583
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
46.06	5 6 30	1970.15	18.25	49.33	22.21	138.12	5 39 20	1370.1	24.12	43.91
133.94	13 35 33	5725.27	18.27	266.05	22.22	138.12	15 10 59	5125.3	24.13	260.62
46.06	5 6 30	1970.15	18.25	49.33	22.21	138.12	5 39 20	1370.1	24.12	43.91
133.94	13 35 33	5725.27	18.27	266.05	22.22	138.12	15 10 59	5125.3	24.13	260.62
46.06	5 6 30	1970.15	18.25	49.33	22.21	138.12	5 39 20	1370.1	24.12	43.91
133.94	13 35 33	5725.27	18.27	266.05	22.22	138.12	15 10 59	5125.3	24.13	260.62

DIFFERENTIAL CORRECTIONS

```
TDE  .4155 TRA -.6398 TC3 -.0708 BAU  .2341
RDE 5.6104 RRA  .4861 RC3  .2384 FAU .01069
FDE-3.5328 FRA -.2725 FC3 -.1315 BSP  9739
BDE 5.6257 BRA  .8035 BC3  .2488 FSP  -508
```

MID-COURSE EXECUTION ACCURACY

```
SGT  754.8 SGR 3887.9 SG3  210.9
RRT  .2313 RRF -.9998 RTF -.2476
SGB 3960.5 R23  .0080 R13 -.9999
SG1 3892.0 SG2  733.6 THA  87.33
```

ORBIT DETERMINATION ACCURACY

```
ST   351.1 SR  3834.9 SS  1827.!
CRT  .7833 CRS 1.0000 CST  .7861
LSA 4256.8 MSA  217.7 SSA     .7
EL1 3844.8 EL2  217.7 ALF  85.88
```

LAUNCH DATE MAY 31 1967 FLIGHT TIME 150.00 ARRIVAL DATE OCT 28 1967

HELIOCENTRIC CONIC DISTANCE 409.698

```
RL  151.67 LAL    .00 LOL 248.88 VL  26.971 GAL    .59 AZL  74.72 HCA 181.39 SMA 129.78 ECC .16900 INC15.2687 V1  29.375
RP  107.85 LAP   -.37 LOP  70.21 VP  37.927 GAP   -.22 AZP 105.27 TAL 177.08 TAP 358.46 RCA 107.85 APO 151.71 V2  35.137
RC  88.880 GL   64.71 GP  -86.21 ZAL  89.97 ZAP  90.29 ETS    .65 ZAE  97.54 ETE 262.86 ZAC 105.46 ETC 346.40 CLP -94.35
```

PLANETOCENTRIC CONIC

```
C3  61.755 VHL  7.858 DLA  62.94 RAL 208.78 RAD 6569.2 VEL 13.532 PTH   2.47 VHP 12.153 DPA -63.39 RAP 105.22 ECC 2.0163
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
31.11	21 46 25	4665.59	-23.01	231.46	106.26	29.62	23 4 11	4065.6	-29.90	227.33
148.89	7 40 51	2967.23	-23.00	90.51	106.24	29.61	8 30 18	2367.2	-29.89	86.38
31.11	21 46 25	4665.59	-23.01	231.46	106.26	29.62	23 4 11	4065.6	-29.90	227.33
148.89	7 40 51	2967.23	-23.00	90.51	106.24	29.61	8 30 18	2367.2	-29.89	86.38
31.11	21 46 25	4665.59	-23.01	231.46	106.26	29.62	23 4 11	4065.6	-29.90	227.33
148.89	7 40 51	2967.23	-23.00	90.51	106.24	29.61	8 30 18	2367.2	-29.89	86.38

DIFFERENTIAL CORRECTIONS

```
TDE 1.1812 TRA 1.0235 TC3 -.1072 BAU  .2584
RDE  .9158 RRA 2.5624 RC3 -.2941 FAU .00856
FDE  .3622 FRA 1.0197 FC3 -.1201 BSP   9293
BDE 1.4946 BRA 2.7593 BC3  .3130 FSP   -308
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1860.6 SGR 4186.9 SG3  144.0
RRT  .9489 RRF 1.0000 RTF  .9485
SGB 4581.7 R23  .0520 R13  .9986
SG1 4549.7 SG2  540.6 THA  66.79
```

ORBIT DETERMINATION ACCURACY

```
ST   991.9 SR  1401.6 SS   584.8
CRT  .8499 CRS-1.0000 CST -.8485
LSA 1756.7 MSA  452.2 SSA     .3
EL1 1659.3 EL2  441.5 ALF  56.27
```

LAUNCH DATE MAY 31 1967 FLIGHT TIME 152.00 ARRIVAL DATE OCT 30 1967

HELIOCENTRIC CONIC DISTANCE 415.989

```
RL  151.67 LAL    .00 LOL 248.88 VL  26.969 GAL    .67 AZL  87.80 HCA 184.56 SMA 129.77 ECC .16918 INC 2.1971 V1  29.375
RP  107.82 LAP   -.17 LOP  73.43 VP  37.936 GAP    .19 AZP  92.19 TAL 176.73 TAP   1.29 RCA 107.81 APO 151.72 V2  35.149
RC  91.113 GL   23.08 GP  -54.53 ZAL  89.17 ZAP  94.11 ETS 355.16 ZAE 127.91 ETE 253.92 ZAC 112.57 ETC 353.78 CLP -97.09
```

PLANETOCENTRIC CONIC

```
C3   6.961 VHL  2.638 DLA  29.09 RAL 171.06 RAD 6567.2 VEL 11.329 PTH   1.95 VHP  4.530 DPA -38.16 RAP 137.24 ECC 1.1146
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.04	23 13 42	3502.04	-24.93	132.59	24.42	74.50	24 12 4	2902.0	-26.82	124.37
96.96	1 12 39	3130.10	-24.92	105.31	24.41	74.49	2 4 49	2530.1	-26.81	97.09
100.00	2 34 33	2867.31	-28.43	86.75	25.29	80.34	3 22 21	2267.3	-29.47	78.11
100.00	0 38 25	3240.06	-21.52	112.21	23.18	68.74	1 32 25	2640.1	-24.22	104.45
110.00	5 4 19	2398.31	-34.18	51.73	25.85	90.11	5 44 17	1798.3	-33.79	42.51
110.00	0 25 9	3281.82	-16.33	112.70	20.52	59.54	1 19 50	2681.8	-20.25	105.77

DIFFERENTIAL CORRECTIONS

```
TDE  .2816 TRA  .2331 TC3-2.8915 BAU  .5345
RDE  .2380 RRA  .7813 RC3-4.9627 FAU .08945
FDE  .4867 FRA 1.7182 FC-11.1251 BSP  11325
BDE  .3687 BRA  .8154 BC3 5.7436 FSP  -1987
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1742.8 SGR 3300.7 SG3  633.8
RRT  .9450 RRF  .9999 RTF  .9446
SGB 3732.6 R23  .0710 R13  .9974
SG1 3697.8 SG2  508.6 THA  62.93
```

ORBIT DETERMINATION ACCURACY

```
ST   637.3 SR   782.8 SS   653.6
CRT  .8438 CRS -.9993 CST -.8239
LSA 1162.6 MSA  307.4 SSA     2.1
EL1  971.0 EL2  275.7 ALF  51.89
```

LAUNCH DATE MAY 31 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 1 1967

HELIOCENTRIC CONIC DISTANCE 422.309

```
RL  151.67 LAL    .00 LOL 248.88 VL  26.965 GAL    .74 AZL  90.12 HCA 187.78 SMA 129.74 ECC .16954 INC  .1093 V1  29.375
RP  107.78 LAP    .02 LOP  76.66 VP  37.943 GAP    .60 AZP  89.88 TAL 176.37 TAP   4.15 RCA 107.74 APO 151.73 V2  35.160
RC  93.352 GL   -1.34 GP  -37.91 ZAL  88.26 ZAP  99.65 ETS 353.25 ZAE 142.05 ETE 242.21 ZAC 115.16 ETC 359.62 CLP-102.27
```

PLANETOCENTRIC CONIC

```
C3   5.825 VHL  2.414 DLA   6.34 RAL 161.60 RAD 6567.2 VEL 11.279 PTH   1.93 VHP  3.528 DPA -22.44 RAP 143.77 ECC 1.0959
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 48 57	2161.57	-18.25	38.15	7.43	112.04	5 24 58	1561.6	-15.10	30.89
90.00	18 21 57	4410.02	6.77	183.75	6.22	62.44	19 35 27	3810.0	3.02	177.07
100.00	6 13 18	1889.49	-18.94	17.83	7.12	113.56	6 44 48	1289.5	-15.60	10.64
100.00	19 40 16	4157.34	7.43	164.81	5.86	60.96	20 49 34	3557.3	3.50	158.22
110.00	7 28 27	1654.32	-20.79	359.04	6.18	117.76	7 56 1	1054.3	-16.91	352.06
110.00	20 41 37	3965.27	9.19	149.16	4.80	56.93	21 47 42	3365.3	4.77	142.86

DIFFERENTIAL CORRECTIONS

```
TDE -.0816 TRA  .1629 TC3-4.2098 BAU  .4793
RDE -.1860 RRA  .4563 RC3-4.4896 FAU .14308
FDE -.9958 FRA 2.1084 FC-21.2650 BSP   9805
BDE  .2031 BRA  .4845 BC3 6.1546 FSP  -3206
```

MID-COURSE EXECUTION ACCURACY

```
SGT 2078.0 SGR 2465.6 SG3 1008.8
RRT  .9590 RRF  .9997 RTF  .9594
SGB 3224.5 R23  .1159 R13  .9929
SG1 3192.2 SG2  455.1 THA  50.08
```

ORBIT DETERMINATION ACCURACY

```
ST   234.1 SR   553.2 SS   860.4
CRT  .9851 CRS -.9976 CST -.9878
LSA 1048.2 MSA   37.3 SSA    30.5
EL1  599.6 EL2   37.2 ALF  67.27
```

LAUNCH DATE MAY 31 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 3 1967

HELIOCENTRIC CONIC DISTANCE 428.616

```
RL  151.67 LAL    .00 LOL 248.88 VL  26.958 GAL    .83 AZL  91.09 HCA 191.01 SMA 129.69 ECC .17007 INC 1.0853 V1  29.375
RP  107.75 LAP    .21 LOP  79.88 VP  37.949 GAP   1.01 AZP  88.93 TAL 175.96 TAP   6.97 RCA 107.63 APO 151.75 V2  35.170
RC  95.596 GL  -11.89 GP  -28.16 ZAL  87.36 ZAP 105.22 ETS 352.52 ZAE 148.03 ETE 228.65 ZAC 116.58 ETC   3.41 CLP-107.32
```

PLANETOCENTRIC CONIC

```
C3   6.149 VHL  2.480 DLA  -3.78 RAL 158.49 RAD 6567.2 VEL 11.293 PTH   1.94 VHP  3.257 DPA -12.80 RAP 145.98 ECC 1.1012
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 52 10	1855.27	-9.54	19.88	3.73	116.79	6 23 5	1255.3	-5.87	13.13
90.00	16 53 56	4734.29	16.37	202.71	4.48	66.57	18 12 50	4134.3	13.06	195.60
100.00	7 11 44	1598.58	-10.21	.65	3.37	118.25	7 38 22	998.6	-6.36	353.99
100.00	18 17 3	4466.21	17.06	182.68	4.16	65.08	19 31 29	3866.2	13.56	175.63
110.00	8 15 55	1397.66	-11.99	344.35	2.31	122.25	8 39 12	797.7	-7.65	337.94
110.00	19 29 21	4239.90	18.90	164.51	3.17	60.97	20 40 1	3639.9	14.88	157.70

DIFFERENTIAL CORRECTIONS

```
TDE -.3085 TRA  .1620 TC3-4.6344 BAU  .4645
RDE -.2678 RRA  .3196 RC3-3.2324 FAU .16556
FDE-2.1755 FRA 2.2271 FC-23.3087 BSP   9275
BDE  .4085 BRA  .3583 BC3 5.6503 FSP  -3755
```

MID-COURSE EXECUTION ACCURACY

```
SGT 2435.5 SGR 1870.9 SG3 1176.7
RRT  .9663 RRF  .9991 RTF  .9674
SGB 3071.1 R23  .1562 R13  .9868
SG1 3046.9 SG2  384.7 THA  37.28
```

ORBIT DETERMINATION ACCURACY

```
ST   724.8 SR   659.1 SS  1483.3
CRT  .9823 CRS -.9989 CST -.9896
LSA 1774.6 MSA  103.5 SSA     9.2
EL1  975.4 EL2   91.8 ALF  42.23
```

LAUNCH DATE MAY 31 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 5 1967

DISTANCE 434.905

HELIOCENTRIC CONIC
RL 151.67 LAL .00 LOL 248.88 VL 26.949 GAL .93 AZL 91.62 HCA 194.24 SMA 129.63 ECC .17078 INC 1.6184 V1 29.375
RP 107.72 LAP .40 LOP 83.11 VP 37.952 GAP 1.42 AZP 88.43 TAL 175.50 TAP 9.74 RCA 107.49 APO 151.77 V2 35.180
RC 97.843 GL -17.29 GP -21.96 ZAL 86.41 ZAP 110.44 ETS 352.30 ZAE 149.62 ETE 216.36 ZAC 117.60 ETC 6.01 CLP-112.12

PLANETOCENTRIC CONIC
C3 6.556 VHL 2.560 DLA -9.17 RAL 157.38 RAD 6567.2 VEL 11.311 PTH 1.94 VHP 3.191 DPA -6.50 RAP 146.77 ECC 1.1079

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 29 7	1695.34	-4.52	10.82	3.25	117.98	6 57 22	1095.3	-.74	4.17
90.00	16 8 6	4915.97	20.92	214.10	5.14	70.47	17 30 2	4316.0	18.06	206.59
100.00	7 45 59	1447.38	-5.24	352.19	2.86	119.47	8 10 6	847.4	-1.27	345.65
100.00	17 33 55	4639.16	21.68	193.44	4.83	68.90	18 51 15	4039.2	18.62	185.98
110.00	8 44 1	1265.65	-7.11	337.25	1.71	123.52	9 5 7	665.6	-2.65	331.00
110.00	18 52 22	4393.66	23.70	173.86	3.90	64.61	20 5 36	3793.7	20.08	166.58

DIFFERENTIAL CORRECTIONS
TDE -.4913 TRA .1838 TC3-4.9239 BAU .4795
RDE -.2607 RRA .2468 RC3-2.3846 FAU .17145
FDE-2.9125 FRA 2.2398 FC-22.6411 BSP 9501
BDE .5562 BRA .3077 BC3 5.4709 FSP -3936

MID-COURSE EXECUTION ACCURACY
SGT 2782.1 SGR 1464.4 SG3 1230.0
RRT .9704 RRF .9977 RTF .9724
SGB 3143.9 R23 .1732 R13 .9827
SG1 3128.2 SG2 314.5 THA 27.36

ORBIT DETERMINATION ACCURACY
ST 1109.1 SR 608.1 SS 1847.6
CRT .9861 CRS -.9987 CST -.9931
LSA 2235.8 MSA 120.9 SSA 8.4
EL1 1261.8 EL2 88.7 ALF 28.56

LAUNCH DATE MAY 31 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 7 1967

DISTANCE 441.176

HELIOCENTRIC CONIC
RL 151.67 LAL .00 LOL 248.88 VL 26.938 GAL 1.04 AZL 91.96 HCA 197.47 SMA 129.55 ECC .17164 INC 1.9568 V1 29.375
RP 107.69 LAP .59 LOP 86.34 VP 37.953 GAP 1.82 AZP 88.13 TAL 174.99 TAP 12.46 RCA 107.32 APO 151.79 V2 35.190
RC 100.092 GL -20.46 GP -17.74 ZAL 85.37 ZAP 115.28 ETS 352.31 ZAE 149.02 ETE 206.90 ZAC 118.36 ETC 7.93 CLP-116.64

PLANETOCENTRIC CONIC
C3 6.925 VHL 2.632 DLA -12.52 RAL 157.18 RAD 6567.2 VEL 11.328 PTH 1.95 VHP 3.208 DPA -2.11 RAP 147.03 ECC 1.1140

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 55 52	1593.69	-1.26	5.13	3.85	118.29	7 22 26	993.7	2.54	358.50
90.00	15 39 44	5036.65	23.45	222.04	6.47	73.66	17 3 40	4436.6	20.99	214.23
100.00	8 10 47	1352.02	-2.02	346.94	3.42	119.83	8 33 19	752.0	1.96	340.42
100.00	17 7 30	4753.54	24.29	200.93	6.18	72.02	18 26 44	4153.5	21.60	193.17
110.00	9 4 30	1183.76	-4.01	332.93	2.19	123.98	9 24 14	583.8	.48	326.72
110.00	18 30 16	4494.57	26.49	180.37	5.29	67.56	19 45 11	3894.6	23.21	172.75

DIFFERENTIAL CORRECTIONS
TDE -.6499 TRA .2201 TC3-5.1653 BAU .5073
RDE -.2280 RRA .2045 RC3-1.8297 FAU .16852
FDE-3.3124 FRA 2.2279 FC-21.0685 BSP 10061
BDE .6887 BRA .3004 BC3 5.4798 FSP -3913

MID-COURSE EXECUTION ACCURACY
SGT 3103.7 SGR 1175.5 SG3 1220.8
RRT .9714 RRF .9949 RTF .9756
SGB 3318.9 R23 .1698 R13 .9810
SG1 3308.5 SG2 261.8 THA 20.33

ORBIT DETERMINATION ACCURACY
ST 1424.9 SR 515.8 SS 2043.5
CRT .9864 CRS -.9978 CST -.9949
LSA 2540.8 MSA 127.3 SSA 8.8
EL1 1513.3 EL2 79.8 ALF 19.71

LAUNCH DATE MAY 31 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 9 1967

DISTANCE 447.429

HELIOCENTRIC CONIC
RL 151.67 LAL .00 LOL 248.88 VL 26.925 GAL 1.16 AZL 92.19 HCA 200.71 SMA 129.46 ECC .17267 INC 2.1925 V1 29.375
RP 107.66 LAP .78 LOP 89.57 VP 37.952 GAP 2.21 AZP 87.95 TAL 174.43 TAP 15.13 RCA 107.11 APO 151.82 V2 35.199
RC 102.344 GL -22.48 GP -14.70 ZAL 84.24 ZAP 119.75 ETS 352.43 ZAE 147.45 ETE 200.16 ZAC 118.89 ETC 9.41 CLP-120.86

PLANETOCENTRIC CONIC
C3 7.257 VHL 2.694 DLA -14.85 RAL 157.49 RAD 6567.2 VEL 11.342 PTH 1.95 VHP 3.271 DPA 1.07 RAP 147.13 ECC 1.1194

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 17 38	1521.05	1.09	1.08	4.95	118.30	7 42 59	921.0	4.86	354.43
90.00	15 20 29	5125.86	25.03	228.10	8.08	76.30	16 45 55	4525.9	22.90	220.08
100.00	8 30 57	1284.47	.27	343.23	4.49	119.89	8 52 22	684.5	4.24	336.70
100.00	16 49 51	4837.67	25.94	206.64	7.81	74.59	18 10 28	4237.7	23.57	198.64
110.00	9 21 18	1126.78	-1.84	329.95	3.18	124.14	9 40 4	526.8	2.66	323.75
110.00	18 16 0	4568.12	28.30	185.32	6.97	69.98	19 32 8	3968.1	25.31	177.42

DIFFERENTIAL CORRECTIONS
TDE -.7941 TRA .2661 TC3-5.3766 BAU .5404
RDE -.1908 RRA .1781 RC3-1.4569 FAU .16140
FDE-3.5029 FRA 2.2085 FC-19.2543 BSP 10769
BDE .8167 BRA .3202 BC3 5.5705 FSP -3785

MID-COURSE EXECUTION ACCURACY
SGT 3403.9 SGR 966.6 SG3 1180.7
RRT .9691 RRF .9895 RTF .9777
SGB 3538.5 R23 .1526 R13 .9806
SG1 3531.0 SG2 229.8 THA 15.45

ORBIT DETERMINATION ACCURACY
ST 1700.2 SR 423.2 SS 2147.0
CRT .9842 CRS -.9960 CST -.9959
LSA 2768.1 MSA 130.3 SSA 9.6
EL1 1750.6 EL2 72.8 ALF 13.79

LAUNCH DATE MAY 31 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 11 1967

DISTANCE 453.663

HELIOCENTRIC CONIC
RL 151.67 LAL .00 LOL 248.88 VL 26.910 GAL 1.30 AZL 92.37 HCA 203.94 SMA 129.36 ECC .17386 INC 2.3670 V1 29.375
RP 107.63 LAP .96 LOP 92.80 VP 37.949 GAP 2.61 AZP 87.84 TAL 173.82 TAP 17.76 RCA 106.87 APO 151.86 V2 35.208
RC 104.596 GL -23.83 GP -12.42 ZAL 83.03 ZAP 123.86 ETS 352.59 ZAE 145.52 ETE 195.46 ZAC 119.19 ETC 10.59 CLP-124.78

PLANETOCENTRIC CONIC
C3 7.566 VHL 2.751 DLA -16.60 RAL 158.15 RAD 6567.2 VEL 11.356 PTH 1.96 VHP 3.361 DPA 3.44 RAP 147.24 ECC 1.1245

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 36 39	1464.98	2.90	357.95	6.36	118.18	8 1 4	865.0	6.64	351.27
90.00	15 6 42	5196.91	26.08	233.04	9.86	78.56	16 33 19	4596.9	24.24	224.85
100.00	8 48 37	1232.80	2.02	340.40	5.87	119.83	9 9 10	632.8	5.98	333.84
100.00	16 37 26	4904.32	27.06	211.28	9.62	76.79	17 59 10	4304.3	24.97	203.10
110.00	9 36 7	1084.01	-.20	327.72	4.48	124.18	9 54 11	484.0	4.29	321.51
110.00	18 6 26	4625.88	29.58	189.33	8.82	72.03	19 23 32	4025.9	26.84	181.21

DIFFERENTIAL CORRECTIONS
TDE -.9292 TRA .3180 TC3-5.5591 BAU .5752
RDE -.1555 RRA .1601 RC3-1.1974 FAU .15235
FDE-3.5674 FRA 2.1759 FC-17.4334 BSP 11544
BDE .9421 BRA .3561 BC3 5.6866 FSP -3613

MID-COURSE EXECUTION ACCURACY
SGT 3684.6 SGR 812.4 SG3 1125.1
RRT .9628 RRF .9803 RTF .9792
SGB 3773.1 R23 .1271 R13 .9808
SG1 3767.0 SG2 214.7 THA 12.02

ORBIT DETERMINATION ACCURACY
ST 1948.8 SR 340.9 SS 2198.4
CRT .9790 CRS -.9922 CST -.9966
LSA 2954.6 MSA 131.2 SSA 10.5
EL1 1977.2 EL2 68.5 ALF 9.73

LAUNCH DATE MAY 31 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 13 1967

HELIOCENTRIC CONIC DISTANCE 459.877

RL 151.67 LAL .00 LOL 248.88 VL 26.894 GAL 1.45 AZL 92.50 HCA 207.18 SMA 129.25 ECC .17520 INC 2.5020 V1 29.375
RP 107.61 LAP 1.14 LOP 96.04 VP 37.945 GAP 3.00 AZP 87.77 TAL 173.17 TAP 20.35 RCA 106.61 APO 151.90 V2 35.216
RC 106.849 GL -24.74 GP -10.66 ZAL 81.73 ZAP 127.64 ETS 352.75 ZAE 143.52 ETE 192.16 ZAC 119.27 ETC 11.54 CLP-128.42

PLANETOCENTRIC CONIC

C3 7.864 VHL 2.804 DLA -17.99 RAL 159.06 RAD 6567.3 VEL 11.369 PTH 1.96 VHP 3.471 DPA 5.24 RAP 147.44 ECC 1.1294

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 54 7	1419.30	4.36	355.39	7.98	118.01	8 17 46	819.3	8.07	348.68
90.00	14 56 30	5256.69	26.82	237.26	11.77	80.56	16 24 7	4656.7	25.24	228.94
100.00	9 4 50	1191.13	3.43	338.10	7.47	119.71	9 24 41	591.1	7.36	331.52
100.00	16 28 29	4960.10	27.86	215.22	11.55	78.72	17 51 9	4360.1	26.03	206.91
110.00	9 49 49	1050.19	1.09	325.96	6.01	124.17	10 7 19	450.2	5.57	319.73
110.00	17 59 59	4673.80	30.54	192.73	10.81	73.84	19 17 53	4073.8	28.02	184.44

DIFFERENTIAL CORRECTIONS
TDE-1.0565 TRA .3772 TC3-5.7106 BAU .6097
RDE -.1231 RRA .1483 RC3-1.0113 FAU .14268
FDE-3.5490 FRA 2.1460 FC-15.7073 BSP 12320
BDE 1.0636 BRA .4053 BC3 5.7995 FSP -3422

MID-COURSE EXECUTION ACCURACY
SGT 3946.4 SGR 697.5 SG3 1063.2
RRT .9510 RRF .9658 RTF .9802
SGB 4007.5 R23 .0998 R13 .9811
SG1 4001.9 SG2 212.7 THA 9.57

ORBIT DETERMINATION ACCURACY
ST 2174.3 SR 269.7 SS 2215.0
CRT .9686 CRS -.9844 CST -.9971
LSA 3112.7 MSA 131.4 SSA 11.4
EL1 2189.9 EL2 66.6 ALF 6.86

LAUNCH DATE MAY 31 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 15 1967

HELIOCENTRIC CONIC DISTANCE 466.072

RL 151.67 LAL .00 LOL 248.88 VL 26.876 GAL 1.61 AZL 92.61 HCA 210.42 SMA 129.13 ECC .17671 INC 2.6104 V1 29.375
RP 107.59 LAP 1.32 LOP 99.27 VP 37.939 GAP 3.38 AZP 87.75 TAL 172.47 TAP 22.90 RCA 106.31 APO 151.95 V2 35.223
RC 109.101 GL -25.36 GP -9.27 ZAL 80.35 ZAP 131.12 ETS 352.91 ZAE 141.58 ETE 189.82 ZAC 119.13 ETC 12.30 CLP-131.79

PLANETOCENTRIC CONIC

C3 8.162 VHL 2.857 DLA -19.14 RAL 160.17 RAD 6567.3 VEL 11.382 PTH 1.97 VHP 3.595 DPA 6.59 RAP 147.77 ECC 1.1343

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 10 39	1380.65	5.59	353.22	9.80	117.80	8 33 40	780.7	9.27	346.47
90.00	14 48 49	5309.12	27.35	241.00	13.80	82.36	16 17 18	4709.1	26.01	232.59
100.00	9 20 11	1156.26	4.60	336.18	9.25	119.57	9 39 27	556.3	8.51	329.57
100.00	16 21 58	5008.74	28.46	218.72	13.61	80.46	17 45 26	4408.7	26.85	210.28
110.00	10 2 53	1022.50	2.15	324.51	7.73	124.12	10 19 55	422.5	6.62	318.27
110.00	17 55 46	4715.27	31.29	195.73	12.92	75.47	19 14 21	4115.3	28.97	187.29

DIFFERENTIAL CORRECTIONS
TDE-1.1769 TRA .4435 TC3-5.8194 BAU .6421
RDE -.0938 RRA .1406 RC3 -.8709 FAU .13238
FDE-3.4759 FRA 2.1186 FC-14.0414 BSP 13053
BDE 1.1807 BRA .4652 BC3 5.8842 FSP -3214

MID-COURSE EXECUTION ACCURACY
SGT 4185.0 SGR 610.0 SG3 997.1
RRT .9321 RRF .9441 RTF .9807
SGB 4229.2 R23 .0757 R13 .9813
SG1 4223.5 SG2 218.9 THA 7.76

ORBIT DETERMINATION ACCURACY
ST 2379.3 SR 208.8 SS 2206.8
CRT .9473 CRS -.9675 CST -.9974
LSA 3249.1 MSA 131.3 SSA 12.4
EL1 2387.5 EL2 66.7 ALF 4.76

LAUNCH DATE MAY 31 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 17 1967

HELIOCENTRIC CONIC DISTANCE 472.247

RL 151.67 LAL .00 LOL 248.88 VL 26.856 GAL 1.78 AZL 92.70 HCA 213.67 SMA 129.00 ECC .17837 INC 2.6998 V1 29.375
RP 107.57 LAP 1.50 LOP 102.51 VP 37.932 GAP 3.77 AZP 87.75 TAL 171.74 TAP 25.40 RCA 105.99 APO 152.01 V2 35.230
RC 111.351 GL -25.75 GP -8.14 ZAL 78.89 ZAP 134.33 ETS 353.06 ZAE 139.76 ETE 188.11 ZAC 118.79 ETC 12.90 CLP-134.91

PLANETOCENTRIC CONIC

C3 8.469 VHL 2.910 DLA -20.12 RAL 161.44 RAD 6567.3 VEL 11.396 PTH 1.97 VHP 3.732 DPA 7.62 RAP 148.24 ECC 1.1394

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 26 38	1347.07	6.65	351.32	11.77	117.59	8 49 5	747.1	10.30	344.54
90.00	14 42 58	5356.54	27.73	244.42	15.95	84.03	16 12 14	4756.5	26.62	235.93
100.00	9 35 2	1126.34	5.61	334.53	11.19	119.41	9 53 48	526.3	9.48	327.88
100.00	16 17 15	5052.51	28.92	221.89	15.79	82.07	17 41 27	4452.5	27.52	213.37
110.00	10 15 34	999.30	3.04	323.30	9.60	124.06	10 32 14	399.3	7.49	317.04
110.00	17 53 12	4752.31	31.89	198.45	15.15	76.98	19 12 24	4152.3	29.77	189.88

DIFFERENTIAL CORRECTIONS
TDE-1.2920 TRA .5163 TC3-5.8966 BAU .6733
RDE -.0673 RRA .1357 RC3 -.7650 FAU .12259
FDE-3.3720 FRA 2.0918 FC-12.5315 BSP 13769
BDE 1.2938 BRA .5338 BC3 5.9460 FSP -3018

MID-COURSE EXECUTION ACCURACY
SGT 4407.0 SGR 544.7 SG3 932.6
RRT .9052 RRF .9141 RTF .9811
SGB 4440.5 R23 .0555 R13 .9814
SG1 4434.5 SG2 230.0 THA 6.40

ORBIT DETERMINATION ACCURACY
ST 2566.4 SR 158.1 SS 2183.2
CRT .9019 CRS -.9288 CST -.9976
LSA 3370.5 MSA 130.9 SSA 13.3
EL1 2570.4 EL2 68.2 ALF 3.18

LAUNCH DATE MAY 31 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 19 1967

HELIOCENTRIC CONIC DISTANCE 478.401

RL 151.67 LAL .00 LOL 248.88 VL 26.836 GAL 1.97 AZL 92.78 HCA 216.91 SMA 128.86 ECC .18020 INC 2.7750 V1 29.375
RP 107.55 LAP 1.67 LOP 105.75 VP 37.923 GAP 4.16 AZP 87.78 TAL 170.96 TAP 27.87 RCA 105.64 APO 152.08 V2 35.236
RC 113.598 GL -25.97 GP -7.22 ZAL 77.36 ZAP 137.30 ETS 353.18 ZAE 138.10 ETE 186.85 ZAC 118.26 ETC 13.38 CLP-137.80

PLANETOCENTRIC CONIC

C3 8.792 VHL 2.965 DLA -20.97 RAL 162.85 RAD 6567.3 VEL 11.410 PTH 1.97 VHP 3.878 DPA 8.38 RAP 148.88 ECC 1.1447

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 42 18	1317.35	7.59	349.64	13.88	117.36	9 4 15	717.4	11.20	342.82
90.00	14 38 33	5400.47	28.00	247.60	18.22	85.61	16 8 33	4800.5	27.10	239.06
100.00	9 49 34	1100.24	6.48	333.08	13.28	119.25	10 7 55	500.2	10.33	326.41
100.00	16 13 57	5092.81	29.26	224.84	18.08	83.59	17 38 50	4492.8	28.06	216.24
110.00	10 28 3	979.63	3.79	322.27	11.62	124.00	10 44 23	379.6	8.22	316.00
110.00	17 51 58	4786.19	32.38	200.97	17.50	78.39	19 11 44	4186.2	30.44	192.29

DIFFERENTIAL CORRECTIONS
TDE-1.4011 TRA .5978 TC3-5.9315 BAU .7018
RDE -.0429 RRA .1329 RC3 -.6813 FAU .11302
FDE-3.2461 FRA 2.0713 FC-11.1287 BSP 14410
BDE 1.4018 BRA .6124 BC3 5.9705 FSP -2820

MID-COURSE EXECUTION ACCURACY
SGT 4608.0 SGR 495.8 SG3 869.5
RRT .8694 RRF .8751 RTF .9812
SGB 4634.6 R23 .0398 R13 .9814
SG1 4628.2 SG2 243.9 THA 5.36

ORBIT DETERMINATION ACCURACY
ST 2734.7 SR 117.6 SS 2146.2
CRT .7972 CRS -.8344 CST -.9978
LSA 3475.9 MSA 130.7 SSA 14.2
EL1 2736.3 EL2 71.0 ALF 1.97

```
LAUNCH DATE  MAY 31 1967                          FLIGHT TIME 174.00                          ARRIVAL DATE  NOV 21 1967

  HELIOCENTRIC CONIC                                  DISTANCE 484.536
   RL  151.67 LAL     .00 LOL 248.88 VL  26.814 GAL   2.18 AZL  92.84 HCA 220.15 SMA 128.72 ECC .18219 INC 2.8398 VI  29.375
   RP  107.53 LAP    1.83 LOP 108.99 VP  37.913 GAP   4.54 AZP  87.83 TAL 170.15 TAP  30.30 RCA 105.27 APO 152.17 V2  35.241
   RC 115.842 GL  -26.05 GP   -6.46 ZAL  75.77 ZAP 140.05 ETS 353.27 ZAE 136.58 ETE 185.90 ZAC 117.55 ETC  13.74 CLP-140.49
  PLANETOCENTRIC CONIC
   C3   9.138 VHL  3.023 DLA -21.73 RAL 164.38 RAD 6567.3 VEL 11.425 PTH   1.98 VHP  4.033 DPA   8.92 RAP 149.66 ECC 1.1504
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00      8 57 46   1290.78      8.42     348.13      16.14      117.14    9 19 17     690.8       11.99     341.27
      90.00     14 35 17   5441.87     28.18     250.62      20.58       87.11   16  5 59    4841.9       27.48     242.02
     100.00     10  3 55   1077.29      7.24     331.80      15.50      119.08   10 21 52     477.3       11.06     325.10
     100.00     16 11 49   5130.59     29.51     227.62      20.48       85.03   17 37 19    4530.6       28.51     218.96
     110.00     10 40 24    962.90      4.42     321.40      13.77      123.93   10 56 27     362.9        8.85     315.10
     110.00     17 51 49   4817.75     32.79     203.34      19.97       79.74   19 12  6    4217.7       31.02     194.57
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TOE-1.5053 TRA  .6879 TC3-5.9256 BAU  .7278    SGT 4790.1 SGR  459.6 SG3  808.9       ST  2886.0 SR    90.1 SS  2100.3
   RDE -.0203 RRA  .1318 RC3 -.6132 FAU .10379    RRT  .8247 RRF  .8271 RTF  .9811       CRT  .5584 CRS -.6089 CST -.9979
   FDE-3.1091 FRA 2.0555 FC3-9.8329 BSP  14972    SGB 4812.1 R23  .0277 R13  .9812       LSA 3568.1 MSA  130.8 SSA   15.0
   BDE 1.5055 BRA  .7005 BC3 5.9573 FSP  -2622    SGI 4805.2 SG2  259.1 THA   4.54      EL1 2886.5 EL2   74.7 ALF   1.00

LAUNCH DATE  MAY 31 1967                          FLIGHT TIME 176.00                          ARRIVAL DATE  NOV 23 1967

  HELIOCENTRIC CONIC                                  DISTANCE 490.649
   RL  151.67 LAL     .00 LOL 248.88 VL  26.791 GAL   2.39 AZL  92.90 HCA 223.40 SMA 128.56 ECC .18435 INC 2.8965 VI  29.375
   RP  107.52 LAP    1.99 LOP 112.24 VP  37.901 GAP   4.93 AZP  87.89 TAL 169.30 TAP  32.70 RCA 104.86 APO 152.27 V2  35.246
   RC 118.080 GL  -26.01 GP   -5.82 ZAL  74.13 ZAP 142.60 ETS 353.33 ZAE 135.20 ETE 185.18 ZAC 116.69 ETC  14.01 CLP-142.99
  PLANETOCENTRIC CONIC
   C3   9.513 VHL  3.084 DLA -22.40 RAL 166.01 RAD 6567.3 VEL 11.441 PTH   1.98 VHP  4.195 DPA   9.28 RAP 150.57 ECC 1.1566
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00      9 13  6   1266.94      9.15     346.76      18.52      116.91    9 34 12     666.9       12.69     339.87
      90.00     14 32 58   5481.37     28.28     253.51      23.06       88.55   16  4 20    4881.4       27.78     244.88
     100.00     10 18  6   1057.12      7.90     330.67      17.85      118.92   10 35 43     457.1       11.70     323.94
     100.00     16 10 39   5166.43     29.70     230.27      22.99       86.41   17 36 45    4566.4       28.88     221.56
     110.00     10 52 40    948.78      4.96     320.65      16.04      123.86   11  8 28     348.8        9.37     314.35
     110.00     17 52 35   4847.53     33.13     205.60      22.54       81.04   19 13 22    4247.5       31.53     196.74
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TOE-1.6081 TRA  .7838 TC3-5.8955 BAU  .7532    SGT 4962.9 SGR  434.0 SG3  753.3       ST  3026.3 SR    80.0 SS  2053.1
   RDE  .0005 RRA  .1316 RC3 -.5579 FAU .09546    RRT  .7731 RRF  .7719 RTF  .9809       CRT  .1472 CRS -.2064 CST -.9981
   FDE-2.9756 FRA 2.0367 FC3-8.6868 BSP  15549    SGB 4981.8 R23  .0177 R13  .9810       LSA 3655.5 MSA  130.8 SSA   15.6
   BDE 1.6081 BRA  .7948 BC3 5.9219 FSP  -2450    SGI 4974.2 SG2  274.6 THA   3.88      EL1 3026.4 EL2   79.1 ALF    .22

LAUNCH DATE  MAY 31 1967                          FLIGHT TIME 178.00                          ARRIVAL DATE  NOV 25 1967

  HELIOCENTRIC CONIC                                  DISTANCE 496.740
   RL  151.67 LAL     .00 LOL 248.88 VL  26.767 GAL   2.62 AZL  92.95 HCA 226.64 SMA 128.41 ECC .18669 INC 2.9466 VI  29.375
   RP  107.50 LAP    2.14 LOP 115.48 VP  37.888 GAP   5.32 AZP  87.98 TAL 168.43 TAP  35.07 RCA 104.43 APO 152.38 V2  35.250
   RC 120.312 GL  -25.87 GP   -5.28 ZAL  72.43 ZAP 144.97 ETS 353.37 ZAE 133.96 ETE 184.62 ZAC 115.69 ETC  14.21 CLP-145.32
  PLANETOCENTRIC CONIC
   C3   9.924 VHL  3.150 DLA -23.01 RAL 167.73 RAD 6567.4 VEL 11.459 PTH   1.99 VHP  4.364 DPA   9.49 RAP 151.62 ECC 1.1633
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00      9 28 18   1245.58      9.81     345.54      21.01      116.70    9 49  4     645.6       13.32     338.61
      90.00     14 31 30   5519.40     28.32     256.29      25.63       89.95   16  3 29    4919.4       28.01     247.64
     100.00     10 32  9   1039.48      8.48     329.68      20.31      118.77   10 49 29     439.5       12.26     322.93
     100.00     16 10 20   5200.73     29.82     232.81      25.59       87.74   17 37  1    4600.7       29.18     224.06
     110.00     11  4 49    937.06      5.40     320.04      18.42      123.80   11 20 26     337.1        9.81     313.72
     110.00     17 54  9   4875.92     33.41     207.77      25.23       82.29   19 15 25    4275.9       31.98     198.83
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TOE-1.7071 TRA  .8889 TC3-5.8316 BAU  .7766    SGT 5121.0 SGR  416.2 SG3  701.4       ST  3151.3 SR    87.3 SS  2000.9
   RDE  .0205 RRA  .1323 RC3 -.5108 FAU .08770    RRT  .7158 RRF  .7112 RTF  .9808       CRT -.2660 CRS  .2093 CST -.9982
   FDE-2.8409 FRA 2.0224 FC3-7.6510 BSP  16066    SGB 5137.9 R23  .0099 R13  .9808       LSA 3731.5 MSA  131.4 SSA   16.3
   BDE 1.7072 BRA  .8987 BC3 5.8540 FSP  -2287    SGI 5129.7 SG2  290.2 THA   3.34      EL1 3151.4 EL2   84.2 ALF 179.58

LAUNCH DATE  MAY 31 1967                          FLIGHT TIME 180.00                          ARRIVAL DATE  NOV 27 1967

  HELIOCENTRIC CONIC                                  DISTANCE 502.808
   RL  151.67 LAL     .00 LOL 248.88 VL  26.743 GAL   2.87 AZL  92.99 HCA 229.89 SMA 128.24 ECC .18922 INC 2.9918 VI  29.375
   RP  107.49 LAP    2.29 LOP 118.73 VP  37.873 GAP   5.71 AZP  88.07 TAL 167.52 TAP  37.41 RCA 103.98 APO 152.51 V2  35.253
   RC 122.538 GL  -25.64 GP   -4.82 ZAL  70.69 ZAP 147.19 ETS 353.37 ZAE 132.84 ETE 184.17 ZAC 114.55 ETC  14.34 CLP-147.51
  PLANETOCENTRIC CONIC
   C3  10.376 VHL  3.221 DLA -23.55 RAL 169.53 RAD 6567.4 VEL 11.479 PTH   2.00 VHP  4.541 DPA   9.57 RAP 152.79 ECC 1.1708
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00      9 43 23   1226.61     10.39     344.44      23.62      116.49   10  3 50     626.6       13.86     337.49
      90.00     14 30 47   5556.21     28.29     258.98      28.29       91.30   16  3 23    4956.2       28.17     250.32
     100.00     10 46  3   1024.31      8.98     328.83      22.88      118.63   11  3  8     424.3       12.73     322.05
     100.00     16 10 47   5233.75     29.88     235.26      28.30       89.03   17 38  1    4633.7       29.42     226.49
     110.00     11 16 53    927.66      5.76     319.54      20.91      123.75   11 32 20     327.7       10.15     313.21
     110.00     17 56 27   4903.15     33.63     209.86      28.01       83.51   19 18 11    4303.2       32.37     200.86
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TOE-1.8039 TRA 1.0081 TC3-5.7383 BAU  .7986    SGT 5267.1 SGR  404.4 SG3  653.2       ST  3263.2 SR   105.4 SS  1946.7
   RDE  .0397 RRA  .1335 RC3 -.4695 FAU .08051    RRT  .6550 RRF  .6471 RTF  .9805       CRT -.5238 CRS  .4746 CST -.9983
   FDE-2.7101 FRA 2.0090 FC3-6.7181 BSP  16563    SGB 5282.7 R23  .0035 R13  .9805       LSA 3798.9 MSA  132.4 SSA   16.8
   BDE 1.8044 BRA 1.0110 BC3 5.7575 FSP  -2138    SGI 5273.8 SG2  305.2 THA   2.89      EL1 3263.7 EL2   89.7 ALF 179.03
```

LAUNCH DATE MAY 31 1967 FLIGHT TIME 182.00 ARRIVAL DATE NOV 29 1967

HELIOCENTRIC CONIC DISTANCE 508.853

RL 151.67 LAL .00 LOL 248.88 VL 26.717 GAL 3.13 AZL 93.03 HCA 233.14 SMA 128.07 ECC .19193 INC 3.0328 V1 29.375
RP 107.49 LAP 2.43 LOP 121.97 VP 37.858 GAP 6.10 AZP 88.18 TAL 166.58 TAP 39.72 RCA 103.49 APO 152.65 V2 35.256
RC 124.755 GL -25.34 GP -4.43 ZAL 68.92 ZAP 149.27 ETS 353.34 ZAE 131.84 ETE 183.82 ZAC 113.30 ETC 14.41 CLP-149.56

PLANETOCENTRIC CONIC

C3 10.876 VHL 3.298 DLA -24.03 RAL 171.40 RAD 6567.4 VEL 11.501 PTH 2.00 VHP 4.723 DPA 9.53 RAP 154.06 ECC 1.1790

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 58 17	1210.02	10.89	343.48	26.33	116.30	10 18 27	610.0	14.34	336.50
90.00	14 30 45	5591.93	28.21	261.59	31.04	92.60	16 3 57	4991.9	28.27	252.92
100.00	10 59 46	1011.58	9.39	328.11	25.54	118.51	11 16 38	411.6	13.13	321.32
100.00	16 11 57	5265.61	29.89	237.63	31.09	90.28	17 39 43	4665.6	29.61	228.84
110.00	11 28 48	920.54	6.03	319.17	23.49	123.71	11 44 8	320.5	10.42	312.82
110.00	17 59 25	4929.41	33.82	211.89	30.89	84.70	19 21 34	4329.4	32.72	202.83

DIFFERENTIAL CORRECTIONS
TDE-1.8952 TRA 1.1274 TC3-5.6067 BAU .8176
RDE .0587 RRA .1353 RC3 -.4319 FAU .07364
FDE-2.5771 FRA 2.0033 FC3-5.8616 BSP 16956
BDE 1.8961 BRA 1.1355 BC3 5.6234 FSP -1990

MID-COURSE EXECUTION ACCURACY
SGT 5395.9 SGR 397.2 SG3 608.0
RRT .5924 RRF .5816 RTF .9800
SGB 5410.6 R23 -.0013 R13 .9800
SG1 5401.1 SG2 319.7 THA 2.51

ORBIT DETERMINATION ACCURACY
ST 3356.7 SR 128.2 SS 1886.4
CRT -.6625 CRS .6197 CST -.9983
LSA 3850.2 MSA 134.5 SSA 17.2
EL1 3357.7 EL2 96.0 ALF 178.55

LAUNCH DATE MAY 31 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 1 1967

HELIOCENTRIC CONIC DISTANCE 514.873

RL 151.67 LAL .00 LOL 248.88 VL 26.691 GAL 3.41 AZL 93.07 HCA 236.38 SMA 127.90 ECC .19485 INC 3.0705 V1 29.375
RP 107.48 LAP 2.56 LOP 125.22 VP 37.841 GAP 6.50 AZP 88.30 TAL 165.62 TAP 42.00 RCA 102.98 APO 152.82 V2 35.258
RC 126.964 GL -24.97 GP -4.08 ZAL 67.12 ZAP 151.23 ETS 353.27 ZAE 130.93 ETE 183.53 ZAC 111.95 ETC 14.44 CLP-151.50

PLANETOCENTRIC CONIC

C3 11.432 VHL 3.381 DLA -24.46 RAL 173.32 RAD 6567.4 VEL 11.525 PTH 2.01 VHP 4.913 DPA 9.40 RAP 155.43 ECC 1.1881

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 12 57	1195.92	11.31	342.66	29.13	116.13	10 32 53	595.9	14.74	335.66
90.00	14 31 23	5626.60	28.07	264.12	33.88	93.86	16 5 10	5026.6	28.31	255.46
100.00	11 13 13	1001.36	9.73	327.54	28.29	118.41	11 29 55	401.4	13.45	320.72
100.00	16 13 48	5296.39	29.86	239.92	33.97	91.48	17 42 5	4696.4	29.75	231.11
110.00	11 40 31	915.73	6.21	318.91	26.16	123.68	11 55 47	315.7	10.59	312.56
110.00	18 2 59	4954.78	33.96	213.86	33.86	85.85	19 25 34	4354.8	33.01	204.75

DIFFERENTIAL CORRECTIONS
TDE-1.9880 TRA 1.2588 TC3-5.4612 BAU .8369
RDE .0772 RRA .1371 RC3 -.3981 FAU .06755
FDE-2.4575 FRA 1.9932 FC3-5.1153 BSP 17387
BDE 1.9895 BRA 1.2662 BC3 5.4757 FSP -1863

MID-COURSE EXECUTION ACCURACY
SGT 5520.8 SGR 393.4 SG3 567.1
RRT .5302 RRF .5164 RTF .9797
SGB 5534.8 R23 -.0058 R13 .9797
SG1 5524.8 SG2 333.3 THA 2.17

ORBIT DETERMINATION ACCURACY
ST 3443.2 SR 151.8 SS 1830.1
CRT -.7386 CRS .7009 CST -.9984
LSA 3899.9 MSA 136.5 SSA 17.4
EL1 3445.0 EL2 102.3 ALF 178.13

LAUNCH DATE MAY 31 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 3 1967

HELIOCENTRIC CONIC DISTANCE 520.867

RL 151.67 LAL .00 LOL 248.88 VL 26.664 GAL 3.71 AZL 93.11 HCA 239.63 SMA 127.72 ECC .19798 INC 3.1054 V1 29.375
RP 107.48 LAP 2.68 LOP 128.47 VP 37.823 GAP 6.90 AZP 88.43 TAL 164.63 TAP 44.26 RCA 102.44 APO 153.01 V2 35.259
RC 129.165 GL -24.53 GP -3.78 ZAL 65.30 ZAP 153.08 ETS 353.17 ZAE 130.11 ETE 183.30 ZAC 110.50 ETC 14.44 CLP-153.32

PLANETOCENTRIC CONIC

C3 12.052 VHL 3.472 DLA -24.85 RAL 175.28 RAD 6567.5 VEL 11.552 PTH 2.02 VHP 5.109 DPA 9.18 RAP 156.88 ECC 1.1983

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 27 18	1184.43	11.66	341.99	32.01	115.99	10 47 3	584.4	15.06	334.97
90.00	14 32 41	5660.19	27.90	266.56	36.78	95.08	16 7 1	5060.2	28.31	257.92
100.00	11 26 22	993.75	9.97	327.10	31.13	118.33	11 42 56	393.8	13.68	320.28
100.00	16 16 18	5326.11	29.79	242.12	36.93	92.64	17 45 4	4726.1	29.83	233.32
110.00	11 52 1	913.27	6.30	318.78	28.90	123.67	12 7 15	313.3	10.68	312.43
110.00	18 7 8	4979.35	34.07	215.77	36.91	86.98	19 30 8	4379.4	33.27	206.62

DIFFERENTIAL CORRECTIONS
TDE-2.0791 TRA 1.4002 TC3-5.2928 BAU .8548
RDE .0958 RRA .1390 RC3 -.3666 FAU .06194
FDE-2.3431 FRA 1.9859 FC3-4.4495 BSP 17793
BDE 2.0813 BRA 1.4071 BC3 5.3055 FSP -1747

MID-COURSE EXECUTION ACCURACY
SGT 5636.0 SGR 392.0 SG3 529.4
RRT .4691 RRF .4528 RTF .9794
SGB 5649.6 R23 -.0094 R13 .9793
SG1 5639.0 SG2 346.0 THA 1.88

ORBIT DETERMINATION ACCURACY
ST 3517.1 SR 175.5 SS 1773.1
CRT -.7837 CRS .7497 CST -.9985
LSA 3940.1 MSA 139.3 SSA 17.5
EL1 3519.8 EL2 109.0 ALF 177.76

LAUNCH DATE MAY 31 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 5 1967

HELIOCENTRIC CONIC DISTANCE 526.833

RL 151.67 LAL .00 LOL 248.88 VL 26.636 GAL 4.03 AZL 93.14 HCA 242.88 SMA 127.54 ECC .20134 INC 3.1381 V1 29.375
RP 107.48 LAP 2.79 LOP 131.72 VP 37.804 GAP 7.31 AZP 88.57 TAL 163.62 TAP 46.50 RCA 101.86 APO 153.22 V2 35.259
RC 131.355 GL -24.05 GP -3.52 ZAL 63.46 ZAP 154.82 ETS 353.04 ZAE 129.38 ETE 183.10 ZAC 108.97 ETC 14.41 CLP-155.06

PLANETOCENTRIC CONIC

C3 12.744 VHL 3.570 DLA -25.18 RAL 177.27 RAD 6567.5 VEL 11.581 PTH 2.03 VHP 5.312 DPA 8.88 RAP 158.40 ECC 1.2097

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 41 14	1175.75	11.92	341.49	34.96	115.88	11 0 50	575.7	15.30	334.45
90.00	14 34 39	5692.63	27.68	268.91	39.76	96.23	16 9 31	5092.6	28.25	260.29
100.00	11 39 7	988.87	10.13	326.83	34.03	118.27	11 55 36	388.9	13.83	319.99
100.00	16 19 27	5354.74	29.68	244.24	39.96	93.76	17 48 42	4754.7	29.88	235.45
110.00	12 3 14	913.20	6.31	318.78	31.71	123.67	12 18 28	313.2	10.69	312.43
110.00	18 11 49	5003.17	34.14	217.63	40.04	88.08	19 35 12	4403.2	33.49	208.45

DIFFERENTIAL CORRECTIONS
TDE-2.1680 TRA 1.5524 TC3-5.1023 BAU .8712
RDE .1146 RRA .1408 RC3 -.3367 FAU .05674
FDE-2.2345 FRA 1.9808 FC3-3.8545 BSP 18157
BDE 2.1711 BRA 1.5588 BC3 5.1134 FSP -1638

MID-COURSE EXECUTION ACCURACY
SGT 5741.0 SGR 392.3 SG3 494.6
RRT .4098 RRF .3913 RTF .9790
SGB 5754.3 R23 -.0125 R13 .9790
SG1 5743.2 SG2 357.7 THA 1.61

ORBIT DETERMINATION ACCURACY
ST 3578.0 SR 198.7 SS 1715.8
CRT -.8120 CRS .7807 CST -.9986
LSA 3970.5 MSA 142.5 SSA 17.5
EL1 3581.6 EL2 115.9 ALF 177.42

LAUNCH DATE MAY 31 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 7 1967

HELIOCENTRIC CONIC DISTANCE 532.770

RL 151.67 LAL .00 LOL 248.88 VL 26.608 GAL 4.36 AZL 93.17 HCA 246.13 SMA 127.36 ECC .20494 INC 3.1690 VI 29.375
RP 107.48 LAP 2.90 LOP 134.97 VP 37.783 GAP 7.73 AZP 88.72 TAL 162.59 TAP 48.72 RCA 101.26 APO 153.46 V2 35.259
RC 133.537 GL -23.51 GP -3.29 ZAL 61.62 ZAP 156.48 ETS 352.88 ZAE 128.71 ETE 182.93 ZAC 107.36 ETC 14.36 CLP-156.70

PLANETOCENTRIC CONIC

C3 13.518 VHL 3.677 DLA -25.46 RAL 179.28 RAD 6567.5 VEL 11.615 PTH 2.04 VHP 5.522 DPA 8.51 RAP 160.00 ECC 1.2225

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 54 39	1170.08	12.08	341.16	37.97	115.80	11 14 9	570.1	15.46	334.10
90.00	14 37 18	5723.77	27.43	271.15	42.80	97.33	16 12 42	5123.8	28.16	262.56
100.00	11 51 24	986.86	10.19	326.71	36.98	118.25	12 7 51	386.9	13.89	319.88
100.00	16 23 14	5382.23	29.54	246.28	43.05	94.82	17 52 56	4782.2	29.89	237.49
110.00	12 14 7	915.58	6.22	318.90	34.57	123.68	12 29 23	315.6	10.60	312.56
110.00	18 17 0	5026.28	34.17	219.43	43.24	89.14	19 40 46	4426.3	33.68	210.22

DIFFERENTIAL CORRECTIONS
TDE-2.2561 TRA 1.7145 TC3-4.8953 BAU .8865
RDE .1336 RRA .1423 RC3 -.3082 FAU .05195
FDE-2.1323 FRA 1.9767 FC3-3.3269 BSP 18508
BDE 2.2601 BRA 1.7204 BC3 4.9050 FSP -1539

MID-COURSE EXECUTION ACCURACY
SGT 5837.5 SGR 393.8 SG3 462.6
RRT .3526 RRF .3322 RTF .9786
SGB 5850.7 R23 -.0152 R13 .9786
SG1 5839.1 SG2 368.4 THA 1.37

ORBIT DETERMINATION ACCURACY
ST 3627.8 SR 221.0 SS 1659.2
CRT -.8307 CRS .8015 CST -.9986
LSA 3992.6 MSA 146.3 SSA 17.4
EL1 3632.4 EL2 122.9 ALF 177.10

LAUNCH DATE MAY 31 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 9 1967

HELIOCENTRIC CONIC DISTANCE 538.676

RL 151.67 LAL .00 LOL 248.88 VL 26.580 GAL 4.71 AZL 93.20 HCA 249.38 SMA 127.17 ECC .20880 INC 3.1983 VI 29.375
RP 107.48 LAP 2.99 LOP 138.22 VP 37.762 GAP 8.15 AZP 88.87 TAL 161.54 TAP 50.92 RCA 100.62 APO 153.73 V2 35.257
RC 135.709 GL -22.93 GP -3.09 ZAL 59.79 ZAP 158.06 ETS 352.67 ZAE 128.11 ETE 182.79 ZAC 105.68 ETC 14.29 CLP-158.27

PLANETOCENTRIC CONIC

C3 14.385 VHL 3.793 DLA -25.70 RAL 181.31 RAD 6567.6 VEL 11.652 PTH 2.05 VHP 5.740 DPA 8.08 RAP 161.64 ECC 1.2367

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 7 28	1167.67	12.16	341.02	41.02	115.77	11 26 55	567.7	15.53	333.96
90.00	14 40 39	5753.50	27.15	273.28	45.90	98.37	16 16 33	5153.5	28.03	264.73
100.00	12 3 9	987.83	10.16	326.77	39.99	118.26	12 19 37	387.8	13.86	319.93
100.00	16 27 39	5408.57	29.37	248.22	46.21	95.82	17 57 47	4808.6	29.87	239.45
110.00	12 24 38	920.45	6.03	319.16	37.48	123.71	12 39 58	320.5	10.42	312.82
110.00	18 22 40	5048.71	34.18	221.18	46.51	90.18	19 46 48	4448.7	33.83	211.96

DIFFERENTIAL CORRECTIONS
TDE-2.3402 TRA 1.8911 TC3-4.6647 BAU .8987
RDE .1532 RRA .1436 RC3 -.2806 FAU .04732
FDE-2.0322 FRA 1.9777 FC3-2.8480 BSP 18762
BDE 2.3452 BRA 1.8965 BC3 4.6731 FSP -1440

MID-COURSE EXECUTION ACCURACY
SGT 5921.9 SGR 395.9 SG3 432.7
RRT .2977 RRF .2760 RTF .9780
SGB 5935.2 R23 -.0171 R13 .9780
SG1 5923.1 SG2 377.9 THA 1.14

ORBIT DETERMINATION ACCURACY
ST 3662.5 SR 242.5 SS 1600.7
CRT -.8431 CRS .8154 CST -.9987
LSA 4001.5 MSA 150.8 SSA 17.2
EL1 3668.2 EL2 130.2 ALF 176.80

LAUNCH DATE MAY 31 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 11 1967

HELIOCENTRIC CONIC DISTANCE 544.548

RL 151.67 LAL .00 LOL 248.88 VL 26.551 GAL 5.09 AZL 93.23 HCA 252.62 SMA 126.99 ECC .21294 INC 3.2264 VI 29.375
RP 107.49 LAP 3.08 LOP 141.47 VP 37.740 GAP 8.59 AZP 89.04 TAL 160.48 TAP 53.10 RCA 99.95 APO 154.03 V2 35.255
RC 137.871 GL -22.32 GP -2.91 ZAL 57.96 ZAP 159.57 ETS 352.43 ZAE 127.56 ETE 182.66 ZAC 103.95 ETC 14.21 CLP-159.77

PLANETOCENTRIC CONIC

C3 15.357 VHL 3.919 DLA -25.89 RAL 183.34 RAD 6567.6 VEL 11.694 PTH 2.06 VHP 5.967 DPA 7.60 RAP 163.34 ECC 1.2527

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 19 32	1168.74	12.12	341.08	44.12	115.79	11 39 1	568.7	15.50	334.02
90.00	14 44 45	5781.62	26.86	275.29	49.05	99.33	16 21 7	5181.6	27.87	266.77
100.00	12 14 17	991.92	10.03	327.00	43.03	118.31	12 30 49	391.9	13.74	320.17
100.00	16 32 41	5433.68	29.18	250.06	49.42	96.78	18 3 14	4833.7	29.82	241.31
110.00	12 34 42	927.87	5.75	319.55	40.43	123.75	12 50 10	327.9	10.15	313.22
110.00	18 28 45	5070.49	34.17	222.89	49.83	91.19	19 53 16	4470.5	33.95	213.65

DIFFERENTIAL CORRECTIONS
TOE-2.4265 TRA 2.0762 TC3-4.4308 BAU .9112
RDE .1731 RRA .1442 RC3 -.2544 FAU .04321
FDE-1.9424 FRA 1.9768 FC3-2.4360 BSP 19067
BDE 2.4327 BRA 2.0812 BC3 4.4381 FSP -1356

MID-COURSE EXECUTION ACCURACY
SGT 6002.7 SGR 398.5 SG3 405.5
RRT .2447 RRF .2218 RTF .9777
SGB 6015.9 R23 -.0190 R13 .9776
SG1 6003.5 SG2 386.3 THA .93

ORBIT DETERMINATION ACCURACY
ST 3690.8 SR 262.8 SS 1546.4
CRT -.8519 CRS .8256 CST -.9987
LSA 4007.2 MSA 155.3 SSA 17.0
EL1 3697.6 EL2 137.4 ALF 176.52

LAUNCH DATE MAY 31 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 13 1967

HELIOCENTRIC CONIC DISTANCE 550.384

RL 151.67 LAL .00 LOL 248.88 VL 26.522 GAL 5.48 AZL 93.25 HCA 255.87 SMA 126.80 ECC .21738 INC 3.2536 VI 29.375
RP 107.50 LAP 3.16 LOP 144.72 VP 37.717 GAP 9.03 AZP 89.20 TAL 159.41 TAP 55.28 RCA 99.24 APO 154.36 V2 35.253
RC 140.023 GL -21.68 GP -2.75 ZAL 56.15 ZAP 161.02 ETS 352.14 ZAE 127.06 ETE 182.55 ZAC 102.16 ETC 14.13 CLP-161.21

PLANETOCENTRIC CONIC

C3 16.449 VHL 4.056 DLA -26.04 RAL 185.36 RAD 6567.7 VEL 11.740 PTH 2.07 VHP 6.203 DPA 7.06 RAP 165.09 ECC 1.2707

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 30 47	1173.50	11.98	341.36	47.24	115.85	11 50 21	573.5	15.36	334.31
90.00	14 49 36	5808.02	26.55	277.16	52.25	100.22	16 26 24	5208.0	27.69	268.68
100.00	12 24 46	999.20	9.80	327.41	46.10	118.38	12 41 25	399.2	13.51	320.60
100.00	16 38 19	5457.55	28.98	251.80	52.68	97.67	18 9 16	4857.5	29.74	243.08
110.00	12 44 19	937.84	5.37	320.08	43.41	123.81	12 59 57	337.8	9.78	313.76
110.00	18 35 15	5091.67	34.12	224.54	53.20	92.16	20 0 7	4491.7	34.05	215.29

DIFFERENTIAL CORRECTIONS
TDE-2.5117 TRA 2.2736 TC3-4.1875 BAU .9222
RDE .1936 RRA .1442 RC3 -.2293 FAU .03938
FDE-1.8572 FRA 1.9776 FC3-2.0724 BSP 19349
BDE 2.5191 BRA 2.2781 BC3 4.1937 FSP -1278

MID-COURSE EXECUTION ACCURACY
SGT 6075.1 SGR 401.1 SG3 380.3
RRT .1937 RRF .1700 RTF .9773
SGB 6088.3 R23 -.0204 R13 .9773
SG1 6075.6 SG2 393.5 THA .74

ORBIT DETERMINATION ACCURACY
ST 3708.2 SR 281.9 SS 1492.6
CRT -.8581 CRS .8328 CST -.9988
LSA 4004.0 MSA 160.2 SSA 16.7
EL1 3716.1 EL2 144.5 ALF 176.26

LAUNCH DATE MAY 31 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 15 1967

HELIOCENTRIC CONIC DISTANCE 556.179
RL 151.67 LAL .00 LOL 248.88 VL 26.492 GAL 5.90 AZL 93.28 HCA 259.12 SMA 126.61 ECC .22214 INC 3.2799 V1 29.375
RP 107.51 LAP 3.22 LOP 147.98 VP 37.693 GAP 9.49 AZP 89.38 TAL 158.32 TAP 57.44 RCA 98.48 APO 154.73 V2 35.249
RC 142.165 GL -21.01 GP -2.61 ZAL 54.35 ZAP 162.41 ETS 351.80 ZAE 126.60 ETE 182.45 ZAC 100.33 ETC 14.05 CLP-162.60
PLANETOCENTRIC CONIC
C3 17.676 VHL 4.204 DLA -26.15 RAL 187.36 RAD 6567.7 VEL 11.792 PTH 2.08 VHP 6.449 DPA 6.48 RAP 166.87 ECC 1.2909

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 41 8	1182.10	11.73	341.86	50.37	115.96	12 0 51	582.1	15.12	334.83
90.00	14 55 14	5832.58	26.24	278.89	55.49	101.04	16 32 26	5232.6	27.50	270.45
100.00	12 34 31	1009.74	9.45	328.01	49.18	118.49	12 51 21	409.7	13.19	321.21
100.00	16 44 32	5480.17	28.76	253.45	55.98	98.51	18 15 52	4880.2	29.64	244.76
110.00	12 53 26	950.37	4.90	320.74	46.40	123.87	13 9 16	350.4	9.31	314.43
110.00	18 42 7	5112.31	34.06	226.15	56.61	93.11	20 7 19	4512.3	34.11	216.90

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-2.5970 TRA 2.4837 TC3-3.9376 BAU .9317 SGT 6140.6 SGR 403.7 SG3 357.1 ST 3716.9 SR 299.9 SS 1440.9
RDE .2147 RRA .1435 RC3 -.2054 FAU .03580 RRT .1443 RRF .1202 RTF .9769 CRT -.8623 CRS .8381 CST -.9989
FDE-1.7781 FRA 1.9800 FC3-1.7536 BSP 19602 SGB 6153.8 R23 -.0216 R13 .9769 LSA 3994.2 MSA 165.2 SSA 16.4
BDE 2.6058 BRA 2.4878 BC3 3.9429 FSP -1205 SG1 6140.8 SG2 399.4 THA .55 EL1 3725.9 EL2 151.5 ALF 176.01

LAUNCH DATE MAY 31 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 17 1967

HELIOCENTRIC CONIC DISTANCE 561.932
RL 151.67 LAL .00 LOL 248.88 VL 26.462 GAL 6.35 AZL 93.31 HCA 262.36 SMA 126.42 ECC .22726 INC 3.3057 V1 29.375
RP 107.52 LAP 3.28 LOP 151.23 VP 37.668 GAP 9.97 AZP 89.56 TAL 157.22 TAP 59.59 RCA 97.69 APO 155.15 V2 35.245
RC 144.295 GL -20.33 GP -2.48 ZAL 52.59 ZAP 163.76 ETS 351.40 ZAE 126.18 ETE 182.36 ZAC 98.45 ETC 13.96 CLP-163.94
PLANETOCENTRIC CONIC
C3 19.056 VHL 4.365 DLA -26.22 RAL 189.34 RAD 6567.8 VEL 11.851 PTH 2.10 VHP 6.707 DPA 5.86 RAP 168.68 ECC 1.3136

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 50 32	1194.63	11.35	342.59	53.51	116.12	12 10 27	594.6	14.77	335.58
90.00	15 1 37	5855.26	25.94	280.48	58.78	101.78	16 39 12	5255.3	27.30	272.08
100.00	12 43 31	1023.54	9.00	328.79	52.28	118.62	13 0 35	423.5	12.76	322.01
100.00	16 51 19	5501.59	28.54	255.00	59.32	99.30	18 23 1	4901.6	29.53	246.34
110.00	13 2 2	985.44	4.33	321.53	49.42	123.94	13 18 7	365.4	8.75	315.24
110.00	18 49 18	5132.46	33.97	227.71	60.06	94.04	20 14 50	4532.5	34.16	218.47

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-2.6782 TRA 2.7112 TC3-3.6758 BAU .9376 SGT 6195.9 SGR 406.1 SG3 335.5 ST 3712.3 SR 316.7 SS 1388.7
RDE .2365 RRA .1420 RC3 -.1826 FAU .03232 RRT .0971 RRF .0731 RTF .9764 CRT -.8648 CRS .8411 CST -.9989
FDE-1.7005 FRA 1.9872 FC3-1.4683 BSP 19755 SGB 6209.2 R23 -.0222 R13 .9764 LSA 3972.5 MSA 170.7 SSA 16.1
BDE 2.6886 BRA 2.7149 BC3 3.6803 FSP -1131 SG1 6196.0 SG2 404.2 THA .37 EL1 3722.4 EL2 158.6 ALF 175.77

LAUNCH DATE MAY 31 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 19 1967

HELIOCENTRIC CONIC DISTANCE 567.636
RL 151.67 LAL .00 LOL 248.88 VL 26.432 GAL 6.82 AZL 93.33 HCA 265.61 SMA 126.23 ECC .23275 INC 3.3311 V1 29.375
RP 107.53 LAP 3.32 LOP 154.48 VP 37.642 GAP 10.46 AZP 89.74 TAL 156.12 TAP 61.73 RCA 96.85 APO 155.61 V2 35.240
RC 146.414 GL -19.63 GP -2.36 ZAL 50.86 ZAP 165.06 ETS 350.93 ZAE 125.79 ETE 182.27 ZAC 96.53 ETC 13.88 CLP-165.24
PLANETOCENTRIC CONIC
C3 20.612 VHL 4.540 DLA -26.25 RAL 191.28 RAD 6567.8 VEL 11.916 PTH 2.12 VHP 6.976 DPA 5.20 RAP 170.52 ECC 1.3392

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 58 57	1211.12	10.86	343.55	56.64	116.31	12 19 8	611.1	14.31	336.57
90.00	15 8 44	5876.07	25.64	281.93	62.10	102.45	16 46 40	5276.1	27.10	273.57
100.00	12 51 46	1040.57	8.45	329.74	55.37	118.78	13 9 6	440.6	12.23	322.99
100.00	16 58 37	5521.86	28.30	256.47	62.70	100.04	18 30 38	4921.9	29.40	247.83
110.00	13 10 6	983.01	3.66	322.45	52.43	124.01	13 26 29	383.0	8.10	316.18
110.00	18 56 46	5152.18	33.87	229.25	63.55	94.94	20 22 38	4552.2	34.18	220.01

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-2.7640 TRA 2.9487 TC3-3.4219 BAU .9440 SGT 6247.9 SGR 408.2 SG3 315.6 ST 3704.7 SR 332.0 SS 1341.1
RDE .2589 RRA .1393 RC3 -.1613 FAU .02923 RRT .0505 RRF .0268 RTF .9762 CRT -.8667 CRS .8438 CST -.9989
FDE-1.6320 FRA 1.9926 FC3-1.2277 BSP 19983 SGB 6261.2 R23 -.0227 R13 .9762 LSA 3950.0 MSA 175.8 SSA 15.7
BDE 2.7761 BRA 2.9520 BC3 3.4257 FSP -1069 SG1 6247.9 SG2 407.7 THA .19 EL1 3715.9 EL2 165.1 ALF 175.55

LAUNCH DATE MAY 31 1967 FLIGHT TIME 204.00 ARRIVAL DATE DEC 21 1967

HELIOCENTRIC CONIC DISTANCE 573.286
RL 151.67 LAL .00 LOL 248.88 VL 26.402 GAL 7.33 AZL 93.36 HCA 268.85 SMA 126.04 ECC .23867 INC 3.3562 V1 29.375
RP 107.55 LAP 3.36 LOP 157.73 VP 37.616 GAP 10.97 AZP 89.93 TAL 155.02 TAP 63.87 RCA 95.95 APO 156.12 V2 35.234
RC 148.521 GL -18.91 GP -2.26 ZAL 49.16 ZAP 166.32 ETS 350.38 ZAE 125.43 ETE 182.18 ZAC 94.59 ETC 13.81 CLP-166.51
PLANETOCENTRIC CONIC
C3 22.368 VHL 4.729 DLA -26.24 RAL 193.19 RAD 6567.9 VEL 11.989 PTH 2.14 VHP 7.260 DPA 4.51 RAP 172.39 ECC 1.3681

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 6 22	1231.47	10.24	344.72	59.77	116.54	12 26 53	631.5	13.72	337.78
90.00	15 16 33	607.07	25.35	305.35	65.46	103.05	15 26 40	7.1	26.90	297.02
100.00	12 59 14	1060.75	7.78	330.88	58.46	118.95	13 16 55	460.8	11.59	324.15
100.00	17 6 22	5541.06	28.07	257.84	66.10	100.73	18 38 43	4941.1	29.26	249.24
110.00	13 17 37	1003.03	2.89	323.50	55.45	124.08	13 34 20	403.0	7.35	317.24
110.00	19 4 28	5171.55	33.74	230.74	67.06	95.82	20 30 39	4571.5	34.18	221.53

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-2.8497 TRA 3.2020 TC3-3.1679 BAU .9483 SGT 6292.9 SGR 409.9 SG3 297.2 ST 3689.2 SR 346.0 SS 1295.4
RDE .2819 RRA .1356 RC3 -.1413 FAU .02632 RRT .0050 RRF -.0179 RTF .9760 CRT -.8678 CRS .8455 CST -.9990
FDE-1.5678 FRA 2.0003 FC3-1.0188 BSP 20182 SGB 6306.2 R23 -.0229 R13 .9760 LSA 3921.1 MSA 180.8 SSA 15.3
BDE 2.8636 BRA 3.2048 BC3 3.1711 FSP -1010 SG1 6292.9 SG2 409.9 THA .02 EL1 3701.4 EL2 171.4 ALF 175.34

LAUNCH DATE MAY 31 1967 FLIGHT TIME 206.00 ARRIVAL DATE DEC 23 1967

DISTANCE 578.877

HELIOCENTRIC CONIC
RL 151.67 LAL .00 LOL 248.88 VL 26.372 GAL 7.87 AZL 93.38 HCA 272.09 SMA 125.84 ECC .24505 INC 3.3813 VI 29.375
RP 107.57 LAP 3.38 LOP 160.97 VP 37.588 GAP 11.51 AZP 90.12 TAL 153.92 TAP 66.01 RCA 95.01 APO 156.68 V2 35.228
RC 150.615 GL -18.19 GP -2.17 ZAL 47.50 ZAP 167.55 ETS 349.73 ZAE 125.08 ETE 182.10 ZAC 92.62 ETC 13.74 CLP-167.74

PLANETOCENTRIC CONIC
C3 24.352 VHL 4.935 DLA -26.19 RAL 195.06 RAD 6568.0 VEL 12.072 PTH 2.16 VHP 7.558 DPA 3.79 RAP 174.27 ECC 1.4008

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 12 49	1255.54	9.50	346.11	62.87	116.80	12 33 45	655.5	13.03	339.20
90.00	15 24 58	624.50	25.08	306.55	68.85	103.60	15 35 23	24.5	26.70	298.26
100.00	13 5 56	1083.99	7.02	332.17	61.53	119.13	13 24 0	484.0	10.85	325.48
100.00	17 14 32	5559.32	27.83	259.15	69.53	101.37	18 47 11	4959.3	29.12	250.58
110.00	13 24 36	1025.43	2.04	324.67	58.46	124.13	13 41 41	425.4	6.50	318.43
110.00	19 12 22	5190.64	33.60	232.22	70.59	96.68	20 38 52	4590.6	34.16	223.02

DIFFERENTIAL CORRECTIONS
TDE-2.9366 TRA 3.4715 TC3-2.9158 BAU .9502
RDE .3056 RRA .1305 RC3 -.1227 FAU .02357
FDE-1.5082 FRA 2.0100 FC3 -.8379 BSP 20357
BDE 2.9525 BRA 3.4739 BC3 2.9184 FSP -955

MID-COURSE EXECUTION ACCURACY
SGT 6331.1 SGR 411.2 SG3 280.2
RRT -.0395 RRF -.0615 RTF .9758
SGB 6344.5 R23 .0229 R13 -.9758
SG1 6331.2 SG2 410.9 THA 179.85

ORBIT DETERMINATION ACCURACY
ST 3667.2 SR 358.4 SS 1252.1
CRT -.8682 CRS .8465 CST -.9990
LSA 3887.1 MSA 185.5 SSA 15.0
EL1 3680.4 EL2 177.2 ALF 175.14

LAUNCH DATE MAY 31 1967 FLIGHT TIME 208.00 ARRIVAL DATE DEC 25 1967

DISTANCE 584.401

HELIOCENTRIC CONIC
RL 151.67 LAL .00 LOL 248.88 VL 26.341 GAL 8.44 AZL 93.41 HCA 275.34 SMA 125.65 ECC .25193 INC 3.4065 VI 29.375
RP 107.59 LAP 3.39 LOP 164.22 VP 37.561 GAP 12.07 AZP 90.32 TAL 152.82 TAP 68.15 RCA 94.00 APO 157.31 V2 35.221
RC 152.696 GL -17.47 GP -2.08 ZAL 45.89 ZAP 168.76 ETS 348.95 ZAE 124.75 ETE 182.03 ZAC 90.63 ETC 13.69 CLP-168.95

PLANETOCENTRIC CONIC
C3 26.601 VHL 5.158 DLA -26.12 RAL 196.87 RAD 6568.1 VEL 12.165 PTH 2.18 VHP 7.874 DPA 3.05 RAP 176.17 ECC 1.4378

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 18 21	1283.09	8.66	347.69	65.95	117.07	12 39 44	683.1	12.22	340.82
90.00	15 33 55	640.54	24.82	307.66	72.26	104.09	15 44 35	40.5	26.51	299.40
100.00	13 11 55	1110.12	6.15	333.63	64.59	119.31	13 30 25	510.1	10.01	326.97
100.00	17 23 2	5576.78	27.59	260.39	72.97	101.99	18 55 59	4976.8	28.96	251.86
110.00	13 31 2	1050.12	1.10	325.96	61.47	124.17	13 48 32	450.1	5.57	319.73
110.00	19 20 25	5209.54	33.44	233.67	74.14	97.52	20 47 14	4609.5	34.12	224.49

DIFFERENTIAL CORRECTIONS
TDE-3.0213 TRA 3.7617 TC3-2.6629 BAU .9477
RDE .3299 RRA .1240 RC3 -.1057 FAU .02088
FDE-1.4507 FRA 2.0237 FC3 -.6795 BSP 20425
BDE 3.0393 BRA 3.7637 BC3 2.6650 FSP -899

MID-COURSE EXECUTION ACCURACY
SGT 6361.7 SGR 412.0 SG3 264.3
RRT -.0826 RRF -.1032 RTF .9757
SGB 6375.0 R23 .0223 R13 -.9757
SG1 6361.8 SG2 410.6 THA 179.69

ORBIT DETERMINATION ACCURACY
ST 3636.2 SR 369.4 SS 1209.8
CRT -.8678 CRS .8465 CST -.9991
LSA 3845.2 MSA 190.3 SSA 14.6
EL1 3650.3 EL2 182.9 ALF 174.95

LAUNCH DATE MAY 31 1967 FLIGHT TIME 210.00 ARRIVAL DATE DEC 27 1967

DISTANCE 589.849

HELIOCENTRIC CONIC
RL 151.67 LAL .00 LOL 248.88 VL 26.311 GAL 9.05 AZL 93.43 HCA 278.58 SMA 125.46 ECC .25937 INC 3.4320 VI 29.375
RP 107.62 LAP 3.39 LOP 167.47 VP 37.532 GAP 12.66 AZP 90.51 TAL 151.73 TAP 70.30 RCA 92.92 APO 158.01 V2 35.214
RC 154.762 GL -16.74 GP -2.00 ZAL 44.33 ZAP 169.93 ETS 347.99 ZAE 124.44 ETE 181.95 ZAC 88.62 ETC 13.64 CLP-170.13

PLANETOCENTRIC CONIC
C3 29.152 VHL 5.399 DLA -26.01 RAL 198.63 RAD 6568.2 VEL 12.269 PTH 2.21 VHP 8.209 DPA 2.28 RAP 178.08 ECC 1.4798

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 23 1	1313.86	7.70	349.44	69.00	117.33	12 44 55	713.9	11.30	342.62
90.00	15 43 17	655.41	24.57	308.67	75.69	104.54	15 54 13	55.4	26.33	300.45
100.00	13 17 10	1138.98	5.18	335.23	67.63	119.48	13 36 9	539.0	9.07	328.60
100.00	17 31 49	5593.56	27.35	261.58	76.43	102.57	19 5 3	4993.6	28.80	253.08
110.00	13 36 55	1077.00	.07	327.36	64.46	124.18	13 54 52	477.0	4.55	321.14
110.00	19 28 34	5228.31	33.27	235.11	77.70	98.36	20 55 42	4628.3	34.06	225.96

DIFFERENTIAL CORRECTIONS
TDE-3.1129 TRA 4.0662 TC3-2.4231 BAU .9450
RDE .3548 RRA .1160 RC3 -.0901 FAU .01846
FDE-1.4008 FRA 2.0374 FC3 -.5483 BSP 20585
BDE 3.1331 BRA 4.0679 BC3 2.4247 FSP -852

MID-COURSE EXECUTION ACCURACY
SGT 6388.3 SGR 412.3 SG3 249.6
RRT -.1258 RRF -.1449 RTF .9758
SGB 6401.6 R23 .0217 R13 -.9758
SG1 6388.5 SG2 409.0 THA 179.53

ORBIT DETERMINATION ACCURACY
ST 3604.5 SR 378.8 SS 1172.0
CRT -.8675 CRS .8467 CST -.9991
LSA 3804.2 MSA 194.3 SSA 14.2
EL1 3619.5 EL2 187.7 ALF 174.78

LAUNCH DATE MAY 31 1967 FLIGHT TIME 212.00 ARRIVAL DATE DEC 29 1967

DISTANCE 595.211

HELIOCENTRIC CONIC
RL 151.67 LAL .00 LOL 248.88 VL 26.281 GAL 9.70 AZL 93.46 HCA 281.81 SMA 125.28 ECC .26743 INC 3.4578 VI 29.375
RP 107.64 LAP 3.38 LOP 170.71 VP 37.503 GAP 13.28 AZP 90.71 TAL 150.65 TAP 72.46 RCA 91.77 APO 158.78 V2 35.205
RC 156.813 GL -16.02 GP -1.93 ZAL 42.81 ZAP 171.09 ETS 346.80 ZAE 124.13 ETE 181.87 ZAC 86.60 ETC 13.61 CLP-171.30

PLANETOCENTRIC CONIC
C3 32.056 VHL 5.662 DLA -25.87 RAL 200.33 RAD 6568.3 VEL 12.387 PTH 2.24 VHP 8.565 DPA 1.50 RAP 179.99 ECC 1.5276

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 26 53	1347.57	6.64	351.35	72.02	117.59	12 49 20	747.6	10.28	344.57
90.00	15 53 0	669.37	24.33	309.62	79.13	104.96	16 4 9	69.4	26.15	301.43
100.00	13 21 45	1170.40	4.13	336.96	70.65	119.63	13 41 15	570.4	8.04	330.36
100.00	17 40 49	5609.81	27.10	262.72	79.90	103.12	19 14 19	5009.8	28.64	254.26
110.00	13 42 17	1105.97	-1.04	328.87	67.43	124.17	14 0 43	506.0	3.45	322.66
110.00	19 36 46	5247.00	33.07	236.53	81.26	99.18	21 4 13	4647.0	33.99	227.41

DIFFERENTIAL CORRECTIONS
TDE-3.2068 TRA 4.3909 TC3-2.1899 BAU .9391
RDE .3804 RRA .1063 RC3 -.0762 FAU .01616
FDE-1.3547 FRA 2.0536 FC3 -.4365 BSP 20720
BDE 3.2293 BRA 4.3922 BC3 2.1912 FSP -807

MID-COURSE EXECUTION ACCURACY
SGT 6408.5 SGR 412.2 SG3 236.0
RRT -.1684 RRF -.1856 RTF .9760
SGB 6421.7 R23 .0209 R13 -.9760
SG1 6408.8 SG2 406.3 THA 179.38

ORBIT DETERMINATION ACCURACY
ST 3568.1 SR 386.6 SS 1136.8
CRT -.8669 CRS .8467 CST -.9991
LSA 3759.5 MSA 197.8 SSA 13.8
EL1 3583.9 EL2 191.9 ALF 174.62

LAUNCH DATE MAY 31 1967 FLIGHT TIME 214.00 ARRIVAL DATE DEC 31 1967

HELIOCENTRIC CONIC DISTANCE 600.473

RL 151.67 LAL .00 LOL 248.88 VL 26.250 GAL 10.40 AZL 93.48 HCA 285.05 SMA 125.09 ECC .27618 INC 3.4843 V1 29.375
RP 107.67 LAP 3.36 LOP 173.95 VP 37.474 GAP 13.94 AZP 90.91 TAL 149.58 TAP 74.63 RCA 90.54 APO 159.64 V2 35.197
RC 158.850 GL -15.30 GP -1.87 ZAL 41.36 ZAP 172.23 ETS 345.27 ZAE 123.83 ETE 181.80 ZAC 84.57 ETC 13.60 CLP-172.46

PLANETOCENTRIC CONIC

C3 35.369 VHL 5.947 DLA -25.71 RAL 201.97 RAD 6568.4 VEL 12.520 PTH 2.27 VHP 8.946 DPA .70 RAP 181.92 ECC 1.5821

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 30 1	1383.92	5.49	353.40	75.01	117.82	12 53 5	783.9	9.17	346.66
90.00	16 2 56	682.63	24.09	310.52	82.58	105.35	16 14 19	82.6	25.97	302.36
100.00	13 25 41	1204.18	2.99	338.82	73.63	119.76	13 45 45	604.2	6.93	332.25
100.00	17 49 57	5625.64	26.85	263.83	83.37	103.65	19 23 43	5025.6	28.46	255.40
110.00	13 47 7	1136.91	-2.22	330.48	70.39	124.12	14 6 4	536.9	2.27	324.28
110.00	19 45 1	5265.67	32.86	237.95	84.82	99.99	21 12 46	4665.7	33.89	228.86

DIFFERENTIAL CORRECTIONS
TDE-3.3041 TRA 4.7375 TC3-1.9645 BAU .9294
RDE .4065 RRA .0947 RC3 -.0637 FAU .01397
FDE-1.3128 FRA 2.0728 FC3 -.3419 BSP 20836
BDE 3.3290 BRA 4.7385 BC3 1.9655 FSP -766

MID-COURSE EXECUTION ACCURACY
SGT 6422.8 SGR 411.5 SG3 223.3
RRT -.2105 RRF -.2257 RTF .9763
SGB 6436.0 R23 .0198 R13 -.9763
SG1 6423.4 SG2 402.3 THA 179.22

ORBIT DETERMINATION ACCURACY
ST 3528.1 SR 392.8 SS 1104.4
CRT -.8661 CRS .8464 CST -.9992
LSA 3712.3 MSA 200.7 SSA 13.4
EL1 3544.5 EL2 195.4 ALF 174.48

LAUNCH DATE MAY 31 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 2 1968

HELIOCENTRIC CONIC DISTANCE 605.622

RL 151.67 LAL .00 LOL 248.88 VL 26.220 GAL 11.15 AZL 93.51 HCA 288.29 SMA 124.90 ECC .28569 INC 3.5116 V1 29.375
RP 107.70 LAP 3.33 LOP 177.20 VP 37.444 GAP 14.64 AZP 91.10 TAL 148.54 TAP 76.83 RCA 89.22 APO 160.59 V2 35.187
RC 160.871 GL -14.58 GP -1.81 ZAL 39.96 ZAP 173.36 ETS 343.24 ZAE 123.52 ETE 181.73 ZAC 82.53 ETC 13.60 CLP-173.61

PLANETOCENTRIC CONIC

C3 39.161 VHL 6.258 DLA -25.52 RAL 203.54 RAD 6568.5 VEL 12.670 PTH 2.30 VHP 9.354 DPA -.10 RAP 183.84 ECC 1.6445

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 32 28	1422.63	4.25	355.58	77.96	118.02	12 56 11	822.6	7.97	348.87
90.00	16 13 1	695.39	23.86	311.39	86.02	105.72	16 24 37	95.4	25.79	303.25
100.00	13 28 59	1240.13	1.77	340.80	76.59	119.84	13 49 39	640.1	5.73	334.25
100.00	17 59 11	5641.16	26.60	264.92	86.83	104.17	19 33 12	5041.2	28.28	256.52
110.00	13 51 26	1169.71	-3.47	332.20	73.32	124.03	14 10 56	569.7	1.02	325.99
110.00	19 53 14	5284.35	32.63	239.36	88.37	100.80	21 21 18	4684.3	33.78	230.31

DIFFERENTIAL CORRECTIONS
TDE-3.4056 TRA 5.1079 TC3-1.7482 BAU .9157
RDE .4331 RRA .0811 RC3 -.0528 FAU .01187
FDE-1.2748 FRA 2.0953 FC3 -.2624 BSP 20920
BDE 3.4330 BRA 5.1085 BC3 1.7489 FSP -726

MID-COURSE EXECUTION ACCURACY
SGT 6431.4 SGR 410.4 SG3 211.4
RRT -.2521 RRF -.2651 RTF .9768
SGB 6444.5 R23 .0185 R13 -.9768
SG1 6432.3 SG2 397.0 THA 179.07

ORBIT DETERMINATION ACCURACY
ST 3484.8 SR 397.3 SS 1074.9
CRT -.8652 CRS .8460 CST -.9992
LSA 3662.7 MSA 203.0 SSA 13.0
EL1 3501.7 EL2 198.2 ALF 174.35

LAUNCH DATE MAY 31 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 4 1968

HELIOCENTRIC CONIC DISTANCE 610.637

RL 151.67 LAL .00 LOL 248.88 VL 26.191 GAL 11.96 AZL 93.54 HCA 291.52 SMA 124.72 ECC .29607 INC 3.5399 V1 29.375
RP 107.73 LAP 3.29 LOP 180.43 VP 37.414 GAP 15.39 AZP 91.30 TAL 147.53 TAP 79.05 RCA 87.79 APO 161.65 V2 35.178
RC 162.878 GL -13.88 GP -1.76 ZAL 38.62 ZAP 174.47 ETS 340.40 ZAE 123.21 ETE 181.66 ZAC 80.50 ETC 13.62 CLP-174.75

PLANETOCENTRIC CONIC

C3 43.517 VHL 6.597 DLA -25.30 RAL 205.04 RAD 6568.7 VEL 12.841 PTH 2.34 VHP 9.792 DPA -.92 RAP 185.76 ECC 1.7162

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 34 18	1463.44	2.95	357.86	80.88	118.18	12 58 41	863.4	6.69	351.19
90.00	16 23 10	707.80	23.63	312.22	89.45	106.08	16 34 58	107.8	25.61	304.11
100.00	13 31 43	1278.07	.49	342.88	79.51	119.89	13 53 1	678.1	4.46	336.35
100.00	18 8 27	5656.44	26.34	265.98	90.28	104.67	19 42 43	5056.4	28.10	257.62
110.00	13 55 15	1204.24	-4.79	334.01	76.23	123.89	14 15 19	604.2	-.30	327.79
110.00	20 1 24	5303.04	32.38	240.76	91.89	101.59	21 29 47	4703.0	33.64	231.75

DIFFERENTIAL CORRECTIONS
TDE-3.5099 TRA 5.5069 TC3-1.5390 BAU .8957
RDE .4603 RRA .0653 RC3 -.0434 FAU .00979
FDE-1.2397 FRA 2.1225 FC3 -.1947 BSP 20929
BDE 3.5400 BRA 5.5073 BC3 1.5396 FSP -686

MID-COURSE EXECUTION ACCURACY
SGT 6434.7 SGR 408.7 SG3 200.5
RRT -.2930 RRF -.3036 RTF .9774
SGB 6447.7 R23 .0168 R13 -.9774
SG1 6435.8 SG2 390.7 THA 178.93

ORBIT DETERMINATION ACCURACY
ST 3437.5 SR 400.2 SS 1047.8
CRT -.8641 CRS .8452 CST -.9993
LSA 3610.0 MSA 204.8 SSA 12.7
EL1 3454.9 EL2 200.4 ALF 174.24

LAUNCH DATE MAY 31 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 6 1968

HELIOCENTRIC CONIC DISTANCE 615.497

RL 151.67 LAL .00 LOL 248.88 VL 26.161 GAL 12.84 AZL 93.57 HCA 294.75 SMA 124.54 ECC .30741 INC 3.5695 V1 29.375
RP 107.76 LAP 3.24 LOP 183.67 VP 37.384 GAP 16.19 AZP 91.50 TAL 146.55 TAP 81.30 RCA 86.25 APO 162.82 V2 35.167
RC 164.869 GL -13.18 GP -1.71 ZAL 37.35 ZAP 175.56 ETS 336.15 ZAE 122.90 ETE 181.58 ZAC 78.48 ETC 13.66 CLP-175.90

PLANETOCENTRIC CONIC

C3 48.539 VHL 6.967 DLA -25.06 RAL 206.47 RAD 6568.8 VEL 13.035 PTH 2.38 VHP 10.267 DPA -1.74 RAP 187.68 ECC 1.7988

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 35 32	1506.11	1.57	.25	83.75	118.28	13 0 38	906.1	5.34	353.59
90.00	16 33 19	719.95	23.40	313.04	92.86	106.42	16 45 19	119.9	25.42	304.96
100.00	13 33 51	1317.81	-.86	345.06	82.40	119.88	13 55 49	717.8	3.12	338.54
100.00	18 17 41	5671.52	26.07	267.02	93.70	105.16	19 52 12	5071.5	27.90	258.70
110.00	13 58 33	1240.37	-6.15	335.91	79.11	123.69	14 19 13	640.4	-1.69	329.68
110.00	20 9 29	5321.72	32.12	242.15	95.39	102.38	21 38 11	4721.7	33.49	233.19

DIFFERENTIAL CORRECTIONS
TDE-3.6243 TRA 5.9309 TC3-1.3436 BAU .8722
RDE .4880 RRA .0471 RC3 -.0354 FAU .00785
FDE-1.2105 FRA 2.1523 FC3 -.1400 BSP 21000
BDE 3.6570 BRA 5.9311 BC3 1.3440 FSP -652

MID-COURSE EXECUTION ACCURACY
SGT 6432.7 SGR 406.6 SG3 190.2
RRT -.3340 RRF -.3422 RTF .9782
SGB 6445.5 R23 .0152 R13 -.9782
SG1 6434.1 SG2 383.2 THA 178.79

ORBIT DETERMINATION ACCURACY
ST 3390.6 SR 401.5 SS 1024.8
CRT -.8633 CRS .8450 CST -.9993
LSA 3558.8 MSA 205.6 SSA 12.3
EL1 3408.4 EL2 201.6 ALF 174.14

LAUNCH DATE JUN 1 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 10 1967

HELIOCENTRIC CONIC DISTANCE 147.672

```
RL  151.69 LAL    .00 LOL 249.83 VL  20.120 GAL   7.88 AZL  93.10 HCA  54.56 SMA  98.68 ECC .54960 INC 3.0965 V1  29.371
RP  108.94 LAP  -2.52 LOP 304.35 VP  33.039 GAP -32.86 AZP  91.80 TAL 173.43 TAP 227.99 RCA  44.44 APO 152.91 V2  34.786
RC   51.183 GL  -6.28 GP     .68 ZAL  75.35 ZAP  21.41 ETS 182.94 ZAE 159.68 ETE 153.08 ZAC 118.41 ETC  17.81 CLP  21.39
```

PLANETOCENTRIC CONIC

```
C3  97.016 VHL  9.850 DLA  -3.61 RAL 172.53 RAD 6569.9 VEL 14.777 PTH   2.67 VHP 19.285 DPA  16.57 RAP 149.37 ECC 2.5966
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 42 53	2486.50	-25.10	59.47	59.65	103.55	7 24 20	1886.5	-22.99	51.43
90.00	17 47 20	5354.37	27.72	244.26	62.99	83.96	19 16 35	4754.4	26.59	235.78
100.00	8 2 33	2229.55	-26.56	40.17	59.25	104.24	8 39 42	1629.5	-24.34	32.07
100.00	19 10 22	5086.56	29.21	224.38	62.80	83.35	20 35 9	4486.6	27.98	215.79
110.00	9 6 55	2028.01	-30.51	23.65	58.03	106.23	9 40 43	1428.0	-27.98	15.37
110.00	20 22 29	4860.86	33.26	206.62	62.18	81.62	21 43 30	4260.9	31.75	197.72

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .5236 TRA-1.2444 TC3 -.0805 BAU  .1160    SGT  802.5 SGR  445.5 SG3   38.2     ST   374.3 SR   396.6 SS   342.7
 RDE -.6742 RRA -.3380 RC3  .0388 FAU .01552    RRT  .0316 RRF -.0303 RTF -.6384     CRT -.7180 CRS -.8283 CST  .9830
 FDE -.3191 FRA  .5043 FC3 -.1385 BSP   2117    SGB  917.8 R23 -.0011 R13 -.6385     LSA  607.2 MSA  214.4 SSA   14.0
 BDE  .8536 BRA 1.2894 BC3  .0894 FSP    -80    SG1  802.7 SG2  445.1 THA   1.45     EL1  505.6 EL2  204.4 ALF 132.70
```

LAUNCH DATE JUN 1 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 12 1967

HELIOCENTRIC CONIC DISTANCE 153.939

```
RL  151.69 LAL    .00 LOL 249.83 VL  20.675 GAL   7.55 AZL  93.13 HCA  57.72 SMA 100.36 ECC .52375 INC 3.1275 V1  29.371
RP  108.94 LAP  -2.64 LOP 307.52 VP  33.378 GAP -31.24 AZP  91.67 TAL 173.02 TAP 230.74 RCA  47.80 APO 152.93 V2  34.784
RC   49.723 GL  -6.90 GP     .71 ZAL  74.73 ZAP  19.84 ETS 183.08 ZAE 161.01 ETE 149.30 ZAC 116.87 ETC  17.47 CLP  19.83
```

PLANETOCENTRIC CONIC

```
C3  86.539 VHL  9.303 DLA  -4.44 RAL 172.87 RAD 6569.7 VEL 14.418 PTH   2.62 VHP 18.419 DPA  16.07 RAP 150.95 ECC 2.4242
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 50 26	2435.47	-24.24	55.98	57.84	105.10	7 31 2	1835.5	-21.94	48.07
90.00	17 42 27	5355.12	27.72	244.32	61.82	83.98	19 11 42	4755.1	26.60	235.83
100.00	8 9 42	2179.79	-25.68	36.74	57.40	105.85	8 46 2	1579.8	-23.26	28.77
100.00	19 5 52	5086.04	29.21	224.34	61.64	83.33	20 30 38	4486.0	27.98	215.75
110.00	9 13 10	1981.08	-29.57	20.32	56.07	108.00	9 46 11	1381.1	-26.82	12.21
110.00	20 18 53	4857.51	33.23	206.36	61.01	81.47	21 39 51	4257.5	31.69	197.47

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .5234 TRA-1.2316 TC3 -.0781 BAU  .1040    SGT  839.0 SGR  449.5 SG3   41.8     ST   395.0 SR   399.1 SS   362.9
 RDE -.6407 RRA -.3217 RC3  .0445 FAU .01596    RRT  .0317 RRF -.0310 RTF -.6589     CRT -.7207 CRS -.8326 CST  .9825
 FDE -.3355 FRA  .5186 FC3 -.1597 BSP   2268    SGB  951.8 R23 -.0018 R13 -.6589     LSA  631.8 MSA  218.2 SSA   14.2
 BDE  .8273 BRA 1.2729 BC3  .0899 FSP    -90    SG1  839.1 SG2  449.2 THA   1.36     EL1  520.9 EL2  209.8 ALF 134.59
```

LAUNCH DATE JUN 1 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 14 1967

HELIOCENTRIC CONIC DISTANCE 160.268

```
RL  151.69 LAL    .00 LOL 249.83 VL  21.190 GAL   7.21 AZL  93.16 HCA  60.88 SMA 102.03 ECC .49896 INC 3.1564 V1  29.371
RP  108.94 LAP  -2.76 LOP 310.68 VP  33.699 GAP -29.70 AZP  91.54 TAL 172.64 TAP 233.52 RCA  51.12 APO 152.94 V2  34.784
RC   48.377 GL  -7.57 GP     .74 ZAL  74.21 ZAP  18.28 ETS 183.25 ZAE 162.39 ETE 144.69 ZAC 115.33 ETC  17.16 CLP  18.27
```

PLANETOCENTRIC CONIC

```
C3  77.262 VHL  8.790 DLA  -5.26 RAL 173.10 RAD 6569.5 VEL 14.093 PTH   2.57 VHP 17.587 DPA  15.56 RAP 152.53 ECC 2.2715
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 57 37	2383.77	-23.28	52.49	55.94	106.59	7 37 21	1783.8	-20.79	44.71
90.00	17 37 9	5355.23	27.72	244.32	60.51	83.99	19 6 25	4755.2	26.60	235.84
100.00	8 16 29	2129.37	-24.70	33.31	55.46	107.39	8 51 58	1529.4	-22.09	25.49
100.00	19 0 59	5084.86	29.20	224.25	60.32	83.29	20 25 44	4484.9	27.96	215.67
110.00	9 19 3	1933.52	-28.52	17.02	54.03	109.70	9 51 16	1333.5	-25.57	9.08
110.00	20 14 55	4853.48	33.19	206.06	59.69	81.30	21 35 48	4253.5	31.63	197.18

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .5214 TRA-1.2200 TC3 -.0749 BAU  .0935    SGT  877.9 SGR  452.9 SG3   45.7     ST   415.9 SR   400.9 SS   384.0
 RDE -.6080 RRA -.3056 RC3  .0509 FAU .01643    RRT  .0334 RRF -.0320 RTF -.6770     CRT -.7219 CRS -.8369 CST  .9815
 FDE -.3525 FRA  .5329 FC3 -.1841 BSP   2370    SGB  987.8 R23 -.0012 R13 -.6771     LSA  657.0 MSA  221.8 SSA   14.5
 BDE  .8010 BRA 1.2577 BC3  .0905 FSP   -100    SG1  878.0 SG2  452.5 THA   1.34     EL1  536.0 EL2  215.2 ALF 136.46
```

LAUNCH DATE JUN 1 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 16 1967

HELIOCENTRIC CONIC DISTANCE 166.654

```
RL  151.69 LAL    .00 LOL 249.83 VL  21.669 GAL   6.86 AZL  93.18 HCA  64.04 SMA 103.67 ECC .47524 INC 3.1835 V1  29.371
RP  108.94 LAP  -2.86 LOP 313.84 VP  34.003 GAP -28.24 AZP  91.39 TAL 172.30 TAP 236.35 RCA  54.40 APO 152.93 V2  34.784
RC   47.155 GL  -8.27 GP     .77 ZAL  73.79 ZAP  16.74 ETS 183.48 ZAE 163.77 ETE 138.99 ZAC 113.77 ETC  16.85 CLP  16.72
```

PLANETOCENTRIC CONIC

```
C3  69.042 VHL  8.309 DLA  -6.08 RAL 173.24 RAD 6569.3 VEL 13.798 PTH   2.52 VHP 16.787 DPA  15.04 RAP 154.11 ECC 2.1363
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 4 26	2331.50	-22.22	49.03	53.96	108.01	7 43 18	1731.5	-19.55	41.37
90.00	17 31 27	5354.83	27.72	244.30	59.04	83.97	19 0 42	4754.8	26.60	235.81
100.00	8 22 54	2078.40	-23.62	29.91	53.46	108.87	8 57 32	1478.4	-20.83	22.23
100.00	18 55 41	5083.15	29.18	224.13	58.86	83.22	20 20 24	4483.2	27.94	215.55
110.00	9 24 32	1885.42	-27.37	13.75	51.94	111.32	9 55 57	1285.4	-24.23	5.99
110.00	20 10 32	4848.90	33.14	205.71	58.22	81.10	21 31 21	4248.9	31.56	196.84

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .5220 TRA-1.2055 TC3 -.0682 BAU  .0826    SGT  917.2 SGR  455.5 SG3   50.0     ST   438.7 SR   401.8 SS   406.4
 RDE -.5761 RRA -.2896 RC3  .0580 FAU .01696    RRT  .0335 RRF -.0327 RTF -.6960     CRT -.7255 CRS -.8415 CST  .9810
 FDE -.3710 FRA  .5469 FC3 -.2127 BSP   2524    SGB 1024.1 R23 -.0017 R13 -.6960     LSA  684.5 MSA  224.4 SSA   14.7
 BDE  .7774 BRA 1.2398 BC3  .0895 FSP   -111    SG1  917.4 SG2  455.1 THA   1.26     EL1  553.0 EL2  219.4 ALF 138.45
```

```
LAUNCH DATE  JUN  1 1967                          FLIGHT TIME  78.00                          ARRIVAL DATE  AUG 18 1967

  HELIOCENTRIC CONIC                                  DISTANCE 173.093
   RL  151.69 LAL     .00 LOL 249.83 VL  22.114 GAL   6.51 AZL  93.21 HCA  67.20 SMA 105.27 ECC .45261 INC 3.2093 VI  29.371
   RP  108.94 LAP   -2.96 LOP 317.01 VP  34.289 GAP -26.84 AZP  91.24 TAL 172.01 TAP 239.21 RCA  57.62 APO 152.91 V2  34.785
   RC  46.068 GL    -9.01 GP     .80 ZAL  73.46 ZAP  15.19 ETS 183.79 ZAE 165.08 ETE 131.92 ZAC 112.21 ETC  16.57 CLP  15.17
  PLANETOCENTRIC CONIC
   C3  61.759 VHL   7.859 DLA  -6.90 RAL 173.28 RAD 6569.2 VEL 13.532 PTH   2.47 VHP 16.018 DPA  14.52 RAP 155.69 ECC 2.0164
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00-     7 10 53   2278.77     -21.07     45.59      51.92     109.36    7 48 52     1678.8     -18.24      38.06
      90.00     17 25 18   5354.10      27.71    244.24      57.45      83.95   18 54 32     4754.1      26.59     235.76
     100.00      8 28 56   2026.99     -22.45     26.54      51.39     110.28    9  2 43     1427.0     -19.48      19.00
     100.00     18 49 56   5081.10      29.17    223.98      57.26      83.14   20 14 37     4481.1      27.91     215.40
     110.00      9 29 38   1836.93     -26.13     10.52      49.79     112.87   10  0 15     1236.9     -22.80       2.94
     110.00     20  5 43   4843.93      33.09    205.33      56.62      80.88   21 26 27     4243.9      31.47     196.48
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE   .5233 TRA-1.1896 TC3 -.0586 BAU  .0728     SGT  957.8 SGR  457.3 SG3   54.7       ST   462.9 SR   402.0 SS   430.1
   RDE -.5451 RRA -.2739 RC3  .0658 FAU .01756      RRT  .0334 RRF -.0332 RTF -.7141       CRT -.7299 CRS -.8465 CST  .9805
   FDE -.3908 FRA  .5605 FC3 -.2461 BSP   2686      SGB 1061.3 R23 -.0024 R13 -.7142       LSA  713.7 MSA  226.1 SSA   15.0
   BDE  .7556 BRA 1.2208 BC3  .0881 FSP   -124      SG1  957.9 SG2  456.9 THA   1.18      EL1  571.2 EL2  222.7 ALF 140.49

LAUNCH DATE  JUN  1 1967                          FLIGHT TIME  80.00                          ARRIVAL DATE  AUG 20 1967

  HELIOCENTRIC CONIC                                  DISTANCE 179.579
   RL  151.69 LAL     .00 LOL 249.83 VL  22.527 GAL   6.15 AZL  93.23 HCA  70.37 SMA 106.83 ECC .43107 INC 3.2339 VI  29.371
   RP  108.93 LAP   -3.05 LOP 320.17 VP  34.559 GAP -25.51 AZP  91.09 TAL 171.76 TAP 242.12 RCA  60.78 APO 152.88 V2  34.787
   RC  45.125 GL    -9.78 GP     .84 ZAL  73.23 ZAP  13.65 ETS 184.20 ZAE 166.23 ETE 123.21 ZAC 110.64 ETC  16.29 CLP  13.63
  PLANETOCENTRIC CONIC
   C3  55.307 VHL   7.437 DLA  -7.72 RAL 173.21 RAD 6569.0 VEL 13.292 PTH   2.43 VHP 15.278 DPA  13.98 RAP 157.26 ECC 1.9102
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00      7 16 57   2225.70     -19.84     42.19      49.82     110.63    7 54  3     1625.7     -16.85      34.78
      90.00     17 18 41   5353.22      27.71    244.18      55.72      83.92   18 47 54     4753.2      26.58     235.70
     100.00      8 34 35   1975.27     -21.19     23.22      49.26     111.59    9  7 30     1375.3     -18.07      15.81
     100.00     18 43 44   5078.88      29.15    223.82      55.54      83.06   20  8 23     4478.9      27.88     215.25
     110.00      9 34 20   1788.17     -24.80      7.36      47.60     114.32   10  4  8     1188.2     -21.31     359.95
     110.00     20  0 28   4838.75      33.03    204.94      54.89      80.65   21 21  7     4238.8      31.39     196.10
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE   .5250 TRA-1.1725 TC3 -.0456 BAU  .0646     SGT  999.6 SGR  458.3 SG3   59.8       ST   488.3 SR   401.2 SS   455.2
   RDE -.5149 RRA -.2585 RC3  .0745 FAU .01822      RRT  .0333 RRF -.0338 RTF -.7314       CRT -.7349 CRS -.8517 CST  .9801
   FDE -.4122 FRA  .5739 FC3 -.2852 BSP   2851      SGB 1099.7 R23 -.0030 R13 -.7315       LSA  744.9 MSA  227.1 SSA   15.2
   BDE  .7354 BRA 1.2007 BC3  .0873 FSP   -138      SG1  999.8 SG2  458.0 THA   1.11      EL1  590.6 EL2  225.0 ALF 142.53

LAUNCH DATE  JUN  1 1967                          FLIGHT TIME  82.00                          ARRIVAL DATE  AUG 22 1967

  HELIOCENTRIC CONIC                                  DISTANCE 186.107
   RL  151.69 LAL     .00 LOL 249.83 VL  22.911 GAL   5.80 AZL  93.26 HCA  73.53 SMA 108.35 ECC .41060 INC 3.2576 VI  29.371
   RP  108.93 LAP   -3.12 LOP 323.34 VP  34.813 GAP -24.24 AZP  90.92 TAL 171.56 TAP 245.08 RCA  63.86 APO 152.84 V2  34.790
   RC  44.335 GL   -10.60 GP     .88 ZAL  73.11 ZAP  12.11 ETS 184.76 ZAE 167.09 ETE 112.73 ZAC 109.08 ETC  16.03 CLP  12.08
  PLANETOCENTRIC CONIC
   C3  49.592 VHL   7.042 DLA  -8.54 RAL 173.04 RAD 6568.8 VEL 13.075 PTH   2.39 VHP 14.567 DPA  13.44 RAP 158.82 ECC 1.8162
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00      7 22 39   2172.43     -18.52     38.83      47.67     111.81    7 58 52     1572.4     -15.40      31.55
      90.00     17 11 36   5352.38      27.70    244.12      53.88      83.89   18 40 48     4752.4      26.57     235.64
     100.00      8 39 51   1923.39     -19.85     19.94      47.09     112.82    9 11 54     1323.4     -16.59      12.67
     100.00     18 37  5   5076.66      29.13    223.65      53.69      82.98   20  1 42     4476.7      27.85     215.08
     110.00      9 38 39   1739.29     -23.39      4.26      45.38     115.67   10  7 38     1139.3     -19.75     357.02
     110.00     19 54 47   4833.52      32.97    204.54      53.04      80.42   21 15 20     4233.5      31.30     195.71
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE   .5275 TRA-1.1540 TC3 -.0285 BAU  .0588     SGT 1042.7 SGR  458.5 SG3   65.6       ST   515.1 SR   399.6 SS   481.9
   RDE -.4856 RRA -.2434 RC3  .0840 FAU .01895      RRT  .0331 RRF -.0343 RTF -.7481       CRT -.7406 CRS -.8571 CST  .9798
   FDE -.4353 FRA  .5871 FC3 -.3308 BSP   3023      SGB 1139.1 R23 -.0036 R13 -.7482       LSA  778.1 MSA  227.3 SSA   15.4
   BDE  .7170 BRA 1.1794 BC3  .0887 FSP   -154      SG1 1042.9 SG2  458.2 THA   1.03      EL1  611.4 EL2  226.2 ALF 144.55

LAUNCH DATE  JUN  1 1967                          FLIGHT TIME  84.00                          ARRIVAL DATE  AUG 24 1967

  HELIOCENTRIC CONIC                                  DISTANCE 192.674
   RL  151.69 LAL     .00 LOL 249.83 VL  23.267 GAL   5.45 AZL  93.28 HCA  76.69 SMA 109.83 ECC .39121 INC 3.2804 VI  29.371
   RP  108.92 LAP   -3.19 LOP 326.50 VP  35.051 GAP -23.02 AZP  90.76 TAL 171.40 TAP 248.09 RCA  66.86 APO 152.79 V2  34.793
   RC  43.707 GL   -11.46 GP     .93 ZAL  73.09 ZAP  10.56 ETS 185.52 ZAE 167.53 ETE 100.77 ZAC 107.52 ETC  15.79 CLP  10.52
  PLANETOCENTRIC CONIC
   C3  44.532 VHL   6.673 DLA  -9.35 RAL 172.75 RAD 6568.7 VEL 12.880 PTH   2.35 VHP 13.882 DPA  12.90 RAP 160.38 ECC 1.7329
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00      7 27 59   2119.12     -17.14     35.53      45.48     112.89    8  3 18     1519.1     -13.90      28.35
      90.00     17  4  1   5351.77      27.70    244.07      51.93      83.86   18 33 12     4751.8      26.56     235.59
     100.00      8 44 44   1871.48     -18.45     16.72      44.88     113.94    9 15 56     1271.5     -15.06       9.57
     100.00     18 29 56   5074.63      29.11    223.51      51.75      82.90   19 54 31     4474.6      27.83     214.94
     110.00      9 42 33   1690.45     -21.92      1.23      43.13     116.91   10 10 44     1090.5     -18.13     354.14
     110.00     19 48 37   4828.43      32.91    204.15      51.09      80.20   21  9  5     4228.4      31.21     195.34
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE   .5283 TRA-1.1365 TC3 -.0090 BAU  .0564     SGT 1088.1 SGR  457.8 SG3   71.8       ST   542.0 SR   397.1 SS   510.0
   RDE -.4572 RRA -.2288 RC3  .0944 FAU .01974      RRT  .0347 RRF -.0354 RTF -.7624       CRT -.7450 CRS -.8625 CST  .9791
   FDE -.4600 FRA  .6005 FC3 -.3838 BSP   3139      SGB 1180.5 R23 -.0032 R13 -.7624       LSA  812.2 MSA  227.4 SSA   15.7
   BDE  .6987 BRA 1.1593 BC3  .0948 FSP   -171      SG1 1088.2 SG2  457.5 THA   1.02      EL1  632.4 EL2  227.0 ALF 146.49
```

LAUNCH DATE JUN 1 1967 FLIGHT TIME 86.00 ARRIVAL DATE AUG 26 1967

HELIOCENTRIC CONIC DISTANCE 199.273

RL	151.69	LAL	.00	LOL	249.83	VL	23.598	GAL	5.11	AZL	93.30	HCA	79.85	SMA	111.25	ECC	.37286	INC	3.3027	VI	29.371
RP	108.90	LAP	-3.25	LOP	329.67	VP	35.275	GAP	-21.86	AZP	90.58	TAL	171.30	TAP	251.15	RCA	69.77	APO	152.73	V2	34.797
RC	43.245	GL	-12.35	GP	.97	ZAL	73.17	ZAP	9.01	ETS	186.62	ZAE	167.44	ETE	88.13	ZAC	105.96	ETC	15.56	CLP	8.96

PLANETOCENTRIC CONIC

C3	40.055	VHL	6.329	DLA	-10.16	RAL	172.36	RAD	6568.5	VEL	12.705	PTH	2.31	VHP	13.222	DPA	12.35	RAP	161.92	ECC	1.6592

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 32 56	2065.92	-15.71	32.28	43.25	113.87	8 7 22	1465.9	-12.35	25.21
90.00	16 55 55	5351.55	27.70	244.06	49.89	83.86	18 25 7	4751.5	26.56	235.58
100.00	8 49 14	1819.73	-16.99	13.57	42.64	114.97	9 19 34	1219.7	-13.49	6.54
100.00	18 22 18	5072.96	29.10	223.38	49.70	82.84	19 46 51	4473.0	27.80	214.82
110.00	9 46 3	1641.83	-20.39	358.28	40.85	118.05	10 13 25	1041.8	-16.48	351.34
110.00	19 41 58	4823.63	32.86	203.79	49.04	79.99	21 2 22	4223.6	31.13	194.99

DIFFERENTIAL CORRECTIONS

TDE	.5323	TRA	-1.1151	TC3	.0176	BAU	.0573
RDE	-.4299	RRA	-.2146	RC3	.1056	FAU	.02065
FDE	-.4877	FRA	.6130	FC3	-.4463	BSP	3318
BDE	.6842	BRA	1.1356	BC3	.1071	FSP	-190

MID-COURSE EXECUTION ACCURACY

SGT	1133.4	SGR	456.4	SG3	78.8		
RRT	.0345	RRF	-.0360	RTF	-.7774		
SGB	1221.8	R23	-.0040	R13	-.7774		
SG1	1133.5	SG2	456.0	THA	.95		

ORBIT DETERMINATION ACCURACY

ST	571.7	SR	393.7	SS	540.4		
CRT	-.7522	CRS	-.8684	CST	.9790		
LSA	850.1	MSA	225.9	SSA	15.9		
EL1	656.3	EL2	225.9	ALF	148.46		

LAUNCH DATE JUN 1 1967 FLIGHT TIME 88.00 ARRIVAL DATE AUG 28 1967

HELIOCENTRIC CONIC DISTANCE 205.901

RL	151.69	LAL	.00	LOL	249.83	VL	23.904	GAL	4.77	AZL	93.32	HCA	83.02	SMA	112.63	ECC	.35555	INC	3.3246	VI	29.371
RP	108.89	LAP	-3.30	LOP	332.84	VP	35.485	GAP	-20.74	AZP	90.40	TAL	171.24	TAP	254.26	RCA	72.58	APO	152.67	V2	34.801
RC	42.956	GL	-13.29	GP	1.03	ZAL	73.36	ZAP	7.45	ETS	188.26	ZAE	166.81	ETE	75.97	ZAC	104.41	ETC	15.34	CLP	7.38

PLANETOCENTRIC CONIC

C3	36.098	VHL	6.008	DLA	-10.97	RAL	171.86	RAD	6568.4	VEL	12.549	PTH	2.27	VHP	12.587	DPA	11.81	RAP	163.45	ECC	1.5941

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 37 30	2013.00	-14.22	29.11	41.00	114.75	8 11 3	1413.0	-10.77	22.13
90.00	16 47 19	5351.90	27.70	244.08	47.76	83.87	18 16 31	4751.9	26.56	235.60
100.00	8 53 21	1768.30	-15.49	10.50	40.38	115.89	9 22 49	1168.3	-11.88	3.56
100.00	18 14 9	5071.82	29.09	223.30	47.57	82.80	19 38 41	4471.8	27.79	214.74
110.00	9 49 8	1593.60	-18.82	355.43	38.57	119.07	10 15 42	993.6	-14.80	348.62
110.00	19 34 52	4819.28	32.81	203.46	46.91	79.81	20 55 11	4219.3	31.05	194.68

DIFFERENTIAL CORRECTIONS

TDE	.5363	TRA	-1.0931	TC3	.0494	BAU	.0616
RDE	-.4035	RRA	-.2008	RC3	.1177	FAU	.02165
FDE	-.5177	FRA	.6257	FC3	-.5192	BSP	3482
BDE	.6711	BRA	1.1114	BC3	.1277	FSP	-212

MID-COURSE EXECUTION ACCURACY

SGT	1180.0	SGR	454.0	SG3	86.5		
RRT	.0350	RRF	-.0371	RTF	-.7913		
SGB	1264.4	R23	-.0046	R13	-.7913		
SG1	1180.2	SG2	453.7	THA	.91		

ORBIT DETERMINATION ACCURACY

ST	602.5	SR	389.2	SS	572.7		
CRT	-.7596	CRS	-.8743	CST	.9789		
LSA	890.0	MSA	224.0	SSA	16.1		
EL1	681.5	EL2	223.8	ALF	150.35		

LAUNCH DATE JUN 1 1967 FLIGHT TIME 90.00 ARRIVAL DATE AUG 30 1967

HELIOCENTRIC CONIC DISTANCE 212.553

RL	151.69	LAL	.00	LOL	249.83	VL	24.188	GAL	4.44	AZL	93.35	HCA	86.18	SMA	113.95	ECC	.33926	INC	3.3462	VI	29.371
RP	108.87	LAP	-3.34	LOP	336.01	VP	35.682	GAP	-19.67	AZP	90.22	TAL	171.24	TAP	257.42	RCA	75.29	APO	152.60	V2	34.806
RC	42.841	GL	-14.27	GP	1.09	ZAL	73.66	ZAP	5.89	ETS	190.90	ZAE	165.70	ETE	65.20	ZAC	102.88	ETC	15.13	CLP	5.79

PLANETOCENTRIC CONIC

C3	32.603	VHL	5.710	DLA	-11.77	RAL	171.24	RAD	6568.3	VEL	12.409	PTH	2.24	VHP	11.976	DPA	11.27	RAP	164.95	ECC	1.5366

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 41 42	1960.53	-12.70	26.00	38.73	115.52	8 14 23	1360.5	-9.17	19.11
90.00	16 38 12	5352.97	27.71	244.16	45.55	83.91	18 7 25	4753.0	26.57	235.68
100.00	8 57 4	1717.37	-13.95	7.49	38.10	116.71	9 25 42	1117.4	-10.26	.65
100.00	18 5 31	5071.36	29.09	223.27	45.37	82.78	19 30 2	4471.4	27.78	214.71
110.00	9 51 48	1545.96	-17.22	352.66	36.27	119.99	10 17 34	946.0	-13.11	345.97
110.00	19 27 16	4815.54	32.76	203.18	44.71	79.64	20 47 32	4215.5	30.99	194.41

DIFFERENTIAL CORRECTIONS

TDE	.5416	TRA	-1.0691	TC3	.0879	BAU	.0686
RDE	-.3781	RRA	-.1876	RC3	.1307	FAU	.02277
FDE	-.5511	FRA	.6379	FC3	-.6047	BSP	3661
BDE	.6605	BRA	1.0854	BC3	.1575	FSP	-236

MID-COURSE EXECUTION ACCURACY

SGT	1227.3	SGR	450.8	SG3	95.0		
RRT	.0353	RRF	-.0382	RTF	-.8046		
SGB	1307.5	R23	-.0054	R13	-.8047		
SG1	1227.4	SG2	450.5	THA	.86		

ORBIT DETERMINATION ACCURACY

ST	635.2	SR	383.8	SS	607.5		
CRT	-.7680	CRS	-.8805	CST	.9790		
LSA	933.1	MSA	221.1	SSA	16.3		
EL1	708.7	EL2	220.3	ALF	152.18		

LAUNCH DATE JUN 1 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 1 1967

HELIOCENTRIC CONIC DISTANCE 219.225

RL	151.69	LAL	.00	LOL	249.83	VL	24.451	GAL	4.13	AZL	93.37	HCA	89.35	SMA	115.21	ECC	.32395	INC	3.3676	VI	29.371
RP	108.86	LAP	-3.37	LOP	339.18	VP	35.867	GAP	-18.65	AZP	90.04	TAL	171.29	TAP	260.64	RCA	77.89	APO	152.53	V2	34.812
RC	42.900	GL	-15.29	GP	1.16	ZAL	74.07	ZAP	4.33	ETS	195.65	ZAE	164.22	ETE	56.19	ZAC	101.36	ETC	14.94	CLP	4.17

PLANETOCENTRIC CONIC

C3	29.521	VHL	5.433	DLA	-12.57	RAL	170.51	RAD	6568.2	VEL	12.284	PTH	2.21	VHP	11.387	DPA	10.74	RAP	166.44	ECC	1.4858

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 45 31	1908.69	-11.17	22.97	36.44	116.19	8 17 20	1308.7	-7.56	16.15
90.00	16 28 34	5354.91	27.72	244.30	43.29	83.98	17 57 49	4754.9	26.60	235.81
100.00	9 0 24	1667.12	-12.39	4.58	35.81	117.42	9 28 11	1067.1	-8.62	357.82
100.00	17 56 22	5071.71	29.09	223.29	43.11	82.79	19 20 54	4471.7	27.79	214.73
110.00	9 54 3	1499.07	-15.61	349.98	33.96	120.80	10 19 3	899.1	-11.41	343.40
110.00	19 19 12	4812.52	32.72	202.95	42.45	79.51	20 39 25	4212.5	30.93	194.19

DIFFERENTIAL CORRECTIONS

TDE	.5479	TRA	-1.0435	TC3	.1338	BAU	.0777
RDE	-.3538	RRA	-.1750	RC3	.1444	FAU	.02403
FDE	-.5882	FRA	.6498	FC3	-.7048	BSP	3840
BDE	.6522	BRA	1.0580	BC3	.1969	FSP	-264

MID-COURSE EXECUTION ACCURACY

SGT	1275.1	SGR	446.7	SG3	104.6		
RRT	.0358	RRF	-.0397	RTF	-.8174		
SGB	1351.1	R23	-.0063	R13	-.8175		
SG1	1275.3	SG2	446.4	THA	.82		

ORBIT DETERMINATION ACCURACY

ST	669.5	SR	377.4	SS	644.9		
CRT	-.7771	CRS	-.8868	CST	.9792		
LSA	979.3	MSA	217.4	SSA	16.5		
EL1	737.7	EL2	215.6	ALF	153.95		

```
LAUNCH DATE  JUN  1 1967                          FLIGHT TIME  94.00                          ARRIVAL DATE  SEP  3 1967

 HELIOCENTRIC CONIC                                DISTANCE 225.914
  RL  151.69 LAL     .00 LOL 249.83 VL  24.694 GAL   3.82 AZL  93.39 HCA  92.51 SMA 116.42 ECC .30960 INC 3.3890 VI  29.371
  RP  108.84 LAP   -3.39 LOP 342.35 VP  36.039 GAP -17.66 AZP  89.85 TAL 171.39 TAP 263.91 RCA  80.38 APO 152.46 V2  34.819
  RC  43.133 GL   -16.34 GP    1.23 ZAL  74.57 ZAP   2.82 ETS 206.01 ZAE 162.49 ETE  48.89 ZAC  99.87 ETC  14.76 CLP   2.53
 PLANETOCENTRIC CONIC
  C3  26.806 VHL  5.177 DLA -13.36 RAL 169.67 RAD 6568.1 VEL 12.173 PTH   2.18 VHP 10.821 DPA  10.22 RAP 167.90 ECC 1.4412
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00      7 48 58   1857.66      -9.62      20.02      34.14      116.76    8 19 56     1257.7      -5.95      13.26
     90.00     16 18 26   5357.81      27.74     244.51      40.97       84.08   17 47 44     4757.8      26.63     236.02
    100.00      9  3 20   1617.74     -10.83       1.74      33.50      118.03    9 30 18     1017.7      -7.00     355.05
    100.00     17 46 45   5072.97      29.10     223.38      40.79       82.84   19 11 18     4473.0      27.80     214.82
    110.00      9 55 53   1453.13     -13.99     347.41      31.65      121.51   10 20  7      853.1      -9.72     340.91
    110.00     19 10 41   4810.34      32.70     202.79      40.14       79.42   20 30 51     4210.3      30.89     194.03
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE  .5550 TRA-1.0171 TC3  .1866 BAU  .0878      SGT 1323.9 SGR  441.8 SG3  115.1            ST   705.5 SR   370.0 SS   685.2
  RDE -.3305 RRA -.1630 RC3  .1588 FAU .02544      RRT  .0369 RRF -.0417 RTF -.8292            CRT -.7866 CRS -.8931 CST  .9795
  FDE -.6296 FRA  .6616 FC3 -.8216 BSP   4017      SGB 1395.7 R23 -.0073 R13 -.8293            LSA 1028.7 MSA  213.3 SSA   16.7
  BDE  .6459 BRA 1.0301 BC3  .2451 FSP   -294      SG1 1324.1 SG2  441.5 THA    .79            EL1  768.5 EL2  209.7 ALF 155.65

LAUNCH DATE  JUN  1 1967                          FLIGHT TIME  96.00                          ARRIVAL DATE  SEP  5 1967

 HELIOCENTRIC CONIC                                DISTANCE 232.614
  RL  151.69 LAL     .00 LOL 249.83 VL  24.918 GAL   3.52 AZL  93.41 HCA  95.68 SMA 117.57 ECC .29618 INC 3.4105 VI  29.371
  RP  108.81 LAP   -3.39 LOP 345.53 VP  36.200 GAP -16.71 AZP  89.66 TAL 171.54 TAP 267.23 RCA  82.75 APO 152.39 V2  34.826
  RC  43.534 GL   -17.42 GP    1.31 ZAL  75.18 ZAP   1.57 ETS 236.82 ZAE 160.65 ETE  43.03 ZAC  98.40 ETC  14.59 CLP    .86
 PLANETOCENTRIC CONIC
  C3  24.418 VHL  4.941 DLA -14.13 RAL 168.73 RAD 6568.0 VEL 12.075 PTH   2.16 VHP 10.276 DPA   9.71 RAP 169.33 ECC 1.4019
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00      7 52  3   1807.62      -8.07      17.16      31.84      117.23    8 22 10     1207.6      -4.36      10.45
     90.00     16  7 49   5361.78      27.77     244.80      38.61       84.22   17 37 11     4761.8      26.68     236.30
    100.00      9  5 53   1569.39      -9.27     359.00      31.20      118.55    9 32  2      969.4      -5.39     352.37
    100.00     17 36 40   5075.24      29.12     223.55      38.44       82.92   19  1 15     4475.2      27.83     214.98
    110.00      9 57 19   1408.31     -12.38     344.93      29.35      122.12   10 20 47      808.3      -8.05     338.51
    110.00     19  1 44   4809.08      32.68     202.69      37.79       79.37   20 21 53     4209.1      30.87     193.94
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE  .5623 TRA -.9891 TC3  .2460 BAU  .0983      SGT 1372.1 SGR  436.0 SG3  126.9            ST   742.3 SR   361.5 SS   728.2
  RDE -.3082 RRA -.1515 RC3  .1739 FAU .02700      RRT  .0385 RRF -.0444 RTF -.8399            CRT -.7963 CRS -.8994 CST  .9799
  FDE -.6756 FRA  .6730 FC3 -.9574 BSP   4189      SGB 1439.7 R23 -.0084 R13 -.8400            LSA 1080.8 MSA  208.7 SSA   16.9
  BDE  .6412 BRA 1.0006 BC3  .3013 FSP   -328      SG1 1372.2 SG2  435.6 THA    .78            EL1  800.3 EL2  202.8 ALF 157.26

LAUNCH DATE  JUN  1 1967                          FLIGHT TIME  98.00                          ARRIVAL DATE  SEP  7 1967

 HELIOCENTRIC CONIC                                DISTANCE 239.324
  RL  151.69 LAL     .00 LOL 249.83 VL  25.126 GAL   3.24 AZL  93.43 HCA  98.85 SMA 118.66 ECC .28366 INC 3.4323 VI  29.371
  RP  108.79 LAP   -3.39 LOP 348.70 VP  36.351 GAP -15.79 AZP  89.47 TAL 171.74 TAP 270.60 RCA  85.00 APO 152.32 V2  34.834
  RC  44.099 GL   -18.53 GP    1.41 ZAL  75.88 ZAP   1.64 ETS 301.06 ZAE 158.76 ETE  38.33 ZAC  96.97 ETC  14.43 CLP   -.85
 PLANETOCENTRIC CONIC
  C3  22.322 VHL  4.725 DLA -14.90 RAL 167.68 RAD 6567.9 VEL 11.988 PTH   2.14 VHP  9.751 DPA   9.22 RAP 170.72 ECC 1.3674
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00      7 54 46   1758.74      -6.54      14.39      29.54      117.61    8 24  4     1158.7      -2.79       7.71
     90.00     15 56 46   5366.86      27.80     245.17      36.23       84.40   17 26 13     4766.9      26.74     236.66
    100.00      9  8  3   1522.26      -7.73     356.36      28.90      118.97    9 33 25      922.3      -3.80     349.76
    100.00     17 26 10   5078.56      29.15     223.79      36.06       83.05   18 50 48     4478.6      27.88     215.22
    110.00      9 58 19   1364.80     -10.79     342.56      27.05      122.63   10 21  4      764.8      -6.42     336.20
    110.00     18 52 23   4808.79      32.68     202.67      35.43       79.35   20 12 32     4208.8      30.86     193.92
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE  .5719 TRA -.9575 TC3  .3154 BAU  .1098      SGT 1419.0 SGR  429.3 SG3  140.0            ST   781.7 SR   352.0 SS   774.8
  RDE -.2869 RRA -.1407 RC3  .1894 FAU .02878      RRT  .0397 RRF -.0478 RTF -.8511            CRT -.8075 CRS -.9057 CST  .9807
  FDE -.7275 FRA  .6839 FC3-1.1161 BSP   4399      SGB 1482.5 R23 -.0106 R13 -.8511            LSA 1137.4 MSA  203.0 SSA   17.0
  BDE  .6398 BRA  .9678 BC3  .3679 FSP   -367      SG1 1419.1 SG2  428.9 THA    .76            EL1  834.9 EL2  194.4 ALF 158.81

LAUNCH DATE  JUN  1 1967                          FLIGHT TIME 100.00                          ARRIVAL DATE  SEP  9 1967

 HELIOCENTRIC CONIC                                DISTANCE 246.039
  RL  151.69 LAL     .00 LOL 249.83 VL  25.317 GAL   2.97 AZL  93.45 HCA 102.02 SMA 119.69 ECC .27201 INC 3.4544 VI  29.371
  RP  108.76 LAP   -3.38 LOP 351.88 VP  36.491 GAP -14.91 AZP  89.28 TAL 171.99 TAP 274.01 RCA  87.13 APO 152.25 V2  34.842
  RC  44.820 GL   -19.67 GP    1.51 ZAL  76.67 ZAP   3.01 ETS 329.72 ZAE 156.90 ETE  34.53 ZAC  95.57 ETC  14.28 CLP  -2.60
 PLANETOCENTRIC CONIC
  C3  20.486 VHL  4.526 DLA -15.65 RAL 166.54 RAD 6567.8 VEL 11.911 PTH   2.12 VHP  9.247 DPA   8.75 RAP 172.08 ECC 1.3372
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00      7 57  7   1711.18      -5.03      11.70      27.26      117.90    8 25 38     1111.2      -1.26       5.06
     90.00     15 45 19   5373.08      27.84     245.62      33.84       84.62   17 14 52     4773.1      26.81     237.10
    100.00      9  9 51   1476.52      -6.21     353.81      26.61      119.30    9 34 27      876.5      -2.26     347.25
    100.00     17 15 16   5082.97      29.18     224.12      33.67       83.21   18 39 59     4483.0      27.94     215.53
    110.00      9 58 56   1322.76      -9.24     340.29      24.76      123.06   10 20 59      722.8      -4.82     333.99
    110.00     18 42 40   4809.50      32.69     202.72      33.05       79.38   20  2 50     4209.5      30.88     195.97
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE  .5807 TRA -.9282 TC3  .3919 BAU  .1212      SGT 1468.0 SGR  421.7 SG3  154.8            ST   821.3 SR   341.4 SS   825.0
  RDE -.2666 RRA -.1305 RC3  .2052 FAU .03077      RRT  .0440 RRF -.0525 RTF -.8606            CRT -.8173 CRS -.9118 CST  .9812
  FDE -.7859 FRA  .6948 FC3-1.3002 BSP   4552      SGB 1527.4 R23 -.0113 R13 -.8607            LSA 1196.7 MSA  198.0 SSA   17.1
  BDE  .6390 BRA  .9373 BC3  .4424 FSP   -411      SG1 1468.2 SG2  421.2 THA    .79            EL1  869.8 EL2  185.7 ALF 160.30
```

LAUNCH DATE JUN 1 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 11 1967

HELIOCENTRIC CONIC DISTANCE 252.756

RL	151.69	LAL	.00	LOL	249.83	VL	25.493	GAL	2.71	AZL	93.48	HCA	105.19	SMA	120.66	ECC	.26120	INC	3.4771	V1	29.371
RP	108.74	LAP	-3.36	LOP	355.06	VP	36.622	GAP	-14.06	AZP	89.09	TAL	172.28	TAP	277.47	RCA	89.15	APO	152.18	V2	34.851
RC	45.690	GL	-20.82	GP	1.63	ZAL	77.54	ZAP	4.70	ETS	339.51	ZAE	155.13	ETE	31.44	ZAC	94.21	ETC	14.14	CLP	-4.41

PLANETOCENTRIC CONIC

C3	18.881	VHL	4.345	DLA	-16.38	RAL	165.31	RAD	6567.8	VEL	11.843	PTH	2.10	VHP	8.762	DPA	8.31	RAP	173.40	ECC	1.3107

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 59 8	1665.10	-3.55	9.12	24.98	118.11	8 26 53	1065.1	.23	2.49
90.00	15 33 30	5380.44	27.89	246.15	31.44	84.89	17 3 10	4780.4	26.89	237.63
100.00	9 11 17	1432.32	-4.73	351.36	24.53	119.55	9 35 9	832.3	-.76	344.82
100.00	17 4 3	5088.45	29.23	224.52	31.28	83.42	18 28 51	4488.5	28.01	215.93
110.00	9 59 9	1282.34	-7.73	338.13	22.49	123.40	10 20 32	682.3	-3.29	331.87
110.00	18 32 39	4811.20	32.71	202.85	30.67	79.46	19 52 51	4211.2	30.91	194.09

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY			ORBIT DETERMINATION ACCURACY		
TDE	.5922	TRA	-.8944	TC3	.4790	BAU	.1332	SGT 1514.6 SGR 413.3 SG3 171.4	ST	863.7	SR 329.7 SS 879.4
RDE	-.2471	RRA	-.1210	RC3	.2213	FAU	.03305	RRT .0480 RRF -.0586 RTF -.8706	CRT	-.8287	CRS -.9179 CST .9821
FDE	-.8525	FRA	.7042	FC3	-1.5154	BSP	4772	SGB 1570.0 R23 -.0135 R13 -.8707	LSA	1261.3	MSA 191.9 SSA 17.2
BDE	.6417	BRA	.9025	BC3	.5277	FSP	-461	SG1 1514.7 SG2 412.8 THA .81	EL1	907.6	EL2 175.6 ALF 161.74

LAUNCH DATE JUN 1 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 13 1967

HELIOCENTRIC CONIC DISTANCE 259.474

RL	151.69	LAL	.00	LOL	249.83	VL	25.655	GAL	2.46	AZL	93.50	HCA	108.37	SMA	121.58	ECC	.25119	INC	3.5005	V1	29.371
RP	108.71	LAP	-3.32	LOP	358.24	VP	36.744	GAP	-13.24	AZP	88.90	TAL	172.61	TAP	280.98	RCA	91.04	APO	152.12	V2	34.860
RC	46.700	GL	-21.98	GP	1.76	ZAL	78.48	ZAP	6.51	ETS	344.05	ZAE	153.48	ETE	28.92	ZAC	92.91	ETC	14.01	CLP	-6.27

PLANETOCENTRIC CONIC

C3	17.482	VHL	4.181	DLA	-17.09	RAL	164.01	RAD	6567.7	VEL	11.784	PTH	2.08	VHP	8.297	DPA	7.91	RAP	174.66	ECC	1.2877

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 0 51	1620.64	-2.12	6.63	22.74	118.24	8 27 51	1020.6	1.67	.01
90.00	15 21 24	5388.94	27.94	246.77	29.06	85.19	16 51 13	4788.9	26.98	238.23
100.00	9 12 23	1389.80	-3.30	349.01	22.09	119.73	9 35 33	789.8	.68	342.49
100.00	16 52 33	5095.01	29.28	225.00	28.91	83.67	18 17 28	4495.0	28.09	216.39
110.00	9 59 2	1243.66	-6.28	336.08	20.24	123.67	10 19 45	643.7	-1.81	329.85
110.00	18 22 23	4813.91	32.74	203.05	28.31	79.57	19 42 37	4213.9	30.96	194.29

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY			ORBIT DETERMINATION ACCURACY		
TDE	.6023	TRA	-.8619	TC3	.5679	BAU	.1439	SGT 1559.9 SGR 404.1 SG3 189.9	ST	904.9	SR 316.8 SS 937.4
RDE	-.2284	RRA	-.1122	RC3	.2375	FAU	.03557	RRT .0549 RRF -.0671 RTF -.8788	CRT	-.8386	CRS -.9235 CST .9828
FDE	-.9270	FRA	.7146	FC3	-1.7613	BSP	4926	SGB 1611.4 R23 -.0153 R13 -.8789	LSA	1327.7	MSA 186.5 SSA 17.2
BDE	.6441	BRA	.8692	BC3	.6155	FSP	-517	SG1 1560.1 SG2 403.4 THA .87	EL1	944.3	EL2 165.3 ALF 163.11

LAUNCH DATE JUN 1 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 15 1967

HELIOCENTRIC CONIC DISTANCE 266.188

RL	151.69	LAL	.00	LOL	249.83	VL	25.803	GAL	2.23	AZL	93.52	HCA	111.54	SMA	122.43	ECC	.24196	INC	3.5248	V1	29.371
RP	108.68	LAP	-3.28	LOP	1.42	VP	36.857	GAP	-12.45	AZP	88.70	TAL	172.97	TAP	284.51	RCA	92.81	APO	152.06	V2	34.870
RC	47.841	GL	-23.14	GP	1.91	ZAL	79.47	ZAP	8.42	ETS	346.57	ZAE	151.99	ETE	26.84	ZAC	91.67	ETC	13.89	CLP	-8.20

PLANETOCENTRIC CONIC

C3	16.266	VHL	4.033	DLA	-17.77	RAL	162.64	RAD	6567.7	VEL	11.732	PTH	2.07	VHP	7.850	DPA	7.54	RAP	175.88	ECC	1.2677

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 2 16	1577.89	-.75	4.25	20.53	118.31	8 28 34	977.9	3.04	357.62
90.00	15 9 5	5398.52	27.99	247.46	26.70	85.54	16 39 3	4798.5	27.08	238.92
100.00	9 13 11	1349.06	-1.92	346.77	19.88	119.84	9 35 40	749.1	2.06	340.25
100.00	16 40 51	5102.58	29.33	225.55	26.56	83.96	18 5 53	4502.6	28.18	216.94
110.00	9 58 34	1206.84	-4.88	334.14	18.03	123.87	10 18 41	606.8	-.40	327.93
110.00	18 11 56	4817.57	32.78	203.33	25.99	79.73	19 32 14	4217.6	31.02	194.55

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY			ORBIT DETERMINATION ACCURACY		
TDE	.6124	TRA	-.8286	TC3	.6615	BAU	.1541	SGT 1603.0 SGR 394.1 SG3 210.8	ST	945.8	SR 302.6 SS 999.5
RDE	-.2105	RRA	-.1040	RC3	.2536	FAU	.03841	RRT .0645 RRF -.0784 RTF -.8863	CRT	-.8480	CRS -.9286 CST .9835
FDE	-1.0113	FRA	.7245	FC3	-2.0442	BSP	5082	SGB 1650.7 R23 -.0176 R13 -.8863	LSA	1397.1	MSA 181.4 SSA 17.1
BDE	.6475	BRA	.8351	BC3	.7085	FSP	-580	SG1 1603.2 SG2 393.2 THA .97	EL1	981.0	EL2 154.6 ALF 164.42

LAUNCH DATE JUN 1 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 17 1967

HELIOCENTRIC CONIC DISTANCE 272.897

RL	151.69	LAL	.00	LOL	249.83	VL	25.939	GAL	2.01	AZL	93.55	HCA	114.72	SMA	123.23	ECC	.23346	INC	3.5502	V1	29.371
RP	108.64	LAP	-3.22	LOP	4.60	VP	36.962	GAP	-11.69	AZP	88.51	TAL	173.36	TAP	288.08	RCA	94.46	APO	152.00	V2	34.881
RC	49.103	GL	-24.30	GP	2.08	ZAL	80.51	ZAP	10.41	ETS	348.13	ZAE	150.69	ETE	25.15	ZAC	90.49	ETC	13.78	CLP	-10.21

PLANETOCENTRIC CONIC

C3	15.213	VHL	3.900	DLA	-18.43	RAL	161.23	RAD	6567.6	VEL	11.687	PTH	2.06	VHP	7.421	DPA	7.22	RAP	177.03	ECC	1.2504

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 3 26	1536.95	.58	1.97	18.37	118.31	8 29 3	937.0	4.36	355.33
90.00	14 56 36	5409.15	28.05	248.24	24.39	85.92	16 26 45	4809.1	27.19	239.68
100.00	9 13 42	1310.19	-.60	344.64	17.72	119.89	9 35 32	710.2	3.38	338.12
100.00	16 29 1	5111.14	29.39	226.18	24.26	84.28	17 54 12	4511.1	28.29	217.55
110.00	9 57 50	1171.94	-3.56	332.31	15.87	124.02	10 17 21	571.9	.93	326.11
110.00	18 1 23	4822.15	32.84	203.68	23.70	79.93	19 21 45	4222.2	31.10	194.89

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY			ORBIT DETERMINATION ACCURACY		
TDE	.6230	TRA	-.7940	TC3	.7587	BAU	.1638	SGT 1643.0 SGR 383.4 SG3 234.3	ST	986.9	SR 287.2 SS 1066.6
RDE	-.1931	RRA	-.0964	RC3	.2697	FAU	.04163	RRT .0770 RRF -.0933 RTF -.8932	CRT	-.8571	CRS -.9333 CST .9843
FDE	-1.1077	FRA	.7337	FC3	-2.3692	BSP	5224	SGB 1687.1 R23 -.0206 R13 -.8933	LSA	1470.6	MSA 176.3 SSA 17.0
BDE	.6522	BRA	.7998	BC3	.8052	FSP	-651	SG1 1643.3 SG2 382.2 THA 1.09	EL1	1017.8	EL2 143.5 ALF 165.70

LAUNCH DATE JUN 1 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 19 1967

HELIOCENTRIC CONIC DISTANCE 279.598
RL 151.69 LAL .00 LOL 249.83 VL 26.063 GAL 1.81 AZL 93.58 HCA 117.90 SMA 123.98 ECC .22566 INC 3.5769 V1 29.371
RP 108.61 LAP -3.16 LOP 7.78 VP 37.059 GAP -10.96 AZP 88.32 TAL 173.78 TAP 291.68 RCA 96.00 APO 151.95 V2 34.891
RC 50.476 GL -25.45 GP 2.27 ZAL 81.58 ZAP 12.50 ETS 349.14 ZAE 149.58 ETE 23.78 ZAC 89.39 ETC 13.68 CLP -12.30
PLANETOCENTRIC CONIC
C3 14.303 VHL 3.782 DLA -19.07 RAL 159.78 RAD 6567.6 VEL 11.649 PTH 2.04 VHP 7.011 DPA 6.96 RAP 178.10 ECC 1.2354

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 4 24	1497.85	1.84	359.79	16.27	118.26	8 29 22	897.9	5.60	353.13
90.00	14 44 3	5420.78	28.10	249.08	22.14	86.34	16 14 23	4820.8	27.30	240.51
100.00	9 14 1	1273.22	.65	342.61	15.61	119.89	9 35 14	673.2	4.62	336.08
100.00	16 17 7	5120.65	29.45	226.88	22.02	84.65	17 42 28	4520.6	28.40	218.24
110.00	9 56 51	1139.01	-2.30	330.59	13.77	124.11	10 15 50	539.0	2.19	324.39
110.00	17 50 47	4827.63	32.90	204.09	21.48	80.17	19 11 14	4227.6	31.20	195.28

DIFFERENTIAL CORRECTIONS
TDE .6324 TRA -.7598 TC3 .8545 BAU .1723
RDE -.1761 RRA -.0895 RC3 .2858 FAU .04523
FDE-1.2167 FRA .7434 FC3-2.7376 BSP 5344
BDE .6565 BRA .7651 BC3 .9011 FSP -731

MID-COURSE EXECUTION ACCURACY
SGT 1679.0 SGR 372.1 SG3 260.7
RRT .0944 RRF -.1131 RTF -.8992
SGB 1719.8 R23 -.0240 R13 -.8993
SG1 1679.4 SG2 370.4 THA 1.26

ORBIT DETERMINATION ACCURACY
ST 1025.6 SR 270.3 SS 1137.9
CRT -.8648 CRS -.9372 CST .9850
LSA 1545.9 MSA 172.0 SSA 16.8
EL1 1052.3 EL2 132.3 ALF 166.95

LAUNCH DATE JUN 1 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 21 1967

HELIOCENTRIC CONIC DISTANCE 286.290
RL 151.69 LAL .08 LOL 249.83 VL 26.177 GAL 1.61 AZL 93.61 HCA 121.08 SMA 124.67 ECC .21853 INC 3.6053 V1 29.371
RP 108.58 LAP -3.09 LOP 10.97 VP 37.150 GAP -10.24 AZP 88.14 TAL 174.21 TAP 295.29 RCA 97.42 APO 151.91 V2 34.903
RC 51.950 GL -26.58 GP 2.50 ZAL 82.67 ZAP 14.70 ETS 349.83 ZAE 148.70 ETE 22.71 ZAC 88.38 ETC 13.58 CLP -14.49
PLANETOCENTRIC CONIC
C3 13.523 VHL 3.677 DLA -19.68 RAL 158.30 RAD 6567.5 VEL 11.615 PTH 2.04 VHP 6.618 DPA 6.76 RAP 179.10 ECC 1.2225

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 5 14	1460.59	3.04	357.70	14.24	118.17	8 29 35	860.6	6.78	351.02
90.00	14 31 28	5433.41	28.15	250.00	19.96	86.80	16 2 2	4833.4	27.41	241.42
100.00	9 14 10	1238.16	1.84	340.69	13.58	119.84	9 34 48	638.2	5.80	334.14
100.00	16 5 14	5131.07	29.52	227.65	19.85	85.05	17 30 45	4531.1	28.52	218.99
110.00	9 55 41	1108.04	-1.12	328.98	11.73	124.17	10 14 9	508.0	3.37	322.77
110.00	17 40 12	4833.96	32.98	204.57	19.34	80.44	19 0 46	4234.0	31.31	195.75

DIFFERENTIAL CORRECTIONS
TDE .6415 TRA -.7245 TC3 .9505 BAU .1803
RDE -.1593 RRA -.0833 RC3 .3020 FAU .04935
FDE-1.3414 FRA .7521 FC3-3.1593 BSP 5470
BDE .6610 BRA .7293 BC3 .9973 FSP -824

MID-COURSE EXECUTION ACCURACY
SGT 1710.2 SGR 360.5 SG3 290.6
RRT .1176 RRF -.1394 RTF -.9048
SGB 1747.8 R23 -.0283 R13 -.9049
SG1 1710.8 SG2 357.8 THA 1.49

ORBIT DETERMINATION ACCURACY
ST 1062.4 SR 251.7 SS 1214.6
CRT -.8715 CRS -.9404 CST .9857
LSA 1624.5 MSA 167.9 SSA 16.5
EL1 1085.1 EL2 120.8 ALF 168.19

LAUNCH DATE JUN 1 1967 FLIGHT TIME 114.00 ARRIVAL DATE SEP 23 1967

HELIOCENTRIC CONIC DISTANCE 292.971
RL 151.69 LAL .00 LOL 249.83 VL 26.280 GAL 1.43 AZL 93.64 HCA 124.27 SMA 125.30 ECC .21204 INC 3.6356 V1 29.371
RP 108.54 LAP -3.00 LOP 14.15 VP 37.233 GAP -9.56 AZP 87.95 TAL 174.65 TAP 298.92 RCA 98.73 APO 151.87 V2 34.914
RC 53.515 GL -27.69 GP 2.76 ZAL 83.75 ZAP 17.02 ETS 350.30 ZAE 148.04 ETE 21.90 ZAC 87.46 ETC 13.48 CLP -16.80
PLANETOCENTRIC CONIC
C3 12.856 VHL 3.585 DLA -20.27 RAL 156.83 RAD 6567.5 VEL 11.586 PTH 2.03 VHP 6.242 DPA 6.63 RAP 180.02 ECC 1.2116

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 6 0	1425.08	4.18	355.72	12.30	118.03	8 29 45	825.1	7.89	349.01
90.00	14 18 57	5447.04	28.20	251.00	17.87	87.30	15 49 44	4847.0	27.53	242.40
100.00	9 14 13	1204.94	2.96	338.86	11.63	119.76	9 34 18	604.9	6.90	332.29
100.00	15 53 25	5142.41	29.58	228.49	17.77	85.48	17 19 7	4542.4	28.64	219.81
110.00	9 54 25	1078.97	-.01	327.46	9.77	124.18	10 12 24	479.0	4.48	321.25
110.00	17 29 42	4841.14	33.06	205.12	17.28	80.76	18 50 24	4241.1	31.43	196.27

DIFFERENTIAL CORRECTIONS
TDE .6515 TRA -.6869 TC3 1.0468 BAU .1881
RDE -.1424 RRA -.0777 RC3 .3187 FAU .05407
FDE-1.4859 FRA .7587 FC3-3.6411 BSP 5609
BDE .6669 BRA .6913 BC3 1.0943 FSP -931

MID-COURSE EXECUTION ACCURACY
SGT 1736.8 SGR 348.7 SG3 324.7
RRT .1478 RRF -.1735 RTF -.9106
SGB 1771.5 R23 -.0338 R13 -.9109
SG1 1737.6 SG2 344.7 THA 1.77

ORBIT DETERMINATION ACCURACY
ST 1099.0 SR 231.1 SS 1298.3
CRT -.8774 CRS -.9427 CST .9866
LSA 1708.7 MSA 163.7 SSA 16.1
EL1 1117.7 EL2 109.0 ALF 169.44

LAUNCH DATE JUN 1 1967 FLIGHT TIME 116.00 ARRIVAL DATE SEP 25 1967

HELIOCENTRIC CONIC DISTANCE 299.639
RL 151.69 LAL .00 LOL 249.83 VL 26.373 GAL 1.27 AZL 93.67 HCA 127.45 SMA 125.89 ECC .20614 INC 3.6684 V1 29.371
RP 108.50 LAP -2.91 LOP 17.34 VP 37.310 GAP -8.89 AZP 87.77 TAL 175.10 TAP 302.55 RCA 99.94 APO 151.84 V2 34.926
RC 55.163 GL -28.76 GP 3.06 ZAL 84.82 ZAP 19.46 ETS 350.62 ZAE 147.62 ETE 21.35 ZAC 86.66 ETC 13.40 CLP -19.23
PLANETOCENTRIC CONIC
C3 12.291 VHL 3.506 DLA -20.83 RAL 155.37 RAD 6567.5 VEL 11.562 PTH 2.02 VHP 5.885 DPA 6.60 RAP 180.83 ECC 1.2023

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 6 49	1391.17	5.26	353.81	10.45	117.86	8 30 0	791.2	8.95	347.07
90.00	14 6 30	5461.75	28.24	252.07	15.89	87.84	15 37 31	4861.8	27.64	243.46
100.00	9 14 17	1173.42	4.03	337.13	9.78	119.64	9 33 50	573.4	7.94	330.53
100.00	15 41 42	5154.74	29.64	229.40	15.80	85.96	17 7 37	4554.7	28.77	220.70
110.00	9 53 7	1051.69	1.04	326.04	7.91	124.17	10 10 39	451.7	5.51	319.81
110.00	17 19 21	4849.23	33.14	205.73	15.34	81.11	18 40 11	4249.2	31.56	196.86

DIFFERENTIAL CORRECTIONS
TDE .6572 TRA -.6519 TC3 1.1310 BAU .1939
RDE -.1252 RRA -.0728 RC3 .3364 FAU .05938
FDE-1.6488 FRA .7670 FC3-4.1830 BSP 5678
BDE .6690 BRA .6560 BC3 1.1799 FSP -1050

MID-COURSE EXECUTION ACCURACY
SGT 1755.5 SGR 337.2 SG3 363.1
RRT .1896 RRF -.2194 RTF -.9147
SGB 1787.6 R23 -.0402 R13 -.9150
SG1 1756.7 SG2 330.9 THA 2.16

ORBIT DETERMINATION ACCURACY
ST 1127.4 SR 208.3 SS 1385.9
CRT -.8797 CRS -.9431 CST .9872
LSA 1791.4 MSA 161.0 SSA 15.6
EL1 1142.3 EL2 97.8 ALF 170.70

LAUNCH DATE JUN 1 1967 FLIGHT TIME 118.00 ARRIVAL DATE SEP 27 1967

HELIOCENTRIC CONIC DISTANCE 306.294

```
RL  151.69 LAL    .00 LOL 249.83 VL  26.457 GAL   1.12 AZL  93.70 HCA 130.64 SMA 126.42 ECC .20082 INC 3.7041 V1  29.371
RP  108.46 LAP  -2.81 LOP  20.53 VP  37.382 GAP  -8.25 AZP  87.59 TAL 175.54 TAP 306.18 RCA 101.03 APO 151.81 V2  34.938
RC   56.885 GL  -29.81 GP   3.41 ZAL  85.86 ZAP  22.06 ETS 350.82 ZAE 147.45 ETE  21.08 ZAC  85.98 ETC  13.31 CLP -21.81
```

PLANETOCENTRIC CONIC

```
C3  11.817 VHL  3.438 DLA -21.38 RAL 153.94 RAD 6567.5 VEL 11.541 PTH   2.01 VHP  5.544 DPA   6.66 RAP 181.54 ECC 1.1945
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 7 46	1358.64	6.29	351.98	8.72	117.67	8 30 24	758.6	9.95	345.21
90.00	13 54 8	5477.69	28.28	253.24	14.02	88.42	15 25 26	4877.7	27.76	244.61
100.00	9 14 27	1143.41	5.04	335.47	8.04	119.50	9 33 31	543.4	8.93	328.85
100.00	15 30 8	5168.16	29.70	230.39	13.95	86.48	16 56 16	4568.2	28.90	221.68
110.00	9 51 54	1026.05	2.02	324.70	6.16	124.13	10 9 0	426.0	6.48	318.46
110.00	17 9 10	4858.28	33.24	206.42	13.51	81.51	18 30 9	4258.3	31.71	197.53

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE   .6609 TRA -.6164 TC3 1.1982 BAU  .1975   SGT 1763.4 SGR  326.8 SG3  406.1     ST  1150.5 SR   182.8 SS  1480.2
 RDE -.1073 RRA -.0684 RC3  .3556 FAU .06528   RRT  .2421 RRF -.2774 RTF -.9178     CRT -.8784 CRS -.9411 CST  .9877
 FDE-1.8362 FRA  .7735 FC3-4.7829 BSP   5719   SGB 1793.4 R23 -.0493 R13 -.9183     LSA 1876.9 MSA  158.8 SSA   14.9
 BDE  .6696 BRA  .6202 BC3 1.2499 FSP  -1186   SG1 1765.2 SG2  316.7 THA   2.65     EL1 1161.8 EL2   86.5 ALF 172.01
```

LAUNCH DATE JUN 1 1967 FLIGHT TIME 120.00 ARRIVAL DATE SEP 29 1967

HELIOCENTRIC CONIC DISTANCE 312.933

```
RL  151.69 LAL    .00 LOL 249.83 VL  26.533 GAL    .98 AZL  93.74 HCA 133.83 SMA 126.91 ECC .19602 INC 3.7434 V1  29.371
RP  108.43 LAP  -2.70 LOP  23.73 VP  37.447 GAP  -7.62 AZP  87.41 TAL 175.98 TAP 309.81 RCA 102.03 APO 151.79 V2  34.951
RC   58.673 GL  -30.83 GP   3.82 ZAL  86.85 ZAP  24.82 ETS 350.95 ZAE 147.53 ETE  21.10 ZAC  85.45 ETC  13.24 CLP -24.55
```

PLANETOCENTRIC CONIC

```
C3  11.424 VHL  3.380 DLA -21.91 RAL 152.56 RAD 6567.4 VEL 11.524 PTH   2.01 VHP  5.222 DPA   6.85 RAP 182.12 ECC 1.1880
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 9 0	1327.15	7.28	350.20	7.12	117.44	8 31 7	727.2	10.90	343.39
90.00	13 41 51	5495.08	28.30	254.51	12.29	89.06	15 13 26	4895.1	27.87	245.87
100.00	9 14 51	1114.61	6.00	333.88	6.42	119.34	9 33 26	514.6	9.86	327.22
100.00	15 18 40	5182.86	29.76	231.48	12.23	87.05	16 45 3	4582.9	29.03	222.75
110.00	9 50 51	1001.80	2.94	323.43	4.53	124.07	10 7 32	401.8	7.39	317.18
110.00	16 59 11	4868.43	33.34	207.20	11.82	81.96	18 20 19	4268.4	31.87	198.28

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE   .6611 TRA -.5817 TC3 1.2523 BAU  .1998   SGT 1761.3 SGR  318.6 SG3  454.8     ST  1165.4 SR   153.9 SS  1580.0
 RDE -.0883 RRA -.0648 RC3  .3775 FAU .07200   RRT  .3103 RRF -.3519 RTF -.9202     CRT -.8703 CRS -.9343 CST  .9880
 FDE-2.0494 FRA  .7804 FC3-5.4558 BSP   5729   SGB 1789.9 R23 -.0607 R13 -.9209     LSA 1963.0 MSA  157.2 SSA   14.2
 BDE  .6670 BRA  .5853 BC3 1.3079 FSP  -1340   SG1 1764.1 SG2  302.4 THA   3.31     EL1 1173.1 EL2   75.3 ALF 173.41
```

LAUNCH DATE JUN 1 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 1 1967

HELIOCENTRIC CONIC DISTANCE 319.556

```
RL  151.69 LAL    .00 LOL 249.83 VL  26.602 GAL    .85 AZL  93.79 HCA 137.02 SMA 127.35 ECC .19172 INC 3.7872 V1  29.371
RP  108.39 LAP  -2.58 LOP  26.92 VP  37.507 GAP  -7.02 AZP  87.23 TAL 176.39 TAP 313.41 RCA 102.93 APO 151.77 V2  34.964
RC   60.521 GL  -31.82 GP   4.30 ZAL  87.78 ZAP  27.78 ETS 351.02 ZAE 147.87 ETE  21.45 ZAC  85.07 ETC  13.17 CLP -27.47
```

PLANETOCENTRIC CONIC

```
C3  11.106 VHL  3.333 DLA -22.44 RAL 151.23 RAD 6567.4 VEL 11.511 PTH   2.00 VHP  4.917 DPA   7.18 RAP 182.57 ECC 1.1828
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 10 41	1296.25	8.25	348.44	5.66	117.19	8 32 18	696.3	11.83	341.59
90.00	13 29 33	5514.30	28.32	255.91	10.69	89.76	15 1 28	4914.3	27.98	247.26
100.00	9 15 38	1086.65	6.93	332.32	4.94	119.15	9 33 45	486.6	10.76	325.63
100.00	15 7 18	5199.14	29.81	232.69	10.65	87.68	16 33 57	4599.1	29.17	223.94
110.00	9 50 5	978.66	3.82	322.22	3.03	123.99	10 6 23	378.7	8.26	315.94
110.00	16 49 21	4879.89	33.44	208.08	10.29	82.47	18 10 41	4279.9	32.04	199.13

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE   .6588 TRA -.5464 TC3 1.2921 BAU  .2010   SGT 1748.6 SGR  314.4 SG3  510.0     ST  1173.3 SR   121.1 SS  1687.9
 RDE -.0674 RRA -.0617 RC3  .4034 FAU .07968   RRT  .3944 RRF -.4435 RTF -.9223     CRT -.8481 CRS -.9168 CST  .9884
 FDE-2.2957 FRA  .7852 FC3-6.2110 BSP   5718   SGB 1776.7 R23 -.0757 R13 -.9232     LSA 2053.3 MSA  155.7 SSA   13.4
 BDE  .6623 BRA  .5499 BC3 1.3536 FSP  -1517   SG1 1753.1 SG2  288.2 THA   4.17     EL1 1177.8 EL2   63.9 ALF 174.98
```

LAUNCH DATE JUN 1 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 3 1967

HELIOCENTRIC CONIC DISTANCE 326.163

```
RL  151.69 LAL    .00 LOL 249.83 VL  26.662 GAL    .74 AZL  93.84 HCA 140.22 SMA 127.75 ECC .18790 INC 3.8367 V1  29.371
RP  108.35 LAP  -2.45 LOP  30.12 VP  37.562 GAP  -6.43 AZP  87.05 TAL 176.78 TAP 317.00 RCA 103.74 APO 151.75 V2  34.977
RC   62.420 GL  -32.78 GP   4.88 ZAL  88.64 ZAP  30.94 ETS 351.03 ZAE 148.47 ETE  22.21 ZAC  84.86 ETC  13.11 CLP -30.59
```

PLANETOCENTRIC CONIC

```
C3  10.857 VHL  3.295 DLA -22.97 RAL 149.97 RAD 6567.4 VEL 11.500 PTH   2.00 VHP  4.631 DPA   7.68 RAP 182.88 ECC 1.1787
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 13 3	1265.31	9.20	346.67	4.35	116.90	8 34 8	665.3	12.74	339.78
90.00	13 17 9	5535.92	28.31	257.50	9.25	90.55	14 49 25	4935.9	28.09	248.84
100.00	9 16 58	1059.00	7.84	330.78	3.62	118.94	9 34 37	459.0	11.64	324.05
100.00	14 55 55	5217.46	29.85	234.05	9.24	88.40	16 22 52	4617.5	29.31	225.29
110.00	9 49 44	956.25	4.68	321.05	1.67	123.90	10 5 40	356.3	9.10	314.75
110.00	16 39 38	4892.97	33.55	209.08	8.91	83.05	18 1 11	4293.0	32.23	200.10

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE   .6510 TRA -.5136 TC3 1.2991 BAU  .1988   SGT 1719.0 SGR  316.8 SG3  571.5     ST  1169.1 SR    84.0 SS  1803.2
 RDE -.0440 RRA -.0592 RC3  .4345 FAU .08809   RRT  .4903 RRF -.5486 RTF -.9222     CRT -.7804 CRS -.8631 CST  .9884
 FDE-2.5775 FRA  .7910 FC3-7.0242 BSP   5638   SGB 1748.0 R23 -.0970 R13 -.9237     LSA 2145.0 MSA  155.3 SSA   12.6
 BDE  .6525 BRA  .5170 BC3 1.3698 FSP  -1715   SG1 1726.2 SG2  274.9 THA   5.30     EL1 1170.9 EL2   52.4 ALF 176.78
```

LAUNCH DATE JUN 1 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 5 1967

HELIOCENTRIC CONIC DISTANCE 332.752

RL	151.69	LAL	.00	LOL	249.83	VL	26.716	GAL	.65	AZL	93.89	HCA	143.41	SMA	128.10	ECC	.18451	INC	3.8932	V1	29.371
RP	108.31	LAP	-2.32	LOP	33.31	VP	37.613	GAP	-5.86	AZP	86.87	TAL	177.14	TAP	320.56	RCA	104.46	APO	151.74	V2	34.990
RC	64.367	GL	-33.73	GP	5.58	ZAL	89.42	ZAP	34.34	ETS	351.02	ZAE	149.31	ETE	23.47	ZAC	84.84	ETC	13.06	CLP	-33.94

PLANETOCENTRIC CONIC

C3	10.671	VHL	3.267	DLA	-23.53	RAL	148.78	RAD	6567.4	VEL	11.492	PTH	2.00	VHP	4.364	DPA	8.38	RAP	183.03	ECC	1.1756

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 16 21	1233.47	10.18	344.84	3.21	116.57	8 36 54	633.5	13.67	337.90
90.00	13 4 24	5560.74	28.28	259.31	7.98	91.46	14 37 5	4960.7	28.19	250.65
100.00	9 19 4	1031.00	8.76	329.21	2.46	118.69	9 36 15	431.0	12.53	322.44
100.00	14 44 22	5238.44	29.88	235.61	7.99	89.22	16 11 40	4638.4	29.45	226.83
110.00	9 49 58	934.11	5.51	319.88	.48	123.79	10 5 32	334.1	9.92	313.56
110.00	16 29 57	4908.09	33.67	210.24	7.71	83.73	17 51 45	4308.1	32.44	201.23

DIFFERENTIAL CORRECTIONS

TDE	.6378	TRA	-.4800	TC3	1.2813	BAU	.1949
RDE	-.0171	RRA	-.0574	RC3	.4729	FAU	.09745
FDE	-2.8988	FRA	.7920	FC3	-7.9059	BSP	5522
BDE	.6380	BRA	.4834	BC3	1.3658	FSP	-1938

MID-COURSE EXECUTION ACCURACY

SGT	1671.9	SGR	329.2	SG3	639.7		
RRT	.5918	RRF	-.6601	RTF	-.9211		
SGB	1704.0	R23	-.1254	R13	-.9236		
SG1	1683.5	SG2	263.6	THA	6.82		

ORBIT DETERMINATION ACCURACY

ST	1152.3	SR	45.5	SS	1925.6
CRT	-.4637	CRS	-.5868	CST	.9884
LSA	2239.2	MSA	154.8	SSA	11.7
EL1	1152.5	EL2	40.3	ALF	178.95

LAUNCH DATE JUN 1 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 7 1967

HELIOCENTRIC CONIC DISTANCE 339.323

RL	151.69	LAL	.00	LOL	249.83	VL	26.764	GAL	.56	AZL	93.96	HCA	146.61	SMA	128.42	ECC	.18154	INC	3.9591	V1	29.371
RP	108.27	LAP	-2.18	LOP	36.51	VP	37.659	GAP	-5.30	AZP	86.69	TAL	177.47	TAP	324.08	RCA	105.10	APO	151.73	V2	35.003
RC	66.356	GL	-34.68	GP	6.42	ZAL	90.10	ZAP	38.00	ETS	350.97	ZAE	150.37	ETE	25.39	ZAC	85.02	ETC	13.05	CLP	-37.53

PLANETOCENTRIC CONIC

C3	10.549	VHL	3.248	DLA	-24.11	RAL	147.68	RAD	6567.4	VEL	11.486	PTH	2.00	VHP	4.117	DPA	9.30	RAP	183.02	ECC	1.1736

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 20 58	1199.54	11.21	342.87	2.26	116.18	8 40 57	599.5	14.64	335.87
90.00	12 50 58	5589.97	28.21	261.45	6.87	92.53	14 24 8	4990.0	28.27	252.78
100.00	9 22 14	1001.75	9.71	327.56	1.48	118.41	9 38 56	401.7	13.43	320.74
100.00	14 32 23	5263.00	29.89	237.43	6.91	90.18	16 0 6	4663.0	29.60	228.64
110.00	9 50 58	911.65	6.36	318.70	359.45	123.66	10 6 9	311.7	10.74	312.34
110.00	16 20 9	4925.86	33.80	211.62	6.70	84.53	17 42 15	4325.9	32.67	202.56

DIFFERENTIAL CORRECTIONS

TDE	.6161	TRA	-.4502	TC3	1.2277	BAU	.1881
RDE	.0145	RRA	-.0564	RC3	.5211	FAU	.10770
FDE	-3.2618	FRA	.7975	FC3	-8.8393	BSP	5313
BDE	.6163	BRA	.4537	BC3	1.3337	FSP	-2180

MID-COURSE EXECUTION ACCURACY

SGT	1604.5	SGR	356.5	SG3	714.8		
RRT	.6861	RRF	-.7656	RTF	-.9171		
SGB	1643.6	R23	-.1648	R13	-.9214		
SG1	1623.5	SG2	256.3	THA	8.89		

ORBIT DETERMINATION ACCURACY

ST	1118.0	SR	42.7	SS	2054.4
CRT	.7650	CRS	.6640	CST	.9879
LSA	2334.2	MSA	155.3	SSA	10.7
EL1	1118.5	EL2	27.5	ALF	1.67

LAUNCH DATE JUN 1 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 9 1967

HELIOCENTRIC CONIC DISTANCE 345.875

RL	151.69	LAL	.00	LOL	249.83	VL	26.805	GAL	.49	AZL	94.04	HCA	149.82	SMA	128.69	ECC	.17894	INC	4.0372	V1	29.371
RP	108.22	LAP	-2.03	LOP	39.71	VP	37.700	GAP	-4.77	AZP	86.51	TAL	177.75	TAP	327.57	RCA	105.66	APO	151.72	V2	35.016
RC	68.382	GL	-35.64	GP	7.45	ZAL	90.69	ZAP	41.94	ETS	350.92	ZAE	151.62	ETE	28.18	ZAC	85.41	ETC	13.06	CLP	-41.39

PLANETOCENTRIC CONIC

C3	10.490	VHL	3.239	DLA	-24.75	RAL	146.66	RAD	6567.4	VEL	11.484	PTH	2.00	VHP	3.892	DPA	10.52	RAP	182.85	ECC	1.1726

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 27 28	1161.69	12.33	340.67	1.53	115.69	8 46 50	561.7	15.69	333.60
90.00	12 36 18	5625.55	28.08	264.04	5.93	93.83	14 10 4	5025.6	28.31	255.38
100.00	9 26 52	969.96	10.74	325.75	.70	118.07	9 43 1	370.0	14.41	318.89
100.00	14 19 36	5292.52	29.87	239.63	6.02	91.33	15 47 48	4692.5	29.73	230.83
110.00	9 52 57	888.11	7.25	317.45	358.60	123.50	10 7 45	288.1	11.61	311.06
110.00	16 9 59	4947.14	33.92	213.27	5.89	85.50	17 32 27	4347.1	32.93	204.17

DIFFERENTIAL CORRECTIONS

TDE	.5859	TRA	-.4214	TC3	1.1331	BAU	.1786
RDE	.0527	RRA	-.0560	RC3	.5811	FAU	.11852
FDE	-3.6724	FRA	.7982	FC3	-9.7811	BSP	5024
BDE	.5882	BRA	.4251	BC3	1.2734	FSP	-2439

MID-COURSE EXECUTION ACCURACY

SGT	1512.2	SGR	402.8	SG3	795.5		
RRT	.7591	RRF	-.8520	RTF	-.9093		
SGB	1564.9	R23	-.2168	R13	-.9174		
SG1	1543.7	SG2	256.9	THA	11.76		

ORBIT DETERMINATION ACCURACY

ST	1065.5	SR	99.4	SS	2190.9
CRT	.9902	CRS	.9615	CST	.9869
LSA	2433.3	MSA	156.3	SSA	9.7
EL1	1070.1	EL2	13.8	ALF	5.28

LAUNCH DATE JUN 1 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 11 1967

HELIOCENTRIC CONIC DISTANCE 352.408

RL	151.69	LAL	.00	LOL	249.83	VL	26.841	GAL	.43	AZL	94.13	HCA	153.02	SMA	128.93	ECC	.17670	INC	4.1320	V1	29.371
RP	108.18	LAP	-1.87	LOP	42.91	VP	37.738	GAP	-4.24	AZP	86.32	TAL	177.99	TAP	331.01	RCA	106.15	APO	151.71	V2	35.029
RC	70.443	GL	-36.64	GP	8.73	ZAL	91.17	ZAP	46.18	ETS	350.86	ZAE	152.96	ETE	32.13	ZAC	86.00	ETC	13.14	CLP	-45.54

PLANETOCENTRIC CONIC

C3	10.500	VHL	3.240	DLA	-25.46	RAL	145.71	RAD	6567.4	VEL	11.484	PTH	2.00	VHP	3.689	DPA	12.07	RAP	182.54	ECC	1.1728

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 36 47	1116.95	13.64	338.03	1.04	115.06	8 55 24	516.9	16.90	330.87
90.00	12 19 24	5670.70	27.83	267.32	5.17	95.45	13 53 55	5070.7	28.29	258.69
100.00	9 33 32	933.72	11.89	323.68	.15	117.63	9 49 6	333.7	15.50	316.75
100.00	14 5 21	5329.16	29.78	242.35	5.33	92.76	15 34 10	4729.2	29.84	233.55
110.00	9 56 15	862.45	8.21	316.09	357.96	123.30	10 10 37	262.5	12.54	309.66
110.00	15 59 7	4973.19	34.04	215.29	5.30	86.70	17 22 0	4373.2	33.21	206.15

DIFFERENTIAL CORRECTIONS

TDE	.5465	TRA	-.3919	TC3	1.0026	BAU	.1683
RDE	.1000	RRA	-.0561	RC3	.6570	FAU	.12994
FDE	-4.1329	FRA	.7856	FC	-10.7134	BSP	4713
BDE	.5553	BRA	.3959	BC3	1.1987	FSP	-2722

MID-COURSE EXECUTION ACCURACY

SGT	1394.3	SGR	474.0	SG3	881.0		
RRT	.8048	RRF	-.9141	RTF	-.8968		
SGB	1472.7	R23	-.2760	R13	-.9128		
SG1	1447.5	SG2	271.0	THA	15.87		

ORBIT DETERMINATION ACCURACY

ST	993.1	SR	180.4	SS	2334.7
CRT	.9975	CRS	.9918	CST	.9854
LSA	2538.7	MSA	156.8	SSA	8.7
EL1	1009.3	EL2	12.7	ALF	10.27

LAUNCH DATE JUN 1 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 13 1967

DISTANCE 358.922

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.871 GAL .39 AZL 94.25 HCA 156.23 SMA 129.14 ECC .17480 INC 4.2503 V1 29.371
RP 108.14 LAP -1.71 LOP 46.12 VP 37.772 GAP -3.73 AZP 86.11 TAL 178.18 TAP 334.41 RCA 106.56 APO 151.71 V2 35.042
RC 72.534 GL -37.73 GP 10.36 ZAL 91.54 ZAP 50.75 ETS 350.82 ZAE 154.24 ETE 37.64 ZAC 86.79 ETC 13.29 CLP -49.97

PLANETOCENTRIC CONIC
C3 10.592 VHL 3.255 DLA -26.29 RAL 144.82 RAD 6567.4 VEL 11.488 PTH 2.00 VHP 3.512 DPA 14.05 RAP 182.10 ECC 1.1743

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 50 46	1059.38	15.27	334.59	.87	114.14	9 8 26	459.4	18.40	327.31
90.00	11 58 20	5731.80	27.36	271.73	4.55	97.61	13 33 52	5131.8	28.13	263.15
100.00	9 43 17	889.78	13.26	321.14	359.87	117.04	9 58 7	289.8	16.78	314.12
100.00	13 48 31	5376.63	29.57	245.86	4.82	94.60	15 18 7	4776.6	29.89	237.07
110.00	10 1 20	833.16	9.30	314.52	357.54	123.04	10 15 13	233.2	13.59	308.04
110.00	15 46 58	5006.01	34.14	217.85	4.95	88.21	17 10 24	4406.0	33.52	208.66

DIFFERENTIAL CORRECTIONS
TDE .4958 TRA -.3660 TC3 .8436 BAU .1603
RDE .1606 RRA -.0573 RC3 .7547 FAU .14207
FDE-4.6454 FRA .7727 FC-11.6122 BSP 4401
BDE .5211 BRA .3705 BC3 1.1319 FSP -3029

MID-COURSE EXECUTION ACCURACY
SGT 1256.9 SGR 577.9 SG3 971.1
RRT .8225 RRF -.9541 RTF -.8763
SGB 1383.4 R23 -.3289 R13 -.9099
SG1 1349.1 SG2 306.2 THA 21.90

ORBIT DETERMINATION ACCURACY
ST 899.2 SR 285.2 SS 2486.1
CRT .9918 CRS .9977 CST .9826
LSA 2654.3 MSA 157.7 SSA 7.7
EL1 942.7 EL2 34.7 ALF 17.49

LAUNCH DATE JUN 1 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 15 1967

DISTANCE 365.417

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.897 GAL .35 AZL 94.40 HCA 159.43 SMA 129.31 ECC .17320 INC 4.4031 V1 29.371
RP 108.10 LAP -1.55 LOP 49.33 VP 37.803 GAP -3.23 AZP 85.88 TAL 178.32 TAP 337.75 RCA 106.91 APO 151.71 V2 35.056
RC 74.652 GL -38.95 GP 12.46 ZAL 91.79 ZAP 55.65 ETS 350.81 ZAE 155.16 ETE 45.10 ZAC 87.73 ETC 13.57 CLP -54.70

PLANETOCENTRIC CONIC
C3 10.789 VHL 3.285 DLA -27.29 RAL 143.97 RAD 6567.4 VEL 11.497 PTH 2.00 VHP 3.364 DPA 16.58 RAP 181.61 ECC 1.1776

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 14 25	973.06	17.60	329.32	1.17	112.55	9 30 38	373.1	20.51	321.85
90.00	11 27 54	5825.62	26.33	278.40	3.99	100.81	13 5 0	5225.6	27.56	269.95
100.00	9 58 12	831.61	15.04	317.73	359.96	116.14	10 12 3	231.6	18.43	310.58
100.00	13 26 49	5442.30	29.11	250.69	4.48	97.10	14 57 31	4842.3	29.79	241.95
110.00	10 8 58	797.78	10.61	312.61	357.40	122.69	10 22 16	197.8	14.85	306.07
110.00	15 32 32	5048.90	34.18	221.20	4.86	90.19	16 56 41	4448.9	33.83	211.97

DIFFERENTIAL CORRECTIONS
TDE .4278 TRA -.3434 TC3 .6222 BAU .1543
RDE .2397 RRA -.0594 RC3 .8702 FAU .15208
FDE-5.1857 FRA .7502 FC-12.2035 BSP 4004
BDE .4904 BRA .3485 BC3 1.0698 FSP -3276

MID-COURSE EXECUTION ACCURACY
SGT 1085.5 SGR 717.8 SG3 1052.0
RRT .8013 RRF -.9767 RTF -.8338
SGB 1301.3 R23 -.3597 R13 -.9121
SG1 1246.4 SG2 374.0 THA 31.01

ORBIT DETERMINATION ACCURACY
ST 773.3 SR 419.9 SS 2632.8
CRT .9834 CRS .9993 CST .9768
LSA 2771.4 MSA 159.5 SSA 6.6
EL1 877.4 EL2 67.2 ALF 28.28

LAUNCH DATE JUN 1 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 17 1967

DISTANCE 371.892

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.918 GAL .33 AZL 94.61 HCA 162.65 SMA 129.45 ECC .17189 INC 4.6099 V1 29.371
RP 108.06 LAP -1.37 LOP 52.53 VP 37.830 GAP -2.75 AZP 85.60 TAL 178.40 TAP 341.04 RCA 107.20 APO 151.71 V2 35.069
RC 76.795 GL -40.41 GP 15.25 ZAL 91.92 ZAP 60.89 ETS 350.87 ZAE 155.25 ETE 54.69 ZAC 88.74 ETC 14.01 CLP -59.71

PLANETOCENTRIC CONIC
C3 11.139 VHL 3.338 DLA -28.55 RAL 143.11 RAD 6567.4 VEL 11.512 PTH 2.01 VHP 3.251 DPA 19.85 RAP 181.19 ECC 1.1833

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
86.21	9 45 56	864.86	22.73	323.43	2.72	107.75	10 0 21	264.9	24.95	315.44
93.79	10 49 32	658.87	22.75	308.35	2.72	107.73	11 0 31	58.9	24.96	300.36
100.00	10 23 55	741.54	17.66	312.33	.63	114.52	10 36 17	141.5	20.82	304.96
100.00	12 54 14	5545.46	28.01	258.16	4.21	100.88	14 26 39	4945.5	29.23	249.57
110.00	10 20 39	751.84	12.29	310.11	357.63	122.15	10 33 11	151.8	16.45	303.47
110.00	15 14 0	5107.93	34.07	225.81	5.07	92.91	16 39 8	4507.9	34.10	216.56

DIFFERENTIAL CORRECTIONS
TDE .3440 TRA -.3241 TC3 .3829 BAU .1618
RDE .3481 RRA -.0625 RC3 1.0172 FAU .16114
FDE-5.7523 FRA .7099 FC-12.5242 BSP 3883
BDE .4894 BRA .3301 BC3 1.0868 FSP -3539

MID-COURSE EXECUTION ACCURACY
SGT 902.9 SGR 912.7 SG3 1124.3
RRT .7326 RRF -.9891 RTF -.7530
SGB 1283.8 R23 -.3182 R13 -.9374
SG1 1194.9 SG2 469.4 THA 45.42

ORBIT DETERMINATION ACCURACY
ST 620.3 SR 599.1 SS 2777.4
CRT .9687 CRS .9998 CST .9639
LSA 2903.7 MSA 161.5 SSA 5.6
EL1 855.6 EL2 107.9 ALF 43.97

LAUNCH DATE JUN 1 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 19 1967

DISTANCE 378.347

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.935 GAL .33 AZL 94.91 HCA 165.86 SMA 129.57 ECC .17085 INC 4.9076 V1 29.371
RP 108.02 LAP -1.20 LOP 55.74 VP 37.854 GAP -2.28 AZP 85.24 TAL 178.42 TAP 344.28 RCA 107.43 APO 151.71 V2 35.082
RC 78.958 GL -42.26 GP 19.14 ZAL 91.93 ZAP 66.45 ETS 351.02 ZAE 153.78 ETE 65.81 ZAC 89.65 ETC 14.67 CLP -64.98

PLANETOCENTRIC CONIC
C3 11.742 VHL 3.427 DLA -30.20 RAL 142.15 RAD 6567.4 VEL 11.538 PTH 2.01 VHP 3.187 DPA 24.21 RAP 181.09 ECC 1.1932

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.04	8 45 16	1058.51	23.76	338.10	2.99	109.21	9 2 54	458.5	26.16	330.10
100.96	11 42 34	5775.17	23.77	273.95	3.00	109.20	13 18 49	5175.2	26.17	265.95
79.04	8 45 16	1058.51	23.76	338.10	2.99	109.21	9 2 54	458.5	26.16	330.10
100.96	11 42 34	5775.17	23.77	273.95	3.00	109.20	13 18 49	5175.2	26.17	265.95
110.00	10 39 44	685.43	14.66	306.43	358.46	121.23	10 51 9	85.4	18.69	299.63
110.00	14 47 17	5196.25	33.56	232.65	5.58	96.93	16 13 53	4596.2	34.15	223.46

DIFFERENTIAL CORRECTIONS
TDE .2467 TRA -.3064 TC3 .1237 BAU .1884
RDE .5098 RRA -.0632 RC3 1.1939 FAU .16624
FDE-6.3607 FRA .6069 FC-12.2568 BSP 4164
BDE .5663 BRA .3128 BC3 1.2003 FSP -3722

MID-COURSE EXECUTION ACCURACY
SGT 727.0 SGR 1187.8 SG3 1175.3
RRT .5712 RRF -.9953 RTF -.5859
SGB 1392.6 R23 -.1691 R13 -.9810
SG1 1277.3 SG2 554.9 THA 65.90

ORBIT DETERMINATION ACCURACY
ST 449.1 SR 853.5 SS 2931.3
CRT .9342 CRS .9999 CST .9308
LSA 3081.6 MSA 162.6 SSA 4.5
EL1 953.7 EL2 143.4 ALF 63.17

LAUNCH DATE JUN 1 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 21 1967

HELIOCENTRIC CONIC DISTANCE 384.782

RL 151.69 LAL .00 LOL 249.83 VL 26.948 GAL .33 AZL 95.38 HCA 169.07 SMA 129.66 ECC .17006 INC 5.3762 V1 29.371
RP 107.98 LAP -1.02 LOP 58.96 VP 37.875 GAP -1.81 AZP 84.72 TAL 178.39 TAP 347.46 RCA 107.61 APO 151.71 V2 35.094
RC 81.139 GL -44.80 GP 24.90 ZAL 91.80 ZAP 72.33 ETS 351.36 ZAE 149.69 ETE 76.88 ZAC 90.14 ETC 15.65 CLP -70.45

PLANETOCENTRIC CONIC

C3 12.842 VHL 3.584 DLA -32.51 RAL 140.92 RAD 6567.5 VEL 11.586 PTH 2.03 VHP 3.203 DPA 30.29 RAP 181.86 ECC 1.2114

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.32	8 0 9	1204.07	25.03	349.60	3.80	111.46	8 20 13	604.1	27.72	341.61
106.68	12 17 53	5667.60	25.04	266.35	3.80	111.44	13 52 21	5067.6	27.73	258.35
73.32	8 0 9	1204.07	25.03	349.60	3.80	111.46	8 20 13	604.1	27.72	341.61
106.68	12 17 53	5667.60	25.04	266.35	3.80	111.44	13 52 21	5067.6	27.73	258.35
110.00	11 18 0	5852.58	18.80	277.42	.63	119.09	12 55 33	5252.6	22.53	270.27
110.00	13 59 12	5355.13	31.61	244.62	6.16	103.75	15 28 27	4755.1	33.17	235.74

DIFFERENTIAL CORRECTIONS
TDE .1213 TRA -.3002 TC3 -.1381 BAU .2383
RDE .7641 RRA -.0628 RC3 1.3813 FAU .16218
FDE-6.8661 FRA .4740 FC-10.9329 BSP 5068
BDE .7736 BRA .3067 BC3 1.3882 FSP -3698

MID-COURSE EXECUTION ACCURACY
SGT 609.3 SGR 1576.9 SG3 1167.9
RRT .2151 RRF -.9981 RTF -.2264
SGB 1690.5 R23 -.0242 R13 -.9979
SG1 1583.2 SG2 592.7 THA 84.47

ORBIT DETERMINATION ACCURACY
ST 258.4 SR 1222.5 SS 3039.9
CRT .7690 CRS 1.0000 CST .7661
LSA 3282.5 MSA 165.7 SSA 3.5
EL1 1238.8 EL2 163.0 ALF 80.60

LAUNCH DATE JUN 1 1967 FLIGHT TIME 144.00 ARRIVAL DATE OCT 23 1967

HELIOCENTRIC CONIC DISTANCE 391.196

RL 151.69 LAL .00 LOL 249.83 VL 26.957 GAL .35 AZL 96.23 HCA 172.29 SMA 129.72 ECC .16950 INC 6.2307 V1 29.371
RP 107.94 LAP -.83 LOP 62.17 VP 37.893 GAP -1.36 AZP 83.83 TAL 178.29 TAP 350.58 RCA 107.73 APO 151.71 V2 35.107
RC 83.336 GL -48.66 GP 34.14 ZAL 91.53 ZAP 78.48 ETS 352.07 ZAE 141.31 ETE 85.99 ZAC 89.51 ETC 16.95 CLP -76.03

PLANETOCENTRIC CONIC

C3 15.188 VHL 3.897 DLA -36.04 RAL 139.01 RAD 6567.6 VEL 11.686 PTH 2.06 VHP 3.397 DPA 39.40 RAP 185.02 ECC 1.2499

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.71	7 12 54	1361.58	26.54	2.63	5.64	115.33	7 35 35	761.6	29.72	354.72
113.29	12 49 52	5583.73	26.55	260.53	5.64	115.31	14 22 56	4983.7	29.73	252.61
66.71	7 12 54	1361.58	26.54	2.63	5.64	115.33	7 35 35	761.6	29.72	354.72
113.29	12 49 52	5583.73	26.55	260.53	5.64	115.31	14 22 56	4983.7	29.73	252.61
66.71	7 12 54	1361.58	26.54	2.63	5.64	115.33	7 35 35	761.6	29.72	354.72
113.29	12 49 52	5583.73	26.55	260.53	5.64	115.31	14 22 56	4983.7	29.73	252.61

DIFFERENTIAL CORRECTIONS
TDE -.0360 TRA -.3103 TC3 -.3376 BAU .3189
RDE 1.2325 RRA -.0411 RC3 1.5340 FAU .14290
FDE-7.1013 FRA .2050 FC3-8.1469 BSP 6960
BDE 1.2331 BRA .3130 BC3 1.5707 FSP -3365

MID-COURSE EXECUTION ACCURACY
SGT 624.8 SGR 2172.3 SG3 1056.3
RRT -.2714 RRF -.9993 RTF .2636
SGB 2260.4 R23 .0311 R13 -.9989
SG1 2179.4 SG2 599.4 THA 94.83

ORBIT DETERMINATION ACCURACY
ST 177.5 SR 1812.7 SS 3064.8
CRT -.2875 CRS 1.0000 CST -.2890
LSA 3561.1 MSA 170.0 SSA 2.5
EL1 1813.4 EL2 170.0 ALF 91.63

LAUNCH DATE JUN 1 1967 FLIGHT TIME 146.00 ARRIVAL DATE OCT 25 1967

HELIOCENTRIC CONIC DISTANCE 397.585

RL 151.69 LAL .00 LOL 249.83 VL 26.963 GAL .38 AZL 98.30 HCA 175.50 SMA 129.76 ECC .16916 INC 8.2975 V1 29.371
RP 107.91 LAP -.65 LOP 65.39 VP 37.909 GAP -.92 AZP 81.73 TAL 178.13 TAP 353.64 RCA 107.81 APO 151.71 V2 35.119
RC 85.546 GL -55.34 GP 50.69 ZAL 91.08 ZAP 84.68 ETS 353.73 ZAE 125.08 ETE 92.08 ZAC 86.18 ETC 18.16 CLP -81.58

PLANETOCENTRIC CONIC

C3 22.383 VHL 4.731 DLA -42.04 RAL 135.21 RAD 6567.9 VEL 11.990 PTH 2.14 VHP 4.219 DPA 53.99 RAP 196.82 ECC 1.3684

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.53	6 13 33	1579.10	27.31	21.23	10.26	123.30	6 39 52	979.1	31.48	13.80
122.47	13 18 54	5547.82	27.32	258.02	10.27	123.29	14 51 22	4947.8	31.49	250.60
57.53	6 13 33	1579.10	27.31	21.23	10.26	123.30	6 39 52	979.1	31.48	13.80
122.47	13 18 54	5547.82	27.32	258.02	10.27	123.29	14 51 22	4947.8	31.49	250.60
57.53	6 13 33	1579.10	27.31	21.23	10.26	123.30	6 39 52	979.1	31.48	13.80
122.47	13 18 54	5547.82	27.32	258.02	10.27	123.29	14 51 22	4947.8	31.49	250.60

DIFFERENTIAL CORRECTIONS
TDE -.2428 TRA -.3715 TC3 -.3641 BAU .4187
RDE 2.3112 RRA .0738 RC3 1.3511 FAU .08959
FDE-6.2848 FRA -.1995 FC3-3.4653 BSP 9938
BDE 2.3239 BRA .3788 BC3 1.3993 FSP -2269

MID-COURSE EXECUTION ACCURACY
SGT 756.4 SGR 3079.4 SG3 716.6
RRT -.5737 RRF -.9998 RTF .5682
SGB 3171.0 R23 .0354 R13 -.9992
SG1 3111.1 SG2 613.2 THA 98.35

ORBIT DETERMINATION ACCURACY
ST 345.8 SR 2799.4 SS 2775.2
CRT -.8573 CRS 1.0000 CST -.8572
LSA 3953.1 MSA 177.5 SSA 1.6
EL1 2815.2 EL2 177.0 ALF 96.07

LAUNCH DATE JUN 1 1967 FLIGHT TIME 148.00 ARRIVAL DATE OCT 27 1967

HELIOCENTRIC CONIC DISTANCE 403.924

RL 151.69 LAL .00 LOL 249.83 VL 26.966 GAL .43 AZL 110.49 HCA 178.69 SMA 129.78 ECC .16904 INC20.4843 V1 29.371
RP 107.87 LAP -.46 LOP 68.60 VP 37.922 GAP -.50 AZP 69.51 TAL 177.87 TAP 356.56 RCA 107.84 APO 151.72 V2 35.131
RC 87.767 GL -66.47 GP 84.29 ZAL 90.36 ZAP 89.40 ETS 356.44 ZAE 91.75 ETE 94.83 ZAC 76.90 ETC 14.57 CLP -83.90

PLANETOCENTRIC CONIC

C3 105.985 VHL 10.295 DLA -51.64 RAL 126.89 RAD 6570.0 VEL 15.077 PTH 2.71 VHP 11.220 DPA 67.17 RAP 264.30 ECC 2.7442

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
44.83	4 54 40	2070.55	13.76	54.38	25.70	140.28	5 29 11	1470.5	19.85	49.37
135.17	13 31 24	5807.93	13.78	269.25	25.71	140.28	15 8 12	5207.9	19.86	264.24
44.83	4 54 40	2070.55	13.76	54.38	25.70	140.28	5 29 11	1470.5	19.85	49.37
135.17	13 31 24	5807.93	13.78	269.25	25.71	140.28	15 8 12	5207.9	19.86	264.24
44.83	4 54 40	2070.55	13.76	54.38	25.70	140.28	5 29 11	1470.5	19.85	49.37
135.17	13 31 24	5807.93	13.78	269.25	25.71	140.28	15 8 12	5207.9	19.86	264.24

DIFFERENTIAL CORRECTIONS
TDE 2.8833 TRA -.7562 TC3 -.0114 BAU .0269
RDE 6.3525 RRA .7131 RC3 .0151 FAU .00017
FDE-3.0610 FRA -.2659 FC3 -.0014 BSP 7670
BDE 6.9762 BRA 1.0394 BC3 .0190 FSP -281

MID-COURSE EXECUTION ACCURACY
SGT 1742.2 SGR 3593.0 SG3 148.6
RRT .8369 RRF -.9992 RTF -.8582
SGB 3993.1 R23 -.0570 R13 -.9984
SG1 3895.0 SG2 879.6 THA 66.65

ORBIT DETERMINATION ACCURACY
ST 1617.5 SR 3540.7 SS 1652.9
CRT .9838 CRS .9999 CST .9859
LSA 4220.7 MSA 266.0 SSA .5
EL1 3883.6 EL2 264.5 ALF 65.68

LAUNCH DATE JUN 1 1967 FLIGHT TIME 150.00 ARRIVAL DATE OCT 29 1967

DISTANCE 410.387

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.965 GAL .47 AZL 82.26 HCA 182.01 SMA 129.78 ECC .16908 INC 7.7274 V1 29.371
RP 107.83 LAP -.27 LOP 71.82 VP 37.932 GAP -.04 AZP 97.73 TAL 177.71 TAP 359.72 RCA 107.83 APO 151.72 V2 35.143
RC 89.996 GL 53.86 GP -74.07 ZAL 90.62 ZAP 91.33 ETS 357.00 ZAE 109.28 ETE 259.14 ZAC 108.69 ETC 347.79 CLP -94.87

PLANETOCENTRIC CONIC
C3 20.199 VHL 4.494 DLA 55.67 RAL 192.86 RAD 6567.8 VEL 11.899 PTH 2.11 VHP 7.604 DPA -54.88 RAP 122.29 ECC 1.3324

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
39.83	21 1 23	4345.72	-35.69	210.34	73.51	43.97	22 13 49	3745.7	-41.23	203.38
140.17	6 11 1	2731.79	-35.68	80.27	73.49	43.96	6 56 33	2131.8	-41.22	73.31
39.83	21 1 23	4345.72	-35.69	210.34	73.51	43.97	22 13 49	3745.7	-41.23	203.38
140.17	6 11 1	2731.79	-35.68	80.27	73.49	43.96	6 56 33	2131.8	-41.22	73.31
39.83	21 1 23	4345.72	-35.69	210.34	73.51	43.97	22 13 49	3745.7	-41.23	203.38
140.17	6 11 1	2731.79	-35.68	80.27	73.49	43.96	6 56 33	2131.8	-41.22	73.31

DIFFERENTIAL CORRECTIONS
TDE .8740 TRA .5445 TC3 -.7171 BAU .4822
RDE 1.0245 RRA 1.5399 RC3-1.6353 FAU .03016
FDE .7922 FRA 1.1948 FC3-1.2927 BSP 10192
BDE 1.3466 BRA 1.6333 BC3 1.7856 FSP -655

MID-COURSE EXECUTION ACCURACY
SGT 1781.2 SGR 3998.3 SG3 268.6
RRT .9392 RRF 1.0000 RTF .9389
SGB 4377.1 R23 .0560 R13 .9984
SG1 4340.7 SG2 563.3 THA 66.88

ORBIT DETERMINATION ACCURACY
ST 1174.0 SR 1672.9 SS 851.1
CRT .9378 CRS-1.0000 CST -.9372
LSA 2186.0 MSA 350.2 SSA .4
EL1 2015.6 EL2 338.2 ALF 55.54

LAUNCH DATE JUN 1 1967 FLIGHT TIME 152.00 ARRIVAL DATE OCT 31 1967

DISTANCE 416.700

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.962 GAL .54 AZL 89.13 HCA 185.21 SMA 129.75 ECC .16934 INC .8647 V1 29.371
RP 107.80 LAP -.08 LOP 75.05 VP 37.940 GAP .37 AZP 90.87 TAL 177.36 TAP 2.57 RCA 107.78 APO 151.73 V2 35.154
RC 92.232 GL 9.67 GP -46.06 ZAL 90.35 ZAP 96.50 ETS 354.06 ZAE 135.45 ETE 249.27 ZAC 113.84 ETC 356.76 CLP -99.40

PLANETOCENTRIC CONIC
C3 5.984 VHL 2.446 DLA 16.95 RAL 164.84 RAD 6567.2 VEL 11.286 PTH 1.94 VHP 3.916 DPA -30.32 RAP 141.16 ECC 1.0985

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 27 59	2525.36	-25.70	62.16	13.64	102.33	4 10 4	1925.4	-23.74	54.03
90.00	20 0 52	4055.14	-4.62	163.89	10.66	62.03	21 8 27	3455.1	-8.33	157.17
100.00	4 59 0	2231.80	-26.60	40.33	13.40	104.17	5 36 12	1631.8	-24.39	32.23
100.00	21 12 31	3823.92	-3.81	146.44	10.21	60.33	22 16 15	3223.9	-7.73	139.85
110.00	6 28 37	1951.44	-28.92	18.25	12.62	109.07	7 1 8	1351.4	-26.05	10.25
110.00	21 59 24	3677.05	-1.75	134.02	8.93	55.86	23 0 41	3077.0	-6.22	127.78

DIFFERENTIAL CORRECTIONS
TDE .1066 TRA .1710 TC3-3.6790 BAU .5029
RDE -.0015 RRA .5742 RC3-5.0962 FAU .11677
FDE -.0665 FRA 1.8675 FC-16.8933 BSP 10239
BDE .1066 BRA .5991 BC3 6.2854 FSP -2538

MID-COURSE EXECUTION ACCURACY
SGT 1864.8 SGR 2862.4 SG3 816.2
RRT .9509 RRF .9999 RTF .9509
SGB 3416.3 R23 .0912 R13 .9957
SG1 3381.1 SG2 488.7 THA 57.46

ORBIT DETERMINATION ACCURACY
ST 284.6 SR 428.4 SS 474.7
CRT .4603 CRS -.9947 CST -.3678
LSA 651.1 MSA 256.6 SSA 4.9
EL1 456.3 EL2 237.1 ALF 66.21

LAUNCH DATE JUN 1 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 2 1967

DISTANCE 423.015

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.957 GAL .62 AZL 90.76 HCA 188.44 SMA 129.72 ECC .16976 INC .7613 V1 29.371
RP 107.77 LAP .11 LOP 78.27 VP 37.946 GAP .78 AZP 89.25 TAL 176.97 TAP 5.41 RCA 107.70 APO 151.74 V2 35.165
RC 94.474 GL -8.44 GP -31.70 ZAL 89.46 ZAP 102.31 ETS 353.10 ZAE 146.53 ETE 235.27 ZAC 115.67 ETC 2.20 CLP-104.51

PLANETOCENTRIC CONIC
C3 5.970 VHL 2.443 DLA -.15 RAL 158.71 RAD 6567.2 VEL 11.286 PTH 1.94 VHP 3.324 DPA -16.48 RAP 145.68 ECC 1.0983

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 22 1	1963.32	-12.79	26.16	3.89	115.48	5 54 44	1363.3	-9.25	19.27
90.00	17 17 53	4616.39	13.05	195.65	3.92	64.65	18 34 50	4016.4	9.53	188.74
100.00	6 43 18	1701.16	-13.45	6.55	3.55	116.95	7 11 39	1101.2	-9.73	359.73
100.00	18 39 18	4353.79	13.72	176.00	3.58	63.18	19 51 52	3753.8	10.01	169.18
110.00	7 51 23	1488.02	-15.22	349.36	2.54	120.98	8 16 11	888.0	-11.00	342.80
110.00	19 47 42	4139.68	15.49	158.74	2.57	59.14	20 56 42	3539.7	11.28	152.16

DIFFERENTIAL CORRECTIONS
TDE -.2053 TRA .1225 TC3-4.4110 BAU .4615
RDE -.2453 RRA .3412 RC3-3.7379 FAU .16001
FDE-1.6807 FRA 2.0592 FC-23.2036 BSP 9201
BDE .3198 BRA .3626 BC3 5.7818 FSP -3556

MID-COURSE EXECUTION ACCURACY
SGT 2227.3 SGR 2075.5 SG3 1117.9
RRT .9614 RRF .9995 RTF .9621
SGB 3044.4 R23 .1448 R13 .9890
SG1 3015.0 SG2 422.0 THA 42.90

ORBIT DETERMINATION ACCURACY
ST 493.3 SR 625.6 SS 1209.9
CRT .9756 CRS -.9991 CST -.9836
LSA 1445.8 MSA 90.3 SSA 9.8
EL1 792.1 EL2 85.5 ALF 51.91

LAUNCH DATE JUN 1 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 4 1967

DISTANCE 429.314

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.949 GAL .71 AZL 91.50 HCA 191.66 SMA 129.66 ECC .17036 INC 1.4968 V1 29.371
RP 107.73 LAP .30 LOP 81.50 VP 37.950 GAP 1.19 AZP 88.53 TAL 176.54 TAP 8.20 RCA 107.57 APO 151.75 V2 35.175
RC 96.719 GL -16.15 GP -23.52 ZAL 88.50 ZAP 107.78 ETS 352.87 ZAE 150.21 ETE 221.01 ZAC 116.76 ETC 5.52 CLP-109.45

PLANETOCENTRIC CONIC
C3 6.416 VHL 2.533 DLA -7.65 RAL 156.71 RAD 6567.2 VEL 11.305 PTH 1.94 VHP 3.176 DPA -8.29 RAP 147.16 ECC 1.1056

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 10 37	1740.39	-5.96	13.35	2.32	117.73	6 39 37	1140.4	-2.20	6.69
90.00	16 13 24	4863.53	19.69	210.75	3.88	69.23	17 34 28	4263.5	16.69	203.36
100.00	7 28 16	1489.85	-6.65	354.55	1.94	119.21	7 53 6	889.8	-2.71	347.98
100.00	17 38 26	4589.30	20.43	190.27	3.57	67.69	18 54 55	3989.3	17.22	182.94
110.00	8 28 6	1302.49	-8.49	339.21	.82	123.24	8 49 49	702.5	-4.05	332.92
110.00	18 55 5	4349.42	22.38	171.10	2.62	63.46	20 7 34	3749.4	18.63	163.97

DIFFERENTIAL CORRECTIONS
TDE -.4112 TRA .1289 TC3-4.7020 BAU .4615
RDE -.2644 RRA .2443 RC3-2.6159 FAU .17333
FDE-2.6917 FRA 2.0975 FC-23.3896 BSP 9047
BDE .4888 BRA .2762 BC3 5.3807 FSP -3900

MID-COURSE EXECUTION ACCURACY
SGT 2574.0 SGR 1557.1 SG3 1223.1
RRT .9673 RRF .9986 RTF .9687
SGB 3008.3 R23 .1770 R13 .9829
SG1 2989.0 SG2 340.2 THA 30.78

ORBIT DETERMINATION ACCURACY
ST 937.0 SR 622.3 SS 1719.5
CRT .9842 CRS -.9991 CST -.9905
LSA 2051.1 MSA 121.0 SSA 7.3
EL1 1121.0 EL2 92.1 ALF 33.43

LAUNCH DATE JUN 1 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 6 1967

HELIOCENTRIC CONIC DISTANCE 435.596

RL 151.69 LAL .00 LOL 249.83 VL 26.938 GAL .81 AZL 91.92 HCA 194.90 SMA 129.59 ECC .17112 INC 1.9169 V1 29.371
RP 107.70 LAP .49 LOP 84.72 VP 37.952 GAP 1.59 AZP 88.15 TAL 176.05 TAP 10.94 RCA 107.42 APO 151.77 V2 35.185
RC 98.967 GL -20.19 GP -18.37 ZAL 87.47 ZAP 112.83 ETS 352.92 ZAE 150.38 ETE 209.61 ZAC 117.59 ETC 7.77 CLP-114.13

PLANETOCENTRIC CONIC

C3 6.822 VHL 2.612 DLA -11.80 RAL 156.15 RAD 6567.2 VEL 11.323 PTH 1.95 VHP 3.163 DPA -2.98 RAP 147.63 ECC 1.1123

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 41 44	1615.43	-1.96	6.34	2.60	118.25	7 8 39	1015.4	1.84	359.72
90.00	15 37 46	5009.68	22.93	220.24	5.05	72.91	17 1 16	4409.7	20.37	212.50
100.00	7 57 5	1372.32	-2.71	348.05	2.18	119.78	8 19 57	772.3	1.27	341.53
100.00	17 5 6	4728.02	23.74	199.23	4.76	71.28	18 23 54	4128.0	20.97	191.54
110.00	8 51 47	1201.02	-4.66	333.84	.96	123.90	9 11 48	601.0	-.18	327.62
110.00	18 26 54	4472.09	25.89	178.89	3.86	66.86	19 41 26	3872.1	22.53	171.35

DIFFERENTIAL CORRECTIONS
TDE -.5807 TRA .1542 TC3-4.9565 BAU .4854
RDE -.2352 RRA .1933 RC3-1.9368 FAU .17389
FDE-3.2462 FRA 2.0878 FC-22.0663 BSP 9493
BDE .6265 BRA .2473 BC3 5.3214 FSP -3954

MID-COURSE EXECUTION ACCURACY
SGT 2906.2 SGR 1215.5 SG3 1238.5
RRT .9700 RRF .9965 RTF .9730
SGB 3150.1 R23 .1820 R13 .9801
SG1 3138.2 SG2 273.6 THA 22.26

ORBIT DETERMINATION ACCURACY
ST 1280.3 SR 532.9 SS 1985.7
CRT .9864 CRS -.9986 CST -.9935
LSA 2418.5 MSA 130.1 SSA 7.6
EL1 1384.4 EL2 81.1 ALF 22.40

LAUNCH DATE JUN 1 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 8 1967

HELIOCENTRIC CONIC DISTANCE 441.858

RL 151.69 LAL .00 LOL 249.83 VL 26.926 GAL .93 AZL 92.19 HCA 198.13 SMA 129.51 ECC .17205 INC 2.1903 V1 29.371
RP 107.67 LAP .68 LOP 87.95 VP 37.952 GAP 1.99 AZP 87.92 TAL 175.51 TAP 13.64 RCA 107.23 APO 151.79 V2 35.195
RC 101.218 GL -22.60 GP -14.86 ZAL 86.36 ZAP 117.47 ETS 353.08 ZAE 149.01 ETE 201.54 ZAC 118.21 ETC 9.41 CLP-118.51

PLANETOCENTRIC CONIC

C3 7.171 VHL 2.678 DLA -14.47 RAL 156.28 RAD 6567.2 VEL 11.339 PTH 1.95 VHP 3.210 DPA .69 RAP 147.75 ECC 1.1180

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 5 26	1532.25	.73	1.70	3.55	118.31	7 30 58	932.3	4.51	355.06
90.00	15 15 6	5110.42	24.78	227.04	6.59	75.83	16 40 16	4510.4	22.58	219.05
100.00	8 19 2	1294.80	-.08	343.80	3.10	119.89	8 40 37	694.8	3.90	337.27
100.00	16 44 11	4823.11	25.67	205.64	6.32	74.13	18 4 34	4223.1	23.25	197.68
110.00	9 9 57	1135.32	-2.16	330.40	1.80	124.12	9 28 52	535.3	2.33	324.20
110.00	18 9 46	4555.35	28.00	184.45	5.46	69.54	19 25 41	3955.3	24.96	176.60

DIFFERENTIAL CORRECTIONS
TDE -.7315 TRA .1903 TC3-5.1934 BAU .5184
RDE -.1970 RRA .1634 RC3-1.5049 FAU .16818
FDE-3.5198 FRA 2.0653 FC-20.3039 BSP 10194
BDE .7576 BRA .2508 BC3 5.4071 FSP -3861

MID-COURSE EXECUTION ACCURACY
SGT 3219.2 SGR 978.5 SG3 1209.0
RRT .9692 RRF .9922 RTF .9758
SGB 3364.6 R23 .1689 R13 .9794
SG1 3356.7 SG2 230.9 THA 16.50

ORBIT DETERMINATION ACCURACY
ST 1572.5 SR 435.8 SS 2124.6
CRT .9854 CRS -.9974 CST -.9950
LSA 2675.6 MSA 134.0 SSA 8.4
EL1 1630.2 EL2 71.5 ALF 15.30

LAUNCH DATE JUN 1 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 10 1967

HELIOCENTRIC CONIC DISTANCE 448.102

RL 151.69 LAL .00 LOL 249.83 VL 26.912 GAL 1.06 AZL 92.38 HCA 201.37 SMA 129.41 ECC .17313 INC 2.3829 V1 29.371
RP 107.65 LAP .87 LOP 91.19 VP 37.951 GAP 2.38 AZP 87.78 TAL 174.92 TAP 16.29 RCA 107.01 APO 151.82 V2 35.204
RC 103.470 GL -24.15 GP -12.34 ZAL 85.17 ZAP 121.75 ETS 353.27 ZAE 147.07 ETE 196.07 ZAC 118.63 ETC 10.67 CLP-122.59

PLANETOCENTRIC CONIC

C3 7.481 VHL 2.735 DLA -16.39 RAL 156.82 RAD 6567.2 VEL 11.352 PTH 1.96 VHP 3.290 DPA 3.34 RAP 147.80 ECC 1.1231

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 25 24	1470.73	2.71	358.27	4.86	118.20	7 49 55	870.7	6.46	351.60
90.00	14 59 30	5187.09	25.95	232.35	8.30	78.24	16 25 57	4587.1	24.07	224.18
100.00	8 37 32	1237.99	1.85	340.68	4.38	119.84	8 58 10	638.0	5.80	334.13
100.00	16 30 3	4895.07	26.91	210.63	8.06	76.47	17 51 38	4295.1	24.78	202.47
110.00	9 25 23	1088.07	-.36	327.93	3.01	124.18	9 43 31	488.1	4.13	321.72
110.00	17 58 41	4617.74	29.41	188.76	7.26	71.74	19 15 39	4017.7	26.63	180.67

DIFFERENTIAL CORRECTIONS
TDE -.8704 TRA .2349 TC3-5.4050 BAU .5541
RDE -.1603 RRA .1446 RC3-1.2180 FAU .15981
FDE-3.6329 FRA 2.0372 FC-18.4938 BSP 10985
BDE .8850 BRA .2758 BC3 5.5406 FSP -3713

MID-COURSE EXECUTION ACCURACY
SGT 3511.3 SGR 810.2 SG3 1159.3
RRT .9647 RRF .9843 RTF .9778
SGB 3603.6 R23 .1434 R13 .9797
SG1 3597.5 SG2 208.3 THA 12.59

ORBIT DETERMINATION ACCURACY
ST 1831.9 SR 349.6 SS 2198.0
CRT .9819 CRS -.9947 CST -.9960
LSA 2879.4 MSA 134.8 SSA 9.3
EL1 1863.8 EL2 65.1 ALF 10.63

LAUNCH DATE JUN 1 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 12 1967

HELIOCENTRIC CONIC DISTANCE 454.327

RL 151.69 LAL .00 LOL 249.83 VL 26.896 GAL 1.20 AZL 92.53 HCA 204.61 SMA 129.31 ECC .17437 INC 2.5272 V1 29.371
RP 107.62 LAP 1.05 LOP 94.42 VP 37.947 GAP 2.77 AZP 87.70 TAL 174.29 TAP 18.89 RCA 106.76 APO 151.85 V2 35.212
RC 105.723 GL -25.18 GP -10.44 ZAL 83.89 ZAP 125.68 ETS 353.47 ZAE 144.98 ETE 192.33 ZAC 118.83 ETC 11.66 CLP-126.38

PLANETOCENTRIC CONIC

C3 7.770 VHL 2.787 DLA -17.87 RAL 157.66 RAD 6567.3 VEL 11.365 PTH 1.96 VHP 3.392 DPA 5.31 RAP 147.90 ECC 1.1279

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 43 20	1421.87	4.28	355.54	6.42	118.02	8 7 1	821.9	7.99	348.83
90.00	14 48 14	5249.72	26.74	236.76	10.16	80.32	16 15 44	4649.7	25.13	228.46
100.00	8 54 9	1193.32	3.36	338.23	5.91	119.72	9 14 3	593.3	7.29	331.64
100.00	16 20 6	4953.50	27.78	214.75	9.94	78.48	17 42 39	4353.5	25.91	206.45
110.00	9 39 22	1051.65	1.04	326.04	4.46	124.17	9 56 54	451.6	5.51	319.81
110.00	17 51 22	4667.93	30.43	192.31	9.19	73.61	19 9 10	4067.9	27.88	184.04

DIFFERENTIAL CORRECTIONS
TDE -.9981 TRA .2889 TC3-5.5785 BAU .5890
RDE -.1263 RRA .1333 RC3-1.0150 FAU .14963
FDE-3.6266 FRA 2.0235 FC-16.6718 BSP 11762
BDE 1.0061 BRA .3182 BC3 5.6701 FSP -3517

MID-COURSE EXECUTION ACCURACY
SGT 3777.6 SGR 685.9 SG3 1096.5
RRT .9541 RRF .9710 RTF .9788
SGB 3839.3 R23 .1151 R13 .9799
SG1 3834.0 SG2 202.5 THA 9.85

ORBIT DETERMINATION ACCURACY
ST 2062.3 SR 274.1 SS 2220.0
CRT .9736 CRS -.9889 CST -.9965
LSA 3039.4 MSA 135.5 SSA 10.3
EL1 2079.5 EL2 62.1 ALF 7.38

LAUNCH DATE JUN 1 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 14 1967

DISTANCE 460.533

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.879 GAL 1.36 AZL 92.64 HCA 207.85 SMA 129.19 ECC .17576 INC 2.6396 V1 29.371
RP 107.60 LAP 1.23 LOP 97.66 VP 37.942 GAP 3.16 AZP 87.67 TAL 173.61 TAP 21.45 RCA 106.48 APO 151.90 V2 35.220
RC 107.975 GL -25.86 GP -8.98 ZAL 82.53 ZAP 129.30 ETS 353.65 ZAE 142.93 ETE 189.75 ZAC 118.81 ETC 12.45 CLP-129.89

PLANETOCENTRIC CONIC
C3 8.051 VHL 2.837 DLA -19.06 RAL 158.71 RAD 6567.3 VEL 11.377 PTH 1.96 VHP 3.511 DPA 6.78 RAP 148.12 ECC 1.1325

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 0 6	1381.12	5.58	353.25	8.16	117.81	8 23 7	781.1	9.26	346.50
90.00	14 39 52	5303.55	27.30	240.60	12.13	82.17	16 8 16	4703.6	25.93	232.20
100.00	9 9 43	1156.47	4.60	336.19	7.63	119.57	9 28 59	556.5	8.50	329.58
100.00	16 12 57	5003.44	28.40	218.33	11.93	80.27	17 36 20	4403.4	26.77	209.91
110.00	9 52 34	1022.21	2.16	324.50	6.11	124.12	10 9 36	422.2	6.63	318.26
110.00	17 46 35	4710.46	31.20	195.38	11.23	75.28	19 5 6	4110.5	28.87	186.96

DIFFERENTIAL CORRECTIONS
TDE-1.1197 TRA .3481 TC3-5.7231 BAU .6231
RDE -.0964 RRA .1257 RC3 -.8697 FAU .13934
FDE-3.5651 FRA 1.9997 FC-14.9836 BSP 12530
BDE 1.1239 BRA .3701 BC3 5.7888 FSP -3315

MID-COURSE EXECUTION ACCURACY
SGT 4026.6 SGR 594.6 SG3 1030.9
RRT .9367 RRF .9506 RTF .9797
SGB 4070.3 R23 .0873 R13 .9803
SG1 4065.1 SG2 206.3 THA 7.90

ORBIT DETERMINATION ACCURACY
ST 2274.1 SR 211.1 SS 2219.4
CRT .9568 CRS -.9761 CST -.9969
LSA 3181.8 MSA 134.8 SSA 11.3
EL1 2283.1 EL2 61.1 ALF 5.08

LAUNCH DATE JUN 1 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 16 1967

DISTANCE 466.718

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.860 GAL 1.53 AZL 92.73 HCA 211.09 SMA 129.06 ECC .17731 INC 2.7303 V1 29.371
RP 107.58 LAP 1.41 LOP 100.89 VP 37.935 GAP 3.55 AZP 87.66 TAL 172.89 TAP 23.97 RCA 106.18 APO 151.95 V2 35.227
RC 110.226 GL -26.30 GP -7.82 ZAL 81.09 ZAP 132.64 ETS 353.82 ZAE 141.00 ETE 187.91 ZAC 118.58 ETC 13.07 CLP-133.14

PLANETOCENTRIC CONIC
C3 8.335 VHL 2.887 DLA -20.07 RAL 159.95 RAD 6567.3 VEL 11.390 PTH 1.97 VHP 3.642 DPA 7.88 RAP 148.49 ECC 1.1372

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 16 14	1345.93	6.69	351.26	10.07	117.58	8 38 40	745.9	10.33	344.47
90.00	14 33 34	5351.66	27.70	244.07	14.21	83.86	16 2 46	4751.7	26.56	235.59
100.00	9 24 41	1125.03	5.65	334.45	9.51	119.40	9 43 26	525.0	9.53	327.81
100.00	16 7 48	5047.80	28.87	221.55	14.05	81.90	17 31 56	4447.8	27.45	213.03
110.00	10 5 19	997.67	3.10	323.22	7.92	124.06	10 21 57	397.7	7.55	316.96
110.00	17 43 39	4747.92	31.82	198.13	13.40	76.79	19 2 47	4147.9	29.68	189.58

DIFFERENTIAL CORRECTIONS
TDE-1.2351 TRA .4150 TC3-5.8319 BAU .6554
RDE -.0696 RRA .1212 RC3 -.7617 FAU .12919
FDE-3.4640 FRA 1.9813 FC-13.4182 BSP 13252
BDE 1.2371 BRA .4323 BC3 5.8814 FSP -3110

MID-COURSE EXECUTION ACCURACY
SGT 4256.3 SGR 527.4 SG3 965.3
RRT .9107 RRF .9215 RTF .9802
SGB 4288.9 R23 .0642 R13 .9806
SG1 4283.4 SG2 216.5 THA 6.45

ORBIT DETERMINATION ACCURACY
ST 2467.3 SR 158.6 SS 2200.1
CRT .9202 CRS -.9460 CST -.9973
LSA 3306.8 MSA 134.0 SSA 12.3
EL1 2471.6 EL2 62.0 ALF 3.39

LAUNCH DATE JUN 1 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 18 1967

DISTANCE 472.885

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.840 GAL 1.71 AZL 92.81 HCA 214.33 SMA 128.93 ECC .17902 INC 2.8055 V1 29.371
RP 107.56 LAP 1.58 LOP 104.13 VP 37.927 GAP 3.93 AZP 87.68 TAL 172.13 TAP 26.46 RCA 105.85 APO 152.01 V2 35.233
RC 112.475 GL -26.55 GP -6.88 ZAL 79.57 ZAP 135.72 ETS 353.96 ZAE 139.22 ETE 186.59 ZAC 118.16 ETC 13.55 CLP-136.15

PLANETOCENTRIC CONIC
C3 8.630 VHL 2.938 DLA -20.95 RAL 161.33 RAD 6567.3 VEL 11.403 PTH 1.97 VHP 3.783 DPA 8.69 RAP 149.01 ECC 1.1420

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 32 0	1314.82	7.67	349.49	12.13	117.34	8 53 55	714.8	11.27	342.67
90.00	14 28 48	5395.91	27.98	247.27	16.41	85.44	15 58 44	4795.9	27.05	238.73
100.00	9 39 19	1097.60	6.56	332.93	11.54	119.23	9 57 36	497.6	10.41	326.26
100.00	16 4 11	5088.36	29.22	224.51	16.27	83.42	17 28 59	4488.4	28.01	215.92
110.00	10 17 51	976.81	3.89	322.12	9.89	123.99	10 34 8	376.8	8.33	315.85
110.00	17 42 8	4781.92	32.32	200.65	15.69	78.21	19 1 50	4181.9	30.36	191.99

DIFFERENTIAL CORRECTIONS
TDE-1.3455 TRA .4889 TC3-5.9040 BAU .6857
RDE -.0454 RRA .1189 RC3 -.6784 FAU .11928
FDE-3.3398 FRA 1.9659 FC-11.9655 BSP 13943
BDE 1.3463 BRA .5031 BC3 5.9428 FSP -2913

MID-COURSE EXECUTION ACCURACY
SGT 4467.9 SGR 477.9 SG3 900.8
RRT .8752 RRF .8828 RTF .9804
SGB 4493.3 R23 .0464 R13 .9807
SG1 4487.5 SG2 230.2 THA 5.36

ORBIT DETERMINATION ACCURACY
ST 2644.1 SR 116.4 SS 2167.9
CRT .8339 CRS -.8699 CST -.9975
LSA 3418.5 MSA 133.4 SSA 13.2
EL1 2645.8 EL2 64.2 ALF 2.10

LAUNCH DATE JUN 1 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 20 1967

DISTANCE 479.030

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.818 GAL 1.90 AZL 92.87 HCA 217.57 SMA 128.78 ECC .18089 INC 2.8692 V1 29.371
RP 107.54 LAP 1.75 LOP 107.37 VP 37.917 GAP 4.32 AZP 87.73 TAL 171.33 TAP 28.90 RCA 105.49 APO 152.08 V2 35.239
RC 114.720 GL -26.66 GP -6.12 ZAL 77.99 ZAP 138.57 ETS 354.07 ZAE 137.60 ETE 185.61 ZAC 117.56 ETC 13.92 CLP-138.95

PLANETOCENTRIC CONIC
C3 8.944 VHL 2.991 DLA -21.72 RAL 162.83 RAD 6567.3 VEL 11.416 PTH 1.98 VHP 3.933 DPA 9.27 RAP 149.69 ECC 1.1472

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 47 36	1286.87	8.54	347.90	14.34	117.10	9 9 3	686.9	12.11	341.04
90.00	14 25 15	5437.48	28.17	250.30	18.72	86.95	15 55 52	4837.5	27.45	241.71
100.00	9 53 45	1073.35	7.37	331.58	13.71	119.05	10 11 39	473.4	11.19	324.87
100.00	16 1 46	5126.23	29.49	227.29	18.61	84.86	17 27 13	4526.2	28.46	218.64
110.00	10 30 16	958.92	4.57	321.19	11.99	123.91	10 46 15	358.9	9.00	314.89
110.00	17 41 45	4813.43	32.73	203.02	18.09	79.55	19 1 59	4213.4	30.95	194.25

DIFFERENTIAL CORRECTIONS
TDE-1.4514 TRA .5709 TC3-5.9414 BAU .7142
RDE -.0234 RRA .1181 RC3 -.6130 FAU .11000
FDE-3.2048 FRA 1.9536 FC-10.6474 BSP 14583
BDE 1.4516 BRA .5830 BC3 5.9729 FSP -2724

MID-COURSE EXECUTION ACCURACY
SGT 4663.4 SGR 442.5 SG3 839.9
RRT .8308 RRF .8350 RTF .9805
SGB 4684.3 R23 .0325 R13 .9807
SG1 4677.9 SG2 245.5 THA 4.52

ORBIT DETERMINATION ACCURACY
ST 2805.1 SR 86.4 SS 2127.5
CRT .6249 CRS -.6752 CST -.9977
LSA 3519.2 MSA 132.7 SSA 14.1
EL1 2805.6 EL2 67.4 ALF 1.10

LAUNCH DATE JUN 1 1967 FLIGHT TIME 174.00 ARRIVAL DATE NOV 22 1967

HELIOCENTRIC CONIC DISTANCE 485.156

RL 151.69 LAL .00 LOL 249.83 VL 26.796 GAL 2.11 AZL 92.92 HCA 220.82 SMA 128.63 ECC .18292 INC 2.9241 V1 29.371
RP 107.52 LAP 1.91 LOP 110.62 VP 37.906 GAP 4.70 AZP 87.79 TAL 170.49 TAP 31.31 RCA 105.10 APO 152.16 V2 35.244
RC 116.961 GL -26.64 GP -5.48 ZAL 76.35 ZAP 141.22 ETS 354.15 ZAE 136.13 ETE 184.87 ZAC 116.79 ETC 14.19 CLP-141.54

PLANETOCENTRIC CONIC

C3 9.282 VHL 3.047 DLA -22.41 RAL 164.45 RAD 6567.3 VEL 11.431 PTH 1.98 VHP 4.091 DPA 9.66 RAP 150.52 ECC 1.1528

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 3 7	1261.55	9.32	346.45	16.67	116.86	9 24 8	661.6	12.85	339.55
90.00	14 22 40	5477.15	28.28	253.20	21.13	88.40	15 53 57	4877.2	27.75	244.57
100.00	10 8 6	1051.80	8.08	330.37	16.00	118.88	10 25 38	451.8	11.87	323.64
100.00	16 0 22	5162.14	29.68	229.95	21.06	86.25	17 26 24	4562.1	28.84	221.24
110.00	10 42 37	943.57	5.16	320.38	14.21	123.84	10 58 21	343.6	9.57	314.07
110.00	17 42 20	4843.13	33.08	205.27	20.61	80.84	19 3 3	4243.1	31.46	196.42

DIFFERENTIAL CORRECTIONS
TOE-1.5512 TRA .6628 TC3-5.9321 BAU .7394
ROE -.0026 RRA .1187 RC3 -.5585 FAU .10093
FDE-3.0583 FRA 1.9482 FC3-9.4141 BSP 15105
BOE 1.5512 BRA .6734 BC3 5.9583 FSP -2526

MID-COURSE EXECUTION ACCURACY
SGT 4836.7 SGR 417.3 SG3 780.9
RRT .7779 RRF .7788 RTF .9804
SGB 4854.6 R23 .0222 R13 .9804
SG1 4847.6 SG2 261.6 THA 3.85

ORBIT DETERMINATION ACCURACY
ST 2947.1 SR 73.3 SS 2076.7
CRT .2069 CRS -.2694 CST -.9978
LSA 3603.6 MSA 132.6 SSA 14.9
EL1 2947.1 EL2 71.7 ALF .29

LAUNCH DATE JUN 1 1967 FLIGHT TIME 176.00 ARRIVAL DATE NOV 24 1967

HELIOCENTRIC CONIC DISTANCE 491.259

RL 151.69 LAL .00 LOL 249.83 VL 26.772 GAL 2.33 AZL 92.97 HCA 224.06 SMA 128.47 ECC .18513 INC 2.9723 V1 29.371
RP 107.51 LAP 2.07 LOP 113.86 VP 37.893 GAP 5.08 AZP 87.86 TAL 169.62 TAP 33.69 RCA 104.69 APO 152.26 V2 35.248
RC 119.197 GL -26.52 GP -4.95 ZAL 74.65 ZAP 143.68 ETS 354.20 ZAE 134.81 ETE 184.31 ZAC 115.87 ETC 14.39 CLP-143.97

PLANETOCENTRIC CONIC

C3 9.651 VHL 3.107 DLA -23.04 RAL 166.17 RAD 6567.3 VEL 11.447 PTH 1.99 VHP 4.256 DPA 9.89 RAP 151.48 ECC 1.1588

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 18 34	1238.57	10.02	345.13	19.13	116.62	9 39 12	638.6	13.52	338.20
90.00	14 20 55	5515.40	28.32	255.99	23.65	89.80	15 52 50	4915.4	27.99	247.34
100.00	10 22 21	1032.67	8.71	329.30	18.43	118.71	10 39 34	432.7	12.47	322.54
100.00	15 59 48	5196.53	29.80	232.50	23.61	87.58	17 26 25	4596.5	29.15	223.75
110.00	10 54 55	930.56	5.65	319.69	16.56	123.77	11 10 26	330.6	10.05	313.37
110.00	17 43 44	4871.41	33.36	207.43	23.23	82.09	19 4 55	4271.4	31.91	198.50

DIFFERENTIAL CORRECTIONS
TOE-1.6499 TRA .7806 TC3-5.8984 BAU .7639
ROE .0168 RRA .1198 RC3 -.5136 FAU .09275
FDE-2.9185 FRA 1.9383 FC3-8.3198 BSP 15665
BOE 1.6500 BRA .7699 BC3 5.9207 FSP -2362

MID-COURSE EXECUTION ACCURACY
SGT 5001.3 SGR 400.5 SG3 726.9
RRT .7195 RRF .7169 RTF .9802
SGB 5017.4 R23 .0136 R13 .9802
SG1 5009.7 SG2 277.7 THA 3.31

ORBIT DETERMINATION ACCURACY
ST 3079.1 SR 78.9 SS 2025.8
CRT -.2470 CRS .1860 CST -.9979
LSA 3684.1 MSA 132.5 SSA 15.7
EL1 3079.1 EL2 76.5 ALF 179.64

LAUNCH DATE JUN 1 1967 FLIGHT TIME 178.00 ARRIVAL DATE NOV 26 1967

HELIOCENTRIC CONIC DISTANCE 497.341

RL 151.69 LAL .00 LOL 249.83 VL 26.748 GAL 2.57 AZL 93.02 HCA 227.31 SMA 128.31 ECC .18751 INC 3.0152 V1 29.371
RP 107.50 LAP 2.22 LOP 117.10 VP 37.879 GAP 5.47 AZP 87.95 TAL 168.72 TAP 36.03 RCA 104.25 APO 152.37 V2 35.252
RC 121.426 GL -26.31 GP -4.49 ZAL 72.90 ZAP 145.97 ETS 354.22 ZAE 133.62 ETE 183.88 ZAC 114.81 ETC 14.51 CLP-146.23

PLANETOCENTRIC CONIC

C3 10.057 VHL 3.171 DLA -23.60 RAL 167.97 RAD 6567.4 VEL 11.465 PTH 1.99 VHP 4.427 DPA 9.99 RAP 152.57 ECC 1.1655

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 33 58	1217.79	10.66	343.93	21.70	116.39	9 54 16	617.8	14.12	336.96
90.00	14 19 54	5552.53	28.30	258.71	26.27	91.16	15 52 26	4952.5	28.16	250.05
100.00	10 36 31	1015.86	9.26	328.35	20.96	118.55	10 53 27	415.9	13.00	321.56
100.00	16 0 1	5229.70	29.87	234.96	26.27	88.88	17 27 11	4629.7	29.40	226.19
110.00	11 7 10	919.75	6.06	319.13	19.01	123.71	11 22 30	319.8	10.45	312.78
110.00	17 45 52	4898.57	33.60	209.51	25.97	83.30	19 7 30	4298.6	32.31	200.52

DIFFERENTIAL CORRECTIONS
TOE-1.7462 TRA .8670 TC3-5.8351 BAU .7872
ROE .0353 RRA .1215 RC3 -.4749 FAU .08529
FDE-2.7832 FRA 1.9305 FC3-7.3420 BSP 16179
BOE 1.7465 BRA .8754 BC3 5.8544 FSP -2209

MID-COURSE EXECUTION ACCURACY
SGT 5154.7 SGR 390.1 SG3 677.3
RRT .6580 RRF .6520 RTF .9800
SGB 5169.5 R23 .0067 R13 .9801
SG1 5161.1 SG2 293.4 THA 2.86

ORBIT DETERMINATION ACCURACY
ST 3198.1 SR 96.5 SS 1973.0
CRT -.5290 CRS .4766 CST -.9980
LSA 3756.6 MSA 132.7 SSA 16.3
EL1 3198.5 EL2 81.9 ALF 179.09

LAUNCH DATE JUN 1 1967 FLIGHT TIME 180.00 ARRIVAL DATE NOV 28 1967

HELIOCENTRIC CONIC DISTANCE 503.400

RL 151.69 LAL .00 LOL 249.83 VL 26.722 GAL 2.83 AZL 93.05 HCA 230.56 SMA 128.14 ECC .19008 INC 3.0538 V1 29.371
RP 107.49 LAP 2.36 LOP 120.35 VP 37.864 GAP 5.86 AZP 88.06 TAL 167.79 TAP 38.35 RCA 103.79 APO 152.50 V2 35.255
RC 123.648 GL -26.02 GP -4.11 ZAL 71.11 ZAP 148.12 ETS 354.21 ZAE 132.55 ETE 183.54 ZAC 113.63 ETC 14.58 CLP-148.35

PLANETOCENTRIC CONIC

C3 10.507 VHL 3.241 DLA -24.10 RAL 169.85 RAD 6567.4 VEL 11.485 PTH 2.00 VHP 4.605 DPA 9.97 RAP 153.78 ECC 1.1729

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 49 17	1199.19	11.22	342.85	24.38	116.17	10 9 16	599.2	14.65	335.85
90.00	14 19 33	5588.73	28.22	261.36	28.97	92.49	15 52 41	4988.7	28.26	252.69
100.00	10 50 34	1001.33	9.73	327.53	23.60	118.41	11 7 16	401.3	13.45	320.72
100.00	16 0 56	5261.82	29.89	237.35	29.02	90.13	17 28 38	4661.8	29.59	228.56
110.00	11 19 20	911.13	6.38	318.67	21.57	123.65	11 34 31	311.1	10.76	312.32
110.00	17 48 40	4924.78	33.79	211.53	28.80	84.49	19 10 45	4324.8	32.66	202.48

DIFFERENTIAL CORRECTIONS
TOE-1.8403 TRA .9819 TC3-5.7413 BAU .8089
ROE .0533 RRA .1236 RC3 -.4401 FAU .07835
FDE-2.6523 FRA 1.9240 FC3-6.4554 BSP 16663
BOE 1.8411 BRA .9896 BC3 5.7581 FSP -2066

MID-COURSE EXECUTION ACCURACY
SGT 5296.2 SGR 384.2 SG3 631.2
RRT .5949 RRF .5857 RTF .9798
SGB 5310.1 R23 .0011 R13 .9798
SG1 5301.2 SG2 308.5 THA 2.48

ORBIT DETERMINATION ACCURACY
ST 3304.4 SR 118.8 SS 1918.1
CRT -.6742 CRS .6295 CST -.9981
LSA 3820.2 MSA 133.5 SSA 16.8
EL1 3305.4 EL2 87.7 ALF 178.61

LAUNCH DATE JUN 1 1967 FLIGHT TIME 182.00 ARRIVAL DATE NOV 30 1967

DISTANCE 509.435

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.696 GAL 3.09 AZL 93.09 HCA 233.80 SMA 127.97 ECC .19284 INC 3.0889 V1 29.371
RP 107.48 LAP 2.49 LOP 123.60 VP 37.847 GAP 6.25 AZP 88.17 TAL 166.84 TAP 40.64 RCA 103.29 APO 152.65 V2 35.257
RC 125.861 GL -25.66 GP -3.78 ZAL 69.29 ZAP 150.13 ETS 354.17 ZAE 131.59 ETE 183.26 ZAC 112.34 ETC 14.60 CLP-150.35

PLANETOCENTRIC CONIC
C3 11.007 VHL 3.318 DLA -24.56 RAL 171.79 RAD 6567.4 VEL 11.506 PTH 2.00 VHP 4.789 OPA 9.85 RAP 155.08 ECC 1.1812

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 4 27	1182.81	11.71	341.90	27.16	115.97	10 24 10	582.8	15.11	334.87
90.00	14 19 50	5624.07	28.09	263.93	31.77	93.77	15 53 34	5024.1	28.31	255.27
100.00	11 4 27	989.13	10.12	326.84	26.34	118.28	11 20 56	389.1	13.82	320.01
100.00	16 2 31	5292.98	29.86	239.66	31.86	91.35	17 30 44	4693.0	29.73	230.86
110.00	11 31 22	904.70	6.63	318.33	24.22	123.61	11 46 26	304.7	11.00	311.97
110.00	17 52 5	4950.18	33.94	213.50	31.74	85.64	19 14 35	4350.2	32.96	204.40

DIFFERENTIAL CORRECTIONS
TDE-1.9287 TRA 1.1096 TC3-5.6065 BAU .8272
RDE .0713 RRA .1261 RC3 -.4075 FAU .07164
FDE-2.5203 FRA 1.9251 FC3-5.6348 BSP 17029
BDE 1.9301 BRA 1.1167 BC3 5.6213 FSP -1922

MID-COURSE EXECUTION ACCURACY
SGT 5419.7 SGR 381.7 SG3 587.8
RRT .5319 RRF .5200 RTF .9793
SGB 5433.1 R23 -.0032 R13 .9793
SG1 5423.5 SG2 323.0 THA 2.15

ORBIT DETERMINATION ACCURACY
ST 3392.1 SR 142.9 SS 1857.7
CRT -.7513 CRS .7118 CST -.9982
LSA 3867.7 MSA 135.4 SSA 17.2
EL1 3393.8 EL2 94.2 ALF 178.19

LAUNCH DATE JUN 1 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 2 1967

DISTANCE 515.446

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.669 GAL 3.38 AZL 93.12 HCA 237.05 SMA 127.79 ECC .19580 INC 3.1213 V1 29.371
RP 107.48 LAP 2.62 LOP 126.85 VP 37.830 GAP 6.65 AZP 88.30 TAL 165.85 TAP 42.91 RCA 102.77 APO 152.81 V2 35.258
RC 128.066 GL -25.23 GP -3.49 ZAL 67.44 ZAP 152.03 ETS 354.10 ZAE 130.72 ETE 183.04 ZAC 110.94 ETC 14.59 CLP-152.23

PLANETOCENTRIC CONIC
C3 11.565 VHL 3.401 DLA -24.96 RAL 173.77 RAD 6567.4 VEL 11.531 PTH 2.01 VHP 4.980 OPA 9.64 RAP 156.48 ECC 1.1903

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 19 24	1168.82	12.12	341.08	30.03	115.79	10 38 53	568.8	15.49	334.03
90.00	14 20 44	5658.51	27.91	266.44	34.64	95.02	15 55 2	5058.5	28.31	257.79
100.00	11 18 4	979.40	10.43	326.29	29.16	118.17	11 34 24	379.4	14.12	319.44
100.00	16 4 45	5323.17	29.80	241.91	34.79	92.53	17 33 28	4723.2	29.83	233.10
110.00	11 43 13	900.53	6.78	318.11	26.95	123.58	11 58 13	300.5	11.15	311.74
110.00	17 56 5	4974.80	34.05	215.42	34.76	86.77	19 19 0	4374.8	33.23	206.27

DIFFERENTIAL CORRECTIONS
TDE-2.0190 TRA 1.2431 TC3-5.4600 BAU .8462
RDE .0891 RRA .1285 RC3 -.3778 FAU .06579
FDE-2.4018 FRA 1.9207 FC3-4.9251 BSP 17452
BDE 2.0209 BRA 1.2498 BC3 5.4731 FSP -1802

MID-COURSE EXECUTION ACCURACY
SGT 5540.6 SGR 381.6 SG3 548.7
RRT .4708 RRF .4563 RTF .9790
SGB 5553.8 R23 -.0072 R13 .9790
SG1 5543.6 SG2 336.5 THA 1.86

ORBIT DETERMINATION ACCURACY
ST 3473.2 SR 166.5 SS 1801.4
CRT -.7956 CRS .7601 CST -.9983
LSA 3913.7 MSA 137.3 SSA 17.4
EL1 3475.7 EL2 100.8 ALF 177.81

LAUNCH DATE JUN 1 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 4 1967

DISTANCE 521.430

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.642 GAL 3.68 AZL 93.15 HCA 240.30 SMA 127.61 ECC .19898 INC 3.1514 V1 29.371
RP 107.48 LAP 2.74 LOP 130.10 VP 37.811 GAP 7.05 AZP 88.44 TAL 164.85 TAP 45.15 RCA 102.22 APO 153.00 V2 35.259
RC 130.261 GL -24.75 GP -3.24 ZAL 65.58 ZAP 153.82 ETS 354.00 ZAE 129.94 ETE 182.86 ZAC 109.46 ETC 14.55 CLP-154.01

PLANETOCENTRIC CONIC
C3 12.189 VHL 3.491 DLA -25.32 RAL 175.80 RAD 6567.5 VEL 11.557 PTH 2.02 VHP 5.177 OPA 9.35 RAP 157.96 ECC 1.2006

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 34 2	1157.41	12.46	340.41	32.98	115.64	10 53 19	557.4	15.81	333.34
90.00	14 22 16	5691.98	27.68	268.86	37.59	96.21	15 57 8	5092.0	28.25	260.24
100.00	11 31 22	972.26	10.66	325.88	32.06	118.09	11 47 35	372.3	14.34	319.02
100.00	16 7 36	5352.37	29.69	244.07	37.79	93.66	17 36 49	4752.4	29.88	235.27
110.00	11 54 49	898.68	6.85	318.01	29.76	123.57	12 9 48	298.7	11.22	311.64
110.00	18 0 39	4998.70	34.12	217.28	37.86	87.87	19 23 57	4398.7	33.45	208.10

DIFFERENTIAL CORRECTIONS
TDE-2.1078 TRA 1.3868 TC3-5.2892 BAU .8637
RDE .1070 RRA .1309 RC3 -.3493 FAU .06034
FDE-2.2897 FRA 1.9186 FC3-4.2857 BSP 17851
BDE 2.1105 BRA 1.3930 BC3 5.3007 FSP -1692

MID-COURSE EXECUTION ACCURACY
SGT 5652.0 SGR 383.1 SG3 512.7
RRT .4116 RRF .3947 RTF .9786
SGB 5664.9 R23 -.0106 R13 .9786
SG1 5654.2 SG2 349.0 THA 1.60

ORBIT DETERMINATION ACCURACY
ST 3542.5 SR 189.7 SS 1745.0
CRT -.8228 CRS .7903 CST -.9984
LSA 3951.0 MSA 139.9 SSA 17.5
EL1 3545.9 EL2 107.7 ALF 177.47

LAUNCH DATE JUN 1 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 6 1967

DISTANCE 527.386

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.614 GAL 4.00 AZL 93.18 HCA 243.55 SMA 127.43 ECC .20239 INC 3.1796 V1 29.371
RP 107.48 LAP 2.85 LOP 133.35 VP 37.791 GAP 7.46 AZP 88.58 TAL 163.82 TAP 47.37 RCA 101.64 APO 153.22 V2 35.259
RC 132.447 GL -24.22 GP -3.02 ZAL 63.70 ZAP 155.52 ETS 353.87 ZAE 129.24 ETE 182.71 ZAC 107.90 ETC 14.49 CLP-155.70

PLANETOCENTRIC CONIC
C3 12.886 VHL 3.590 DLA -25.63 RAL 177.86 RAD 6567.5 VEL 11.588 PTH 2.03 VHP 5.381 OPA 9.00 RAP 159.51 ECC 1.2121

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 48 14	1148.81	12.71	339.91	36.00	115.52	11 7 23	548.8	16.04	332.82
90.00	14 24 27	5724.33	27.42	271.19	40.61	97.35	15 59 52	5124.3	28.16	262.60
100.00	11 44 16	967.86	10.80	325.63	35.02	118.04	12 0 24	367.9	14.47	318.76
100.00	16 11 6	5380.51	29.55	246.15	40.87	94.75	17 40 47	4780.5	29.89	237.36
110.00	12 6 9	899.23	6.83	318.04	32.62	123.58	12 21 8	299.2	11.20	311.67
110.00	18 5 43	5021.91	34.17	219.09	41.04	88.94	19 29 25	4421.9	33.64	209.89

DIFFERENTIAL CORRECTIONS
TDE-2.1944 TRA 1.5414 TC3-5.0970 BAU .8799
RDE .1253 RRA .1330 RC3 -.3219 FAU .05529
FDE-2.1824 FRA 1.9185 FC3-3.7148 BSP 18206
BDE 2.1980 BRA 1.5471 BC3 5.1072 FSP -1588

MID-COURSE EXECUTION ACCURACY
SGT 5753.6 SGR 385.8 SG3 479.3
RRT .3549 RRF .3362 RTF .9783
SGB 5766.5 R23 -.0133 R13 .9782
SG1 5755.2 SG2 360.5 THA 1.37

ORBIT DETERMINATION ACCURACY
ST 3598.5 SR 212.2 SS 1687.7
CRT -.8405 CRS .8101 CST -.9985
LSA 3977.7 MSA 143.1 SSA 17.5
EL1 3603.0 EL2 114.8 ALF 177.16

LAUNCH DATE JUN 1 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 8 1967

HELIOCENTRIC CONIC DISTANCE 533.312

RL 151.69 LAL .00 LOL 249.83 VL 26.585 GAL 4.34 AZL 93.21 HCA 246.79 SMA 127.24 ECC .20604 INC 3.2062 V1 29.371
RP 107.48 LAP 2.95 LOP 136.60 VP 37.770 GAP 7.88 AZP 88.74 TAL 162.77 TAP 49.57 RCA 101.03 APO 153.46 V2 35.258
RC 134.624 GL -23.64 GP -2.82 ZAL 61.82 ZAP 157.14 ETS 353.70 ZAE 128.60 ETE 182.57 ZAC 106.26 ETC 14.42 CLP-157.31

PLANETOCENTRIC CONIC

C3 13.669 VHL 3.697 DLA -25.89 RAL 179.93 RAD 6567.5 VEL 11.621 PTH 2.04 VHP 5.592 DPA 8.57 RAP 161.13 ECC 1.2250

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 1 53	1143.30	12.87	339.58	39.08	115.44	11 20 56	543.3	16.19	332.48
90.00	14 27 20	5755.39	27.13	273.42	43.69	98.43	16 3 16	5155.4	28.02	264.86
100.00	11 56 40	966.39	10.85	325.55	38.04	118.02	12 12 47	366.4	14.52	318.68
100.00	16 15 14	5407.53	29.38	248.14	44.00	95.78	17 45 22	4807.5	29.87	239.37
110.00	12 17 7	902.24	6.72	318.20	35.55	123.60	12 32 9	302.2	11.09	311.83
110.00	18 11 17	5044.45	34.18	220.85	44.29	89.98	19 35 21	4444.4	33.80	211.63

DIFFERENTIAL CORRECTIONS
TDE-2.2801 TRA 1.7063 TC3-4.8879 BAU .8948
RDE .1439 RRA .1348 RC3 -.2953 FAU .05064
FDE-2.0820 FRA 1.9189 FC3-3.2077 BSP 18549
BOE 2.2847 BRA 1.7116 BC3 4.8968 FSP -1493

MID-COURSE EXECUTION ACCURACY
SGT 5847.1 SGR 389.0 SG3 448.6
RRT .3006 RRF .2802 RTF .9779
SGB 5860.0 R23 -.0157 R13 .9779
SG1 5848.2 SG2 371.0 THA 1.15

ORBIT DETERMINATION ACCURACY
ST 3643.6 SR 233.7 SS 1631.3
CRT -.8524 CRS .8237 CST -.9985
LSA 3996.2 MSA 146.8 SSA 17.4
EL1 3649.0 EL2 122.1 ALF 176.87

LAUNCH DATE JUN 1 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 10 1967

HELIOCENTRIC CONIC DISTANCE 539.207

RL 151.69 LAL .00 LOL 249.83 VL 26.556 GAL 4.70 AZL 93.23 HCA 250.04 SMA 127.06 ECC .20995 INC 3.2316 V1 29.371
RP 107.48 LAP 3.04 LOP 139.85 VP 37.748 GAP 8.30 AZP 88.90 TAL 161.71 TAP 51.75 RCA 100.38 APO 153.73 V2 35.256
RC 136.791 GL -23.03 GP -2.65 ZAL 59.95 ZAP 158.69 ETS 353.50 ZAE 128.03 ETE 182.46 ZAC 104.56 ETC 14.33 CLP-158.84

PLANETOCENTRIC CONIC

C3 14.547 VHL 3.814 DLA -26.11 RAL 182.01 RAD 6567.6 VEL 11.659 PTH 2.05 VHP 5.812 DPA 8.10 RAP 162.79 ECC 1.2394

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 14 52	1141.16	12.94	339.46	42.20	115.41	11 33 53	541.2	16.25	332.35
90.00	14 30 57	5784.94	26.82	275.52	46.82	99.44	16 7 22	5184.9	27.85	267.01
100.00	12 8 30	967.99	10.60	325.64	41.10	118.04	12 24 38	368.0	14.47	318.77
100.00	16 20 0	5433.35	29.19	250.04	47.20	96.76	17 50 33	4833.4	29.82	241.29
110.00	12 27 41	907.78	6.51	318.49	38.51	123.63	12 42 49	307.8	10.89	312.13
110.00	18 17 18	5066.33	34.17	222.56	47.60	90.99	19 41 45	4466.3	33.93	213.32

DIFFERENTIAL CORRECTIONS
TDE-2.3613 TRA 1.8861 TC3-4.6535 BAU .9065
RDE .1631 RRA .1363 RC3 -.2694 FAU .04614
FDE-1.9835 FRA 1.9244 FC3-2.7459 BSP 18783
BOE 2.3669 BRA 1.8910 BC3 4.6613 FSP -1398

MID-COURSE EXECUTION ACCURACY
SGT 5927.9 SGR 392.7 SG3 420.0
RRT .2489 RRF .2274 RTF .9773
SGB 5940.8 R23 -.0174 R13 .9773
SG1 5928.7 SG2 380.3 THA .95

ORBIT DETERMINATION ACCURACY
ST 3672.9 SR 254.5 SS 1573.1
CRT -.8600 CRS .8325 CST -.9986
LSA 4000.9 MSA 151.4 SSA 17.3
EL1 3679.5 EL2 129.6 ALF 176.59

LAUNCH DATE JUN 1 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 12 1967

HELIOCENTRIC CONIC DISTANCE 545.068

RL 151.69 LAL .00 LOL 249.83 VL 26.527 GAL 5.09 AZL 93.26 HCA 253.29 SMA 126.87 ECC .21415 INC 3.2559 V1 29.371
RP 107.49 LAP 3.12 LOP 143.10 VP 37.725 GAP 8.74 AZP 89.06 TAL 160.63 TAP 53.92 RCA 99.70 APO 154.03 V2 35.254
RC 138.949 GL -22.38 GP -2.50 ZAL 58.08 ZAP 160.16 ETS 353.26 ZAE 127.50 ETE 182.36 ZAC 102.80 ETC 14.23 CLP-160.31

PLANETOCENTRIC CONIC

C3 15.532 VHL 3.941 DLA -26.28 RAL 184.09 RAD 6567.6 VEL 11.701 PTH 2.06 VHP 6.040 DPA 7.57 RAP 164.51 ECC 1.2556

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 27 4	1142.70	12.89	339.55	45.35	115.43	11 46 7	542.7	16.21	332.45
90.00	14 35 20	5812.77	26.49	277.50	50.01	100.38	16 12 13	5212.8	27.66	269.02
100.00	12 19 40	972.80	10.65	325.91	44.20	118.10	12 35 53	372.8	14.32	319.05
100.00	16 25 24	5457.90	28.98	251.83	50.45	97.69	17 56 22	4857.9	29.74	243.11
110.00	12 37 48	915.89	6.20	318.92	41.51	123.68	12 53 4	315.9	10.59	312.57
110.00	18 23 46	5087.58	34.13	224.22	50.97	91.98	19 48 33	4487.6	34.03	214.98

DIFFERENTIAL CORRECTIONS
TDE-2.4454 TRA 2.0738 TC3-4.4189 BAU .9190
RDE .1828 RRA .1370 RC3 -.2445 FAU .04217
FDE-1.8953 FRA 1.9270 FC3-2.3502 BSP 19085
BOE 2.4522 BRA 2.0783 BC3 4.4256 FSP -1317

MID-COURSE EXECUTION ACCURACY
SGT 6006.3 SGR 396.4 SG3 393.9
RRT .1989 RRF .1765 RTF .9770
SGB 6019.4 R23 -.0191 R13 .9770
SG1 6006.8 SG2 388.4 THA .76

ORBIT DETERMINATION ACCURACY
ST 3696.9 SR 274.0 SS 1519.1
CRT -.8656 CRS .8392 CST -.9986
LSA 4003.1 MSA 156.0 SSA 17.0
EL1 3704.5 EL2 136.9 ALF 176.32

LAUNCH DATE JUN 1 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 14 1967

HELIOCENTRIC CONIC DISTANCE 550.891

RL 151.69 LAL .00 LOL 249.83 VL 26.497 GAL 5.49 AZL 93.28 HCA 256.54 SMA 126.67 ECC .21865 INC 3.2794 V1 29.371
RP 107.50 LAP 3.19 LOP 146.35 VP 37.702 GAP 9.19 AZP 89.24 TAL 159.54 TAP 56.08 RCA 98.98 APO 154.37 V2 35.251
RC 141.095 GL -21.71 GP -2.36 ZAL 56.24 ZAP 161.58 ETS 352.98 ZAE 127.03 ETE 182.27 ZAC 100.99 ETC 14.14 CLP-161.73

PLANETOCENTRIC CONIC

C3 16.641 VHL 4.079 DLA -26.41 RAL 186.15 RAD 6567.7 VEL 11.748 PTH 2.07 VHP 6.277 DPA 6.99 RAP 166.27 ECC 1.2739

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 38 21	1148.14	12.73	339.87	48.53	115.51	11 57 29	548.1	16.06	332.78
90.00	14 40 32	5838.68	26.16	279.32	53.25	101.24	16 17 50	5238.7	27.45	270.89
100.00	12 30 8	980.92	10.39	326.38	47.32	118.19	12 46 29	380.9	14.07	319.53
100.00	16 31 26	5481.14	28.75	253.52	53.75	98.55	18 2 47	4881.1	29.64	244.83
110.00	12 47 27	926.59	5.80	319.49	44.54	123.75	13 2 53	326.6	10.19	313.15
110.00	18 30 37	5108.23	34.07	225.83	54.38	92.93	19 55 45	4508.2	34.10	216.58

DIFFERENTIAL CORRECTIONS
TDE-2.5284 TRA 2.2745 TC3-4.1726 BAU .9296
RDE .2031 RRA .1371 RC3 -.2205 FAU .03842
FDE-1.8127 FRA 1.9315 FC3-1.9990 BSP 19356
BOE 2.5366 BRA 2.2786 BC3 4.1784 FSP -1242

MID-COURSE EXECUTION ACCURACY
SGT 6076.4 SGR 399.9 SG3 369.8
RRT .1508 RRF .1276 RTF .9766
SGB 6089.6 R23 -.0205 R13 .9766
SG1 6076.7 SG2 395.4 THA .57

ORBIT DETERMINATION ACCURACY
ST 3710.4 SR 292.5 SS 1466.4
CRT -.8693 CRS .8439 CST -.9987
LSA 3997.1 MSA 160.8 SSA 16.7
EL1 3719.1 EL2 144.2 ALF 176.07

LAUNCH DATE JUN 1 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 16 1967

HELIOCENTRIC CONIC DISTANCE 556.674

RL 151.69 LAL .00 LOL 249.83 VL 26.467 GAL 5.92 AZL 93.30 HCA 259.78 SMA 126.48 ECC .22548 INC 3.3023 V1 29.371
RP 107.51 LAP 3.25 LOP 149.60 VP 37.677 GAP 9.65 AZP 89.41 TAL 158.44 TAP 58.22 RCA 98.22 APO 154.75 V2 35.247
RC 143.232 GL -21.01 GP -2.24 ZAL 54.42 ZAP 162.95 ETS 352.65 ZAE 126.59 ETE 182.18 ZAC 99.14 ETC 14.04 CLP-163.09

PLANETOCENTRIC CONIC

C3 17.888 VHL 4.229 DLA -26.50 RAL 188.20 RAD 6567.7 VEL 11.801 PTH 2.09 VHP 6.525 DPA 6.38 RAP 168.06 ECC 1.2944

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 48 39	1157.70	12.45	340.43	51.71	115.64	12 7 57	557.7	15.80	333.36
90.00	14 46 33	5862.54	25.84	280.99	56.53	102.01	16 24 16	5262.5	27.23	272.60
100.00	12 39 50	992.40	10.02	327.03	50.45	118.31	12 56 22	392.4	13.72	320.20
100.00	16 38 4	5503.07	28.52	255.11	57.10	99.36	18 9 47	4903.1	29.52	246.45
110.00	12 56 34	939.89	5.30	320.19	47.58	123.82	13 12 14	339.9	9.70	313.87
110.00	18 37 49	5128.35	33.99	227.40	57.04	93.85	20 3 18	4528.3	34.15	218.15

DIFFERENTIAL CORRECTIONS
TDE-2.6109 TRA 2.4880 TC3-3.9205 BAU .9388
RDE .2240 RRA .1364 RC3 -.1975 FAU .03495
FDE-1.7348 FRA 1.9374 FC3-1.6913 BSP 19805
BDE 2.6205 BRA 2.4918 BC3 3.9254 FSP -1172

MID-COURSE EXECUTION ACCURACY
SGT 6139.3 SGR 403.3 SG3 347.4
RRT .1042 RRF .0808 RTF .9763
SGB 6152.6 R23 -.0214 R13 .9762
SG1 6139.5 SG2 401.1 THA .39

ORBIT DETERMINATION ACCURACY
ST 3714.4 SR 309.8 SS 1414.9
CRT -.8717 CRS .8470 CST -.9988
LSA 3983.3 NSA 165.9 SSA 16.4
EL1 3724.2 EL2 151.4 ALF 175.84

LAUNCH DATE JUN 1 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 18 1967

HELIOCENTRIC CONIC DISTANCE 562.413

RL 151.69 LAL .00 LOL 249.83 VL 26.437 GAL 6.37 AZL 93.32 HCA 263.03 SMA 126.29 ECC .22866 INC 3.3247 V1 29.371
RP 107.53 LAP 3.30 LOP 152.85 VP 37.651 GAP 10.12 AZP 89.60 TAL 157.33 TAP 60.36 RCA 97.41 APO 155.17 V2 35.243
RC 145.356 GL -20.30 GP -2.14 ZAL 52.62 ZAP 164.27 ETS 352.27 ZAE 126.18 ETE 182.10 ZAC 97.24 ETC 13.95 CLP-164.41

PLANETOCENTRIC CONIC

C3 19.294 VHL 4.392 DLA -26.55 RAL 190.22 RAD 6567.8 VEL 11.861 PTH 2.10 VHP 6.784 DPA 5.72 RAP 169.89 ECC 1.3175

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 57 54	1171.44	12.04	341.24	54.89	115.82	12 17 25	571.4	15.42	334.19
90.00	14 53 25	5884.30	25.52	282.51	59.85	102.71	16 31 29	5284.3	27.02	274.16
100.00	12 48 44	1007.26	9.53	327.87	53.58	118.47	13 5 31	407.3	13.26	321.07
100.00	16 45 16	5523.71	28.28	256.60	60.48	100.10	18 17 20	4923.7	29.39	247.97
110.00	13 5 8	955.76	4.69	321.02	50.63	123.90	13 21 4	355.8	9.11	314.72
110.00	18 45 21	5147.98	33.89	228.92	61.53	94.75	20 11 9	4548.0	34.18	219.69

DIFFERENTIAL CORRECTIONS
TDE-2.6900 TRA 2.7185 TC3-3.6573 BAU .9445
RDE .2457 RRA .1347 RC3 -.1755 FAU .03156
FDE-1.6593 FRA 1.9471 FC3-1.4162 BSP 19752
BDE 2.7012 BRA 2.7218 BC3 3.6615 FSP -1101

MID-COURSE EXECUTION ACCURACY
SGT 6192.6 SGR 406.3 SG3 326.6
RRT .0594 RRF .0363 RTF .9758
SGB 6205.9 R23 -.0219 R13 .9758
SG1 6192.6 SG2 405.6 THA .22

ORBIT DETERMINATION ACCURACY
ST 3706.2 SR 325.9 SS 1363.5
CRT -.8727 CRS .8486 CST -.9988
LSA 3958.7 NSA 171.5 SSA 16.1
EL1 3717.1 EL2 158.7 ALF 175.60

LAUNCH DATE JUN 1 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 20 1967

HELIOCENTRIC CONIC DISTANCE 568.102

RL 151.69 LAL .00 LOL 249.83 VL 26.406 GAL 6.86 AZL 93.35 HCA 266.27 SMA 126.10 ECC .23424 INC 3.3469 V1 29.371
RP 107.54 LAP 3.34 LOP 156.10 VP 37.625 GAP 10.62 AZP 89.78 TAL 156.22 TAP 62.49 RCA 96.56 APO 155.63 V2 35.237
RC 147.469 GL -19.57 GP -2.04 ZAL 50.86 ZAP 165.55 ETS 351.83 ZAE 125.81 ETE 182.03 ZAC 95.32 ETC 13.86 CLP-165.69

PLANETOCENTRIC CONIC

C3 20.879 VHL 4.569 DLA -26.56 RAL 192.20 RAD 6567.8 VEL 11.927 PTH 2.12 VHP 7.056 DPA 5.03 RAP 171.74 ECC 1.3436

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 6 4	1189.39	11.51	342.28	58.06	116.05	12 25 53	589.4	14.92	335.27
90.00	15 1 4	615.92	25.22	305.96	63.21	103.33	15 11 20	15.9	26.80	297.65
100.00	12 56 50	1025.45	8.94	328.90	56.71	118.64	13 13 55	425.5	12.70	322.12
100.00	16 53 0	5543.14	28.04	257.99	63.89	100.80	18 25 23	4943.1	29.25	249.40
110.00	13 13 10	974.17	3.99	321.99	53.69	123.98	13 29 24	374.2	8.43	315.70
110.00	18 53 9	5167.18	33.77	230.41	64.85	95.62	20 19 16	4567.2	34.18	221.19

DIFFERENTIAL CORRECTIONS
TDE-2.7732 TRA 2.9598 TC3-3.4013 BAU .9504
RDE .2680 RRA .1319 RC3 -.1549 FAU .02854
FDE-1.5923 FRA 1.9555 FC3-1.1835 BSP 19972
BDE 2.7861 BRA 2.9827 BC3 3.4048 FSP -1042

MID-COURSE EXECUTION ACCURACY
SGT 6242.5 SGR 408.8 SG3 307.5
RRT .0152 RRF -.0075 RTF .9756
SGB 6255.9 R23 -.0224 R13 .9756
SG1 6242.5 SG2 408.8 THA .06

ORBIT DETERMINATION ACCURACY
ST 3694.6 SR 340.6 SS 1316.5
CRT -.8734 CRS .8499 CST -.9988
LSA 3932.9 NSA 176.6 SSA 15.7
EL1 3706.6 EL2 165.4 ALF 175.39

LAUNCH DATE JUN 1 1967 FLIGHT TIME 204.00 ARRIVAL DATE DEC 22 1967

HELIOCENTRIC CONIC DISTANCE 573.737

RL 151.69 LAL .00 LOL 249.83 VL 26.376 GAL 7.37 AZL 93.37 HCA 269.52 SMA 125.90 ECC .24024 INC 3.3688 V1 29.371
RP 107.56 LAP 3.37 LOP 159.35 VP 37.598 GAP 11.13 AZP 89.97 TAL 155.10 TAP 64.62 RCA 95.66 APO 156.15 V2 35.231
RC 149.570 GL -18.83 GP -1.95 ZAL 49.14 ZAP 166.79 ETS 351.31 ZAE 125.45 ETE 181.96 ZAC 93.36 ETC 13.78 CLP-166.94

PLANETOCENTRIC CONIC

C3 22.670 VHL 4.761 DLA -26.53 RAL 194.14 RAD 6567.9 VEL 12.002 PTH 2.14 VHP 7.341 DPA 4.32 RAP 173.61 ECC 1.3731

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 13 10	1211.42	10.85	343.56	61.21	116.32	12 33 22	611.4	14.30	336.58
90.00	15 9 28	633.64	24.93	307.18	66.61	103.88	15 20 1	33.6	26.60	298.91
100.00	13 4 7	1046.88	8.24	330.10	59.83	118.84	13 21 34	446.9	12.03	323.36
100.00	17 1 12	5561.45	27.80	259.30	67.33	101.45	18 33 53	4961.5	29.10	250.74
110.00	13 20 38	995.05	3.20	323.08	56.74	124.05	13 37 13	395.1	7.65	316.82
110.00	19 1 11	5186.05	33.64	231.86	68.40	96.47	20 27 37	4586.0	34.17	222.66

DIFFERENTIAL CORRECTIONS
TDE-2.8566 TRA 3.2167 TC3-3.1456 BAU .9542
RDE .2909 RRA .1279 RC3 -.1355 FAU .02570
FDE-1.5298 FRA 1.9657 FC3 -.9814 BSP 20169
BDE 2.8714 BRA 3.2193 BC3 3.1485 FSP -985

MID-COURSE EXECUTION ACCURACY
SGT 6285.5 SGR 410.9 SG3 289.8
RRT -.0280 RRF -.0500 RTF .9754
SGB 6298.9 R23 .0225 R13 -.9754
SG1 6285.5 SG2 410.7 THA 179.89

ORBIT DETERMINATION ACCURACY
ST 3675.5 SR 353.9 SS 1271.6
CRT -.8734 CRS .8505 CST -.9989
LSA 3901.0 NSA 181.6 SSA 15.3
EL1 3688.5 EL2 171.7 ALF 175.18

LAUNCH DATE JUN 1 1967 FLIGHT TIME 206.00 ARRIVAL DATE DEC 24 1967

HELIOCENTRIC CONIC DISTANCE 579.311

RL 151.69 LAL .00 LOL 249.83 VL 26.345 GAL 7.91 AZL 93.39 HCA 272.76 SMA 125.71 ECC .24671 INC 3.3907 V1 29.371
RP 107.58 LAP 3.39 LOP 162.60 VP 37.570 GAP 11.67 AZP 90.16 TAL 153.99 TAP 66.75 RCA 94.70 APO 156.73 V2 35.225
RC 151.657 GL -18.09 GP -1.87 ZAL 47.47 ZAP 168.01 ETS 350.69 ZAE 125.12 ETE 181.89 ZAC 91.37 ETC 13.72 CLP-168.15

PLANETOCENTRIC CONIC

C3 24.697 VHL 4.970 DLA -26.47 RAL 196.04 RAD 6568.0 VEL 12.086 PTH 2.16 VHP 7.643 DPA 3.57 RAP 175.50 ECC 1.4064

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 19 15	1237.31	10.06	345.06	64.34	116.61	12 39 52	637.3	13.56	338.12
90.00	15 18 30	649.62	24.67	308.28	70.04	104.36	15 29 19	49.6	26.40	300.04
100.00	13 10 37	1071.41	7.43	331.47	62.94	119.04	13 28 28	471.4	11.25	324.76
100.00	17 9 48	5578.80	27.56	260.53	70.79	102.06	18 42 47	4978.8	28.94	252.00
110.00	13 27 32	1018.32	2.31	324.30	59.78	124.11	13 44 30	418.3	6.77	318.05
110.00	19 9 23	5204.65	33.49	233.29	71.97	97.31	20 36 8	4604.6	34.13	224.11

DIFFERENTIAL CORRECTIONS
TDE-2.9407 TRA 3.4902 TC3-2.8924 BAU .9558
RDE .3146 RRA .1227 RC3 -.1175 FAU .02301
FDE-1.4713 FRA 1.9780 FC3 -.8065 BSP 20337
BDE 2.9575 BRA 3.4923 BC3 2.8948 FSP -932

MID-COURSE EXECUTION ACCURACY
SGT 6321.9 SGR 412.4 SG3 273.4
RRT -.0705 RRF -.0913 RTF .9753
SGB 6335.3 RZ3 .0223 RI3 -.9753
SG1 6321.9 SG2 411.4 THA 179.74

ORBIT DETERMINATION ACCURACY
ST 3649.8 SR 365.8 SS 1228.7
CRT -.8730 CRS .8506 CST -.9989
LSA 3863.9 MSA 186.5 SSA 14.9
EL1 3663.8 EL2 177.7 ALF 174.99

LAUNCH DATE JUN 1 1967 FLIGHT TIME 208.00 ARRIVAL DATE DEC 26 1967

HELIOCENTRIC CONIC DISTANCE 584.817

RL 151.69 LAL .00 LOL 249.83 VL 26.314 GAL 8.50 AZL 93.41 HCA 276.00 SMA 125.52 ECC .25370 INC 3.4127 V1 29.371
RP 107.60 LAP 3.39 LOP 165.84 VP 37.542 GAP 12.23 AZP 90.36 TAL 152.88 TAP 68.88 RCA 93.68 APO 157.36 V2 35.217
RC 153.730 GL -17.35 GP -1.80 ZAL 45.84 ZAP 169.20 ETS 349.94 ZAE 124.80 ETE 181.82 ZAC 89.37 ETC 13.66 CLP-169.34

PLANETOCENTRIC CONIC

C3 26.994 VHL 5.196 DLA -26.38 RAL 197.88 RAD 6568.1 VEL 12.181 PTH 2.19 VHP 7.961 DPA 2.81 RAP 177.40 ECC 1.4443

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 24 22	1266.77	9.16	346.75	67.44	116.91	12 45 28	666.8	12.70	339.86
90.00	15 28 4	664.15	24.42	309.27	73.49	104.80	15 39 8	64.1	26.22	301.06
100.00	13 16 21	1098.86	6.52	333.00	66.02	119.24	13 34 40	498.9	10.37	326.33
100.00	17 18 45	5595.33	27.32	261.70	74.28	102.63	18 52 1	4995.3	28.79	253.21
110.00	13 33 52	1043.89	1.33	325.63	62.81	124.16	13 51 16	443.9	5.81	319.40
110.00	19 17 44	5223.07	33.32	234.71	75.55	98.13	20 44 47	4623.1	34.08	225.55

DIFFERENTIAL CORRECTIONS
TDE-3.0233 TRA 3.7845 TC3-2.6367 BAU .9530
RDE .3388 RRA .1159 RC3 -.1010 FAU .02037
FDE-1.4155 FRA 1.9942 FC3 -.6534 BSP 20405
BDE 3.0422 BRA 3.7863 BC3 2.6406 FSP -878

MID-COURSE EXECUTION ACCURACY
SGT 6351.0 SGR 413.5 SG3 258.1
RRT -.1117 RRF -.1310 RTF .9752
SGB 6364.4 RZ3 .0217 RI3 -.9752
SG1 6351.2 SG2 410.9 THA 179.58

ORBIT DETERMINATION ACCURACY
ST 3616.0 SR 376.1 SS 1187.3
CRT -.8718 CRS .8498 CST -.9990
LSA 3819.6 MSA 191.3 SSA 14.5
EL1 3630.9 EL2 183.5 ALF 174.81

LAUNCH DATE JUN 1 1967 FLIGHT TIME 210.00 ARRIVAL DATE DEC 28 1967

HELIOCENTRIC CONIC DISTANCE 590.244

RL 151.69 LAL .00 LOL 249.83 VL 26.284 GAL 9.12 AZL 93.44 HCA 279.24 SMA 125.33 ECC .26125 INC 3.4350 V1 29.371
RP 107.63 LAP 3.39 LOP 169.09 VP 37.513 GAP 12.83 AZP 90.55 TAL 151.78 TAP 71.02 RCA 92.59 APO 158.07 V2 35.210
RC 155.789 GL -16.61 GP -1.73 ZAL 44.26 ZAP 170.36 ETS 349.03 ZAE 124.50 ETE 181.75 ZAC 87.35 ETC 13.61 CLP-170.52

PLANETOCENTRIC CONIC

C3 29.604 VHL 5.441 DLA -26.25 RAL 199.66 RAD 6568.2 VEL 12.287 PTH 2.21 VHP 8.299 DPA 2.03 RAP 179.32 ECC 1.4872

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 28 36	1299.47	8.15	348.62	70.51	117.21	12 50 15	699.5	11.73	341.78
90.00	15 38 3	677.50	24.18	310.18	76.96	105.20	15 49 20	77.5	26.04	302.00
100.00	13 21 22	1129.06	5.52	334.68	69.08	119.43	13 40 11	529.1	9.39	328.04
100.00	17 27 58	5611.19	27.08	262.82	77.77	103.17	19 1 29	5011.2	28.62	254.36
110.00	13 39 39	1071.65	.27	327.08	65.83	124.18	13 57 31	471.6	4.76	320.86
110.00	19 26 10	5241.37	33.13	236.10	79.13	98.93	20 53 31	4641.4	34.01	226.97

DIFFERENTIAL CORRECTIONS
TDE-3.1120 TRA 4.0935 TC3-2.3979 BAU .9496
RDE .3637 RRA .1075 RC3 -.0860 FAU .01800
FDE-1.3667 FRA 2.0100 FC3 -.5265 BSP 20554
BDE 3.1332 BRA 4.0949 BC3 2.3994 FSP -833

MID-COURSE EXECUTION ACCURACY
SGT 6375.6 SGR 414.0 SG3 243.9
RRT -.1531 RRF -.1708 RTF .9753
SGB 6389.1 RZ3 .0211 RI3 -.9753
SG1 6376.0 SG2 409.0 THA 179.43

ORBIT DETERMINATION ACCURACY
ST 3581.1 SR 384.8 SS 1150.2
CRT -.8708 CRS .8493 CST -.9990
LSA 3775.8 MSA 195.3 SSA 14.2
EL1 3596.8 EL2 188.4 ALF 174.64

LAUNCH DATE JUN 1 1967 FLIGHT TIME 212.00 ARRIVAL DATE DEC 30 1967

HELIOCENTRIC CONIC DISTANCE 595.583

RL 151.69 LAL .00 LOL 249.83 VL 26.253 GAL 9.78 AZL 93.46 HCA 282.48 SMA 125.14 ECC .26944 INC 3.4577 V1 29.371
RP 107.65 LAP 3.38 LOP 172.33 VP 37.484 GAP 13.45 AZP 90.75 TAL 150.69 TAP 73.17 RCA 91.42 APO 158.86 V2 35.201
RC 157.834 GL -15.87 GP -1.67 ZAL 42.73 ZAP 171.51 ETS 347.89 ZAE 124.20 ETE 181.68 ZAC 85.32 ETC 13.59 CLP-171.67

PLANETOCENTRIC CONIC

C3 32.577 VHL 5.708 DLA -26.10 RAL 201.38 RAD 6568.3 VEL 12.408 PTH 2.24 VHP 8.660 DPA 1.23 RAP 181.24 ECC 1.5361

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 32 1	1335.08	7.03	350.64	73.54	117.50	12 54 17	735.1	10.66	343.85
90.00	15 48 21	689.98	23.96	311.02	80.43	105.56	15 59 51	90.0	25.86	302.87
100.00	13 25 41	1161.80	4.42	336.49	72.11	119.59	13 45 3	561.8	8.33	329.88
100.00	17 37 22	5626.54	26.84	263.90	81.27	103.68	19 11 9	5026.5	28.45	255.47
110.00	13 44 54	1101.49	-.87	328.63	68.82	124.17	14 3 16	501.5	3.62	322.43
110.00	19 34 39	5259.61	32.93	237.49	82.72	99.73	21 2 18	4659.6	33.92	228.39

DIFFERENTIAL CORRECTIONS
TDE-3.2034 TRA 4.4229 TC3-2.1642 BAU .9431
RDE .3892 RRA .0974 RC3 -.0725 FAU .01574
FDE-1.3219 FRA 2.0286 FC3 -.4184 BSP 20688
BDE 3.2269 BRA 4.4240 BC3 2.1654 FSP -790

MID-COURSE EXECUTION ACCURACY
SGT 6394.3 SGR 413.9 SG3 230.7
RRT -.1940 RRF -.2098 RTF .9756
SGB 6407.7 RZ3 .0202 RI3 -.9756
SG1 6394.8 SG2 406.0 THA 179.28

ORBIT DETERMINATION ACCURACY
ST 3542.0 SR 392.0 SS 1115.8
CRT -.8696 CRS .8486 CST -.9991
LSA 3728.9 MSA 198.8 SSA 13.8
EL1 3558.4 EL2 192.6 ALF 174.49

LAUNCH DATE JUN 1 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 1 1968

DISTANCE 600.821

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.223 GAL 10.49 AZL 93.48 HCA 285.71 SMA 124.95 ECC .27833 INC 3.4809 V1 29.371
RP 107.68 LAP 3.35 LOP 175.58 VP 37.454 GAP 14.12 AZP 90.94 TAL 149.62 TAP 75.33 RCA 90.17 APO 159.73 V2 35.192
RC 159.863 GL -15.13 GP -1.62 ZAL 41.27 ZAP 172.64 ETS 346.42 ZAE 123.90 ETE 181.62 ZAC 83.29 ETC 13.57 CLP-172.82

PLANETOCENTRIC CONIC
C3 35.973 VHL 5.998 DLA -25.92 RAL 203.03 RAD 6568.4 VEL 12.544 PTH 2.27 VHP 9.044 DPA .41 RAP 183.17 ECC 1.5920

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 34 44	1373.26	5.83	352.80	76.53	117.76	12 57 37	773.3	9.50	346.05
90.00	15 58 50	701.84	23.74	311.82	83.92	105.91	16 10 32	101.8	25.69	303.70
100.00	13 29 21	1196.87	3.24	338.42	75.11	119.73	13 49 18	596.9	7.17	331.84
100.00	17 46 54	5641.50	26.59	264.94	84.76	104.18	19 20 56	5041.5	28.28	256.55
110.00	13 49 37	1133.28	-2.08	330.29	71.80	124.13	14 8 30	533.3	2.41	324.09
110.00	19 43 8	5277.86	32.71	238.87	86.30	100.52	21 11 5	4677.9	33.82	229.80

DIFFERENTIAL CORRECTIONS
TDE-3.2979 TRA 4.7748 TC3-1.9383 BAU .9326
RDE .4152 RRA .0854 RC3 -.0605 FAU .01358
FDE-1.2811 FRA 2.0502 FC3 -.3268 BSP 20789
BDE 3.3239 BRA 4.7756 BC3 1.9392 FSP -749

MID-COURSE EXECUTION ACCURACY
SGT 6407.1 SGR 413.3 SG3 218.5
RRT -.2344 RRF -.2482 RTF .9759
SGB 6420.4 R23 -.0191 R13 -.9760
SG1 6407.9 SG2 401.7 THA 179.13

ORBIT DETERMINATION ACCURACY
ST 3499.3 SR 397.6 SS 1084.1
CRT -.8683 CRS .8478 CST -.9991
LSA 3679.3 MSA 201.8 SSA 13.4
EL1 3516.3 EL2 196.2 ALF 174.35

LAUNCH DATE JUN 1 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 3 1968

DISTANCE 605.941

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.192 GAL 11.26 AZL 93.50 HCA 288.95 SMA 124.76 ECC .28800 INC 3.5049 V1 29.371
RP 107.71 LAP 3.31 LOP 178.82 VP 37.424 GAP 14.83 AZP 91.14 TAL 148.57 TAP 77.52 RCA 88.83 APO 160.70 V2 35.183
RC 161.876 GL -14.40 GP -1.57 ZAL 39.86 ZAP 173.76 ETS 344.43 ZAE 123.60 ETE 181.55 ZAC 81.25 ETC 13.58 CLP-173.96

PLANETOCENTRIC CONIC
C3 39.863 VHL 6.314 DLA -25.71 RAL 204.62 RAD 6568.5 VEL 12.698 PTH 2.31 VHP 9.457 DPA -.41 RAP 185.09 ECC 1.6560

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 36 46	1413.71	4.54	355.08	79.49	117.98	13 0 20	813.7	8.25	348.36
90.00	16 9 26	713.29	23.52	312.59	87.39	106.24	16 21 20	113.3	25.53	304.49
100.00	13 32 25	1234.06	1.98	340.47	78.07	119.83	13 52 59	634.1	5.93	333.91
100.00	17 56 30	5656.20	26.34	265.96	88.25	104.66	19 30 46	5056.2	28.10	257.60
110.00	13 53 49	1166.90	-3.37	332.05	74.74	124.04	14 13 16	566.9	1.12	325.84
110.00	19 51 35	5296.13	32.48	240.24	89.87	101.30	21 19 51	4696.1	33.69	231.22

DIFFERENTIAL CORRECTIONS
TDE-3.3928 TRA 5.1545 TC3-1.7180 BAU .9160
RDE .4417 RRA .0713 RC3 -.0500 FAU .01143
FDE-1.2424 FRA 2.0765 FC3 -.2481 BSP 20774
BDE 3.4215 BRA 5.1550 BC3 1.7187 FSP -707

MID-COURSE EXECUTION ACCURACY
SGT 6414.0 SGR 412.1 SG3 207.1
RRT -.2739 RRF -.2854 RTF .9764
SGB 6427.2 R23 .0176 R13 -.9764
SG1 6415.0 SG2 396.3 THA 178.99

ORBIT DETERMINATION ACCURACY
ST 3451.1 SR 401.4 SS 1054.3
CRT -.8665 CRS .8464 CST -.9992
LSA 3625.0 MSA 204.4 SSA 13.0
EL1 3468.6 EL2 199.3 ALF 174.23

LAUNCH DATE JUN 1 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 5 1968

DISTANCE 610.924

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.162 GAL 12.09 AZL 93.53 HCA 292.18 SMA 124.58 ECC .29855 INC 3.5298 V1 29.371
RP 107.74 LAP 3.27 LOP 182.05 VP 37.393 GAP 15.59 AZP 91.33 TAL 147.55 TAP 79.73 RCA 87.39 APO 161.77 V2 35.172
RC 163.875 GL -13.68 GP -1.52 ZAL 38.51 ZAP 174.87 ETS 341.59 ZAE 123.30 ETE 181.48 ZAC 79.21 ETC 13.60 CLP-175.10

PLANETOCENTRIC CONIC
C3 44.335 VHL 6.658 DLA -25.48 RAL 206.13 RAD 6568.7 VEL 12.872 PTH 2.34 VHP 9.902 DPA -1.23 RAP 187.02 ECC 1.7296

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 38 13	1456.14	3.18	357.46	82.41	118.15	13 2 29	856.1	6.92	350.77
90.00	16 20 4	724.48	23.31	313.34	90.85	106.55	16 32 8	124.5	25.36	305.27
100.00	13 34 52	1273.19	.65	342.61	81.00	119.89	13 56 6	673.2	4.62	336.08
100.00	18 6 5	5670.70	26.09	266.97	91.72	105.13	19 40 36	5070.7	27.91	258.64
110.00	13 57 29	1202.23	-4.71	333.90	77.67	123.90	14 17 32	602.2	-.23	327.69
110.00	19 59 58	5314.42	32.23	241.61	93.42	102.07	21 28 32	4714.4	33.55	232.63

DIFFERENTIAL CORRECTIONS
TDE-3.4986 TRA 5.5554 TC3-1.5132 BAU .8973
RDE .4688 RRA .0551 RC3 -.0410 FAU .00946
FDE-1.2104 FRA 2.1041 FC3 -.1848 BSP 20878
BDE 3.5299 BRA 5.5556 BC3 1.5138 FSP -672

MID-COURSE EXECUTION ACCURACY
SGT 6416.1 SGR 410.5 SG3 196.4
RRT -.3138 RRF -.3230 RTF .9771
SGB 6429.3 R23 .0161 R13 -.9772
SG1 6417.4 SG2 389.6 THA 178.85

ORBIT DETERMINATION ACCURACY
ST 3404.5 SR 403.7 SS 1029.1
CRT -.8653 CRS .8457 CST -.9992
LSA 3573.6 MSA 205.9 SSA 12.6
EL1 3422.5 EL2 201.3 ALF 174.12

LAUNCH DATE JUN 1 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 7 1968

DISTANCE 615.746

HELIOCENTRIC CONIC
RL 151.69 LAL .00 LOL 249.83 VL 26.133 GAL 12.98 AZL 93.56 HCA 295.41 SMA 124.40 ECC .31009 INC 3.5558 V1 29.371
RP 107.78 LAP 3.21 LOP 185.29 VP 37.363 GAP 16.40 AZP 91.53 TAL 146.57 TAP 81.98 RCA 85.82 APO 162.97 V2 35.162
RC 165.860 GL -12.97 GP -1.48 ZAL 37.24 ZAP 175.96 ETS 337.20 ZAE 122.98 ETE 181.42 ZAC 77.19 ETC 13.64 CLP-176.24

PLANETOCENTRIC CONIC
C3 49.497 VHL 7.035 DLA -25.23 RAL 207.57 RAD 6568.8 VEL 13.071 PTH 2.39 VHP 10.383 DPA -2.06 RAP 188.93 ECC 1.8146

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 39 5	1500.31	1.76	359.92	85.28	118.27	13 4 5	900.3	5.52	353.27
90.00	16 30 38	735.51	23.09	314.08	94.28	106.86	16 42 54	135.5	25.18	306.03
100.00	13 36 46	1314.05	-.73	344.85	83.89	119.88	13 58 40	714.0	3.25	338.33
100.00	18 15 38	5685.05	25.83	267.95	95.16	105.59	19 50 23	5085.0	27.72	259.66
110.00	14 0 39	1239.13	-6.11	335.85	80.56	123.70	14 21 18	639.1	-1.64	329.61
110.00	20 8 14	5332.73	31.96	242.97	96.93	102.84	21 37 7	4732.7	33.39	234.03

DIFFERENTIAL CORRECTIONS
TDE-3.6106 TRA 5.9858 TC3-1.3184 BAU .8727
RDE .4984 RRA .0364 RC3 -.0333 FAU .00755
FDE-1.1823 FRA 2.1360 FC3 -.1321 BSP 20943
BDE 3.6446 BRA 5.9859 BC3 1.3188 FSP -639

MID-COURSE EXECUTION ACCURACY
SGT 6413.0 SGR 408.3 SG3 186.5
RRT -.3533 RRF -.3603 RTF .9780
SGB 6425.9 R23 .0144 R13 -.9780
SG1 6414.6 SG2 381.9 THA 178.71

ORBIT DETERMINATION ACCURACY
ST 3356.0 SR 404.4 SS 1006.9
CRT -.8641 CRS .8450 CST -.9992
LSA 3521.0 MSA 206.6 SSA 12.2
EL1 3374.2 EL2 202.4 ALF 174.03

```
LAUNCH DATE  JUN  2 1967                          FLIGHT TIME  70.00                          ARRIVAL DATE  AUG 11 1967

  HELIOCENTRIC CONIC                                  DISTANCE 148.401
   RL  151.72 LAL     .00 LOL 250.79 VL  20.278 GAL   7.38 AZL  93.15 HCA  55.18 SMA  99.17 ECC .54099 INC 3.1480 VI  29.366
   RP  108.94 LAP   -2.58 LOP 305.94 VP  33.139 GAP -32.31 AZP  91.80 TAL 173.26 TAP 228.83 RCA  45.52 APO 152.82 V2  34.785
   RC  50.440 GL    -6.58 GP     .60 ZAL  75.93 ZAP  20.93 ETS 182.69 ZAE 160.66 ETE 151.08 ZAC 117.38 ETC  17.52 CLP  20.92
  PLANETOCENTRIC CONIC
   C3  92.918 VHL  9.639 DLA  -4.03 RAL 172.76 RAD 6569.8 VEL 14.638 PTH   2.65 VHP 18.988 DPA  16.13 RAP 150.43 ECC 2.5292
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00      6 43  5   2463.74     -24.73     57.90      59.02      104.25    7 24  8     1863.7     -22.53      49.92
      90.00     17 41  6   5358.36      27.75    244.55      62.72       84.10   19 10 24     4758.4      26.64     236.06
     100.00      8  2 32   2207.43     -26.18     38.64      58.60      104.96    8 39 19     1607.4     -23.87      30.60
     100.00     19  4 20   5089.90      29.24    224.62      62.54       83.48   20 29 10     4489.9      28.03     216.03
     110.00      9  6 26   2007.36     -30.10     22.18      57.33      107.02    9 39 54     1407.4     -27.48      13.97
     110.00     20 16 55   4862.74      33.28    206.76      61.92       81.71   21 37 57     4262.7      31.78     197.86
  DIFFERENTIAL CORRECTIONS                            MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE  .5155 TRA-1.2180 TC3 -.0765 BAU  .1076        SGT  801.5 SGR  444.8 SG3   38.9        ST   375.9 SR   396.1 SS   343.4
   RDE -.6591 RRA -.3283 RC3  .0407 FAU .01570        RRT  .0291 RRF -.0283 RTF -.6399        CRT -.7204 CRS -.8321 CST  .9824
   FDE -.3187 FRA  .4957 FC3 -.1462 BSP   2131        SGB  916.7 R23 -.0014 R13 -.6400        LSA  608.6 MSA  213.3 SSA   14.0
   BDE  .8367 BRA 1.2615 BC3  .0866 FSP    -82        SG1  801.6 SG2  444.6 THA   1.34       EL1  506.6 EL2  203.9 ALF 132.92

LAUNCH DATE  JUN  2 1967                          FLIGHT TIME  72.00                          ARRIVAL DATE  AUG 13 1967

  HELIOCENTRIC CONIC                                  DISTANCE 154.689
   RL  151.72 LAL     .00 LOL 250.79 VL  20.824 GAL   7.06 AZL  93.17 HCA  58.34 SMA 100.86 ECC .51534 INC 3.1741 VI  29.366
   RP  108.94 LAP   -2.70 LOP 309.10 VP  33.474 GAP -30.71 AZP  91.67 TAL 173.26 TAP 231.60 RCA  48.88 APO 152.83 V2  34.784
   RC  49.035 GL    -7.22 GP     .62 ZAL  75.36 ZAP  19.36 ETS 182.80 ZAE 162.01 ETE 146.85 ZAC 115.85 ETC  17.20 CLP  19.35
  PLANETOCENTRIC CONIC
   C3  82.824 VHL  9.101 DLA  -4.86 RAL 173.05 RAD 6569.6 VEL 14.289 PTH   2.60 VHP 18.128 DPA  15.62 RAP 151.99 ECC 2.3631
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00      6 50 26   2412.24     -23.82     54.40      57.15      105.78    7 30 39     1812.2     -21.43      46.55
      90.00     17 36  1   5358.59      27.75    244.57      61.46       84.11   19  5 20     4758.6      26.64     236.08
     100.00      8  9 30   2157.21     -25.25     35.20      56.70      106.55    8 45 27     1557.2     -22.74      27.30
     100.00     18 59 39   5088.84      29.23    224.55      61.28       83.44   20 24 28     4488.8      28.01     215.95
     110.00      9 12 30   1959.97     -29.11     18.85      55.32      108.76    9 45 10     1360.0     -26.27      10.81
     110.00     20 13  8   4858.85      33.24    206.47      60.86       81.53   21 34  7     4258.8      31.72     197.57
  DIFFERENTIAL CORRECTIONS                            MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE  .5133 TRA-1.2066 TC3 -.0741 BAU  .0969        SGT  838.9 SGR  448.8 SG3   42.5        ST   395.9 SR   398.6 SS   363.6
   RDE -.6261 RRA -.3121 RC3  .0466 FAU .01614        RRT  .0306 RRF -.0291 RTF -.6590        CRT -.7215 CRS -.8363 CST  .9815
   FDE -.3349 FRA  .5096 FC3 -.1687 BSP   2232        SGB  951.5 R23 -.0009 R13 -.6590        LSA  632.7 MSA  217.4 SSA   14.3
   BDE  .8096 BRA 1.2463 BC3  .0875 FSP    -91        SG1  839.1 SG2  448.5 THA   1.31       EL1  521.2 EL2  209.6 ALF 134.73

LAUNCH DATE  JUN  2 1967                          FLIGHT TIME  74.00                          ARRIVAL DATE  AUG 15 1967

  HELIOCENTRIC CONIC                                  DISTANCE 161.037
   RL  151.72 LAL     .00 LOL 250.79 VL  21.351 GAL   6.74 AZL  93.20 HCA  61.51 SMA 102.52 ECC .49076 INC 3.1985 VI  29.366
   RP  108.94 LAP   -2.81 LOP 312.26 VP  33.792 GAP -29.19 AZP  91.53 TAL 172.91 TAP 234.41 RCA  52.21 APO 152.84 V2  34.784
   RC  47.750 GL    -7.90 GP     .64 ZAL  74.89 ZAP  17.79 ETS 182.96 ZAE 163.38 ETE 141.65 ZAC 114.30 ETC  16.90 CLP  17.78
  PLANETOCENTRIC CONIC
   C3  73.895 VHL  8.596 DLA  -5.68 RAL 173.23 RAD 6569.4 VEL 13.973 PTH   2.55 VHP 17.303 DPA  15.10 RAP 153.56 ECC 2.2161
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00      6 57 25   2360.13     -22.81     50.92      55.20      107.24    7 36 45     1760.1     -20.24      43.19
      90.00     17 30 32   5358.18      27.74    244.54      60.06       84.09   18 59 50     4758.2      26.64     236.05
     100.00      8 16  5   2106.39     -24.22     31.77      54.71      108.07    8 51 11     1506.4     -21.53      24.01
     100.00     18 54 34   5087.14      29.21    224.42      59.87       83.37   20 19 21     4487.1      27.99     215.83
     110.00      9 18 10   1912.01     -28.02     15.54      53.24      110.44    9 50  2     1312.0     -24.98       7.69
     110.00     20  8 58   4854.29      33.20    206.12      59.25       81.33   21 29 53     4254.3      31.64     197.24
  DIFFERENTIAL CORRECTIONS                            MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE  .5134 TRA-1.1922 TC3 -.0687 BAU  .0859        SGT  876.8 SGR  452.1 SG3   46.6        ST   417.7 SR   400.3 SS   385.1
   RDE -.5939 RRA -.2961 RC3  .0532 FAU .01665        RRT  .0306 RRF -.0295 RTF -.6785        CRT -.7249 CRS -.8410 CST  .9809
   FDE -.3525 FRA  .5231 FC3 -.1950 BSP   2381        SGB  986.5 R23 -.0013 R13 -.6786        LSA  658.9 MSA  220.4 SSA   14.5
   BDE  .7850 BRA 1.2284 BC3  .0869 FSP   -102        SG1  876.9 SG2  451.8 THA   1.23       EL1  537.4 EL2  214.4 ALF 136.68

LAUNCH DATE  JUN  2 1967                          FLIGHT TIME  76.00                          ARRIVAL DATE  AUG 17 1967

  HELIOCENTRIC CONIC                                  DISTANCE 167.441
   RL  151.72 LAL     .00 LOL 250.79 VL  21.802 GAL   6.40 AZL  93.22 HCA  64.67 SMA 104.16 ECC .46728 INC 3.2214 VI  29.366
   RP  108.94 LAP   -2.91 LOP 315.42 VP  34.092 GAP -27.74 AZP  91.38 TAL 172.60 TAP 237.26 RCA  55.49 APO 152.83 V2  34.785
   RC  46.594 GL    -8.62 GP     .67 ZAL  74.51 ZAP  16.24 ETS 183.16 ZAE 164.72 ETE 135.20 ZAC 112.75 ETC  16.61 CLP  16.22
  PLANETOCENTRIC CONIC
   C3  65.994 VHL  8.124 DLA  -6.50 RAL 173.32 RAD 6569.3 VEL 13.688 PTH   2.50 VHP 16.511 DPA  14.58 RAP 155.13 ECC 2.0861
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00      7  4  1   2307.91     -21.71     47.46      53.17      108.64    7 42 29     1707.5     -18.96      39.86
      90.00     17 24 38   5357.30      27.74    244.47      58.51       84.06   18 53 55     4757.3      26.63     235.98
     100.00      8 22 16   2055.09     -23.10     28.38      52.65      109.52    8 56 31     1455.1     -20.23      20.76
     100.00     18 49  4   5084.96      29.20    224.26      58.33       83.29   20 13 49     4485.0      27.96     215.68
     110.00      9 23 26   1863.59     -26.82     12.28      51.09      112.03    9 54 30     1263.6     -23.59       4.61
     110.00     20  4 23   4849.22      33.14    205.73      57.69       81.11   21 25 13     4249.2      31.56     196.86
  DIFFERENTIAL CORRECTIONS                            MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE  .5142 TRA-1.1767 TC3 -.0606 BAU  .0756        SGT  916.0 SGR  454.6 SG3   51.0        ST   440.8 SR   401.2 SS   407.7
   RDE -.5625 RRA -.2803 RC3  .0606 FAU .01720        RRT  .0303 RRF -.0300 RTF -.6975        CRT -.7290 CRS -.8459 CST  .9804
   FDE -.3711 FRA  .5364 FC3 -.2257 BSP   2537        SGB 1022.6 R23 -.0019 R13 -.6975        LSA  686.7 MSA  222.8 SSA   14.8
   BDE  .7621 BRA 1.2097 BC3  .0857 FSP   -114        SG1  916.1 SG2  454.3 THA   1.14       EL1  554.6 EL2  218.3 ALF 138.69
```

LAUNCH DATE JUN 2 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 19 1967

HELIOCENTRIC CONIC DISTANCE 173.896

```
RL  151.72 LAL    .00 LOL 250.79 VL  22.239 GAL   6.06 AZL  93.24 HCA  67.83 SMA 105.75 ECC .44490 INC 3.2432 V1  29.366
RP  108.94 LAP  -3.00 LOP 318.59 VP  34.375 GAP -26.36 AZP  91.23 TAL 172.33 TAP 240.16 RCA  58.70 APO 152.81 V2  34.786
RC  45.578 GL   -9.37 GP     .70 ZAL  74.23 ZAP  14.68 ETS 183.44 ZAE 165.94 ETE 127.20 ZAC 111.20 ETC  16.34 CLP  14.67
```

PLANETOCENTRIC CONIC

```
C3  59.002 VHL  7.681 DLA  -7.32 RAL 173.30 RAD 6569.1 VEL 13.430 PTH   2.45 VHP 15.748 DPA  14.04 RAP 156.69 ECC 1.9710
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 10 14	2254.51	-20.52	44.03	51.08	109.96	7 47 49	1654.5	-17.61	36.56
90.00	17 18 16	5356.14	27.73	244.39	56.83	84.02	18 47 32	4756.1	26.61	235.90
100.00	8 28 4	2003.42	-21.88	25.02	50.53	110.89	9 1 28	1403.4	-18.85	17.54
100.00	18 43 7	5082.47	29.18	224.08	56.64	83.20	20 7 49	4482.5	27.93	215.50
110.00	9 28 18	1814.84	-25.54	9.08	48.91	113.54	9 58 33	1214.8	-22.13	1.58
110.00	19 59 23	4843.81	33.09	205.32	56.00	80.87	21 20 6	4243.8	31.47	196.47

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .5155 TRA-1.1600 TC3 -.0493 BAU  .0668    SGT  956.3 SGR  456.3 SG3   55.8    ST   465.1 SR   401.2 SS   431.7
ROE -.5319 RRA -.2647 RC3  .0888 FAU .01783    RRT  .0301 RRF -.0303 RTF -.7157    CRT -.7337 CRS -.8510 CST  .9799
FOE -.3912 FRA  .5493 FC3 -.2616 BSP   2696    SGB 1059.6 R23 -.0024 R13 -.7157    LSA  716.3 MSA  224.3 SSA   15.0
BOE  .7407 BRA 1.1898 BC3  .0846 FSP   -127    SG1  956.5 SG2  456.0 THA   1.06    EL1  573.0 EL2  221.3 ALF 140.71
```

LAUNCH DATE JUN 2 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 21 1967

HELIOCENTRIC CONIC DISTANCE 180.397

```
RL  151.72 LAL    .00 LOL 250.79 VL  22.645 GAL   5.72 AZL  93.26 HCA  70.99 SMA 107.31 ECC .42362 INC 3.2641 V1  29.366
RP  108.93 LAP  -3.09 LOP 321.75 VP  34.641 GAP -25.05 AZP  91.06 TAL 172.11 TAP 243.10 RCA  61.85 APO 152.77 V2  34.788
RC  44.711 GL  -10.17 GP     .73 ZAL  74.06 ZAP  13.13 ETS 183.82 ZAE 166.94 ETE 117.42 ZAC 109.64 ETC  16.07 CLP  13.11
```

PLANETOCENTRIC CONIC

```
C3  52.816 VHL  7.267 DLA  -8.13 RAL 173.18 RAD 6568.9 VEL 13.198 PTH   2.41 VHP 15.015 DPA  13.50 RAP 158.25 ECC 1.8692
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 16 4	2201.27	-19.24	40.64	48.93	111.18	7 52 45	1601.3	-16.19	33.29
90.00	17 11 26	5354.87	27.72	244.30	55.02	83.97	18 40 41	4754.9	26.60	235.81
100.00	8 33 29	1951.53	-20.59	21.71	48.36	112.17	9 6 0	1351.5	-17.40	14.36
100.00	18 36 43	5079.85	29.16	223.89	54.83	83.10	20 1 22	4479.8	27.89	215.31
110.00	9 32 45	1765.91	-24.17	5.94	46.68	114.94	10 2 11	1165.9	-20.60	358.61
110.00	19 53 55	4836.23	33.02	204.90	54.19	80.63	21 14 33	4238.2	31.38	196.06

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .5153 TRA-1.1444 TC3 -.0361 BAU  .0605    SGT  999.2 SGR  457.2 SG3   61.1    ST   489.7 SR   400.5 SS   456.8
ROE -.5023 RRA -.2495 RC3  .0777 FAU .01850    RRT  .0314 RRF -.0310 RTF -.7315    CRT -.7372 CRS -.8561 CST  .9791
FOE -.4125 FRA  .5623 FC3 -.3032 BSP   2808    SGB 1098.8 R23 -.0019 R13 -.7316    LSA  746.7 MSA  225.7 SSA   15.3
BOE  .7195 BRA 1.1713 BC3  .0857 FSP   -141    SG1  999.3 SG2  456.9 THA   1.04    EL1  591.6 EL2  224.0 ALF 142.68
```

LAUNCH DATE JUN 2 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 23 1967

HELIOCENTRIC CONIC DISTANCE 186.939

```
RL  151.72 LAL    .00 LOL 250.79 VL  23.022 GAL   5.38 AZL  93.28 HCA  74.15 SMA 108.83 ECC .40343 INC 3.2841 V1  29.366
RP  108.92 LAP  -3.16 LOP 324.92 VP  34.891 GAP -23.79 AZP  90.90 TAL 171.94 TAP 246.09 RCA  64.92 APO 152.73 V2  34.791
RC  44.000 GL  -11.00 GP     .77 ZAL  73.99 ZAP  11.58 ETS 184.34 ZAE 167.57 ETE 105.94 ZAC 108.09 ETC  15.83 CLP  11.55
```

PLANETOCENTRIC CONIC

```
C3  47.343 VHL  6.881 DLA  -8.94 RAL 172.94 RAD 6568.8 VEL 12.989 PTH   2.37 VHP 14.310 DPA  12.95 RAP 159.79 ECC 1.7791
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 21 30	2147.94	-17.90	37.31	46.74	112.32	7 57 18	1547.9	-14.72	30.07
90.00	17 4 8	5353.67	27.71	244.21	53.09	83.93	18 33 22	4753.7	26.58	235.73
100.00	8 38 29	1899.58	-19.22	18.46	46.19	113.35	9 10 9	1299.6	-15.90	11.24
100.00	18 29 50	5077.26	29.14	223.70	52.91	83.00	19 54 27	4477.3	27.86	215.13
110.00	9 36 48	1718.98	-22.73	2.87	44.41	116.25	10 5 25	1117.0	-19.02	355.70
110.00	19 48 0	4832.63	32.96	204.47	52.26	80.38	21 8 33	4232.6	31.28	195.65

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .5181 TRA-1.1248 TC3 -.0168 BAU  .0564    SGT 1041.9 SGR  457.3 SG3   67.0    ST   516.7 SR   398.8 SS   483.9
ROE -.4735 RRA -.2347 RC3  .0875 FAU .01927    RRT  .0308 RRF -.0312 RTF -.7482    CRT -.7436 CRS -.8618 CST  .9789
FOE -.4360 FRA  .5746 FC3 -.3524 BSP   2984    SGB 1137.9 R23 -.0026 R13 -.7483    LSA  780.4 MSA  225.7 SSA   15.5
BOE  .7019 BRA 1.1490 BC3  .0891 FSP   -157    SG1 1042.1 SG2  457.0 THA    .96    EL1  612.8 EL2  224.8 ALF 144.71
```

LAUNCH DATE JUN 2 1967 FLIGHT TIME 84.00 ARRIVAL DATE AUG 25 1967

HELIOCENTRIC CONIC DISTANCE 193.517

```
RL  151.72 LAL    .00 LOL 250.79 VL  23.371 GAL   5.04 AZL  93.30 HCA  77.31 SMA 110.29 ECC .38431 INC 3.3036 V1  29.366
RP  108.91 LAP  -3.22 LOP 328.09 VP  35.126 GAP -22.59 AZP  90.73 TAL 171.82 TAP 249.14 RCA  67.91 APO 152.68 V2  34.795
RC  43.455 GL  -11.88 GP     .81 ZAL  74.03 ZAP  10.02 ETS 185.07 ZAE 167.71 ETE  93.36 ZAC 106.54 ETC  15.59 CLP   9.99
```

PLANETOCENTRIC CONIC

```
C3  42.504 VHL  6.520 DLA  -9.74 RAL 172.60 RAD 6568.6 VEL 12.801 PTH   2.33 VHP 13.632 DPA  12.40 RAP 161.33 ECC 1.6995
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 26 32	2094.69	-16.49	34.03	44.50	113.35	8 1 27	1494.7	-13.19	26.91
90.00	16 56 20	5352.75	27.71	244.14	51.07	83.90	18 25 32	4752.7	26.57	235.66
100.00	8 43 5	1847.74	-17.79	15.27	43.90	114.43	9 13 53	1247.7	-14.34	8.17
100.00	18 22 28	5074.90	29.12	223.52	50.88	82.91	19 47 3	4474.9	27.83	214.96
110.00	9 40 25	1668.21	-21.23	359.87	42.13	117.44	10 8 13	1068.2	-17.38	352.86
110.00	19 41 37	4827.21	32.90	204.06	50.22	80.15	21 2 5	4227.2	31.19	195.25

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .5212 TRA-1.1044 TC3  .0068 BAU  .0559    SGT 1086.1 SGR  456.6 SG3   73.5    ST   545.1 SR   396.2 SS   512.7
ROE -.4458 RRA -.2202 RC3  .0982 FAU .02012    RRT  .0305 RRF -.0314 RTF -.7638    CRT -.7504 CRS -.8676 CST  .9787
FOE -.4616 FRA  .5867 FC3 -.4098 BSP   3148    SGB 1178.2 R23 -.0032 R13 -.7638    LSA  816.1 MSA  224.9 SSA   15.7
BOE  .6858 BRA 1.1262 BC3  .0984 FSP   -175    SG1 1086.2 SG2  456.3 THA    .89    EL1  635.3 EL2  224.7 ALF 146.69
```

LAUNCH DATE JUN 2 1967 FLIGHT TIME 86.00 ARRIVAL DATE AUG 27 1967

HELIOCENTRIC CONIC DISTANCE 200.126

RL	151.72	LAL	.00	LOL	250.79	VL	23.695	GAL	4.71	AZL	93.32	HCA	80.48	SMA	111.71	ECC	.36626	INC	3.3225	V1	29.366
RP	108.90	LAP	-3.28	LOP	331.26	VP	35.347	GAP	-21.44	AZP	90.55	TAL	171.75	TAP	252.23	RCA	70.80	APO	152.63	V2	34.799
RC	43.079	GL	-12.79	GP	.85	ZAL	74.18	ZAP	8.45	ETS	186.14	ZAE	167.31	ETE	80.76	ZAC	104.99	ETC	15.37	CLP	8.41

PLANETOCENTRIC CONIC

C3	38.230	VHL	6.183	DLA	-10.54	RAL	172.14	RAD	6568.5	VEL	12.633	PTH	2.29	VHP	12.979	DPA	11.85	RAP	162.85	ECC	1.6292

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 31 11	2041.68	-15.03	30.82	42.24	114.28	8 5 13	1441.7	-11.63	23.80
90.00	16 48 1	5352.21	27.70	244.11	48.94	83.88	18 17 13	4752.2	26.56	235.62
100.00	8 47 17	1796.19	-16.31	12.16	41.62	115.40	9 17 13	1196.2	-12.76	5.17
100.00	18 14 37	5072.93	29.10	223.38	48.76	82.84	19 39 10	4472.9	27.80	214.82
110.00	9 43 37	1619.78	-19.68	356.97	39.82	118.53	10 10 36	1019.8	-15.72	350.09
110.00	19 34 46	4822.11	32.84	203.67	48.10	79.93	20 55 8	4222.1	31.10	194.88

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.5250	TRA	-1.0827	TC3	.0361	BAU	.0590	SGT	1131.4	SGR	455.0	SG3	80.7	ST	574.8	SR	392.7
RDE	-.4190	RRA	-.2063	RC3	.1097	FAU	.02107	RRT	.0302	RRF	-.0319	RTF	-.7787	CRT	-.7578	CRS	-.8736
FDE	-.4896	FRA	.5984	FC3	-.4771	BSP	3318	SGB	1219.5	R23	-.0038	R13	-.7787	LSA	854.3	MSA	223.4
BDE	.6717	BRA	1.1021	BC3	.1155	FSP	-195	SG1	1131.5	SG2	454.7	THA	.83	EL1	659.3	EL2	223.4

SS	543.4	V1	29.366	CST	.9786	V2	34.799	SSA	15.9	CLP	8.41	ALF	148.63				

LAUNCH DATE JUN 2 1967 FLIGHT TIME 88.00 ARRIVAL DATE AUG 29 1967

HELIOCENTRIC CONIC DISTANCE 206.763

RL	151.72	LAL	.00	LOL	250.79	VL	23.996	GAL	4.39	AZL	93.34	HCA	83.64	SMA	113.07	ECC	.34924	INC	3.3411	V1	29.366
RP	108.88	LAP	-3.32	LOP	334.42	VP	35.554	GAP	-20.34	AZP	90.37	TAL	171.73	TAP	255.38	RCA	73.58	APO	152.56	V2	34.804
RC	42.876	GL	-13.74	GP	.90	ZAL	74.44	ZAP	6.88	ETS	187.78	ZAE	166.38	ETE	69.23	ZAC	103.46	ETC	15.16	CLP	6.82

PLANETOCENTRIC CONIC

C3	34.456	VHL	5.870	DLA	-11.34	RAL	171.56	RAD	6568.4	VEL	12.483	PTH	2.26	VHP	12.350	DPA	11.30	RAP	164.36	ECC	1.5671

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 35 26	1989.11	-13.54	27.69	39.95	115.11	8 8 35	1389.1	-10.04	20.75
90.00	16 39 13	5352.27	27.70	244.11	46.74	83.88	18 8 25	4752.3	26.57	235.63
100.00	8 51 3	1745.11	-14.79	9.12	39.32	116.27	9 20 8	1145.1	-11.14	2.23
100.00	18 6 16	5071.51	29.09	223.28	46.56	82.78	19 30 47	4471.5	27.78	214.72
110.00	9 46 22	1571.89	-18.10	354.16	37.50	119.51	10 12 34	971.9	-14.03	347.40
110.00	19 27 26	4817.49	32.78	203.33	45.89	79.73	20 47 44	4217.5	31.02	194.55

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.5296	TRA	-1.0593	TC3	.0716	BAU	.0652	SGT	1177.4	SGR	452.5	SG3	88.6	ST	606.1	SR	388.2
RDE	-.3933	RRA	-.1928	RC3	.1221	FAU	.02213	RRT	.0301	RRF	-.0324	RTF	-.7928	CRT	-.7660	CRS	-.8798
FDE	-.5205	FRA	.6098	FC3	-.5560	BSP	3493	SGB	1261.4	R23	-.0044	R13	-.7928	LSA	895.0	MSA	221.0
BDE	.6597	BRA	1.0767	BC3	.1415	FSP	-218	SG1	1177.5	SG2	452.3	THA	.78	EL1	685.1	EL2	220.8

SS	576.3	V1	29.366	CST	.9786	V2	34.804	SSA	16.2	CLP	6.82	ALF	150.50				

LAUNCH DATE JUN 2 1967 FLIGHT TIME 90.00 ARRIVAL DATE AUG 31 1967

HELIOCENTRIC CONIC DISTANCE 213.422

RL	151.72	LAL	.00	LOL	250.79	VL	24.274	GAL	4.07	AZL	93.36	HCA	86.81	SMA	114.38	ECC	.33324	INC	3.3595	V1	29.366
RP	108.87	LAP	-3.35	LOP	337.59	VP	35.747	GAP	-19.28	AZP	90.19	TAL	171.77	TAP	258.58	RCA	76.27	APO	152.50	V2	34.809
RC	42.849	GL	-14.73	GP	.95	ZAL	74.80	ZAP	5.30	ETS	190.55	ZAE	165.03	ETE	59.41	ZAC	101.94	ETC	14.97	CLP	5.21

PLANETOCENTRIC CONIC

C3	31.129	VHL	5.579	DLA	-12.12	RAL	170.88	RAD	6568.2	VEL	12.349	PTH	2.23	VHP	11.745	DPA	10.76	RAP	165.84	ECC	1.5123

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 39 16	1937.15	-12.02	24.63	37.63	115.83	8 11 33	1337.2	-8.44	17.77
90.00	16 29 54	5353.07	27.71	244.17	44.47	83.91	17 59 7	4753.1	26.57	235.68
100.00	8 54 25	1694.68	-13.25	6.17	37.00	117.04	9 22 40	1094.7	-9.52	359.37
100.00	17 57 25	5070.77	29.08	223.22	44.28	82.76	19 21 56	4470.8	27.77	214.66
110.00	9 48 41	1524.72	-16.50	351.44	35.17	120.37	10 14 6	924.7	-12.34	344.80
110.00	19 19 39	4813.49	32.73	203.02	43.62	79.56	20 39 52	4213.5	30.95	194.26

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.5351	TRA	-1.0347	TC3	.1136	BAU	.0735	SGT	1224.5	SGR	449.2	SG3	97.5	ST	639.0	SR	382.8
RDE	-.3686	RRA	-.1799	RC3	.1352	FAU	.02331	RRT	.0300	RRF	-.0331	RTF	-.8060	CRT	-.7748	CRS	-.8861
FDE	-.5547	FRA	.6210	FC3	-.6482	BSP	3664	SGB	1304.2	R23	-.0052	R13	-.8061	LSA	938.7	MSA	218.0
BDE	.6498	BRA	1.0503	BC3	.1766	FSP	-243	SG1	1224.5	SG2	448.9	THA	.73	EL1	712.6	EL2	217.0

SS	611.6	V1	29.366	CST	.9787	V2	34.809	SSA	16.4	CLP	5.21	ALF	152.32				

LAUNCH DATE JUN 2 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 2 1967

HELIOCENTRIC CONIC DISTANCE 220.101

RL	151.72	LAL	.00	LOL	250.79	VL	24.531	GAL	3.77	AZL	93.38	HCA	89.97	SMA	115.63	ECC	.31823	INC	3.3778	V1	29.366
RP	108.85	LAP	-3.38	LOP	340.77	VP	35.929	GAP	-18.26	AZP	90.00	TAL	171.86	TAP	261.83	RCA	78.84	APO	152.43	V2	34.815
RC	42.995	GL	-15.76	GP	1.01	ZAL	75.27	ZAP	3.72	ETS	195.91	ZAE	163.38	ETE	51.37	ZAC	100.45	ETC	14.79	CLP	3.58

PLANETOCENTRIC CONIC

C3	28.199	VHL	5.310	DLA	-12.90	RAL	170.08	RAD	6568.1	VEL	12.230	PTH	2.20	VHP	11.163	DPA	10.22	RAP	167.31	ECC	1.4641

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 42 42	1888.00	-10.48	21.66	35.31	116.46	8 14 8	1286.0	-6.84	14.86
90.00	16 20 5	5354.70	27.72	244.29	42.13	83.97	17 49 20	4754.7	26.59	235.80
100.00	8 57 22	1645.11	-11.70	3.31	34.67	117.70	9 24 47	1045.1	-7.90	356.58
100.00	17 48 7	5070.83	29.08	223.23	41.95	82.76	19 12 37	4470.8	27.77	214.67
110.00	9 50 34	1478.48	-14.89	348.82	32.83	121.13	10 15 12	878.5	-10.65	342.28
110.00	19 11 24	4810.22	32.69	202.78	41.29	79.42	20 31 34	4210.2	30.89	194.02

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.5414	TRA	-1.0085	TC3	.1631	BAU	.0833	SGT	1271.8	SGR	445.0	SG3	107.3	ST	673.4	SR	376.4
RDE	-.3450	RRA	-.1676	RC3	.1491	FAU	.02463	RRT	.0301	RRF	-.0339	RTF	-.8186	CRT	-.7843	CRS	-.8926
FDE	-.5928	FRA	.6315	FC3	-.7561	BSP	3840	SGB	1347.4	R23	-.0056	R13	-.8186	LSA	985.3	MSA	214.2
BDE	.6420	BRA	1.0224	BC3	.2210	FSP	-271	SG1	1271.9	SG2	444.7	THA	.69	EL1	741.8	EL2	212.0

SS	649.6	V1	29.366	CST	.9789	V2	34.815	SSA	16.6	CLP	3.58	ALF	154.05				

LAUNCH DATE JUN 2 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 4 1967

HELIOCENTRIC CONIC DISTANCE 226.794

RL 151.72 LAL .00 LOL 250.79 VL 24.769 GAL 3.47 AZL 93.40 HCA 93.14 SMA 116.83 ECC .30418 INC 3.3961 VI 29.366
RP 108.83 LAP -3.39 LOP 343.94 VP 36.098 GAP -17.28 AZP 89.81 TAL 171.99 TAP 265.14 RCA 81.29 APO 152.36 V2 34.822
RC 43.312 GL -16.82 GP 1.08 ZAL 75.84 ZAP 2.20 ETS 209.41 ZAE 161.57 ETE 44.92 ZAC 98.97 ETC 14.62 CLP 1.92

PLANETOCENTRIC CONIC

C3 25.623 VHL 5.062 DLA -13.66 RAL 169.17 RAD 6568.0 VEL 12.124 PTH 2.17 VHP 10.602 DPA 9.70 RAP 168.74 ECC 1.4217

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 45 44	1835.85	-8.94	18.77	32.97	116.98	8 16 20	1235.8	-5.26	12.03
90.00	16 9 49	5357.27	27.74	244.47	39.75	84.06	17 39 6	4757.3	26.62	235.98
100.00	8 59 53	1596.58	-10.15	.54	32.33	118.27	9 26 30	996.6	-6.29	353.88
100.00	17 38 20	5071.77	29.09	223.30	39.58	82.79	19 2 52	4471.8	27.79	214.73
110.00	9 52 0	1433.36	-13.28	346.31	30.49	121.79	10 15 54	833.4	-8.98	339.85
110.00	19 2 43	4807.76	32.66	202.59	38.92	79.31	20 22 51	4207.8	30.84	193.84

DIFFERENTIAL CORRECTIONS

TDE .5484 TRA -.9814 TC3 .2200 BAU .0939
RDE -.3224 RRA -.1558 RC3 .1636 FAU .02611
FDE -.6350 FRA .6419 FC3 -.8823 BSP 4013
BDE .6362 BRA .9937 BC3 .2741 FSP -303

MID-COURSE EXECUTION ACCURACY

SGT 1319.8 SGR 439.9 SG3 118.3
RRT .0307 RRF -.0354 RTF -.8303
SGB 1391.2 R23 -.0067 R13 -.8303
SG1 1319.9 SG2 439.7 THA .66

ORBIT DETERMINATION ACCURACY

ST 709.2 SR 369.0 SS 690.2
CRT -.7941 CRS -.8991 CST .9793
LSA 1035.0 MSA 210.0 SSA 56.8
EL1 772.5 EL2 205.9 ALF 155.72

LAUNCH DATE JUN 2 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 6 1967

HELIOCENTRIC CONIC DISTANCE 233.498

RL 151.72 LAL .00 LOL 250.79 VL 24.989 GAL 3.18 AZL 93.41 HCA 96.31 SMA 117.96 ECC .29106 INC 3.4146 VI 29.366
RP 108.80 LAP -3.39 LOP 347.11 VP 36.256 GAP -16.34 AZP 89.62 TAL 172.18 TAP 268.49 RCA 83.63 APO 152.30 V2 34.830
RC 43.796 GL -17.91 GP 1.15 ZAL 76.52 ZAP 1.17 ETS 259.15 ZAE 159.67 ETE 39.74 ZAC 97.53 ETC 14.46 CLP .22

PLANETOCENTRIC CONIC

C3 23.361 VHL 4.833 DLA -14.41 RAL 168.16 RAD 6567.9 VEL 12.031 PTH 2.15 VHP 10.064 DPA 9.19 RAP 170.14 ECC 1.3845

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 48 22	1786.88	-7.42	15.98	30.64	117.41	8 18 9	1186.9	-3.69	9.29
90.00	15 59 6	5360.84	27.76	244.73	37.34	84.19	17 28 27	4760.8	26.67	236.24
100.00	9 2 0	1549.29	-8.61	357.87	30.00	118.74	9 27 49	949.3	-4.71	351.26
100.00	17 28 9	5073.67	29.11	223.43	37.17	82.86	18 52 42	4473.7	27.81	214.87
110.00	9 53 0	1389.53	-11.70	343.90	28.15	122.35	10 16 10	789.5	-7.35	337.51
110.00	18 53 38	4806.19	32.64	202.47	36.52	79.24	20 13 44	4206.2	30.82	193.73

DIFFERENTIAL CORRECTIONS

TDE .5557 TRA -.9527 TC3 .2843 BAU .1048
RDE -.3008 RRA -.1446 RC3 .1785 FAU .02777
FDE -.6824 FRA .6519 FC3-1.0293 BSP 4189
BDE .6319 BRA .9637 BC3 .3357 FSP -339

MID-COURSE EXECUTION ACCURACY

SGT 1367.2 SGR 433.9 SG3 130.5
RRT .0319 RRF -.0373 RTF -.8411
SGB 1434.4 R23 -.0075 R13 -.8411
SG1 1367.3 SG2 433.7 THA .65

ORBIT DETERMINATION ACCURACY

ST 746.0 SR 360.6 SS 734.0
CRT -.8042 CRS -.9055 CST .9797
LSA 1087.6 MSA 205.4 SSA 17.0
EL1 804.3 EL2 198.8 ALF 157.29

LAUNCH DATE JUN 2 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 8 1967

HELIOCENTRIC CONIC DISTANCE 240.210

RL 151.72 LAL .00 LOL 250.79 VL 25.191 GAL 2.91 AZL 93.43 HCA 99.48 SMA 119.04 ECC .27884 INC 3.4332 VI 29.366
RP 108.78 LAP -3.39 LOP 350.29 VP 36.404 GAP -15.44 AZP 89.43 TAL 172.42 TAP 271.90 RCA 85.85 APO 152.23 V2 34.838
RC 44.440 GL -19.02 GP 1.23 ZAL 77.28 ZAP 1.95 ETS 320.71 ZAE 157.79 ETE 35.58 ZAC 96.12 ETC 14.31 CLP -1.52

PLANETOCENTRIC CONIC

C3 21.379 VHL 4.624 DLA -15.15 RAL 167.05 RAD 6567.9 VEL 11.948 PTH 2.13 VHP 9.545 DPA 8.70 RAP 171.51 ECC 1.3518

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 50 36	1739.29	-5.92	13.29	28.31	117.74	8 19 35	1139.3	-2.16	6.62
90.00	15 47 59	5365.44	27.79	245.06	34.91	84.35	17 17 24	4765.4	26.72	236.56
100.00	9 3 42	1503.42	-7.10	355.30	27.66	119.11	9 28 45	903.4	-3.17	348.73
100.00	17 17 34	5076.54	29.13	223.64	34.74	82.97	18 42 10	4476.5	27.85	215.07
110.00	9 53 34	1347.19	-10.15	341.61	25.82	122.82	10 16 2	747.2	-5.75	335.27
110.00	18 44 11	4805.54	32.64	202.42	34.10	79.21	20 4 16	4205.5	30.80	193.68

DIFFERENTIAL CORRECTIONS

TDE .5657 TRA -.9218 TC3 .3585 BAU .1165
RDE -.2803 RRA -.1341 RC3 .1938 FAU .02965
FDE -.7357 FRA .6610 FC3-1.2007 BSP 4381
BDE .6313 BRA .9315 BC3 .4075 FSP -379

MID-COURSE EXECUTION ACCURACY

SGT 1414.8 SGR 427.1 SG3 144.2
RRT .0326 RRF -.0400 RTF -.8520
SGB 1477.9 R23 -.0094 R13 -.8520
SG1 1414.9 SG2 426.8 THA .62

ORBIT DETERMINATION ACCURACY

ST 785.8 SR 351.2 SS 781.1
CRT -.8156 CRS -.9119 CST .9805
LSA 1144.9 MSA 199.8 SSA 17.1
EL1 839.4 EL2 190.2 ALF 158.84

LAUNCH DATE JUN 2 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 10 1967

HELIOCENTRIC CONIC DISTANCE 246.926

RL 151.72 LAL .00 LOL 250.79 VL 25.378 GAL 2.65 AZL 93.45 HCA 102.65 SMA 120.05 ECC .26749 INC 3.4522 VI 29.366
RP 108.75 LAP -3.37 LOP 353.47 VP 36.541 GAP -14.57 AZP 89.24 TAL 172.70 TAP 275.35 RCA 87.94 APO 152.17 V2 34.846
RC 45.237 GL -20.15 GP 1.33 ZAL 78.13 ZAP 3.55 ETS 337.88 ZAE 155.96 ETE 32.19 ZAC 94.75 ETC 14.17 CLP -3.30

PLANETOCENTRIC CONIC

C3 19.645 VHL 4.432 DLA -15.88 RAL 165.84 RAD 6567.8 VEL 11.875 PTH 2.11 VHP 9.047 DPA 8.23 RAP 172.84 ECC 1.3233

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 52 27	1693.24	-4.46	10.70	25.99	117.99	8 20 40	1093.2	-.68	4.06
90.00	15 36 32	5371.06	27.83	245.47	32.46	84.55	17 6 3	4771.1	26.78	236.96
100.00	9 5 0	1459.14	-5.63	352.84	25.34	119.41	9 29 19	859.1	-1.67	346.29
100.00	17 6 39	5080.40	29.16	223.93	32.30	83.12	18 31 20	4480.4	27.90	215.35
110.00	9 53 44	1306.49	-8.64	339.42	23.50	123.20	10 15 30	706.5	-4.21	333.13
110.00	18 34 25	4805.81	32.64	202.44	31.67	79.23	19 54 31	4205.8	30.81	193.70

DIFFERENTIAL CORRECTIONS

TDE .5745 TRA -.8905 TC3 .4393 BAU .1278
RDE -.2607 RRA -.1242 RC3 .2094 FAU .03176
FDE -.7958 FRA .6697 FC3-1.3995 BSP 4548
BDE .6309 BRA .8991 BC3 .4867 FSP -424

MID-COURSE EXECUTION ACCURACY

SGT 1461.3 SGR 419.3 SG3 159.5
RRT .0355 RRF -.0437 RTF -.8616
SGB 1520.2 R23 -.0104 R13 -.8617
SG1 1461.4 SG2 419.0 THA .64

ORBIT DETERMINATION ACCURACY

ST 825.0 SR 340.7 SS 831.8
CRT -.8261 CRS -.9182 CST .9811
LSA 1204.4 MSA 194.5 SSA 17.2
EL1 874.0 EL2 181.2 ALF 160.28

LAUNCH DATE JUN 2 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 12 1967

HELIOCENTRIC CONIC DISTANCE 253.644

```
RL  151.72 LAL    .00 LOL 250.79 VL  25.549 GAL   2.40 AZL  93.47 HCA 105.82 SMA 121.01 ECC .25697 INC 3.4717 V1  29.366
RP  108.72 LAP  -3.34 LOP 356.65 VP  36.669 GAP -13.73 AZP  89.05 TAL 173.03 TAP 278.85 RCA  89.91 APO 152.11 V2  34.856
RC  46.178 GL  -21.29 GP    1.43 ZAL  79.06 ZAP   5.33 ETS 344.16 ZAE 154.25 ETE  29.43 ZAC  93.43 ETC  14.04 CLP  -5.13
```

PLANETOCENTRIC CONIC

```
C3  18.133 VHL  4.258 DLA -16.56 RAL 164.55 RAD 6567.7 VEL 11.812 PTH   2.09 VHP  8.568 DPA   7.79 RAP 174.11 ECC 1.2984
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 53 55	1648.89	-3.03	8.21	23.69	118.17	8 21 24	1048.9	.76	1.58
90.00	15 24 42	5377.60	27.87	245.95	30.03	84.79	16 54 25	4777.7	26.86	237.43
100.00	9 5 55	1416.60	-4.20	350.49	23.04	119.62	9 29 31	816.6	-.23	343.96
100.00	16 55 29	5085.21	29.20	224.28	29.87	83.30	18 20 14	4485.2	27.97	215.69
110.00	9 53 29	1267.58	-7.18	337.35	21.20	123.51	10 14 36	667.6	-2.72	331.10
110.00	18 24 24	4807.00	32.65	202.53	29.25	79.28	19 44 31	4207.0	30.83	193.79

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .5837 TRA -.8589 TC3  .5247 BAU  .1384    SGT 1506.7 SGR  410.8 SG3  176.6     ST   864.7 SR   329.2 SS   885.9
RDE -.2420 RRA -.1149 RC3  .2249 FAU .03411    RRT  .0395 RRF -.0490 RTF -.8701    CRT -.8364 CRS -.9241 CST  .9818
FDE -.8631 FRA  .6784 FC3-1.6283 BSP   4705    SGB 1561.6 R23 -.0119 R13 -.8702    LSA 1266.8 MSA  189.3 SSA   17.3
BDE  .6318 BRA  .8666 BC3  .5709 FSP   -475    SG1 1506.7 SG2  410.4 THA    .67    EL1  909.2 EL2  171.6 ALF 161.66
```

LAUNCH DATE JUN 2 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 14 1967

HELIOCENTRIC CONIC DISTANCE 260.380

```
RL  151.72 LAL    .00 LOL 250.79 VL  25.707 GAL   2.16 AZL  93.49 HCA 109.00 SMA 121.91 ECC .24725 INC 3.4918 V1  29.366
RP  108.69 LAP  -3.30 LOP 359.83 VP  36.789 GAP -12.92 AZP  88.86 TAL 173.39 TAP 282.39 RCA  91.77 APO 152.05 V2  34.865
RC  47.255 GL  -22.43 GP    1.55 ZAL  80.05 ZAP   7.20 ETS 347.26 ZAE 152.68 ETE  27.15 ZAC  92.16 ETC  13.92 CLP  -7.03
```

PLANETOCENTRIC CONIC

```
C3  16.817 VHL  4.101 DLA -17.23 RAL 163.20 RAD 6567.7 VEL 11.756 PTH   2.07 VHP  8.109 DPA   7.38 RAP 175.34 ECC 1.2768
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 55 3	1606.38	-1.67	5.84	21.42	118.27	8 21 49	1006.4	2.13	359.21
90.00	15 12 50	5385.27	27.92	246.50	27.61	85.06	16 42 35	4785.3	26.94	237.97
100.00	9 6 28	1375.95	-2.83	348.25	20.77	119.77	9 29 24	776.0	1.15	341.73
100.00	16 44 6	5080.94	29.24	224.70	27.46	83.52	18 8 57	4490.9	28.04	216.10
110.00	9 52 51	1230.80	-5.79	339.40	18.94	123.75	10 13 22	630.6	-1.31	329.17
110.00	18 14 12	4809.06	32.68	202.69	26.86	79.37	19 34 21	4209.1	30.87	193.94

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .5956 TRA -.8238 TC3  .6225 BAU  .1500    SGT 1550.9 SGR  401.3 SG3  196.1     ST   907.5 SR   316.6 SS   945.3
RDE -.2241 RRA -.1063 RC3  .2403 FAU .03683    RRT  .0441 RRF -.0558 RTF -.8795    CRT -.8479 CRS -.9299 CST  .9828
FDE -.9408 FRA  .6853 FC3-1.8959 BSP   4905    SGB 1602.0 R23 -.0142 R13 -.8796    LSA 1335.5 MSA  183.2 SSA   17.3
BDE  .6364 BRA  .8306 BC3  .6673 FSP   -535    SG1 1551.0 SG2  400.9 THA    .70    EL1  947.6 EL2  160.8 ALF 163.02
```

LAUNCH DATE JUN 2 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 16 1967

HELIOCENTRIC CONIC DISTANCE 267.073

```
RL  151.72 LAL    .00 LOL 250.79 VL  25.851 GAL   1.94 AZL  93.51 HCA 112.18 SMA 122.75 ECC .23829 INC 3.5127 V1  29.366
RP  108.66 LAP  -3.25 LOP   3.01 VP  36.899 GAP -12.14 AZP  88.67 TAL 173.78 TAP 285.96 RCA  93.50 APO 152.00 V2  34.875
RC  48.458 GL  -23.57 GP    1.68 ZAL  81.09 ZAP   9.16 ETS 349.05 ZAE 151.28 ETE  25.27 ZAC  90.96 ETC  13.81 CLP  -9.00
```

PLANETOCENTRIC CONIC

```
C3  15.675 VHL  3.959 DLA -17.87 RAL 161.78 RAD 6567.6 VEL 11.707 PTH   2.06 VHP  7.668 DPA   7.01 RAP 176.51 ECC 1.2580
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 55 52	1565.83	-.36	3.58	19.19	118.31	8 21 57	965.8	3.43	356.94
90.00	15 0 45	5393.76	27.97	247.12	25.24	85.37	16 30 39	4793.8	27.03	238.58
100.00	9 6 41	1337.29	-1.52	346.13	18.54	119.86	9 28 58	737.3	2.46	339.61
100.00	16 32 36	5097.54	29.29	225.18	25.09	83.77	17 57 34	4497.5	28.12	216.58
110.00	9 51 54	1195.62	-4.46	333.56	16.71	123.93	10 11 50	595.6	.03	327.34
110.00	18 3 53	4811.97	32.72	202.91	24.51	79.49	19 24 5	4212.0	30.92	194.15

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .6055 TRA -.7905 TC3  .7191 BAU  .1599    SGT 1592.7 SGR  391.1 SG3  217.9     ST   947.7 SR   302.9 SS  1007.9
RDE -.2070 RRA -.0984 RC3  .2555 FAU .03984    RRT  .0522 RRF -.0656 RTF -.8869    CRT -.8575 CRS -.9351 CST  .9836
FDE-1.0277 FRA  .6930 FC3-2.2006 BSP   5050    SGB 1640.0 R23 -.0164 R13 -.8870    LSA 1404.9 MSA  178.2 SSA   17.2
BDE  .6399 BRA  .7966 BC3  .7631 FSP   -600    SG1 1592.8 SG2  390.6 THA    .78    EL1  983.5 EL2  150.2 ALF 164.30
```

LAUNCH DATE JUN 2 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 18 1967

HELIOCENTRIC CONIC DISTANCE 273.779

```
RL  151.72 LAL    .00 LOL 250.79 VL  25.984 GAL   1.73 AZL  93.53 HCA 115.35 SMA 123.53 ECC .23007 INC 3.5346 V1  29.366
RP  108.63 LAP  -3.19 LOP   6.19 VP  37.002 GAP -11.38 AZP  88.48 TAL 174.20 TAP 289.55 RCA  95.11 APO 151.95 V2  34.886
RC  49.776 GL  -24.70 GP    1.83 ZAL  82.17 ZAP  11.20 ETS 350.18 ZAE 150.08 ETE  23.74 ZAC  89.83 ETC  13.71 CLP -11.05
```

PLANETOCENTRIC CONIC

```
C3  14.887 VHL  3.832 DLA -18.48 RAL 160.33 RAD 6567.6 VEL 11.665 PTH   2.08 VHP  7.245 DPA   6.69 RAP 177.61 ECC 1.2417
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 56 24	1527.30	.89	1.43	17.01	118.30	8 21 51	927.3	4.66	354.78
90.00	14 48 36	5403.09	28.02	247.80	22.91	85.70	16 18 39	4803.1	27.13	239.24
100.00	9 6 37	1300.68	-.28	344.12	16.36	119.89	9 28 18	700.7	3.70	337.59
100.00	16 21 4	5104.94	29.35	225.73	22.77	84.05	17 46 9	4504.9	28.21	217.11
110.00	9 50 39	1162.72	-3.21	331.83	14.54	124.05	10 10 2	562.7	1.28	325.63
110.00	17 53 31	4815.67	32.76	203.19	22.20	79.65	19 13 47	4215.7	30.99	194.42

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .6146 TRA -.7561 TC3  .8177 BAU  .1691    SGT 1630.2 SGR  380.2 SG3  242.3     ST   986.2 SR   287.9 SS  1074.6
RDE -.1904 RRA -.0910 RC3  .2704 FAU .04325    RRT  .0635 RRF -.0788 RTF -.8935    CRT -.8665 CRS -.9399 CST  .9843
FDE-1.1261 FRA  .6996 FC3-2.5491 BSP   5191    SGB 1674.0 R23 -.0188 R13 -.8936    LSA 1476.4 MSA  173.6 SSA   17.1
BDE  .6434 BRA  .7616 BC3  .8613 FSP   -675    SG1 1630.4 SG2  379.4 THA    .90    EL1 1017.8 EL2  139.3 ALF 165.53
```

LAUNCH DATE JUN 2 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 20 1967

HELIOCENTRIC CONIC DISTANCE 280.477

RL 151.72 LAL .00 LOL 250.79 VL 26.104 GAL 1.53 AZL 93.56 HCA 118.53 SMA 124.26 ECC .22253 INC 3.5577 V1 29.366
RP 108.59 LAP -3.13 LOP 9.37 VP 37.097 GAP -10.65 AZP 88.30 TAL 174.64 TAP 293.17 RCA 96.61 APO 151.91 V2 34.897
RC 51.201 GL -25.81 GP 2.01 ZAL 83.27 ZAP 13.34 ETS 350.92 ZAE 149.09 ETE 22.49 ZAC 88.78 ETC 13.62 CLP -13.19

PLANETOCENTRIC CONIC

C3 13.837 VHL 3.720 DLA -19.06 RAL 158.85 RAD 6567.5 VEL 11.629 PTH 2.04 VHP 6.841 DPA 6.43 RAP 178.63 ECC 1.2277

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 56 42	1490.82	2.06	359.39	14.90	118.25	8 21 33	890.8	5.83	352.73
90.00	14 36 29	5413.21	28.07	248.53	20.65	86.07	16 6 43	4813.2	27.22	239.97
100.00	9 6 19	1266.17	.89	342.23	14.25	119.88	9 27 25	666.2	4.86	335.69
100.00	16 9 33	5113.10	29.40	226.33	20.52	84.36	17 34 46	4513.1	28.31	217.69
110.00	9 49 10	1131.91	-2.03	330.22	12.43	124.13	10 8 2	531.9	2.46	324.02
110.00	17 43 12	4820.12	32.82	203.52	19.97	79.84	19 3 32	4220.1	31.07	194.74

DIFFERENTIAL CORRECTIONS
TDE .6233 TRA -.7216 TC3 .9160 BAU .1775
RDE -.1742 RRA -.0843 RC3 .2851 FAU .04711
FDE-1.2383 FRA .7060 FC3-2.9476 BSP 5309
BDE .6472 BRA .7265 BC3 .9593 FSP -760

MID-COURSE EXECUTION ACCURACY
SGT 1664.1 SGR 368.6 SG3 270.1
RRT .0790 RRF -.0967 RTF -.8995
SG8 1704.4 RZ3 -.0220 R13 -.8996
SG1 1664.4 SG2 367.4 THA 1.05

ORBIT DETERMINATION ACCURACY
ST 1023.1 SR 271.6 SS 1146.3
CRT -.8745 CRS -.9440 CST .9850
LSA 1550.9 HSA 169.4 SSA 16.9
EL1 1050.7 EL2 128.3 ALF 166.73

LAUNCH DATE JUN 2 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 22 1967

HELIOCENTRIC CONIC DISTANCE 287.165

RL 151.72 LAL .00 LOL 250.79 VL 26.214 GAL 1.35 AZL 93.58 HCA 121.72 SMA 124.93 ECC .21566 INC 3.5823 V1 29.366
RP 108.56 LAP -3.05 LOP 12.56 VP 37,185 GAP -9.95 AZP 88.11 TAL 175.09 TAP 296.81 RCA 97.99 APO 151.87 V2 34.908
RC 52.722 GL -26.89 GP 2.21 ZAL 84.38 ZAP 15.80 ETS 351.43 ZAE 148.33 ETE 21.51 ZAC 87.83 ETC 13.53 CLP -15.44

PLANETOCENTRIC CONIC

C3 13.107 VHL 3.620 DLA -19.62 RAL 157.36 RAD 6567.5 VEL 11.597 PTH 2.03 VHP 6.454 DPA 6.23 RAP 179.57 ECC 1.2157

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 56 51	1456.37	3.17	357.47	12.87	118.15	8 21 7	856.4	6.91	350.79
90.00	14 24 28	5424.09	28.11	249.32	18.47	86.46	15 54 52	4824.1	27.33	240.75
100.00	9 5 51	1233.71	1.99	340.45	12.22	119.83	9 26 24	633.7	5.95	333.89
100.00	15 58 9	5121.98	29.46	226.98	18.36	84.70	17 23 31	4522.0	28.42	218.33
110.00	9 47 30	1103.16	-.93	328.72	10.39	124.17	10 5 54	503.2	3.56	322.51
110.00	17 32 59	4825.29	32.88	203.91	17.82	80.07	18 53 24	4225.3	31.16	195.11

DIFFERENTIAL CORRECTIONS
TDE .6320 TRA -.6856 TC3 1.0120 BAU .1849
RDE -.1583 RRA -.0782 RC3 .2998 FAU .05150
FDE-1.3674 FRA .7100 FC3-3.4013 BSP 5420
BDE .6515 BRA .6900 BC3 1.0555 FSP -856

MID-COURSE EXECUTION ACCURACY
SGT 1692.4 SGR 356.6 SG3 301.4
RRT .0991 RRF -.1199 RTF -.9050
SG8 1729.5 RZ3 -.0262 R13 -.9051
SG1 1692.8 SG2 354.7 THA 1.25

ORBIT DETERMINATION ACCURACY
ST 1058.4 SR 253.7 SS 1223.8
CRT -.8819 CRS -.9475 CST .9857
LSA 1629.3 HSA 165.5 SSA 16.5
EL1 1082.1 EL2 117.0 ALF 167.92

LAUNCH DATE JUN 2 1967 FLIGHT TIME 114.00 ARRIVAL DATE SEP 24 1967

HELIOCENTRIC CONIC DISTANCE 293.841

RL 151.72 LAL .00 LOL 250.79 VL 26.314 GAL 1.18 AZL 93.61 HCA 124.90 SMA 125.55 ECC .20942 INC 3.6086 V1 29.366
RP 108.52 LAP -2.96 LOP 15.75 VP 37.266 GAP -9.27 AZP 87.93 TAL 175.55 TAP 300.46 RCA 99.26 APO 151.84 V2 34.920
RC 54.330 GL -27.95 GP 2.44 ZAL 85.47 ZAP 17.97 ETS 351.77 ZAE 147.80 ETE 20.78 ZAC 86.98 ETC 13.45 CLP -17.81

PLANETOCENTRIC CONIC

C3 12.485 VHL 3.533 DLA -20.15 RAL 155.88 RAD 6567.5 VEL 11.570 PTH 2.02 VHP 6.085 DPA 6.11 RAP 180.42 ECC 1.2055

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 56 55	1423.85	4.22	355.65	10.93	118.03	8 20 39	823.8	7.93	348.94
90.00	14 12 35	5435.75	28.16	250.17	16.40	86.89	15 43 11	4835.7	27.43	241.58
100.00	9 5 17	1203.23	3.02	338.77	10.27	119.75	9 25 20	603.2	6.96	332.20
100.00	15 46 55	5131.60	29.52	227.69	16.29	85.07	17 12 26	4531.6	28.52	219.03
110.00	9 45 45	1076.40	.09	327.33	8.44	124.18	10 3 41	476.4	4.58	321.11
110.00	17 22 56	4831.19	32.95	204.36	15.77	80.32	18 43 27	4231.2	31.26	195.54

DIFFERENTIAL CORRECTIONS
TDE .6369 TRA -.6517 TC3 1.0974 BAU .1906
RDE -.1424 RRA -.0727 RC3 .3146 FAU .05637
FDE-1.5119 FRA .7165 FC3-3.9088 BSP 5500
BDE .6526 BRA .6558 BC3 1.1416 FSP -966

MID-COURSE EXECUTION ACCURACY
SGT 1713.2 SGR 344.2 SG3 336.5
RRT .1278 RRF -.1519 RTF -.9092
SG8 1747.4 RZ3 -.0311 R13 -.9094
SG1 1713.8 SG2 341.3 THA 1.53

ORBIT DETERMINATION ACCURACY
ST 1086.8 SR 234.0 SS 1304.2
CRT -.8868 CRS -.9498 CST .9862
LSA 1705.9 HSA 162.8 SSA 16.1
EL1 1106.6 EL2 106.2 ALF 169.09

LAUNCH DATE JUN 2 1967 FLIGHT TIME 116.00 ARRIVAL DATE SEP 26 1967

HELIOCENTRIC CONIC DISTANCE 300.504

RL 151.72 LAL .00 LOL 250.79 VL 26.404 GAL 1.02 AZL 93.64 HCA 128.09 SMA 126.11 ECC .20376 INC 3.6371 V1 29.366
RP 108.48 LAP -2.86 LOP 18.94 VP 37.342 GAP -8.61 AZP 87.75 TAL 176.02 TAP 304.11 RCA 100.42 APO 151.81 V2 34.932
RC 56.016 GL -28.97 GP 2.71 ZAL 86.55 ZAP 20.49 ETS 352.01 ZAE 147.52 ETE 20.30 ZAC 86.25 ETC 13.37 CLP -20.31

PLANETOCENTRIC CONIC

C3 11.958 VHL 3.458 DLA -20.65 RAL 154.43 RAD 6567.5 VEL 11.548 PTH 2.02 VHP 5.733 DPA 6.07 RAP 181.15 ECC 1.1968

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 57 0	1393.11	5.20	353.92	9.10	117.88	8 20 13	793.1	8.89	347.19
90.00	14 0 54	5448.23	28.20	251.08	14.43	87.34	15 31 42	4848.2	27.54	242.48
100.00	9 4 42	1174.59	3.99	337.19	8.43	119.65	9 24 17	574.6	7.91	330.60
100.00	15 35 52	5141.99	29.58	228.46	14.33	85.47	17 1 34	4542.0	28.64	219.78
110.00	9 43 59	1051.50	1.04	326.03	6.60	124.17	10 1 30	451.5	5.52	319.80
110.00	17 13 5	4837.84	33.02	204.87	13.84	80.61	18 33 43	4237.8	31.37	196.03

DIFFERENTIAL CORRECTIONS
TDE .6442 TRA -.6144 TC3 1.1845 BAU .1966
RDE -.1261 RRA -.0678 RC3 .3304 FAU .06211
FDE-1.6831 FRA .7171 FC3-4.4968 BSP 5615
BDE .6565 BRA .6181 BC3 1.2297 FSP -1096

MID-COURSE EXECUTION ACCURACY
SGT 1730.3 SGR 332.1 SG3 377.2
RRT .1647 RRF -.1933 RTF -.9142
SG8 1761.9 RZ3 -.0376 R13 -.9144
SG1 1731.2 SG2 327.4 THA 1.88

ORBIT DETERMINATION ACCURACY
ST 1116.5 SR 212.2 SS 1394.9
CRT -.8914 CRS -.9514 CST .9870
LSA 1792.1 HSA 159.4 SSA 15.6
EL1 1132.5 EL2 94.8 ALF 170.32

LAUNCH DATE JUN 2 1967 FLIGHT TIME 118.00 ARRIVAL DATE SEP 28 1967

HELIOCENTRIC CONIC DISTANCE 307.152
RL 151.72 LAL .00 LOL 250.79 VL 26.485 GAL .87 AZL 93.67 HCA 131.28 SMA 126.63 ECC .19866 INC 3.6682 V1 29.366
RP 108.45 LAP -2.76 LOP 22.13 VP 37.411 GAP -7.97 AZP 87.58 TAL 176.47 TAP 307.75 RCA 101.48 APO 151.79 V2 34.945
RC 57.772 GL -29.95 GP 3.02 ZAL 87.58 ZAP 23.16 ETS 352.16 ZAE 147.50 ETE 20.07 ZAC 85.66 ETC 13.30 CLP -22.97
PLANETOCENTRIC CONIC
C3 11.517 VHL 3.394 DLA -21.14 RAL 153.01 RAD 6567.4 VEL 11.528 PTH 2.01 VHP 5.399 DPA 6.14 RAP 181.77 ECC 1.1895

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 57 12	1363.90	6.12	352.27	7.38	117.70	8 19 56	763.9	9.79	345.51
90.00	13 49 25	5461.69	28.24	252.07	12.59	87.83	15 20 27	4861.7	27.64	243.45
100.00	9 4 14	1147.54	4.90	335.70	6.71	119.53	9 23 22	547.5	8.79	329.08
100.00	15 25 4	5153.28	29.64	229.29	12.50	85.90	16 50 57	4553.3	28.75	220.60
110.00	9 42 18	1028.25	1.93	324.81	4.86	124.14	9 59 26	428.3	6.40	318.58
110.00	17 3 30	4845.34	33.10	205.44	12.03	80.94	18 24 15	4245.3	31.50	196.58

DIFFERENTIAL CORRECTIONS
TDE .6448 TRA -.5808 TC3 1.2496 BAU .1997
RDE -.1093 RRA -.0634 RC3 .3475 FAU .06847
FDE-1.8728 FRA .7216 FC3-5.1470 BSP 5631
BDE .6540 BRA .5842 BC3 1.2971 FSP -1238

MID-COURSE EXECUTION ACCURACY
SGT 1734.8 SGR 320.7 SG3 422.5
RRT .2155 RRF -.2490 RTF -.9170
SGB 1764.2 R23 -.0459 R13 -.9173
SG1 1736.2 SG2 312.9 THA 2.36

ORBIT DETERMINATION ACCURACY
ST 1133.7 SR 187.8 SS 1487.1
CRT -.8914 CRS -.9506 CST .9874
LSA 1872.6 MSA 157.7 SSA 14.9
EL1 1146.0 EL2 84.2 ALF 171.55

LAUNCH DATE JUN 2 1967 FLIGHT TIME 120.00 ARRIVAL DATE SEP 30 1967

HELIOCENTRIC CONIC DISTANCE 313.785
RL 151.72 LAL .00 LOL 250.79 VL 26.558 GAL .74 AZL 93.70 HCA 134.47 SMA 127.10 ECC .19409 INC 3.7024 V1 29.366
RP 108.41 LAP -2.64 LOP 25.32 VP 37.474 GAP -7.35 AZP 87.40 TAL 176.91 TAP 311.38 RCA 102.43 APO 151.77 V2 34.957
RC 59.590 GL -30.90 GP 3.39 ZAL 88.56 ZAP 26.00 ETS 352.25 ZAE 147.74 ETE 20.13 ZAC 85.22 ETC 13.24 CLP -25.80
PLANETOCENTRIC CONIC
C3 11.152 VHL 3.339 DLA -21.61 RAL 151.65 RAD 6567.4 VEL 11.513 PTH 2.01 VHP 5.083 DPA 6.32 RAP 182.26 ECC 1.1835

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 57 40	1335.88	7.01	350.69	5.80	117.51	8 19 56	735.9	10.64	343.89
90.00	13 38 7	5476.35	28.27	253.14	10.89	88.37	15 9 24	4876.4	27.75	244.51
100.00	9 4 0	1121.81	5.76	334.28	5.12	119.38	9 22 42	521.8	9.63	327.63
100.00	15 14 28	5165.66	29.69	230.21	10.82	86.38	16 40 34	4565.7	28.87	221.50
110.00	9 40 48	1006.43	2.77	323.67	3.26	124.08	9 57 35	406.4	7.22	317.42
110.00	16 54 9	4853.81	33.19	206.08	10.37	81.31	18 15 3	4253.8	31.64	197.20

DIFFERENTIAL CORRECTIONS
TDE .6422 TRA -.5474 TC3 1.2906 BAU .2000
RDE -.0914 RRA -.0596 RC3 .3668 FAU .07548
FDE-2.0909 FRA .7245 FC3-5.8595 BSP 5592
BDE .6486 BRA .5507 BC3 1.3418 FSP -1395

MID-COURSE EXECUTION ACCURACY
SGT 1725.6 SGR 311.0 SG3 473.0
RRT .2789 RRF -.3193 RTF -.9185
SGB 1753.4 R23 -.0575 R13 -.9190
SG1 1727.8 SG2 298.3 THA 2.97

ORBIT DETERMINATION ACCURACY
ST 1143.0 SR 160.4 SS 1586.2
CRT -.8866 CRS -.9466 CST .9876
LSA 1955.3 MSA 156.7 SSA 14.2
EL1 1151.8 EL2 73.6 ALF 172.88

LAUNCH DATE JUN 2 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 2 1967

HELIOCENTRIC CONIC DISTANCE 320.402
RL 151.72 LAL .00 LOL 250.79 VL 26.624 GAL .63 AZL 93.74 HCA 137.66 SMA 127.53 ECC .19000 INC 3.7408 V1 29.366
RP 108.37 LAP -2.52 LOP 28.52 VP 37.532 GAP -6.76 AZP 87.23 TAL 177.33 TAP 314.99 RCA 103.30 APO 151.76 V2 34.970
RC 61.464 GL -31.81 GP 3.83 ZAL 89.47 ZAP 29.05 ETS 352.30 ZAE 148.24 ETE 20.51 ZAC 84.94 ETC 13.18 CLP -28.81
PLANETOCENTRIC CONIC
C3 10.855 VHL 3.295 DLA -22.08 RAL 150.36 RAD 6567.4 VEL 11.500 PTH 2.00 VHP 4.785 DPA 6.65 RAP 182.60 ECC 1.1786

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 58 33	1308.63	7.86	349.14	4.36	117.29	8 20 21	708.6	11.46	342.31
90.00	13 26 57	5492.54	28.30	254.32	9.34	88.96	14 58 29	4892.5	27.86	245.68
100.00	9 4 7	1097.01	6.58	332.90	3.66	119.22	9 22 24	497.0	10.43	326.22
100.00	15 4 4	5179.40	29.75	231.23	9.28	86.91	16 30 23	4579.4	29.00	222.50
110.00	9 39 37	985.72	3.55	322.59	1.79	124.02	9 56 3	385.7	8.00	316.32
110.00	16 45 3	4863.45	33.29	206.82	8.87	81.74	18 6 6	4263.5	31.79	197.91

DIFFERENTIAL CORRECTIONS
TDE .6366 TRA -.5126 TC3 1.3223 BAU .2001
RDE -.0719 RRA -.0563 RC3 .3901 FAU .08366
FDE-2.3420 FRA .7219 FC3-6.6726 BSP 5583
BDE .6406 BRA .5157 BC3 1.3786 FSP -1585

MID-COURSE EXECUTION ACCURACY
SGT 1705.8 SGR 304.7 SG3 530.9
RRT .3603 RRF -.4083 RTF -.9200
SGB 1732.8 R23 -.0722 R13 -.9208
SG1 1709.5 SG2 283.7 THA 3.79

ORBIT DETERMINATION ACCURACY
ST 1144.3 SR 129.1 SS 1693.1
CRT -.8727 CRS -.9360 CST .9879
LSA 2041.6 MSA 155.4 SSA 13.4
EL1 1149.8 EL2 62.7 ALF 174.36

LAUNCH DATE JUN 2 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 4 1967

HELIOCENTRIC CONIC DISTANCE 327.001
RL 151.72 LAL .00 LOL 250.79 VL 26.682 GAL .52 AZL 93.78 HCA 140.86 SMA 127.91 ECC .18637 INC 3.7841 V1 29.366
RP 108.33 LAP -2.39 LOP 31.71 VP 37.586 GAP -6.17 AZP 87.06 TAL 177.72 TAP 318.58 RCA 104.07 APO 151.75 V2 34.983
RC 63.388 GL -32.70 GP 4.35 ZAL 90.31 ZAP 32.31 ETS 352.31 ZAE 149.02 ETE 21.30 ZAC 84.85 ETC 13.14 CLP -32.04
PLANETOCENTRIC CONIC
C3 10.622 VHL 3.259 DLA -22.55 RAL 149.15 RAD 6567.4 VEL 11.490 PTH 2.00 VHP 4.506 DPA 7.14 RAP 182.79 ECC 1.1748

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 0 2	1281.55	8.70	347.60	3.07	117.05	8 21 24	681.6	12.26	340.73
90.00	13 15 47	5510.76	28.31	255.65	7.95	89.63	14 47 38	4910.8	27.96	247.01
100.00	9 4 46	1072.63	7.39	331.54	2.37	119.05	9 22 39	472.6	11.21	324.83
100.00	14 53 44	5194.92	29.80	232.38	7.91	87.52	16 20 19	4594.9	29.14	223.63
110.00	9 38 52	965.74	4.31	321.54	.47	123.94	9 54 58	365.7	8.74	315.25
110.00	16 36 8	4874.57	33.39	207.67	7.53	82.23	17 57 23	4274.6	31.96	198.73

DIFFERENTIAL CORRECTIONS
TDE .6253 TRA -.4811 TC3 1.3208 BAU .1967
RDE -.0501 RRA -.0536 RC3 .4184 FAU .09264
FDE-2.6287 FRA .7229 FC3-7.5507 BSP 5460
BDE .6273 BRA .4841 BC3 1.3855 FSP -1788

MID-COURSE EXECUTION ACCURACY
SGT 1669.9 SGR 304.2 SG3 595.3
RRT .4557 RRF -.5133 RTF -.9194
SGB 1697.3 R23 -.0934 R13 -.9207
SG1 1675.8 SG2 269.8 THA 4.87

ORBIT DETERMINATION ACCURACY
ST 1133.4 SR 93.5 SS 1807.3
CRT -.8312 CRS -.9048 CST .9879
LSA 2129.6 MSA 155.2 SSA 12.5
EL1 1136.1 EL2 51.9 ALF 176.07

LAUNCH DATE JUN 2 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 6 1967

HELIOCENTRIC CONIC DISTANCE 333.582

```
RL  151.72 LAL    .00 LOL 250.79 VL  26.733 GAL    .43 AZL  93.83 HCA 144.06 SMA 128.25 ECC .18317 INC 3.8339 V1  29.366
RP  108.29 LAP  -2.25 LOP  34.91 VP  37.634 GAP  -5.61 AZP  86.89 TAL 178.07 TAP 322.13 RCA 104.76 APO 151.74 V2  34.996
RC   65.357 GL  -33.57 GP    4.97 ZAL  91.05 ZAP  35.81 ETS 352.30 ZAE 150.05 ETE  22.60 ZAC  84.96 ETC  13.11 CLP -35.51
```

PLANETOCENTRIC CONIC

```
C3  10.447 VHL  3.232 DLA -23.04 RAL 148.03 RAD 6567.4 VEL 11.482 PTH   2.00 VHP  4.246 DPA   7.82 RAP 182.80 ECC 1.1719
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 2 23	1253.90	9.55	346.01	1.96	116.78	8 23 17	653.9	13.07	339.10
90.00	13 4 27	5531.70	28.31	257.19	6.73	90.40	14 36 39	4931.7	28.07	248.53
100.00	9 6 9	1048.06	8.20	330.17	1.24	118.85	9 23 37	448.1	11.99	323.42
100.00	14 43 22	5212.77	29.84	233.70	6.71	88.21	16 10 15	4612.8	29.28	224.94
110.00	9 38 41	946.05	5.06	320.51	359.31	123.85	9 54 27	346.0	9.47	314.20
110.00	16 27 19	4887.55	33.51	208.66	6.37	82.81	17 48 47	4287.6	32.15	199.70

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE   .6074 TRA -.4503 TC3 1.2954 BAU  .1917   SGT 1616.4 SGR  313.1 SG3  667.6     ST  1107.9 SR    54.3 SS  1927.7
RDE -.0252 RRA -.0514 RC3  .4543 FAU .10286   RRT  .5606 RRF -.6290 RTF -.9171     CRT -.6663 CRS -.7702 CST  .9875
FDE-2.9536 FRA  .7193 FC3-8.5241 BSP   5305   SGB 1646.4 R23 -.1226 R13 -.9194     LSA 2218.6 MSA  155.4 SSA   11.6
BDE  .6079 BRA  .4532 BC3 1.3727 FSP  -2022   SG1 1626.2 SG2  257.7 THA   6.36    EL1 1108.5 EL2   40.5 ALF 178.13
```

LAUNCH DATE JUN 2 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 8 1967

HELIOCENTRIC CONIC DISTANCE 340.145

```
RL  151.72 LAL    .00 LOL 250.79 VL  26.778 GAL    .35 AZL  93.89 HCA 147.26 SMA 128.55 ECC .18037 INC 3.8920 V1  29.366
RP  108.25 LAP  -2.10 LOP  38.11 VP  37.679 GAP  -5.06 AZP  86.72 TAL 178.39 TAP 325.65 RCA 105.36 APO 151.73 V2  35.009
RC   67.365 GL  -34.44 GP    5.74 ZAL  91.69 ZAP  39.58 ETS 352.28 ZAE 151.32 ETE  24.56 ZAC  85.28 ETC  13.12 CLP -39.23
```

PLANETOCENTRIC CONIC

```
C3  10.330 VHL  3.214 DLA -23.57 RAL 146.99 RAD 6567.4 VEL 11.477 PTH   1.99 VHP  4.006 DPA   8.72 RAP 182.65 ECC 1.1700
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 5 54	1224.63	10.45	344.33	1.03	116.47	8 26 18	624.6	13.92	337.37
90.00	12 52 40	5556.42	28.29	258.99	5.68	91.31	14 25 16	4956.4	28.17	250.33
100.00	9 8 31	1022.48	9.04	328.73	.29	118.61	9 25 34	422.5	12.79	321.95
100.00	14 32 43	5233.80	29.88	235.26	5.69	89.04	15 59 57	4633.8	29.42	226.49
110.00	9 39 16	926.07	5.82	319.46	358.32	123.74	9 54 42	326.1	10.21	313.12
110.00	16 18 28	4902.98	33.63	209.85	5.40	83.50	17 40 11	4303.0	32.37	200.85

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE   .5782 TRA -.4235 TC3 1.2091 BAU  .1806   SGT 1531.3 SGR  334.2 SG3  742.5     ST  1060.2 SR    31.4 SS  2048.5
RDE   .0037 RRA -.0499 RC3  .4974 FAU .11300   RRT  .6551 RRF -.7388 RTF -.9096     CRT  .4277 CRS  .2854 CST  .9866
FDE-3.3098 FRA  .7221 FC3-9.4705 BSP   5028   SGB 1567.4 R23 -.1675 R13 -.9139     LSA 2301.5 MSA  156.7 SSA   10.6
BDE  .5782 BRA  .4264 BC3 1.3074 FSP  -2266   SG1 1547.3 SG2  249.9 THA   8.36    EL1 1060.3 EL2   28.3 ALF    .73
```

LAUNCH DATE JUN 2 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 10 1967

HELIOCENTRIC CONIC DISTANCE 346.689

```
RL  151.72 LAL    .00 LOL 250.79 VL  26.817 GAL    .29 AZL  93.96 HCA 150.46 SMA 128.81 ECC .17794 INC 3.9612 V1  29.366
RP  108.20 LAP  -1.95 LOP  41.31 VP  37.719 GAP  -4.53 AZP  86.55 TAL 178.66 TAP 329.12 RCA 105.89 APO 151.73 V2  35.023
RC   69.409 GL  -35.31 GP    6.67 ZAL  92.24 ZAP  43.64 ETS 352.26 ZAE 152.79 ETE  27.43 ZAC  85.82 ETC  13.16 CLP -43.22
```

PLANETOCENTRIC CONIC

```
C3  10.271 VHL  3.205 DLA -24.14 RAL 146.04 RAD 6567.4 VEL 11.474 PTH   1.99 VHP  3.788 DPA   9.90 RAP 182.31 ECC 1.1690
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 11 1	1192.31	11.42	342.45	.30	116.09	8 30 53	592.3	14.84	335.44
90.00	12 39 58	5586.42	28.22	261.19	4.82	92.40	14 13 4	4986.4	28.26	252.52
100.00	9 12 12	994.81	9.94	327.16	359.53	118.34	9 28 46	394.8	13.65	320.34
100.00	14 21 28	5259.15	29.89	237.15	4.86	90.03	15 49 7	4659.2	29.58	228.36
110.00	9 40 48	905.11	6.61	318.35	357.51	123.61	9 55 53	305.1	10.98	311.99
110.00	16 9 22	4921.61	33.77	211.29	4.64	84.34	17 31 23	4321.6	32.62	202.24

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE   .5455 TRA -.3940 TC3 1.1038 BAU  .1696   SGT 1431.0 SGR  374.0 SG3  827.1     ST  1002.6 SR    75.8 SS  2186.2
RDE   .0388 RRA -.0486 RC3  .5537 FAU .12459   RRT  .7331 RRF -.8334 RTF -.9003     CRT  .9806 CRS  .9410 CST  .9854
FDE-3.7274 FRA  .7085 FC-10.5022 BSP   4713   SGB 1479.0 R23 -.2243 R13 -.9084     LSA 2401.2 MSA  156.9 SSA    9.6
BDE  .5469 BRA  .3970 BC3 1.2350 FSP  -2534   SG1 1457.8 SG2  249.7 THA  11.18    EL1 1005.3 EL2   14.8 ALF   4.24
```

LAUNCH DATE JUN 2 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 12 1967

HELIOCENTRIC CONIC DISTANCE 353.214

```
RL  151.72 LAL    .00 LOL 250.79 VL  26.851 GAL    .24 AZL  94.05 HCA 153.67 SMA 129.03 ECC .17585 INC 4.0457 V1  29.366
RP  108.16 LAP  -1.79 LOP  44.52 VP  37.755 GAP  -4.01 AZP  86.37 TAL 178.88 TAP 332.55 RCA 106.34 APO 151.72 V2  35.036
RC   71.485 GL  -36.23 GP    7.84 ZAL  92.67 ZAP  48.00 ETS 352.25 ZAE 154.37 ETE  31.56 ZAC  86.57 ETC  13.27 CLP -47.51
```

PLANETOCENTRIC CONIC

```
C3  10.274 VHL  3.205 DLA -24.80 RAL 145.17 RAD 6567.4 VEL 11.474 PTH   1.99 VHP  3.592 DPA  11.40 RAP 181.81 ECC 1.1691
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 18 27	1154.61	12.54	340.25	359.81	115.60	8 37 42	554.6	15.89	333.17
90.00	12 25 37	5624.23	28.08	263.94	4.14	93.78	13 59 21	5024.2	28.31	255.29
100.00	9 17 41	963.39	10.95	325.38	358.99	117.99	9 33 44	363.4	14.61	318.50
100.00	14 9 4	5290.69	29.87	239.49	4.23	91.26	15 37 15	4690.7	29.72	230.69
110.00	9 43 34	882.19	7.47	317.14	356.89	123.45	9 58 16	282.2	11.82	310.74
110.00	15 59 40	4944.65	33.91	213.07	4.09	85.39	17 22 5	4344.6	32.90	203.98

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE   .5006 TRA -.3703 TC3  .9663 BAU  .1582   SGT 1310.1 SGR  438.1 SG3  917.8     ST   921.5 SR   149.8 SS  2328.2
RDE   .0820 RRA -.0485 RC3  .6266 FAU .13712   RRT  .7833 RRF -.9036 RTF -.8840     CRT  .9971 CRS  .9893 CST  .9831
FDE-4.1878 FRA  .7069 FC-11.5547 BSP   4380   SGB 1381.4 R23 -.2924 R13 -.9008     LSA 2503.4 MSA  158.1 SSA    8.6
BDE  .5073 BRA  .3735 BC3 1.1517 FSP  -2836   SG1 1356.1 SG2  263.1 THA  15.27    EL1  933.5 EL2   11.3 ALF   9.21
```

LAUNCH DATE JUN 2 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 14 1967

DISTANCE 359.720

HELIOCENTRIC CONIC

RL 151.72 LAL .00 LOL 250.79 VL 26.879 GAL .20 AZL 94.15 HCA 156.87 SMA 129.23 ECC .17409 INC 4.1519 V1 29.366
RP 108.12 LAP -1.63 LOP 47.72 VP 37.788 GAP -3.51 AZP 86.18 TAL 179.05 TAP 335.93 RCA 106.73 APO 151.72 V2 35.049
RC 73.590 GL -37.22 GP 9.31 ZAL 92.98 ZAP 52.67 ETS 352.26 ZAE 155.90 ETE 37.39 ZAC 87.53 ETC 13.46 CLP -52.09

PLANETOCENTRIC CONIC

C3 10.350 VHL 3.217 DLA -25.56 RAL 144.37 RAD 6567.4 VEL 11.478 PTH 2.00 VHP 3.422 DPA 13.31 RAP 181.18 ECC 1.1703

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 29 28	1107.49	13.91	337.47	359.59	114.91	8 47 55	507.5	17.16	330.29
90.00	12 8 14	5674.33	27.81	267.58	3.63	95.58	13 42 49	5074.3	28.29	258.95
100.00	9 25 47	925.62	12.14	323.21	358.70	117.52	9 41 13	325.6	15.74	316.26
100.00	13 54 36	5331.43	29.77	242.52	3.79	92.85	15 23 27	4731.4	29.85	233.71
110.00	9 48 0	855.93	8.46	315.74	356.50	123.24	10 2 16	255.9	12.77	309.30
110.00	15 48 53	4973.88	34.05	215.35	3.78	86.73	17 11 47	4373.9	33.22	206.20

DIFFERENTIAL CORRECTIONS

TDE .4411 TRA -.3471 TC3 .7796 BAU .1467
RDE .1362 RRA -.0487 RC3 .7185 FAU .14947
FDE-4.6809 FRA .6892 FC-12.5032 BSP 3969
BDE .4617 BRA .3505 BC3 1.0602 FSP -3136

MID-COURSE EXECUTION ACCURACY

SGT 1156.9 SGR 530.8 SG3 1007.8
RRT .7952 RRF -.9483 RTF -.8534
SGB 1272.9 R23 -.3618 R13 -.8918
SG1 1236.8 SG2 301.1 THA 21.37

ORBIT DETERMINATION ACCURACY

ST 812.2 SR 244.7 SS 2469.0
CRT .9898 CRS .9972 CST .9786
LSA 2605.8 MSA 159.5 SSA 7.6
EL1 847.6 EL2 33.4 ALF 16.63

LAUNCH DATE JUN 2 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 16 1967

DISTANCE 366.206

HELIOCENTRIC CONIC

RL 151.72 LAL .00 LOL 250.79 VL 26.903 GAL .17 AZL 94.29 HCA 160.08 SMA 129.39 ECC .17263 INC 4.2902 V1 29.366
RP 108.08 LAP -1.46 LOP 50.93 VP 37.817 GAP -3.01 AZP 85.97 TAL 179.17 TAP 339.25 RCA 107.05 APO 151.72 V2 35.062
RC 75.721 GL -38.35 GP 11.24 ZAL 93.17 ZAP 57.67 ETS 352.31 ZAE 157.07 ETE 45.43 ZAC 88.65 ETC 13.78 CLP -56.96

PLANETOCENTRIC CONIC

C3 10.521 VHL 3.244 DLA -26.49 RAL 143.62 RAD 6567.4 VEL 11.485 PTH 2.00 VHP 3.281 DPA 15.74 RAP 180.48 ECC 1.1732

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 46 48	1042.10	15.75	333.54	359.74	113.84	9 4 10	442.1	18.84	326.23
90.00	11 44 53	5746.35	27.22	272.77	3.26	98.12	13 20 40	5146.4	28.06	264.21
100.00	9 38 0	876.72	13.67	320.38	358.72	116.85	9 52 37	276.7	17.16	313.33
100.00	13 36 22	5386.96	29.51	246.63	3.56	95.00	15 6 9	4787.0	29.89	237.84
110.00	9 54 46	824.14	9.64	314.04	356.36	122.96	10 8 30	224.1	13.91	307.54
110.00	15 36 6	5012.31	34.15	218.34	3.73	88.50	16 59 38	4412.3	33.57	209.15

DIFFERENTIAL CORRECTIONS

TDE .3729 TRA -.3268 TC3 .5412 BAU .1395
RDE .2090 RRA -.0496 RC3 .8309 FAU .16024
FDE-5.2465 FRA .6621 FC-13.1851 BSP 3590
BDE .4275 BRA .3305 BC3 .9916 FSP -3422

MID-COURSE EXECUTION ACCURACY

SGT 986.5 SGR 660.7 SG3 1095.5
RRT .7604 RRF -.9742 RTF -.7956
SGB 1187.3 R23 -.4026 R13 -.8912
SG1 1126.2 SG2 375.8 THA 30.78

ORBIT DETERMINATION ACCURACY

ST 686.7 SR 370.8 SS 2630.2
CRT .9784 CRS .9992 CST .9705
LSA 2738.8 MSA 160.8 SSA 6.5
EL1 777.4 EL2 67.7 ALF 28.08

LAUNCH DATE JUN 2 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 18 1967

DISTANCE 372.673

HELIOCENTRIC CONIC

RL 151.72 LAL .00 LOL 250.79 VL 26.922 GAL .16 AZL 94.48 HCA 163.30 SMA 129.52 ECC .17144 INC 4.4794 V1 29.366
RP 108.04 LAP -1.29 LOP 54.14 VP 37.842 GAP -2.53 AZP 85.71 TAL 179.22 TAP 342.52 RCA 107.31 APO 151.72 V2 35.075
RC 77.874 GL -39.71 GP 13.83 ZAL 93.23 ZAP 62.98 ETS 352.44 ZAE 157.38 ETE 55.90 ZAC 89.83 ETC 14.27 CLP -62.10

PLANETOCENTRIC CONIC

C3 10.831 VHL 3.291 DLA -27.68 RAL 142.87 RAD 6567.4 VEL 11.499 PTH 2.00 VHP 3.173 DPA 18.89 RAP 179.83 ECC 1.1783

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 20 14	927.34	18.77	326.48	.57	111.60	9 35 41	327.3	21.54	318.90
90.00	11 5 27	5872.93	25.69	281.72	2.85	102.35	12 43 20	5272.9	27.13	273.35
100.00	9 57 55	805.51	15.81	316.18	359.22	115.70	10 11 21	205.5	19.14	308.97
100.00	13 10 27	5469.99	28.86	252.71	3.50	98.14	14 41 37	4870.0	29.69	244.00
110.00	10 5 9	782.80	11.16	311.80	356.55	122.52	10 18 12	182.8	15.37	305.23
110.00	15 19 42	5065.47	34.17	222.49	3.99	90.95	16 44 8	4465.5	33.93	213.26

DIFFERENTIAL CORRECTIONS

TDE .2808 TRA -.3111 TC3 .2749 BAU .1462
RDE .3064 RRA -.0516 RC3 .9717 FAU .16902
FDE-5.7913 FRA .6279 FC-13.5099 BSP 3393
BDE .4156 BRA .3153 BC3 1.0099 FSP -3666

MID-COURSE EXECUTION ACCURACY

SGT 803.6 SGR 839.1 SG3 1166.4
RRT .6505 RRF -.9880 RTF -.6722
SGB 1161.8 R23 -.3546 R13 -.9230
SG1 1055.7 SG2 485.1 THA 46.90

ORBIT DETERMINATION ACCURACY

ST 522.2 SR 534.7 SS 2767.1
CRT .9544 CRS .9997 CST .9484
LSA 2861.6 MSA 163.1 SSA 5.5
EL1 738.8 EL2 112.8 ALF 45.71

LAUNCH DATE JUN 2 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 20 1967

DISTANCE 379.119

HELIOCENTRIC CONIC

RL 151.72 LAL .00 LOL 250.79 VL 26.937 GAL .16 AZL 94.76 HCA 166.51 SMA 129.62 ECC .17051 INC 4.7558 V1 29.366
RP 108.00 LAP -1.11 LOP 57.35 VP 37.865 GAP -2.07 AZP 85.37 TAL 179.22 TAP 345.73 RCA 107.52 APO 151.72 V2 35.088
RC 80.046 GL -41.47 GP 17.50 ZAL 93.16 ZAP 68.58 ETS 352.68 ZAE 156.04 ETE 68.06 ZAC 90.90 ETC 15.01 CLP -67.49

PLANETOCENTRIC CONIC

C3 11.375 VHL 3.373 DLA -29.28 RAL 142.02 RAD 6567.4 VEL 11.522 PTH 2.01 VHP 3.112 DPA 23.10 RAP 179.48 ECC 1.1872

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.24	9 5 27	973.17	23.20	331.56	2.14	108.37	9 21 40	373.2	25.50	323.56
97.76	11 13 31	5847.28	23.21	279.09	2.14	108.36	12 50 58	5247.3	25.50	271.10
100.00	10 39 53	667.09	19.70	307.75	.72	112.95	10 51 0	67.1	22.64	300.18
100.00	12 21 45	5628.59	26.80	264.04	3.28	103.75	13 55 34	5028.6	28.43	255.62
110.00	10 21 59	723.46	13.31	308.55	357.28	121.78	10 34 3	123.5	17.42	301.84
110.00	14 56 9	5144.99	33.91	228.69	4.61	94.61	16 21 54	4545.0	34.17	219.45

DIFFERENTIAL CORRECTIONS

TDE .1738 TRA -.2979 TC3 -.0011 BAU .1749
RDE .4521 RRA -.0524 RC3 1.1502 FAU .17456
FDE-6.3733 FRA .5428 FC-13.2854 BSP 3695
BDE .4843 BRA .3025 BC3 1.1502 FSP -3855

MID-COURSE EXECUTION ACCURACY

SGT 651.1 SGR 1096.4 SG3 1217.7
RRT .3997 RRF -.9950 RTF -.4145
SGB 1275.2 R23 -.1443 R13 -.9846
SG1 1138.2 SG2 574.9 THA 71.87

ORBIT DETERMINATION ACCURACY

ST 342.7 SR 768.9 SS 2912.9
CRT .8805 CRS .9999 CST .8756
LSA 3027.6 MSA 164.7 SSA 4.4
EL1 828.2 EL2 150.8 ALF 67.80

```
LAUNCH DATE  JUN  2 1967                          FLIGHT TIME 142.00                          ARRIVAL DATE  OCT 22 1967

  HELIOCENTRIC CONIC                              DISTANCE 385.546
   RL  151.72 LAL     .00 LOL 250.79 VL  26.948 GAL    .17 AZL  95.20 HCA 169.73 SMA 129.70 ECC .16983 INC 5.2015 V1  29.366
   RP  107.96 LAP    -.93 LOP  60.56 VP  37.885 GAP  -1.61 AZP  84.88 TAL 179.16 TAP 348.89 RCA 107.67 APO 151.72 V2  35.101
   RC  82.236 GL  -43.96 GP   23.08 ZAL  92.94 ZAP  74.44 ETS 353.11 ZAE 151.94 ETE  79.88 ZAC  91.51 ETC  16.09 CLP -73.05
  PLANETOCENTRIC CONIC
   C3  12.390 VHL  3.520 DLA -31.57 RAL 140.91 RAD 6567.5 VEL 11.566 PTH   2.02 VHP  3.125 DPA  29.07 RAP 179.99 ECC 1.2039
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      75.41     8 10 16   1152.35      24.53     345.45       2.95      110.54    8 29 28      552.3       27.10      337.45
     104.59    11 59 46   5704.01      24.54     268.91       2.96      110.52   13 34 50     5104.0       27.10      260.91
      75.41     8 10 16   1152.35      24.53     345.45       2.95      110.54    8 29 28      552.3       27.10      337.45
     104.59    11 59 46   5704.01      24.54     268.91       2.96      110.52   13 34 50     5104.0       27.10      260.91
     110.00    10 54  7    620.47      16.92     302.75     359.10      120.15   11  4 28       20.5       20.80      295.78
     110.00    14 15  6   5283.88      32.64     239.32       5.54      100.78   15 43 10     4683.9       33.78      230.27
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
   TDE   .0416 TRA -.2934 TC3 -.2704 BAU  .2288   SGT  595.9 SGR 1475.0 SG3 1214.3             ST   181.4 SR  1122.1 SS  3031.9
   RDE   .6889 RRA -.0498 RC3 1.3544 FAU .17126   RRT -.0594 RRF -.9981 RTF  .0494             CRT  .3960 CRS 1.0000 CST  .3916
   FDE-6.8959 FRA  .4011 FC-11.9659 BSP  4656    SGB 1590.8 R23  .0215 R13 -.9979             LSA 3233.6 MSA  166.9 SSA    3.4
   BDE   .6902 BRA  .2976 BC3 1.3811 FSP -3821   SGI 1475.5 SG2  594.7 THA  91.64             EL1 1124.4 EL2  166.2 ALF  86.25

LAUNCH DATE  JUN  2 1967                          FLIGHT TIME 144.00                          ARRIVAL DATE  OCT 24 1967

  HELIOCENTRIC CONIC                              DISTANCE 391.951
   RL  151.72 LAL     .00 LOL 250.79 VL  26.956 GAL    .20 AZL  96.05 HCA 172.95 SMA 129.75 ECC .16937 INC 6.0490 V1  29.366
   RP  107.92 LAP    -.74 LOP  63.78 VP  37.902 GAP  -1.16 AZP  84.00 TAL 179.04 TAP 351.99 RCA 107.77 APO 151.72 V2  35.113
   RC  84.440 GL  -47.92 GP   32.50 ZAL  92.53 ZAP  80.49 ETS 353.97 ZAE 143.16 ETE  89.06 ZAC  90.85 ETC  17.61 CLP -78.71
  PLANETOCENTRIC CONIC
   C3  14.647 VHL  3.827 DLA -35.23 RAL 139.05 RAD 6567.6 VEL 11.663 PTH   2.05 VHP  3.312 DPA  38.41 RAP 182.98 ECC 1.2411
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      68.10     7 16 53   1330.34      26.22     359.98       4.84      114.43    7 39  3      730.3       29.28      352.04
     111.90    12 38 22   5598.84      26.23     261.56       4.84      114.42   14 11 40     4998.8       29.29      253.62
      68.10     7 16 53   1330.34      26.22     359.98       4.84      114.43    7 39  3      730.3       29.28      352.04
     111.90    12 38 22   5598.84      26.23     261.56       4.84      114.42   14 11 40     4998.8       29.29      253.62
      68.10     7 16 53   1330.34      26.22     359.98       4.84      114.43    7 39  3      730.3       29.28      352.04
     111.90    12 38 22   5598.84      26.23     261.56       4.84      114.42   14 11 40     4998.8       29.29      253.62
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
   TDE -.1288 TRA -.3085 TC3 -.4702 BAU  .3132   SGT  697.3 SGR 2074.9 SG3 1096.1             ST   256.8 SR  1713.1 SS  3067.3
   RDE 1.1440 RRA -.0285 RC3 1.5287 FAU .14999   RRT -.4986 RRF -.9994 RTF  .4926             CRT -.7443 CRS 1.0000 CST -.7455
   FDE-7.1579 FRA  .1425 FC3-8.8652 BSP  6679    SGB 2188.9 R23  .0580 R13 -.9977             LSA 3518.5 MSA  171.0 SSA    2.4
   BDE 1.1512 BRA  .3098 BC3 1.5993 FSP -3486    SGI 2106.4 SG2  595.4 THA 100.35             EL1 1723.8 EL2  170.4 ALF  96.43

LAUNCH DATE  JUN  2 1967                          FLIGHT TIME 146.00                          ARRIVAL DATE  OCT 26 1967

  HELIOCENTRIC CONIC                              DISTANCE 398.332
   RL  151.72 LAL     .00 LOL 250.79 VL  26.960 GAL    .23 AZL  98.31 HCA 176.16 SMA 129.78 ECC .16912 INC 8.3080 V1  29.366
   RP  107.89 LAP    -.55 LOP  66.99 VP  37.916 GAP  -.72 AZP  81.71 TAL 178.85 TAP 355.02 RCA 107.83 APO 151.72 V2  35.125
   RC  86.655 GL  -55.36 GP   50.84 ZAL  91.83 ZAP  86.42 ETS 355.97 ZAE 125.00 ETE  94.63 ZAC  86.82 ETC  19.13 CLP -84.33
  PLANETOCENTRIC CONIC
   C3  22.426 VHL  4.736 DLA -41.95 RAL 134.96 RAD 6567.9 VEL 11.992 PTH   2.14 VHP  4.212 DPA  54.57 RAP 196.04 ECC 1.3691
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      57.65     6  9  6   1578.19      27.24      21.10      10.00      123.23    6 35 24      978.2       31.40       13.68
     122.35    13 13 28   5549.66      27.25     258.14      10.01      123.22   14 45 57     4949.7       31.42      250.71
      57.65     6  9  6   1578.19      27.24      21.10      10.00      123.23    6 35 24      978.2       31.40       13.68
     122.35    13 13 28   5549.66      27.25     258.14      10.01      123.22   14 45 57     4949.7       31.42      250.71
      57.65     6  9  6   1578.19      27.24      21.10      10.00      123.23    6 35 24      978.2       31.40       13.68
     122.35    13 13 28   5549.66      27.25     258.14      10.01      123.22   14 45 57     4949.7       31.42      250.71
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
   TDE -.3746 TRA -.3869 TC3 -.4413 BAU  .4241   SGT  881.0 SGR 3067.4 SG3  711.3             ST   491.1 SR  2786.7 SS  2744.8
   RDE 2.3027 RRA  .1002 RC3 1.3441 FAU .08959   RRT -.7021 RRF -.9998 RTF  .6986             CRT -.9297 CRS 1.0000 CST -.9297
   FDE-6.2320 FRA -.2744 FC3-3.4585 BSP  9919    SGB 3191.4 R23  .0459 R13 -.9988             LSA 3938.1 MSA  179.7 SSA    1.5
   BDE 2.3329 BRA  .3996 BC3 1.4146 FSP -2237    SGI 3131.6 SG2  614.5 THA 101.86             EL1 2824.0 EL2  178.5 ALF  99.34

LAUNCH DATE  JUN  2 1967                          FLIGHT TIME 148.00                          ARRIVAL DATE  OCT 28 1967

  HELIOCENTRIC CONIC                              DISTANCE 404.629
   RL  151.72 LAL     .00 LOL 250.79 VL  26.961 GAL    .30 AZL 122.22 HCA 179.31 SMA 129.78 ECC .16908 INC32.2071 V1  29.366
   RP  107.85 LAP    -.37 LOP  70.21 VP  37.928 GAP  -.31 AZP  57.79 TAL 178.54 TAP 357.85 RCA 107.84 APO 151.73 V2  35.137
   RC  88.880 GL  -65.49 GP   84.04 ZAL  90.44 ZAP  90.01 ETS 177.72 ZAE  80.26 ETE 275.52 ZAC  74.29 ETC 191.36 CLP  90.05
  PLANETOCENTRIC CONIC
   C3 249.532 VHL 15.797 DLA -51.04 RAL 128.24 RAD 6571.5 VEL 19.257 PTH   3.09 VHP 18.393 DPA  62.35 RAP 289.49 ECC 5.1067
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      45.58     4 58 27   2213.25       5.89      59.60      33.44      140.80    5 35 21     1613.3       12.06       54.85
     134.42    13 30 34    673.25       5.91     297.67      33.46      140.80   13 41 47       73.3       12.07      292.93
      45.58     4 58 27   2213.25       5.89      59.60      33.44      140.80    5 35 21     1613.3       12.06       54.85
     134.42    13 30 34    673.25       5.91     297.67      33.46      140.80   13 41 47       73.3       12.07      292.93
      45.58     4 58 27   2213.25       5.89      59.60      33.44      140.80    5 35 21     1613.3       12.06       54.85
     134.42    13 30 34    673.25       5.91     297.67      33.46      140.80   13 41 47       73.3       12.07      292.93
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
   TDE 4.6112 TRA 1.2915 TC3 -.0654 BAU  .7346   SGT 1842.6 SGR 3573.9 SG3   90.5             ST  1687.4 SR  3480.8 SS  1629.4
   RDE-9.5880 RRA -.8452 RC3  .2103 FAU-.01587   RRT -.9593 RRF  .9997 RTF -.9567             CRT -.9959 CRS-1.0000 CST  .9955
   FDE-2.8248 FRA -.2246 FC3  .0551 BSP  3797    SGB 4021.0 R23 -.0667 R13  .9975             LSA 4195.0 MSA  141.5 SSA    1.2
   BDE10.6392 BRA 1.5434 BC3  .2202 FSP   -87    SGI 3993.9 SG2  465.9 THA 116.71             EL1 3865.8 EL2  137.8 ALF 115.81
```

```
LAUNCH DATE  JUN  2 1967                          FLIGHT TIME 150.00                          ARRIVAL DATE  OCT 30 1967

 HELIOCENTRIC CONIC                               DISTANCE 411.093
  RL  151.72 LAL     .00 LOL 250.79 VL  26.960 GAL     .34 AZL  86.21 HCA 182.65 SMA 129.77 ECC .16921 INC 3.7848 V1  29.366
  RP  107.82 LAP    -.17 LOP  73.43 VP  37.937 GAP     .14 AZP  93.78 TAL 178.35 TAP    1.00 RCA 107.81 APO 151.73 V2  35.149
  RC  91.113 GL    35.83 GP -62.09 ZAL  91.94 ZAP  93.17 ETS 355.11 ZAE 120.69 ETE 255.89 ZAC 111.28 ETC 351.20 CLP -98.78
 PLANETOCENTRIC CONIC
  C3   9.257 VHL  3.043 DLA  40.98 RAL 176.90 RAD 6567.3 VEL 11.430 PTH    1.98 VHP  5.361 DPA -44.88 RAP 132.62 ECC 1.1523
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     59.04    21  0 36   4010.16     -33.16     175.60      38.14      64.39   22  7 26     3410.2     -36.30     167.05
    120.96     3 56 36   2727.49     -33.15      77.65      38.14      64.38    4 42  3     2127.5     -36.29      69.11
     59.04    21  0 36   4010.16     -33.16     175.60      38.14      64.39   22  7 26     3410.2     -36.30     167.05
    120.96     3 56 36   2727.49     -33.15      77.65      38.14      64.38    4 42  3     2127.5     -36.29      69.11
     59.04    21  0 36   4010.16     -33.16     175.60      38.14      64.39   22  7 26     3410.2     -36.30     167.05
    120.96     3 56 36   2727.49     -33.15      77.65      38.14      64.38    4 42  3     2127.5     -36.29      69.11
 DIFFERENTIAL CORRECTIONS                         MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE  .5160 TRA  .2942 TC3-2.0610 BAU  .5460     SGT 1748.0 SGR 3504.9 SG3  459.2        ST   997.0 SR  1307.6 SS   903.8
  RDE  .5855 RRA  .9345 RC3-3.9008 FAU .06385     RRT  .9400 RRF 1.0000 RTF  .9396        CRT  .9419 CRS-1.0000 CST -.9396
  FDE  .8698 FRA 1.4090 FC3-5.9718 BSP  11354     SGB 3916.6 R23  .0676 R13  .9977        LSA 1853.9 MSA  288.9 SSA     .9
  BDE  .7804 BRA  .9797 BC3 4.4118 FSP  -1380     SG1 3879.3 SG2  538.8 THA  64.35        EL1 1622.0 EL2  269.9 ALF  53.12

LAUNCH DATE  JUN  2 1967                          FLIGHT TIME 152.00                          ARRIVAL DATE  NOV  1 1967

 HELIOCENTRIC CONIC                               DISTANCE 417.411
  RL  151.72 LAL     .00 LOL 250.79 VL  26.955 GAL     .41 AZL  90.16 HCA 185.86 SMA 129.74 ECC .16953 INC  .1278 V1  29.366
  RP  107.78 LAP     .02 LOP  76.66 VP  37.944 GAP     .56 AZP  89.84 TAL 177.99 TAP    3.85 RCA 107.75 APO 151.74 V2  35.160
  RC  93.352 GL   -1.78 GP -37.61 ZAL  91.60 ZAP  99.23 ETS 353.62 ZAE 142.53 ETE 242.88 ZAC 114.70 ETC     .07 CLP-101.68
 PLANETOCENTRIC CONIC
  C3   5.820 VHL  2.412 DLA   6.48 RAL 160.11 RAD 6567.2 VEL 11.279 PTH    1.93 VHP  3.510 DPA -22.35 RAP 144.36 ECC 1.0958
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     4 34  3   2165.80     -18.36      38.42       5.95     111.95    5 10  9     1565.8     -15.22      31.15
     90.00    18  9 10   4405.52       6.62     183.49       4.72      62.41   19 22 35     3805.5       2.88     176.82
    100.00     5 58 29   1893.49     -19.05      18.08       5.64     113.48    6 30  2     1293.5     -15.72      10.88
    100.00    19 27 25   4153.05       7.29     164.57       4.36      60.93   20 36 38     3553.1       3.36     157.99
    110.00     7 13 47   1657.84     -20.90     359.25       4.70     117.68    7 41 25     1057.8     -17.03     352.26
    110.00    20 28 37   3961.47       9.04     148.96       3.29      56.89   21 34 38     3361.5       4.62     142.66
 DIFFERENTIAL CORRECTIONS                         MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE -.0637 TRA  .1077 TC3-4.1252 BAU  .4732     SGT 2012.6 SGR 2392.2 SG3  993.7        ST   180.0 SR   498.4 SS   773.4
  RDE -.1698 RRA  .3994 RC3-4.4689 FAU .14446     RRT  .9551 RRF  .9998 RTF  .9555        CRT  .9685 CRS -.9984 CST -.9730
  FDE -.9022 FRA 1.8798 FC-21.4886 BSP   9432     SGB 3126.2 R23  .1216 R13  .9924        LSA  936.2 MSA   42.3 SSA   22.3
  BDE  .1811 BRA  .4136 BC3 6.0818 FSP  -3135     SG1 3092.0 SG2  461.6 THA  50.15        EL1  528.2 EL2   42.3 ALF  70.59

LAUNCH DATE  JUN  2 1967                          FLIGHT TIME 154.00                          ARRIVAL DATE  NOV  3 1967

 HELIOCENTRIC CONIC                               DISTANCE 423.720
  RL  151.72 LAL     .00 LOL 250.79 VL  26.948 GAL     .50 AZL  91.31 HCA 189.09 SMA 129.69 ECC .17002 INC 1.3121 V1  29.366
  RP  107.75 LAP     .21 LOP  79.88 VP  37.949 GAP     .97 AZP  88.70 TAL 177.57 TAP    6.66 RCA 107.64 APO 151.75 V2  35.170
  RC  95.596 GL  -14.28 GP -25.77 ZAL  90.62 ZAP 105.02 ETS 353.40 ZAE 150.14 ETE 226.79 ZAC 115.92 ETC    4.79 CLP-106.72
 PLANETOCENTRIC CONIC
  C3   6.260 VHL  2.502 DLA  -5.48 RAL 156.31 RAD 6567.2 VEL 11.298 PTH    1.94 VHP  3.187 DPA -10.75 RAP 147.34 ECC 1.1030
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     5 48 20   1805.29      -8.00      17.03       1.67     117.25    6 18 25     1205.3      -4.28      10.32
     90.00    16 24 35   4790.31      17.85     206.16       2.77      67.65   17 44 26     4190.3      14.67     198.93
    100.00     7  7  5   1551.23      -8.68     357.98       1.31     118.72    7 32 56      951.2      -4.78     351.36
    100.00    17 48 31   4519.60      18.56     185.93       2.45      66.14   19  3 51     3919.6      15.18     178.77
    110.00     8  9 24   1356.13     -10.48     342.09        .22     122.73    8 32  0      756.1      -6.09     335.75
    110.00    19  2 42   4287.47      20.44     167.34       1.48      61.99   20 14  9     3687.5      16.54     160.39
 DIFFERENTIAL CORRECTIONS                         MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE -.3255 TRA  .0815 TC3-4.4859 BAU  .4490     SGT 2372.8 SGR 1690.3 SG3 1199.4        ST   750.5 SR   628.5 SS  1540.0
  RDE -.2634 RRA  .2478 RC3-2.9424 FAU .17299     RRT  .9629 RRF  .9993 RTF  .9639        CRT  .9798 CRS -.9994 CST -.9857
  FDE-2.3659 FRA 1.9472 FC-23.9221 BSP   8746     SGB 2913.3 R23  .1750 R13  .9839        LSA 1820.8 MSA  120.0 SSA    6.3
  BDE  .4187 BRA  .2609 BC3 5.3648 FSP  -3812     SG1 2889.1 SG2  374.5 THA  35.13        EL1  974.1 EL2   96.8 ALF  39.84

LAUNCH DATE  JUN  2 1967                          FLIGHT TIME 156.00                          ARRIVAL DATE  NOV  5 1967

 HELIOCENTRIC CONIC                               DISTANCE 430.011
  RL  151.72 LAL     .00 LOL 250.79 VL  26.939 GAL     .60 AZL  91.87 HCA 192.32 SMA 129.63 ECC .17068 INC 1.8650 V1  29.366
  RP  107.72 LAP     .40 LOP  83.11 VP  37.952 GAP    1.37 AZP  88.18 TAL 177.11 TAP    9.43 RCA 107.51 APO 151.76 V2  35.180
  RC  97.843 GL  -19.75 GP -19.15 ZAL  89.58 ZAP 110.30 ETS 353.52 ZAE 151.63 ETE 212.89 ZAC 116.77 ETC    7.57 CLP-111.54
 PLANETOCENTRIC CONIC
  C3   6.730 VHL  2.594 DLA -10.93 RAL 155.18 RAD 6567.2 VEL 11.319 PTH    1.95 VHP  3.126 DPA  -4.03 RAP 148.24 ECC 1.1108
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     6 26 43   1642.05      -2.81       7.83       1.42     118.19    6 54  5     1042.0        .98       1.20
     90.00    15 37 11   4978.31      22.28     218.16       3.68      72.06   17  0  9     4378.3      19.62     210.50
    100.00     7 42 35   1397.28      -3.55     349.43       1.01     119.70    8  5 53      797.3        .43     342.90
    100.00    17  4  0   4698.31      23.08     197.28       3.39      70.46   18 22 18     4098.3      20.20     189.66
    110.00     8 38 25   1222.42      -5.48     334.96     359.81     123.79    8 58 48      622.4      -1.00     328.74
    110.00    18 24 39   4445.93      25.18     177.19       2.47      66.08   19 38 45     3845.9      21.73     169.74
 DIFFERENTIAL CORRECTIONS                         MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE -.5134 TRA  .0915 TC3-4.7372 BAU  .4649     SGT 2714.6 SGR 1264.9 SG3 1251.6        ST  1138.0 SR   551.2 SS  1917.7
  RDE -.2429 RRA  .1812 RC3-2.0632 FAU .17889     RRT  .9679 RRF  .9978 RTF  .9699        CRT  .9857 CRS -.9992 CST -.9915
  FDE-3.1560 FRA 1.9223 FC-23.0126 BSP   9018     SGB 2994.8 R23  .1919 R13  .9794        LSA 2293.2 MSA  133.0 SSA    6.3
  BDE  .5680 BRA  .2030 BC3 5.1669 FSP  -4006     SG1 2980.8 SG2  289.7 THA  24.52        EL1 1261.7 EL2   83.9 ALF  25.64
```

LAUNCH DATE JUN 2 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 7 1967

DISTANCE 436.284

HELIOCENTRIC CONIC
RL 151.72 LAL .00 LOL 250.79 VL 26.928 GAL .71 AZL 92.19 HCA 195.56 SMA 129.55 ECC .17151 INC 2.1909 V1 29.366
RP 107.69 LAP .59 LOP 86.34 VP 37.953 GAP 1.77 AZP 87.89 TAL 176.59 TAP 12.14 RCA 107.34 APO 151.77 V2 35.190
RC 100.092 GL -22.71 GP -15.00 ZAL 88.48 ZAP 115.13 ETS 353.74 ZAE 150.63 ETE 203.08 ZAC 117.46 ETC 9.44 CLP-116.08

PLANETOCENTRIC CONIC
C3 7.110 VHL 2.667 DLA -14.09 RAL 155.06 RAD 6567.2 VEL 11.336 PTH 1.95 VHP 3.154 DPA .30 RAP 148.44 ECC 1.1170

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 53 13	1544.28	.34	2.38	2.19	118.32	7 18 57	944.3	4.12	355.74
90.00	15 9 46	5095.37	24.52	226.01	5.14	75.38	16 34 42	4495.4	22.27	218.06
100.00	8 7 5	1305.95	-.46	344.41	1.75	119.89	8 28 51	705.9	3.52	337.88
100.00	16 38 35	4808.93	25.40	204.67	4.88	73.69	17 58 44	4208.9	22.92	196.75
110.00	8 58 34	1144.67	-2.52	330.89	.46	124.10	9 17 39	544.7	1.97	324.68
110.00	18 3 35	4542.97	27.70	183.61	4.01	69.12	19 19 18	3943.0	24.61	175.81

DIFFERENTIAL CORRECTIONS
TDE -.6708 TRA .1197 TC3-4.9786 BAU .4955
RDE -.2028 RRA .1478 RC3-1.5458 FAU .17491
FDE-3.5357 FRA 1.9077 FC-21.2971 BSP 9641
BDE .7008 BRA .1902 BC3 5.2130 FSP -3954

MID-COURSE EXECUTION ACCURACY
SGT 3032.7 SGR 988.3 SG3 1235.8
RRT .9688 RRF .9945 RTF .9735
SGB 3189.7 R23 .1845 R13 .9780
SG1 3181.1 SG2 233.6 THA 17.62

ORBIT DETERMINATION ACCURACY
ST 1445.8 SR 447.3 SS 2100.8
CRT .9862 CRS -.9984 CST -.9939
LSA 2585.6 MSA 137.6 SSA 7.1
EL1 1511.8 EL2 70.9 ALF 17.01

LAUNCH DATE JUN 2 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 9 1967

DISTANCE 442.538

HELIOCENTRIC CONIC
RL 151.72 LAL .00 LOL 250.79 VL 26.914 GAL .83 AZL 92.41 HCA 198.79 SMA 129.46 ECC .17248 INC 2.4069 V1 29.366
RP 107.66 LAP .78 LOP 89.57 VP 37.952 GAP 2.16 AZP 87.72 TAL 176.02 TAP 14.81 RCA 107.13 APO 151.79 V2 35.199
RC 102.344 GL -24.50 GP -12.17 ZAL 87.31 ZAP 119.58 ETS 353.98 ZAE 148.70 ETE 196.62 ZAC 117.98 ETC 10.81 CLP-120.33

PLANETOCENTRIC CONIC
C3 7.429 VHL 2.726 DLA -16.21 RAL 155.48 RAD 6567.2 VEL 11.350 PTH 1.96 VHP 3.223 DPA 3.30 RAP 148.45 ECC 1.1223

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 14 22	1476.15	2.54	358.57	3.41	118.21	7 38 58	876.2	6.29	351.90
90.00	14 51 56	5179.15	25.84	231.79	6.81	77.99	16 18 15	4579.2	23.92	223.65
100.00	8 26 39	1242.93	1.68	340.95	2.93	119.85	8 47 22	642.9	5.64	334.40
100.00	16 22 20	4887.61	26.79	210.10	6.56	76.22	17 43 48	4287.6	24.63	201.97
110.00	9 14 48	1092.07	-.51	328.14	1.57	124.18	9 33 0	492.1	3.98	321.93
110.00	17 50 40	4611.24	29.27	188.30	5.75	71.50	19 7 31	4011.2	26.46	180.24

DIFFERENTIAL CORRECTIONS
TDE -.8130 TRA .1566 TC3-5.2104 BAU .5315
RDE -.1634 RRA .1282 RC3-1.2214 FAU .16687
FDE-3.6936 FRA 1.8866 FC-19.4460 BSP 10424
BDE .8292 BRA .2024 BC3 5.3516 FSP -3812

MID-COURSE EXECUTION ACCURACY
SGT 3332.4 SGR 800.1 SG3 1190.0
RRT .9656 RRF .9877 RTF .9759
SGB 3427.1 R23 .1612 R13 .9782
SG1 3421.1 SG2 202.8 THA 13.10

ORBIT DETERMINATION ACCURACY
ST 1714.1 SR 354.3 SS 2191.4
CRT .9838 CRS -.9965 CST -.9952
LSA 2801.2 MSA 139.2 SSA 8.1
EL1 1749.3 EL2 62.2 ALF 11.51

LAUNCH DATE JUN 2 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 11 1967

DISTANCE 448.773

HELIOCENTRIC CONIC
RL 151.72 LAL .00 LOL 250.79 VL 26.899 GAL .96 AZL 92.56 HCA 202.03 SMA 129.36 ECC .17362 INC 2.5612 V1 29.366
RP 107.63 LAP .96 LOP 92.80 VP 37.949 GAP 2.56 AZP 87.63 TAL 175.41 TAP 17.44 RCA 106.90 APO 151.82 V2 35.208
RC 104.596 GL -25.65 GP -10.13 ZAL 86.05 ZAP 123.66 ETS 354.22 ZAE 146.52 ETE 192.37 ZAC 118.29 ETC 11.85 CLP-124.27

PLANETOCENTRIC CONIC
C3 7.712 VHL 2.777 DLA -17.78 RAL 156.23 RAD 6567.3 VEL 11.362 PTH 1.96 VHP 3.318 DPA 5.45 RAP 148.46 ECC 1.1269

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 32 48	1423.92	4.21	355.65	4.89	118.03	7 56 32	823.9	7.93	348.94
90.00	14 39 31	5244.95	26.69	236.42	8.60	80.16	16 6 55	4644.9	25.05	228.13
100.00	8 43 43	1195.10	3.30	338.32	4.38	119.73	9 3 38	595.1	7.23	331.74
100.00	16 11 17	4949.00	27.71	214.43	8.38	78.33	17 33 46	4349.0	25.82	206.14
110.00	9 29 6	1052.91	.99	326.10	2.94	124.17	9 46 39	452.9	5.47	319.88
110.00	17 42 23	4663.95	30.35	192.03	7.62	73.46	19 0 7	4064.0	27.79	183.77

DIFFERENTIAL CORRECTIONS
TDE -.9433 TRA .2038 TC3-5.4142 BAU .5678
RDE -.1282 RRA .1170 RC3-1.0050 FAU .15695
FDE-3.7186 FRA 1.8795 FC-17.6180 BSP 11206
BDE .9520 BRA .2351 BC3 5.5066 FSP -3616

MID-COURSE EXECUTION ACCURACY
SGT 3609.1 SGR 667.7 SG3 1130.5
RRT .9566 RRF .9757 RTF .9774
SGB 3670.3 R23 .1305 R13 .9787
SG1 3665.3 SG2 191.5 THA 10.06

ORBIT DETERMINATION ACCURACY
ST 1952.8 SR 275.7 SS 2228.6
CRT .9776 CRS -.9923 CST -.9959
LSA 2972.6 MSA 139.4 SSA 9.1
EL1 1971.3 EL2 57.5 ALF 7.87

LAUNCH DATE JUN 2 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 13 1967

DISTANCE 454.989

HELIOCENTRIC CONIC
RL 151.72 LAL .00 LOL 250.79 VL 26.882 GAL 1.11 AZL 92.68 HCA 205.27 SMA 129.25 ECC .17490 INC 2.6779 V1 29.366
RP 107.61 LAP 1.14 LOP 96.04 VP 37.945 GAP 2.94 AZP 87.58 TAL 174.75 TAP 20.01 RCA 106.64 APO 151.85 V2 35.216
RC 106.849 GL -26.40 GP -8.59 ZAL 84.71 ZAP 127.42 ETS 354.43 ZAE 144.35 ETE 189.53 ZAC 118.40 ETC 12.65 CLP-127.92

PLANETOCENTRIC CONIC
C3 7.979 VHL 2.825 DLA -19.02 RAL 157.23 RAD 6567.3 VEL 11.374 PTH 1.96 VHP 3.430 DPA 7.04 RAP 148.57 ECC 1.1313

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 49 46	1381.21	5.57	353.25	6.57	117.81	8 12 48	781.2	9.25	346.50
90.00	14 30 29	5300.12	27.27	240.36	10.50	82.05	15 58 49	4700.1	25.88	231.96
100.00	8 59 26	1156.41	4.60	336.19	6.03	119.57	9 18 43	556.4	8.50	329.58
100.00	16 3 31	5000.16	28.37	218.10	10.31	80.15	17 26 51	4400.2	26.71	209.68
110.00	9 42 22	1021.87	2.18	324.48	4.52	124.12	9 59 24	421.9	6.64	318.24
110.00	17 37 4	4707.46	31.15	195.16	9.60	75.16	18 55 31	4107.5	28.80	186.75

DIFFERENTIAL CORRECTIONS
TDE-1.0650 TRA .2576 TC3-5.5885 BAU .6030
RDE -.0972 RRA .1102 RC3 -.8543 FAU .14641
FDE-3.6607 FRA 1.8694 FC-15.8864 BSP 11991
BDE 1.0694 BRA .2801 BC3 5.6534 FSP -3413

MID-COURSE EXECUTION ACCURACY
SGT 3865.1 SGR 572.4 SG3 1064.4
RRT .9402 RRF .9562 RTF .9785
SGB 3907.3 R23 .0997 R13 .9792
SG1 3902.5 SG2 193.1 THA 7.95

ORBIT DETERMINATION ACCURACY
ST 2168.6 SR 210.0 SS 2230.8
CRT .9639 CRS -.9825 CST -.9964
LSA 3115.1 MSA 139.0 SSA 10.1
EL1 2178.0 EL2 55.7 ALF 5.34

LAUNCH DATE JUN 2 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 15 1967

HELIOCENTRIC CONIC DISTANCE 461.186

RL 151.72 LAL .00 LOL 250.79 VL 26.864 GAL 1.27 AZL 92.77 HCA 208.51 SMA 129.12 ECC .17634 INC 2.7696 V1 29.366
RP 107.59 LAP 1.32 LOP 99.27 VP 37.938 GAP 3.33 AZP 87.57 TAL 174.04 TAP 22.55 RCA 106.35 APO 151.89 V2 35.223
RC 109.101 GL -26.88 GP -7.40 ZAL 83.29 ZAP 130.89 ETS 354.61 ZAE 142.29 ETE 187.57 ZAC 118.29 ETC 13.28 CLP-131.31

PLANETOCENTRIC CONIC

C3 8.241 VHL 2.871 DLA -20.05 RAL 158.42 RAD 6567.3 VEL 11.386 PTH 1.97 VHP 3.556 DPA 8.21 RAP 148.82 ECC 1.1356

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 5 58	1344.69	6.73	351.19	8.41	117.57	8 28 23	744.7	10.37	344.40
90.00	14 23 47	5348.68	27.68	243.85	12.51	83.75	15 52 55	4748.7	26.52	235.37
100.00	9 14 27	1123.70	5.69	334.38	7.85	119.39	9 33 10	523.7	9.57	327.74
100.00	15 57 59	5044.90	28.84	221.34	12.35	81.79	17 22 4	4444.9	27.41	212.83
110.00	9 55 8	996.20	3.16	323.14	6.27	124.05	10 11 44	396.2	7.60	316.88
110.00	17 33 47	4745.17	31.78	197.93	11.70	76.68	18 52 53	4145.2	29.62	189.38

DIFFERENTIAL CORRECTIONS
TDE-1.1809 TRA .3181 TC3-5.7318 BAU .6369
RDE -.0702 RRA .1063 RC3 -.7459 FAU .13596
FDE-3.5630 FRA 1.8606 FC-14.2816 BSP 12735
BDE 1.1830 BRA .3354 BC3 5.7801 FSP -3202

MID-COURSE EXECUTION ACCURACY
SGT 4103.9 SGR 504.0 SG3 998.0
RRT .9148 RRF .9276 RTF .9792
SGB 4134.7 R23 .0736 R13 .9796
SG1 4129.8 SG2 202.3 THA 6.43

ORBIT DETERMINATION ACCURACY
ST 2367.6 SR 156.2 SS 2216.1
CRT .9337 CRS -.9586 CST -.9968
LSA 3243.8 MSA 138.1 SSA 11.1
EL1 2372.1 EL2 55.8 ALF 3.53

LAUNCH DATE JUN 2 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 17 1967

HELIOCENTRIC CONIC DISTANCE 467.362

RL 151.72 LAL .00 LOL 250.79 VL 26.844 GAL 1.45 AZL 92.84 HCA 211.75 SMA 128.99 ECC .17794 INC 2.8440 V1 29.366
RP 107.57 LAP 1.50 LOP 102.51 VP 37.931 GAP 3.71 AZP 87.58 TAL 173.30 TAP 25.05 RCA 106.04 APO 151.94 V2 35.230
RC 111.351 GL -27.16 GP -6.46 ZAL 81.80 ZAP 134.09 ETS 354.77 ZAE 140.40 ETE 186.20 ZAC 117.99 ETC 13.77 CLP-134.45

PLANETOCENTRIC CONIC

C3 8.510 VHL 2.917 DLA -20.94 RAL 159.77 RAD 6567.3 VEL 11.397 PTH 1.97 VHP 3.692 DPA 9.07 RAP 149.23 ECC 1.1401

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 21 46	1312.48	7.74	349.36	10.41	117.32	8 43 38	712.5	11.34	342.53
90.00	14 18 44	5392.95	27.96	247.06	14.64	85.34	15 48 37	4793.0	27.02	238.52
100.00	9 29 5	1095.23	6.64	332.80	9.82	119.21	9 47 20	495.2	10.49	326.12
100.00	15 54 6	5085.43	29.20	224.30	14.50	83.31	17 18 52	4485.4	27.97	215.71
110.00	10 7 38	974.38	3.99	322.00	8.17	123.98	10 23 53	374.4	8.42	315.72
110.00	17 32 2	4779.04	32.28	200.44	13.92	78.09	18 51 41	4179.0	30.30	191.78

DIFFERENTIAL CORRECTIONS
TDE-1.2917 TRA .3857 TC3-5.8410 BAU .6689
RDE -.0463 RRA .1045 RC3 -.6650 FAU .12584
FDE-3.4395 FRA 1.8526 FC-12.8015 BSP 13457
BDE 1.2925 BRA .3996 BC3 5.8788 FSP -3005

MID-COURSE EXECUTION ACCURACY
SGT 4325.2 SGR 455.1 SG3 933.0
RRT .8794 RRF .8889 RTF .9796
SGB 4349.1 R23 .0531 R13 .9798
SG1 4343.8 SG2 215.7 THA 5.30

ORBIT DETERMINATION ACCURACY
ST 2550.6 SR 112.9 SS 2188.1
CRT .8606 CRS -.8957 CST -.9971
LSA 3359.6 MSA 136.9 SSA 12.2
EL1 2552.4 EL2 57.5 ALF 2.18

LAUNCH DATE JUN 2 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 19 1967

HELIOCENTRIC CONIC DISTANCE 473.520

RL 151.72 LAL .00 LOL 250.79 VL 26.823 GAL 1.63 AZL 92.91 HCA 214.99 SMA 128.85 ECC .17969 INC 2.9059 V1 29.366
RP 107.55 LAP 1.67 LOP 105.75 VP 37.921 GAP 4.09 AZP 87.62 TAL 172.51 TAP 27.50 RCA 105.70 APO 152.00 V2 35.236
RC 113.598 GL -27.28 GP -5.70 ZAL 80.23 ZAP 137.05 ETS 354.90 ZAE 138.67 ETE 185.20 ZAC 117.49 ETC 14.14 CLP-137.36

PLANETOCENTRIC CONIC

C3 8.793 VHL 2.965 DLA -21.73 RAL 161.25 RAD 6567.3 VEL 11.410 PTH 1.97 VHP 3.837 DPA 9.68 RAP 149.80 ECC 1.1447

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 37 24	1283.45	8.64	347.71	12.55	117.07	8 58 47	683.5	12.21	340.84
90.00	14 14 57	5434.39	28.15	250.08	16.88	86.84	15 45 31	4834.4	27.42	241.49
100.00	9 43 33	1069.95	7.48	331.39	11.93	119.03	10 1 23	470.0	11.30	324.68
100.00	15 51 29	5123.12	29.47	227.07	16.77	84.74	17 16 52	4523.1	28.43	218.42
110.00	10 20 2	955.55	4.70	321.01	10.22	123.90	10 35 58	355.5	9.12	314.71
110.00	17 31 28	4810.29	32.70	202.78	16.25	79.42	18 51 39	4210.3	30.89	194.03

DIFFERENTIAL CORRECTIONS
TDE-1.3965 TRA .4613 TC3-5.9071 BAU .6980
RDE -.0244 RRA .1043 RC3 -.6016 FAU .11593
FDE-3.2967 FRA 1.8477 FC-11.4143 BSP 14109
BDE 1.3967 BRA .4729 BC3 5.9377 FSP -2806

MID-COURSE EXECUTION ACCURACY
SGT 4524.9 SGR 420.2 SG3 869.0
RRT .8338 RRF .8398 RTF .9797
SGB 4544.4 R23 .0376 R13 .9799
SG1 4538.5 SG2 231.3 THA 4.44

ORBIT DETERMINATION ACCURACY
ST 2715.7 SR 81.1 SS 2147.3
CRT .6686 CRS -.7195 CST -.9973
LSA 3460.3 MSA 135.8 SSA 13.1
EL1 2716.2 EL2 60.3 ALF 1.14

LAUNCH DATE JUN 2 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 21 1967

HELIOCENTRIC CONIC DISTANCE 479.656

RL 151.72 LAL .00 LOL 250.79 VL 26.801 GAL 1.83 AZL 92.96 HCA 218.24 SMA 128.70 ECC .18160 INC 2.9586 V1 29.366
RP 107.53 LAP 1.83 LOP 108.99 VP 37.911 GAP 4.48 AZP 87.68 TAL 171.69 TAP 29.92 RCA 105.33 APO 152.07 V2 35.241
RC 115.842 GL -27.29 GP -5.07 ZAL 78.59 ZAP 139.79 ETS 354.99 ZAE 137.11 ETE 184.47 ZAC 116.82 ETC 14.41 CLP-140.06

PLANETOCENTRIC CONIC

C3 9.096 VHL 3.016 DLA -22.43 RAL 162.85 RAD 6567.3 VEL 11.423 PTH 1.98 VHP 3.991 DPA 10.09 RAP 150.53 ECC 1.1497

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 52 58	1256.97	9.46	346.19	14.83	116.81	9 13 55	657.0	12.99	339.29
90.00	14 12 9	5473.90	28.27	252.96	19.23	88.28	15 43 23	4873.9	27.73	244.34
100.00	9 57 56	1047.30	8.23	330.12	14.17	118.84	10 15 24	447.3	12.01	323.38
100.00	15 49 53	5158.81	29.66	229.70	19.15	86.12	17 15 52	4558.8	28.81	221.00
110.00	10 32 25	939.20	5.32	320.15	12.39	123.82	10 48 4	339.2	9.73	313.83
110.00	17 31 53	4839.66	33.04	205.00	18.70	80.69	18 52 33	4239.7	31.40	196.16

DIFFERENTIAL CORRECTIONS
TDE-1.4991 TRA .5437 TC3-5.9456 BAU .7262
RDE -.0046 RRA .1051 RC3 -.5520 FAU .10694
FDE-3.1554 FRA 1.8417 FC-10.1777 BSP 14740
BDE 1.4991 BRA .5538 BC3 5.9712 FSP -2627

MID-COURSE EXECUTION ACCURACY
SGT 4713.9 SGR 397.0 SG3 810.3
RRT .7804 RRF .7827 RTF .9799
SGB 4730.6 R23 .0255 R13 .9800
SG1 4724.1 SG2 247.7 THA 3.77

ORBIT DETERMINATION ACCURACY
ST 2869.5 SR 66.2 SS 2104.5
CRT .2511 CRS -.3165 CST -.9975
LSA 3556.6 MSA 134.6 SSA 14.1
EL1 2869.5 EL2 64.0 ALF .33

LAUNCH DATE JUN 2 1967 FLIGHT TIME 174.00 ARRIVAL DATE NOV 23 1967

HELIOCENTRIC CONIC DISTANCE 485.773

```
RL  151.72 LAL    .00 LOL 250.79 VL  26.778 GAL   2.05 AZL  93.00 HCA 221.48 SMA 128.54 ECC .18368 INC 3.0043 V1  29.366
RP  107.52 LAP   1.99 LOP 112.24 VP  37.899 GAP   4.86 AZP  87.75 TAL 170.83 TAP  32.31 RCA 104.93 APO 152.15 V2  35.246
RC 118.080 GL  -27.18 GP   -4.55 ZAL  76.90 ZAP 142.34 ETS 355.06 ZAE 135.70 ETE 183.93 ZAC 115.99 ETC  14.59 CLP-142.57
```

PLANETOCENTRIC CONIC

```
C3   9.427 VHL  3.070 DLA -23.06 RAL 164.56 RAD 6567.3 VEL 11.437 PTH   1.98 VHP  4.151 DPA  10.34 RAP 151.40 ECC 1.1551
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 8 35	1232.64	10.20	344.79	17.24	116.56	9 29 7	632.6	13.69	337.85
90.00	14 10 11	5512.09	28.32	255.75	21.69	89.68	15 42 3	4912.1	27.97	247.10
100.00	10 12 19	1026.92	8.89	328.98	16.55	118.66	10 29 26	426.9	12.65	322.20
100.00	15 49 8	5193.05	29.79	232.24	21.65	87.45	17 15 41	4593.1	29.12	223.50
110.00	10 44 48	925.07	5.86	319.41	14.69	123.74	11 0 13	325.1	10.25	313.07
110.00	17 33 9	4867.66	33.33	207.14	21.26	81.92	18 54 16	4267.7	31.85	198.22

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-1.5946 TRA  .6379 TC3-5.9330 BAU  .7505   SGT 4878.7 SGR  381.7 SG3  753.0          ST  3002.9 SR    71.1 SS  2049.9
 RDE  .0144 RRA  .1071 RC3 -.5093 FAU .09800   RRT  .7200 RRF  .7191 RTF  .9796          CRT -.2503 CRS  .1854 CST -.9976
 FDE-3.0017 FRA 1.8473 FC3-9.0006 BSP  15238   SGB 4893.6 R23  .0169 R13  .9796          LSA 3634.1 MSA  134.5 SSA   14.9
 BDE 1.5947 BRA  .6468 BC3 5.9548 FSP  -2435   SG1 4886.5 SG2  264.5 THA   3.23         EL1 3003.0 EL2   68.8 ALF 179.66
```

LAUNCH DATE JUN 2 1967 FLIGHT TIME 176.00 ARRIVAL DATE NOV 25 1967

HELIOCENTRIC CONIC DISTANCE 491.867

```
RL  151.72 LAL    .00 LOL 250.79 VL  26.753 GAL   2.28 AZL  93.04 HCA 224.73 SMA 128.38 ECC .18593 INC 3.0445 V1  29.366
RP  107.50 LAP   2.14 LOP 115.48 VP  37.885 GAP   5.24 AZP  87.84 TAL 169.94 TAP  34.67 RCA 104.51 APO 152.25 V2  35.250
RC 120.312 GL  -26.99 GP   -4.11 ZAL  75.15 ZAP 144.71 ETS 355.09 ZAE 134.43 ETE 183.51 ZAC 115.02 ETC  14.71 CLP-144.92
```

PLANETOCENTRIC CONIC

```
C3   9.790 VHL  3.129 DLA -23.64 RAL 166.36 RAD 6567.4 VEL 11.453 PTH   1.99 VHP  4.318 DPA  10.45 RAP 152.41 ECC 1.1611
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 24 12	1210.31	10.88	343.50	19.77	116.30	9 44 23	610.3	14.33	336.52
90.00	14 8 56	5549.30	28.30	258.47	24.25	91.04	15 41 25	4949.3	28.14	249.81
100.00	10 26 40	1008.67	9.49	327.95	19.04	118.48	10 43 29	408.7	13.22	321.15
100.00	15 49 9	5226.16	29.87	234.70	24.25	88.74	17 16 15	4626.2	29.37	225.93
110.00	10 57 10	913.02	6.31	318.77	17.11	123.67	11 12 24	313.0	10.69	312.42
110.00	17 35 8	4894.58	33.57	209.20	23.94	83.12	18 56 43	4294.6	32.25	200.22

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-1.6911 TRA  .7372 TC3-5.9017 BAU  .7749   SGT 5039.8 SGR  373.0 SG3  701.9          ST  3130.0 SR    88.5 SS  1999.5
 RDE  .0321 RRA  .1093 RC3 -.4739 FAU .09019   RRT  .6571 RRF  .6528 RTF  .9795          CRT -.5489 CRS  .4939 CST -.9978
 FDE-2.8626 FRA 1.8450 FC3-7.9761 BSP  15787   SGB 5053.6 R23  .0095 R13  .9795          LSA 3712.8 MSA  133.9 SSA   15.7
 BDE 1.6914 BRA  .7452 BC3 5.9207 FSP  -2279   SG1 5045.8 SG2  280.8 THA   2.79         EL1 3130.4 EL2   73.9 ALF 179.11
```

LAUNCH DATE JUN 2 1967 FLIGHT TIME 178.00 ARRIVAL DATE NOV 27 1967

HELIOCENTRIC CONIC DISTANCE 497.939

```
RL  151.72 LAL    .00 LOL 250.79 VL  26.728 GAL   2.52 AZL  93.08 HCA 227.98 SMA 128.21 ECC .18835 INC 3.0802 V1  29.366
RP  107.49 LAP   2.29 LOP 118.73 VP  37.870 GAP   5.63 AZP  87.94 TAL 169.02 TAP  36.99 RCA 104.06 APO 152.36 V2  35.253
RC 122.538 GL  -26.71 GP   -3.74 ZAL  73.35 ZAP 146.92 ETS 355.10 ZAE 133.29 ETE 183.19 ZAC 113.91 ETC  14.77 CLP-147.11
```

PLANETOCENTRIC CONIC

```
C3  10.192 VHL  3.192 DLA -24.16 RAL 168.24 RAD 6567.4 VEL 11.471 PTH   1.99 VHP  4.491 DPA  10.44 RAP 153.54 ECC 1.1677
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 39 51	1189.89	11.49	342.31	22.42	116.06	9 59 41	589.9	14.91	335.30
90.00	14 8 18	5585.76	28.23	261.14	26.91	92.38	15 41 23	4985.8	28.26	252.47
100.00	10 40 59	992.52	10.01	327.03	21.65	118.31	10 57 32	392.5	13.72	320.21
100.00	15 49 50	5258.36	29.89	237.09	26.95	90.00	17 17 29	4658.4	29.57	228.30
110.00	11 9 31	903.02	6.69	318.24	19.63	123.60	11 24 34	303.0	11.06	311.88
110.00	17 37 48	4920.62	33.76	211.21	26.72	84.30	18 59 48	4320.6	32.60	202.17

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-1.7839 TRA  .8452 TC3-5.8363 BAU  .7975   SGT 5186.6 SGR  368.8 SG3  653.9          ST  3242.1 SR   110.8 SS  1944.7
 RDE  .0494 RRA  .1119 RC3 -.4423 FAU .08290   RRT  .5931 RRF  .5855 RTF  .9793          CRT -.6953 CRS  .6488 CST -.9979
 FDE-2.7249 FRA 1.8438 FC3-7.0419 BSP  16280   SGB 5199.7 R23  .0035 R13  .9793          LSA 3779.9 MSA  134.0 SSA   16.3
 BDE 1.7846 BRA  .8526 BC3 5.8530 FSP  -2131   SG1 5191.2 SG2  296.7 THA   2.42         EL1 3243.1 EL2   79.6 ALF 178.64
```

LAUNCH DATE JUN 2 1967 FLIGHT TIME 180.00 ARRIVAL DATE NOV 29 1967

HELIOCENTRIC CONIC DISTANCE 503.989

```
RL  151.72 LAL    .00 LOL 250.79 VL  26.702 GAL   2.78 AZL  93.11 HCA 231.22 SMA 128.04 ECC .19096 INC 3.1125 V1  29.366
RP  107.49 LAP   2.43 LOP 121.97 VP  37.854 GAP   6.01 AZP  88.05 TAL 168.06 TAP  39.29 RCA 103.59 APO 152.49 V2  35.256
RC 124.755 GL  -26.36 GP   -3.43 ZAL  71.51 ZAP 149.00 ETS 355.08 ZAE 132.27 ETE 182.94 ZAC 112.69 ETC  14.79 CLP-149.17
```

PLANETOCENTRIC CONIC

```
C3  10.640 VHL  3.262 DLA -24.63 RAL 170.19 RAD 6567.4 VEL 11.490 PTH   2.00 VHP  4.670 DPA  10.33 RAP 154.78 ECC 1.1751
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 55 27	1171.44	12.04	341.24	25.18	115.82	10 14 58	571.4	15.42	334.19
90.00	14 8 15	5621.56	28.10	263.75	29.66	93.68	15 41 57	5021.6	28.31	255.09
100.00	10 55 12	978.51	10.46	326.24	24.36	118.16	11 11 31	378.5	14.15	319.39
100.00	15 51 11	5289.72	29.87	239.42	29.75	91.22	17 19 21	4689.7	29.72	230.62
110.00	11 21 48	895.09	6.99	317.82	22.26	123.55	11 36 43	295.1	11.35	311.44
110.00	17 41 4	4945.91	33.92	213.17	29.61	85.45	19 3 30	4345.9	32.91	204.08

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-1.8746 TRA  .9626 TC3-5.7404 BAU  .8186   SGT 5322.3 SGR  368.0 SG3  609.7          ST  3341.7 SR   134.5 SS  1888.5
 RDE  .0664 RRA  .1147 RC3 -.4131 FAU .07618   RRT  .5299 RRF  .5195 RTF  .9790          CRT -.7698 CRS  .7293 CST -.9980
 FDE-2.5930 FRA 1.8445 FC3-6.1986 BSP  16741   SGB 5335.0 R23 -.0012 R13  .9790          LSA 3838.4 MSA  134.6 SSA   16.8
 BDE 1.8758 BRA  .9694 BC3 5.7552 FSP  -1994   SG1 5325.8 SG2  311.8 THA   2.11         EL1 3343.3 EL2   85.8 ALF 178.22
```

LAUNCH DATE JUN 2 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 1 1967

HELIOCENTRIC CONIC DISTANCE 510.015

RL 151.72 LAL .00 LOL 250.79 VL 26.675 GAL 3.06 AZL 93.14 HCA 234.47 SMA 127.86 ECC .19376 INC 3.1421 V1 29.366
RP 107.48 LAP 2.56 LOP 125.22 VP 37.837 GAP 6.41 AZP 88.17 TAL 167.09 TAP 41.56 RCA 103.09 APO 152.64 V2 35.258
RC 126.964 GL -25.94 GP -3.15 ZAL 69.64 ZAP 150.96 ETS 355.03 ZAE 131.35 ETE 182.74 ZAC 111.35 ETC 14.77 CLP-151.11

PLANETOCENTRIC CONIC

C3 11.140 VHL 3.338 DLA -25.06 RAL 172.20 RAD 6567.4 VEL 11.512 PTH 2.01 VHP 4.856 DPA 10.13 RAP 156.12 ECC 1.1833

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 10 56	1155.07	12.53	340.28	28.03	115.60	10 30 11	555.1	15.87	333.20
90.00	14 8 47	5656.72	27.92	266.31	32.50	94.95	15 43 4	5056.7	28.31	257.66
100.00	11 9 16	966.75	10.84	325.57	27.16	118.03	11 25 23	366.8	14.50	318.70
100.00	15 53 9	5320.27	29.80	241.69	32.64	92.42	17 21 49	4720.3	29.82	232.89
110.00	11 33 58	889.28	7.21	317.51	24.97	123.51	11 48 47	289.3	11.56	311.13
110.00	17 44 56	4970.51	34.03	215.08	32.59	86.57	19 7 47	4370.5	33.18	205.95

DIFFERENTIAL CORRECTIONS
TDE-1.9608 TRA 1.0924 TC3-5.6056 BAU .8368
RDE .0835 RRA .1178 RC3 -.3852 FAU .06972
FDE-2.4631 FRA 1.8514 FC3-5.4187 BSP .17101
BDE 1.9626 BRA 1.0987 BC3 5.6189 FSP -1857

MID-COURSE EXECUTION ACCURACY
SGT 5442.2 SGR 369.4 SG3 568.3
RRT .4686 RRF .4557 RTF .9785
SGB 5454.7 R23 -.0050 R13 .9785
SG1 5444.9 SG2 326.2 THA 1.83

ORBIT DETERMINATION ACCURACY
ST 3424.7 SR 158.3 SS 1828.6
CRT -.8110 CRS .7744 CST -.9981
LSA 3883.1 MSA 136.3 SSA 17.2
EL1 3427.1 EL2 92.6 ALF 177.85

LAUNCH DATE JUN 2 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 3 1967

HELIOCENTRIC CONIC DISTANCE 516.015

RL 151.72 LAL .00 LOL 250.79 VL 26.648 GAL 3.35 AZL 93.17 HCA 237.72 SMA 127.68 ECC .19677 INC 3.1693 V1 29.366
RP 107.48 LAP 2.68 LOP 128.47 VP 37.819 GAP 6.80 AZP 88.31 TAL 166.08 TAP 43.80 RCA 102.56 APO 152.81 V2 35.259
RC 129.165 GL -25.47 GP -2.92 ZAL 67.75 ZAP 152.80 ETS 354.95 ZAE 130.53 ETE 182.57 ZAC 109.92 ETC 14.72 CLP-152.95

PLANETOCENTRIC CONIC

C3 11.699 VHL 3.420 DLA -25.44 RAL 174.26 RAD 6567.4 VEL 11.536 PTH 2.01 VHP 5.047 DPA 9.85 RAP 157.55 ECC 1.1925

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 26 13	1140.99	12.94	339.45	30.98	115.41	10 45 14	541.0	16.26	332.34
90.00	14 9 54	5691.14	27.69	268.80	35.41	96.18	15 44 45	5091.1	28.26	260.18
100.00	11 23 5	957.40	11.14	325.04	30.05	117.92	11 39 2	357.4	14.79	318.15
100.00	15 55 43	5349.97	29.70	243.89	35.61	93.57	17 24 53	4750.0	29.88	235.09
110.00	11 45 56	885.70	7.34	317.32	27.77	123.48	12 0 42	285.7	11.69	310.93
110.00	17 49 21	4994.44	34.11	216.95	35.67	87.67	19 12 36	4394.4	33.41	207.78

DIFFERENTIAL CORRECTIONS
TDE-2.0484 TRA 1.2286 TC3-5.4570 BAU .8553
RDE .1005 RRA .1207 RC3 -.3589 FAU .06404
FDE-2.3457 FRA 1.8534 FC3-4.7391 BSP .17511
BDE 2.0508 BRA 1.2345 BC3 5.4688 FSP -1743

MID-COURSE EXECUTION ACCURACY
SGT 5559.0 SGR 372.5 SG3 531.0
RRT .4100 RRF .3949 RTF .9782
SGB 5571.5 R23 -.0084 R13 .9782
SG1 5561.1 SG2 339.6 THA 1.58

ORBIT DETERMINATION ACCURACY
ST 3500.5 SR 181.4 SS 1772.1
CRT -.8361 CRS .8025 CST -.9982
LSA 3925.3 MSA 138.2 SSA 17.4
EL1 3503.8 EL2 99.4 ALF 177.52

LAUNCH DATE JUN 2 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 5 1967

HELIOCENTRIC CONIC DISTANCE 521.989

RL 151.72 LAL .00 LOL 250.79 VL 26.620 GAL 3.66 AZL 93.19 HCA 240.97 SMA 127.50 ECC .19999 INC 3.1946 V1 29.366
RP 107.48 LAP 2.79 LOP 131.72 VP 37.799 GAP 7.20 AZP 88.45 TAL 165.06 TAP 46.03 RCA 102.00 APO 153.00 V2 35.259
RC 131.355 GL -24.94 GP -2.71 ZAL 65.84 ZAP 154.55 ETS 354.84 ZAE 129.78 ETE 182.44 ZAC 108.41 ETC 14.64 CLP-154.68

PLANETOCENTRIC CONIC

C3 12.326 VHL 3.511 DLA -25.77 RAL 176.35 RAD 6567.5 VEL 11.563 PTH 2.02 VHP 5.246 DPA 9.50 RAP 159.06 ECC 1.2029

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 41 11	1129.46	13.28	338.77	34.00	115.24	11 0 0	529.5	16.57	331.64
90.00	14 11 36	5724.69	27.42	271.22	38.40	97.36	15 47 1	5124.7	28.15	262.63
100.00	11 36 33	950.65	11.35	324.65	33.02	117.84	11 52 24	350.7	14.99	317.75
100.00	15 58 55	5378.73	29.56	246.02	38.66	94.68	17 28 34	4778.7	29.89	237.23
110.00	11 57 40	884.43	7.39	317.26	30.64	123.47	12 12 24	284.4	11.74	310.86
110.00	17 54 18	5017.72	34.16	218.76	38.82	88.75	19 17 56	4417.7	33.61	209.56

DIFFERENTIAL CORRECTIONS
TDE-2.1345 TRA 1.3745 TC3-5.2848 BAU .8726
RDE .1178 RRA .1234 RC3 -.3332 FAU .05878
FDE-2.2351 FRA 1.8555 FC3-4.1286 BSP .17898
BDE 2.1378 BRA 1.3800 BC3 5.2952 FSP -1638

MID-COURSE EXECUTION ACCURACY
SGT 5666.5 SGR 376.5 SG3 496.4
RRT .3540 RRF .3368 RTF .9779
SGB 5679.0 R23 -.0115 R13 .9779
SG1 5668.0 SG2 352.0 THA 1.35

ORBIT DETERMINATION ACCURACY
ST 3564.5 SR 203.8 SS 1715.7
CRT -.8521 CRS .8208 CST -.9983
LSA 3958.6 MSA 140.6 SSA 17.6
EL1 3568.7 EL2 106.5 ALF 177.21

LAUNCH DATE JUN 2 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 7 1967

HELIOCENTRIC CONIC DISTANCE 527.935

RL 151.72 LAL .00 LOL 250.79 VL 26.591 GAL 3.98 AZL 93.22 HCA 244.21 SMA 127.31 ECC .20345 INC 3.2184 V1 29.366
RP 107.48 LAP 2.90 LOP 134.97 VP 37.778 GAP 7.61 AZP 88.60 TAL 164.01 TAP 48.23 RCA 101.41 APO 153.22 V2 35.259
RC 133.537 GL -24.37 GP -2.53 ZAL 63.92 ZAP 156.20 ETS 354.71 ZAE 129.11 ETE 182.33 ZAC 106.81 ETC 14.56 CLP-156.33

PLANETOCENTRIC CONIC

C3 13.030 VHL 3.610 DLA -26.06 RAL 178.46 RAD 6567.5 VEL 11.594 PTH 2.03 VHP 5.451 DPA 9.09 RAP 160.63 ECC 1.2144

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 55 42	1120.76	13.53	338.25	37.09	115.11	11 14 23	520.8	16.80	331.11
90.00	14 13 58	5757.15	27.11	273.54	41.45	98.49	15 49 55	5157.2	28.01	264.99
100.00	11 49 36	946.69	11.48	324.42	36.05	117.79	12 5 23	346.7	15.11	317.51
100.00	16 2 45	5406.45	29.39	248.06	41.78	95.74	17 32 51	4806.5	29.87	239.29
110.00	12 9 5	885.56	7.35	317.32	33.57	123.48	12 23 51	285.6	11.70	310.93
110.00	17 59 45	5040.35	34.18	220.53	42.05	89.79	19 23 46	4440.4	33.78	211.31

DIFFERENTIAL CORRECTIONS
TDE-2.2191 TRA 1.5315 TC3-5.0903 BAU .8883
RDE .1356 RRA .1258 RC3 -.3080 FAU .05389
FDE-2.1307 FRA 1.8595 FC3-3.5807 BSP 18248
BDE 2.2232 BRA 1.5367 BC3 5.0996 FSP -1539

MID-COURSE EXECUTION ACCURACY
SGT 5764.9 SGR 381.0 SG3 464.6
RRT .3008 RRF .2818 RTF .9775
SGB 5777.4 R23 -.0140 R13 .9775
SG1 5766.0 SG2 363.3 THA 1.14

ORBIT DETERMINATION ACCURACY
ST 3616.3 SR 225.4 SS 1659.4
CRT -.8626 CRS .8330 CST -.9983
LSA 3982.6 MSA 143.7 SSA 17.6
EL1 3621.6 EL2 113.9 ALF 176.92

LAUNCH DATE JUN 2 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 9 1967

DISTANCE 533.851

HELIOCENTRIC CONIC
RL 151.72 LAL .00 LOL 250.79 VL 26.562 GAL 4.33 AZL 93.24 HCA 247.46 SMA 127.13 ECC .20715 INC 3.2409 V1 29.366
RP 107.48 LAP 2.99 LOP 138.22 VP 37.757 GAP 8.03 AZP 88.76 TAL 162.95 TAP 50.41 RCA 100.79 APO 153.46 V2 35.257
RC 135.709 GL -23.75 GP -2.37 ZAL 62.00 ZAP 157.78 ETS 354.54 ZAE 128.51 ETE 182.23 ZAC 105.15 ETC 14.46 CLP-157.90

PLANETOCENTRIC CONIC
C3 13.821 VHL 3.718 DLA -26.30 RAL 180.59 RAD 6567.5 VEL 11.628 PTH 2.04 VHP 5.663 DPA 8.61 RAP 162.26 ECC 1.2275

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 9 39	1115.23	13.69	337.93	40.23	115.03	11 28 14	515.2	16.95	330.77
90.00	14 17 1	5788.29	26.78	275.76	44.57	99.56	15 53 29	5188.3	27.83	267.25
100.00	12 2 8	945.72	11.51	324.37	39.13	117.78	12 17 54	345.7	15.14	317.46
100.00	16 7 13	5433.04	29.19	250.01	44.96	96.75	17 37 46	4833.0	29.82	241.27
110.00	12 20 9	889.18	7.21	317.51	36.55	123.50	12 34 58	289.2	11.57	311.12
110.00	18 5 41	5062.34	34.17	222.25	45.35	90.81	19 30 4	4462.3	33.91	213.01

DIFFERENTIAL CORRECTIONS
TDE-2.2988 TRA 1.7028 TC3-4.8685 BAU .9011
RDE .1539 RRA .1279 RC3 -.2830 FAU .04917
FDE-2.0273 FRA 1.8683 FC3-3.0801 BSP 18495
BDE 2.3040 BRA 1.7076 BC3 4.8767 FSP -1440

MID-COURSE EXECUTION ACCURACY
SGT 5850.2 SGR 385.9 SG3 434.8
RRT .2502 RRF .2301 RTF .9770
SGB 5862.9 R23 -.0158 R13 .9770
SG1 5851.0 SG2 373.6 THA .95

ORBIT DETERMINATION ACCURACY
ST 3651.8 SR 246.3 SS 1600.3
CRT -.8693 CRS .8407 CST -.9984
LSA 3991.8 MSA 147.9 SSA 17.5
EL1 3658.0 EL2 121.6 ALF 176.64

LAUNCH DATE JUN 2 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 11 1967

DISTANCE 539.734

HELIOCENTRIC CONIC
RL 151.72 LAL .00 LOL 250.79 VL 26.532 GAL 4.70 AZL 93.26 HCA 250.71 SMA 126.93 ECC .21112 INC 3.2624 V1 29.366
RP 107.49 LAP 3.08 LOP 141.47 VP 37.734 GAP 8.45 AZP 88.92 TAL 161.87 TAP 52.58 RCA 100.14 APO 153.73 V2 35.255
RC 137.871 GL -23.10 GP -2.23 ZAL 60.09 ZAP 159.29 ETS 354.35 ZAE 127.95 ETE 182.14 ZAC 103.43 ETC 14.35 CLP-159.40

PLANETOCENTRIC CONIC
C3 14.710 VHL 3.835 DLA -26.50 RAL 182.73 RAD 6567.6 VEL 11.666 PTH 2.05 VHP 5.884 DPA 8.09 RAP 163.95 ECC 1.2421

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 22 51	1113.25	13.74	337.81	43.42	115.00	11 41 24	513.3	17.00	330.65
90.00	14 20 50	5817.81	26.43	277.85	47.74	100.55	15 57 48	5217.8	27.62	269.39
100.00	12 14 2	947.92	11.44	324.49	42.25	117.81	12 29 50	347.9	15.07	317.59
100.00	16 12 20	5458.37	28.97	251.87	48.20	97.70	17 43 18	4858.4	29.73	243.14
110.00	12 30 47	895.37	6.98	317.84	39.57	123.55	12 45 42	295.4	11.34	311.46
110.00	18 12 5	5083.69	34.14	223.92	48.70	91.80	19 36 49	4483.7	34.01	214.67

DIFFERENTIAL CORRECTIONS
TDE-2.3815 TRA 1.8817 TC3-4.6426 BAU .9144
RDE .1727 RRA .1294 RC3 -.2588 FAU .04499
FDE-1.9356 FRA 1.8735 FC3-2.6481 BSP 18809
BDE 2.3877 BRA 1.8861 BC3 4.6498 FSP -1357

MID-COURSE EXECUTION ACCURACY
SGT 5933.4 SGR 390.7 SG3 407.7
RRT .2015 RRF .1803 RTF .9766
SGB 5946.2 R23 -.0177 R13 .9766
SG1 5933.9 SG2 382.6 THA .76

ORBIT DETERMINATION ACCURACY
ST 3681.9 SR 266.1 SS 1545.8
CRT -.8740 CRS .8466 CST -.9985
LSA 3999.2 MSA 152.0 SSA 17.3
EL1 3689.3 EL2 129.1 ALF 176.38

LAUNCH DATE JUN 2 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 13 1967

DISTANCE 545.583

HELIOCENTRIC CONIC
RL 151.72 LAL .00 LOL 250.79 VL 26.502 GAL 5.09 AZL 93.28 HCA 253.96 SMA 126.74 ECC .21537 INC 3.2830 V1 29.366
RP 107.50 LAP 3.16 LOP 144.72 VP 37.711 GAP 8.89 AZP 89.09 TAL 160.78 TAP 54.73 RCA 99.45 APO 154.04 V2 35.253
RC 140.023 GL -22.42 GP -2.10 ZAL 58.20 ZAP 160.74 ETS 354.12 ZAE 127.45 ETE 182.06 ZAC 101.65 ETC 14.24 CLP-160.85

PLANETOCENTRIC CONIC
C3 15.710 VHL 3.964 DLA -26.65 RAL 184.85 RAD 6567.6 VEL 11.709 PTH 2.06 VHP 6.113 DPA 7.52 RAP 165.68 ECC 1.2585

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 35 11	1115.17	13.69	337.92	46.63	115.03	11 53 46	515.2	16.95	330.76
90.00	14 25 29	5845.42	26.07	279.79	50.96	101.46	16 2 55	5245.4	27.39	271.38
100.00	12 25 15	953.46	11.26	324.81	45.40	117.87	12 41 8	353.5	14.91	317.91
100.00	16 18 7	5482.36	28.74	253.61	51.49	98.60	17 49 29	4882.4	29.63	244.92
110.00	12 40 57	904.17	6.65	318.30	42.62	123.61	12 56 1	304.2	11.02	311.94
110.00	18 18 54	5104.41	34.09	225.53	52.12	92.75	19 43 58	4504.4	34.09	216.29

DIFFERENTIAL CORRECTIONS
TDE-2.4628 TRA 2.0730 TC3-4.4045 BAU .9264
RDE .1922 RRA .1302 RC3 -.2351 FAU .04112
FDE-1.8493 FRA 1.8802 FC3-2.2663 BSP 19093
BDE 2.4703 BRA 2.0771 BC3 4.4108 FSP -1279

MID-COURSE EXECUTION ACCURACY
SGT 6009.0 SGR 395.3 SG3 382.7
RRT .1548 RRF .1328 RTF .9763
SGB 6021.9 R23 -.0192 R13 .9763
SG1 6009.3 SG2 390.5 THA .59

ORBIT DETERMINATION ACCURACY
ST 3701.0 SR 284.9 SS 1492.2
CRT -.8770 CRS .8505 CST -.9985
LSA 3997.6 MSA 156.6 SSA 17.0
EL1 3709.5 EL2 136.6 ALF 176.13

LAUNCH DATE JUN 2 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 15 1967

DISTANCE 551.394

HELIOCENTRIC CONIC
RL 151.72 LAL .00 LOL 250.79 VL 26.472 GAL 5.50 AZL 93.30 HCA 257.20 SMA 126.55 ECC .21994 INC 3.3030 V1 29.366
RP 107.51 LAP 3.22 LOP 147.98 VP 37.686 GAP 9.34 AZP 89.27 TAL 159.67 TAP 56.87 RCA 98.72 APO 154.38 V2 35.249
RC 142.165 GL -21.72 GP -1.99 ZAL 56.32 ZAP 162.13 ETS 353.85 ZAE 127.00 ETE 181.99 ZAC 99.82 ETC 14.13 CLP-162.23

PLANETOCENTRIC CONIC
C3 16.835 VHL 4.103 DLA -26.76 RAL 186.97 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 6.352 DPA 6.91 RAP 167.45 ECC 1.2771

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 46 30	1121.30	13.51	338.29	49.86	115.12	12 5 11	521.3	16.79	331.14
90.00	14 31 2	5870.86	25.72	281.57	54.23	102.28	16 8 52	5270.9	27.15	273.20
100.00	12 35 41	962.44	10.98	325.32	48.56	117.98	12 51 43	362.4	14.64	318.44
100.00	16 24 32	5504.95	28.50	255.25	54.83	99.42	17 56 17	4905.0	29.51	246.59
110.00	12 50 36	915.61	6.21	318.91	45.69	123.68	13 5 52	315.6	10.60	312.56
110.00	18 26 6	5124.55	34.01	227.10	55.57	93.68	19 51 31	4524.5	34.14	217.86

DIFFERENTIAL CORRECTIONS
TDE-2.5436 TRA 2.2765 TC3-4.1569 BAU .9368
RDE .2123 RRA .1303 RC3 -.2121 FAU .03750
FDE-1.7684 FRA 1.8877 FC3-1.9283 BSP 19359
BDE 2.5525 BRA 2.2803 BC3 4.1623 FSP -1208

MID-COURSE EXECUTION ACCURACY
SGT 6076.9 SGR 399.6 SG3 359.5
RRT .1096 RRF .0871 RTF .9759
SGB 6090.0 R23 -.0204 R13 .9759
SG1 6077.0 SG2 397.2 THA .41

ORBIT DETERMINATION ACCURACY
ST 3710.5 SR 302.7 SS 1440.0
CRT -.8788 CRS .8531 CST -.9986
LSA 3988.3 MSA 161.5 SSA 16.7
EL1 3720.0 EL2 144.1 ALF 175.89

LAUNCH DATE JUN 2 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 17 1967

HELIOCENTRIC CONIC DISTANCE 557.164

RL 151.72 LAL .00 LOL 250.79 VL 26.442 GAL 5.93 AZL 93.32 HCA 260.45 SMA 126.36 ECC .22483 INC 3.3224 V1 29.366
RP 107.52 LAP 3.28 LOP 151.23 VP 37.661 GAP 9.80 AZP 89.45 TAL 158.56 TAP 59.01 RCA 97.95 APO 154.76 V2 35.245
RC 144.295 GL -20.99 GP -1.89 ZAL 54.47 ZAP 163.47 ETS 353.54 ZAE 126.58 ETE 181.92 ZAC 97.94 ETC 14.03 CLP-163.57

PLANETOCENTRIC CONIC

C3 18.104 VHL 4.255 DLA -26.83 RAL 189.06 RAD 6567.7 VEL 11.810 PTH 2.09 VHP 6.601 DPA 6.25 RAP 169.26 ECC 1.2979

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 56 43	1131.87	13.21	338.91	53.09	115.28	12 15 35	531.9	16.50	331.79
90.00	14 37 29	605.92	25.37	305.27	57.55	103.02	14 47 35	5.9	26.91	296.94
100.00	12 45 18	974.93	10.58	326.04	51.74	118.12	13 1 33	374.9	14.26	319.18
100.00	16 31 35	5526.14	28.25	256.77	58.22	100.19	18 3 41	4926.1	29.37	248.15
110.00	12 59 43	929.69	5.68	319.65	48.78	123.76	13 15 12	329.7	10.08	313.32
110.00	18 33 40	5144.14	33.91	228.62	59.07	94.57	19 59 24	4544.1	34.17	219.39

DIFFERENTIAL CORRECTIONS
TDE-2.6235 TRA 2.4935 TC3-3.9021 BAU .9455
RDE .2331 RRA .1295 RC3 -.1899 FAU .03410
FDE-1.6922 FRA 1.8967 FC3-1.6306 BSP 19593
BDE 2.6338 BRA 2.4968 BC3 3.9067 FSP -1140

MID-COURSE EXECUTION ACCURACY
SGT 6137.2 SGR 403.5 SG3 338.1
RRT .0657 RRF .0432 RTF .9756
SGB 6150.5 R23 -.0213 R13 .9756
SG1 6137.3 SG2 402.6 THA .25

ORBIT DETERMINATION ACCURACY
ST 3710.1 SR 319.4 SS 1389.1
CRT -.8797 CRS .8547 CST -.9986
LSA 3970.9 MSA 166.7 SSA 16.4
EL1 3720.7 EL2 151.4 ALF 175.66

LAUNCH DATE JUN 2 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 19 1967

HELIOCENTRIC CONIC DISTANCE 562.890

RL 151.72 LAL .00 LOL 250.79 VL 26.411 GAL 6.40 AZL 93.34 HCA 263.69 SMA 126.16 ECC .23009 INC 3.3415 V1 29.366
RP 107.53 LAP 3.32 LOP 154.48 VP 37.635 GAP 10.28 AZP 89.63 TAL 157.43 TAP 61.13 RCA 97.13 APO 155.19 V2 35.240
RC 146.414 GL -20.25 GP -1.80 ZAL 52.65 ZAP 164.77 ETS 353.18 ZAE 126.19 ETE 181.86 ZAC 96.03 ETC 13.93 CLP-164.87

PLANETOCENTRIC CONIC

C3 19.535 VHL 4.420 DLA -26.86 RAL 191.12 RAD 6567.8 VEL 11.871 PTH 2.11 VHP 6.862 DPA 5.57 RAP 171.09 ECC 1.3215

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 5 46	1146.98	12.77	339.80	56.31	115.49	12 24 53	547.0	16.09	332.71
90.00	14 44 51	626.61	25.05	306.70	60.92	103.66	14 55 18	26.6	26.68	298.41
100.00	12 54 5	990.91	10.06	326.94	54.91	118.30	13 10 36	390.9	13.77	320.11
100.00	16 39 13	5545.95	28.01	258.19	61.64	100.90	18 11 39	4946.0	29.22	249.60
110.00	13 8 16	946.38	5.05	320.53	51.87	123.85	13 24 2	346.4	9.46	314.22
110.00	18 41 32	5163.25	33.80	230.10	62.61	95.44	20 7 35	4563.2	34.18	220.88

DIFFERENTIAL CORRECTIONS
TDE-2.6999 TRA 2.7274 TC3-3.6374 BAU .9510
RDE .2546 RRA .1277 RC3 -.1687 FAU .03081
FDE-1.6182 FRA 1.9092 FC3-1.3653 BSP 19738
BDE 2.7119 BRA 2.7304 BC3 3.6413 FSP -1072

MID-COURSE EXECUTION ACCURACY
SGT 6188.4 SGR 407.0 SG3 318.1
RRT .0236 RRF .0015 RTF .9752
SGB 6201.7 R23 -.0216 R13 .9752
SG1 6188.4 SG2 406.8 THA .09

ORBIT DETERMINATION ACCURACY
ST 3697.6 SR 334.8 SS 1338.2
CRT -.8795 CRS .8549 CST -.9987
LSA 3942.8 MSA 172.3 SSA 16.0
EL1 3709.4 EL2 158.8 ALF 175.44

LAUNCH DATE JUN 2 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 21 1967

HELIOCENTRIC CONIC DISTANCE 568.564

RL 151.72 LAL .00 LOL 250.79 VL 26.380 GAL 6.89 AZL 93.36 HCA 266.94 SMA 125.97 ECC .23574 INC 3.3604 V1 29.366
RP 107.55 LAP 3.36 LOP 157.73 VP 37.608 GAP 10.78 AZP 89.82 TAL 156.31 TAP 63.25 RCA 96.27 APO 155.66 V2 35.234
RC 148.521 GL -19.50 GP -1.72 ZAL 50.86 ZAP 166.03 ETS 352.77 ZAE 125.83 ETE 181.80 ZAC 94.09 ETC 13.83 CLP-166.13

PLANETOCENTRIC CONIC

C3 21.151 VHL 4.599 DLA -26.86 RAL 193.13 RAD 6567.9 VEL 11.939 PTH 2.12 VHP 7.136 DPA 4.85 RAP 172.95 ECC 1.3481

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 13 37	1166.61	12.19	340.95	59.51	115.76	12 35 4	566.6	15.56	333.89
90.00	14 53 6	644.92	24.75	307.96	64.32	104.22	15 3 51	44.9	26.46	299.71
100.00	13 2 0	1010.33	9.43	328.04	58.08	118.50	13 18 50	410.3	13.17	321.24
100.00	16 47 25	5564.47	27.76	259.52	65.09	101.56	18 20 9	4964.5	29.07	250.96
110.00	13 16 14	965.64	4.32	321.54	54.96	123.94	13 32 20	365.6	8.75	315.25
110.00	18 49 40	5181.93	33.67	231.55	66.17	96.29	20 16 2	4581.9	34.17	222.34

DIFFERENTIAL CORRECTIONS
TDE-2.7807 TRA 2.9723 TC3-3.3800 BAU .9567
RDE .2768 RRA .1247 RC3 -.1487 FAU .02787
FDE-1.5529 FRA 1.9201 FC3-1.1406 BSP 19955
BDE 2.7945 BRA 2.9749 BC3 3.3833 FSP -1015

MID-COURSE EXECUTION ACCURACY
SGT 6236.5 SGR 409.9 SG3 299.7
RRT -.0184 RRF -.0400 RTF .9750
SGB 6250.0 R23 .0220 R13 -.9750
SG1 6236.5 SG2 409.8 THA 179.93

ORBIT DETERMINATION ACCURACY
ST 3682.5 SR 348.9 SS 1291.9
CRT -.8791 CRS .8551 CST -.9987
LSA 3914.0 MSA 177.4 SSA 15.7
EL1 3695.2 EL2 165.7 ALF 175.23

LAUNCH DATE JUN 2 1967 FLIGHT TIME 204.00 ARRIVAL DATE DEC 23 1967

HELIOCENTRIC CONIC DISTANCE 574.184

RL 151.72 LAL .00 LOL 250.79 VL 26.349 GAL 7.41 AZL 93.38 HCA 270.18 SMA 125.77 ECC .24183 INC 3.3791 V1 29.366
RP 107.57 LAP 3.38 LOP 160.97 VP 37.580 GAP 11.29 AZP 90.01 TAL 155.18 TAP 65.36 RCA 95.36 APO 156.19 V2 35.228
RC 150.615 GL -18.74 GP -1.65 ZAL 49.12 ZAP 167.25 ETS 352.28 ZAE 125.49 ETE 181.74 ZAC 92.12 ETC 13.75 CLP-167.36

PLANETOCENTRIC CONIC

C3 22.978 VHL 4.794 DLA -26.81 RAL 195.11 RAD 6567.9 VEL 12.015 PTH 2.14 VHP 7.424 DPA 4.11 RAP 174.83 ECC 1.3782

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 20 19	1190.56	11.47	342.35	62.69	116.07	12 40 10	590.6	14.89	335.34
90.00	15 2 9	661.07	24.47	309.06	67.76	104.71	15 13 10	61.1	26.26	300.84
100.00	13 9 5	1033.08	8.69	329.32	61.23	118.71	13 26 18	433.1	12.46	322.56
100.00	16 56 5	5581.83	27.52	260.75	68.57	102.16	18 29 7	4981.8	28.92	252.23
110.00	13 23 38	987.39	3.49	322.68	58.04	124.03	13 40 5	387.4	7.93	316.41
110.00	18 58 1	5200.29	33.52	232.96	69.75	97.11	20 24 41	4600.3	34.14	223.77

DIFFERENTIAL CORRECTIONS
TDE-2.8616 TRA 3.2332 TC3-3.1221 BAU .9599
RDE .2997 RRA .1205 RC3 -.1299 FAU .02507
FDE-1.4918 FRA 1.9331 FC3 -.9445 BSP 20144
BDE 2.8772 BRA 3.2354 BC3 3.1248 FSP -961

MID-COURSE EXECUTION ACCURACY
SGT 6277.5 SGR 412.2 SG3 282.6
RRT -.0595 RRF -.0803 RTF .9748
SGB 6291.0 R23 .0221 R13 -.9748
SG1 6277.5 SG2 411.5 THA 179.78

ORBIT DETERMINATION ACCURACY
ST 3659.8 SR 361.6 SS 1247.6
CRT -.8783 CRS .8548 CST -.9988
LSA 3879.2 MSA 182.5 SSA 15.3
EL1 3673.6 EL2 172.2 ALF 175.03

LAUNCH DATE JUN 2 1967 FLIGHT TIME 206.00 ARRIVAL DATE DEC 25 1967

DISTANCE 579.740

HELIOCENTRIC CONIC
RL 151.72 LAL .00 LOL 250.79 VL 26.318 GAL 7.97 AZL 93.40 HCA 273.42 SMA 125.58 ECC .24840 INC 3.3978 V1 29.366
RP 107.59 LAP 3.39 LOP 164.22 VP 37.552 GAP 11.83 AZP 90.20 TAL 154.06 TAP 67.48 RCA 94.38 APO 156.77 V2 35.221
RC 152.696 GL -17.98 GP -1.58 ZAL 47.42 ZAP 168.45 ETS 351.70 ZAE 125.16 ETE 181.68 ZAC 90.13 ETC 13.68 CLP-168.56

PLANETOCENTRIC CONIC
C3 25.048 VHL 5.005 DLA -26.74 RAL 197.03 RAD 6568.0 VEL 12.101 PTH 2.17 VHP 7.727 OPA 3.35 RAP 176.73 ECC 1.4122

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 25 56	1218.54	10.63	343.98	65.84	116.40	12 46 15	618.5	14.10	337.01
90.00	15 11 52	675.36	24.22	310.03	71.23	105.13	15 23 8	75.4	26.07	301.85
100.00	13 15 20	1058.97	7.84	330.78	64.36	118.94	13 32 59	459.0	11.64	324.05
100.00	17 5 9	5598.19	27.28	261.91	72.07	102.72	18 38 28	4998.2	28.76	253.42
110.00	13 30 27	1011.54	2.57	323.94	61.11	124.10	13 47 18	411.5	7.03	317.69
110.00	19 6 32	5218.38	33.36	234.35	73.35	97.92	20 33 31	4618.4	34.10	225.18

DIFFERENTIAL CORRECTIONS
TDE-2.9431 TRA 3.5104 TC3-2.8680 BAU .9611
RDE .3233 RRA .1150 RC3 -.1124 FAU .02245
FDE-1.4349 FRA 1.9476 FC3 -.7759 BSP 20304
BDE 2.9608 BRA 3.5123 BC3 2.8702 FSP -909

MID-COURSE EXECUTION ACCURACY
SGT 6312.0 SGR 414.0 SG3 266.8
RRT -.0999 RRF -.1195 RTF .9748
SGB 6325.6 R23 .0218 R13 -.9748
SG1 6312.2 SG2 411.9 THA 179.62

ORBIT DETERMINATION ACCURACY
ST 3630.7 SR 372.8 SS 1205.4
CRT -.8771 CRS .8540 CST -.9989
LSA 3839.1 MSA 187.5 SSA 14.9
EL1 3645.5 EL2 178.3 ALF 174.84

LAUNCH DATE JUN 2 1967 FLIGHT TIME 208.00 ARRIVAL DATE DEC 27 1967

DISTANCE 585.227

HELIOCENTRIC CONIC
RL 151.72 LAL .00 LOL 250.79 VL 26.287 GAL 8.56 AZL 93.42 HCA 276.66 SMA 125.38 ECC .25549 INC 3.4166 V1 29.366
RP 107.62 LAP 3.39 LOP 167.47 VP 37.523 GAP 12.40 AZP 90.40 TAL 152.94 TAP 69.60 RCA 93.35 APO 157.42 V2 35.214
RC 154.762 GL -17.22 GP -1.52 ZAL 45.78 ZAP 169.62 ETS 351.01 ZAE 124.86 ETE 181.62 ZAC 88.11 ETC 13.62 CLP-169.73

PLANETOCENTRIC CONIC
C3 27.397 VHL 5.234 DLA -26.63 RAL 198.90 RAD 6568.1 VEL 12.197 PTH 2.19 VHP 8.049 OPA 2.56 RAP 178.64 ECC 1.4509

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 30 34	1250.15	9.67	345.80	68.96	116.74	12 51 24	650.1	13.18	338.88
90.00	15 22 8	688.14	23.99	310.90	74.72	105.51	15 33 36	88.1	25.89	302.74
100.00	13 20 49	1087.83	6.89	332.39	67.46	119.16	13 38 57	487.8	10.73	325.70
100.00	17 14 34	5613.73	27.04	263.00	75.58	103.25	18 48 8	5013.7	28.59	254.54
110.00	13 36 41	1038.00	1.56	325.32	64.17	124.15	13 53 59	438.0	6.03	319.09
110.00	19 15 11	5236.31	33.19	235.72	76.96	98.71	20 42 27	4636.3	34.03	226.58

DIFFERENTIAL CORRECTIONS
TDE-3.0229 TRA 3.8090 TC3-2.6135 BAU .9579
RDE .3475 RRA .1079 RC3 -.0964 FAU .01987
FDE-1.3803 FRA 1.9661 FC3 -.6279 BSP 20373
BDE 3.0428 BRA 3.8105 BC3 2.6153 FSP -857

MID-COURSE EXECUTION ACCURACY
SGT 6339.4 SGR 415.1 SG3 252.1
RRT -.1393 RRF -.1573 RTF .9747
SGB 6353.0 R23 .0211 R13 -.9747
SG1 6339.7 SG2 411.1 THA 179.48

ORBIT DETERMINATION ACCURACY
ST 3593.6 SR 382.5 SS 1164.7
CRT -.8753 CRS .8525 CST -.9989
LSA 3792.0 MSA 192.3 SSA 14.5
EL1 3609.2 EL2 184.2 ALF 174.66

LAUNCH DATE JUN 2 1967 FLIGHT TIME 210.00 ARRIVAL DATE DEC 29 1967

DISTANCE 590.634

HELIOCENTRIC CONIC
RL 151.72 LAL .00 LOL 250.79 VL 26.257 GAL 9.19 AZL 93.44 HCA 279.90 SMA 125.19 ECC .26316 INC 3.4357 V1 29.366
RP 107.64 LAP 3.38 LOP 170.71 VP 37.494 GAP 13.00 AZP 90.59 TAL 151.83 TAP 71.73 RCA 92.25 APO 158.14 V2 35.205
RC 156.813 GL -16.46 GP -1.46 ZAL 44.18 ZAP 170.78 ETS 350.15 ZAE 124.56 ETE 181.56 ZAC 86.08 ETC 13.58 CLP-170.89

PLANETOCENTRIC CONIC
C3 30.068 VHL 5.483 DLA -26.49 RAL 200.70 RAD 6568.2 VEL 12.306 PTH 2.22 VHP 8.390 OPA 1.76 RAP 180.56 ECC 1.4948

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 34 17	1285.00	8.60	347.80	72.03	117.08	12 55 42	685.0	12.16	340.93
90.00	15 32 48	699.76	23.78	311.68	78.22	105.85	15 44 28	99.8	25.72	303.55
100.00	13 25 33	1119.43	5.84	334.14	70.54	119.37	13 44 12	519.4	9.71	327.49
100.00	17 24 13	5628.61	26.80	264.04	79.11	103.75	18 58 2	5028.6	28.43	255.62
110.00	13 42 22	1066.65	.46	326.82	67.21	124.18	14 0 9	466.7	4.95	320.60
110.00	19 23 54	5254.14	32.99	237.07	80.58	99.49	20 51 28	4654.1	33.95	227.97

DIFFERENTIAL CORRECTIONS
TDE-3.1089 TRA 4.1227 TC3-2.3718 BAU .9540
RDE .3723 RRA .0991 RC3 -.0819 FAU .01754
FDE-1.3328 FRA 1.9843 FC3 -.5051 BSP 20513
BDE 3.1311 BRA 4.1239 BC3 2.3732 FSP -813

MID-COURSE EXECUTION ACCURACY
SGT 6362.5 SGR 415.7 SG3 238.4
RRT -.1789 RRF -.1952 RTF .9749
SGB 6376.1 R23 .0204 R13 -.9749
SG1 6363.0 SG2 409.0 THA 179.33

ORBIT DETERMINATION ACCURACY
ST 3555.7 SR 390.6 SS 1128.4
CRT -.8737 CRS .8514 CST -.9989
LSA 3745.7 MSA 196.4 SSA 14.1
EL1 3572.1 EL2 189.1 ALF 174.50

LAUNCH DATE JUN 2 1967 FLIGHT TIME 212.00 ARRIVAL DATE DEC 31 1967

DISTANCE 595.950

HELIOCENTRIC CONIC
RL 151.72 LAL .00 LOL 250.79 VL 26.226 GAL 9.87 AZL 93.46 HCA 283.14 SMA 125.00 ECC .27147 INC 3.4552 V1 29.366
RP 107.67 LAP 3.36 LOP 173.95 VP 37.464 GAP 13.63 AZP 90.79 TAL 150.73 TAP 73.87 RCA 91.07 APO 158.94 V2 35.197
RC 158.850 GL -15.70 GP -1.42 ZAL 42.65 ZAP 171.92 ETS 349.08 ZAE 124.27 ETE 181.49 ZAC 84.05 ETC 13.55 CLP-172.04

PLANETOCENTRIC CONIC
C3 33.112 VHL 5.754 DLA -26.32 RAL 202.44 RAD 6568.3 VEL 12.429 PTH 2.25 VHP 8.754 OPA .94 RAP 182.49 ECC 1.5449

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 37 13	1322.68	7.42	349.94	75.07	117.41	12 59 16	722.7	11.04	343.13
90.00	15 43 44	710.59	23.57	312.41	81.74	106.16	15 55 35	110.6	25.57	304.31
100.00	13 29 36	1153.54	4.70	336.03	73.58	119.56	13 48 49	553.5	8.60	329.42
100.00	17 34 3	5643.01	26.57	265.05	82.64	104.23	19 8 6	5043.0	28.26	256.65
110.00	13 47 30	1097.37	-.71	328.42	70.22	124.18	14 5 47	497.4	3.78	322.21
110.00	19 32 39	5271.94	32.79	238.42	84.19	100.26	21 0 30	4671.9	33.85	229.35

DIFFERENTIAL CORRECTIONS
TDE-3.1976 TRA 4.4567 TC3-2.1376 BAU .9468
RDE .3978 RRA .0887 RC3 -.0689 FAU .01533
FDE-1.2893 FRA 2.0049 FC3 -.4007 BSP 20642
BDE 3.2223 BRA 4.4576 BC3 2.1387 FSP -772

MID-COURSE EXECUTION ACCURACY
SGT 6379.5 SGR 415.7 SG3 225.6
RRT -.2181 RRF -.2326 RTF .9752
SGB 6393.0 R23 .0195 R13 -.9752
SG1 6380.2 SG2 405.7 THA 179.18

ORBIT DETERMINATION ACCURACY
ST 3514.0 SR 397.2 SS 1094.7
CRT -.8720 CRS .8501 CST -.9990
LSA 3696.5 MSA 200.0 SSA 13.7
EL1 3531.1 EL2 193.5 ALF 174.35

LAUNCH DATE JUN 2 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 2 1968

HELIOCENTRIC CONIC DISTANCE 601.162

RL 151.72 LAL .00 LOL 250.79 VL 26.195 GAL 10.59 AZL 93.48 HCA 286.37 SMA 124.81 ECC .28051 INC 3.4752 V1 29.366
RP 107.70 LAP 3.33 LOP 177.20 VP 37.434 GAP 14.30 AZP 90.98 TAL 149.65 TAP 76.03 RCA 89.80 APO 159.82 V2 35.187
RC 160.871 GL -14.95 GP -1.37 ZAL 41.17 ZAP 173.04 ETS 347.67 ZAE 123.97 ETE 181.43 ZAC 82.00 ETC 13.54 CLP-173.18

PLANETOCENTRIC CONIC

C3 36.593 VHL 6.049 DLA -26.12 RAL 204.11 RAD 6568.4 VEL 12.568 PTH 2.28 VHP 9.144 DPA .12 RAP 184.42 ECC 1.6022

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 39 27	1362.83	6.16	352.21	78.07	117.69	13 2 10	762.8	9.82	345.45
90.00	15 54 50	720.90	23.38	313.10	85.26	106.45	16 6 51	120.9	25.41	305.02
100.00	13 32 59	1189.94	3.47	338.04	76.59	119.71	13 52 49	589.9	7.40	331.46
100.00	17 43 59	5657.07	26.33	266.02	86.16	104.69	19 18 16	5057.1	28.09	257.66
110.00	13 52 5	1130.02	-1.96	330.12	73.21	124.13	14 10 55	530.0	2.53	323.92
110.00	19 41 22	5289.75	32.56	239.76	87.80	101.03	21 9 32	4689.8	33.74	230.72

DIFFERENTIAL CORRECTIONS
TDE-3.2899 TRA 4.8134 TC3-1.9123 BAU .9360
RDE .4237 RRA .0762 RC3 -.0573 FAU .01322
FDE-1.2499 FRA 2.0284 FC3 -.3127 BSP 20743
BDE 3.3171 BRA 4.8140 BC3 1.9132 FSP -733

MID-COURSE EXECUTION ACCURACY
SGT 6391.0 SGR 415.1 SG3 213.8
RRT -.2570 RRF -.2695 RTF .9756
SGB 6404.5 R23 .0184 R13 -.9756
SG1 6391.9 SG2 401.1 THA 179.04

ORBIT DETERMINATION ACCURACY
ST 3469.2 SR 402.1 SS 1063.9
CRT -.8701 CRS .8488 CST -.9990
LSA 3645.2 MSA 203.0 SSA 13.3
EL1 3486.8 EL2 197.1 ALF 174.22

LAUNCH DATE JUN 2 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 4 1968

HELIOCENTRIC CONIC DISTANCE 606.253

RL 151.72 LAL .00 LOL 250.79 VL 26.164 GAL 11.37 AZL 93.50 HCA 289.61 SMA 124.62 ECC .29034 INC 3.4958 V1 29.366
RP 107.73 LAP 3.29 LOP 180.43 VP 37.403 GAP 15.02 AZP 91.17 TAL 148.60 TAP 78.21 RCA 88.44 APO 160.81 V2 35.178
RC 162.878 GL -14.21 GP -1.33 ZAL 39.75 ZAP 174.16 ETS 345.76 ZAE 123.68 ETE 181.37 ZAC 79.96 ETC 13.55 CLP-174.31

PLANETOCENTRIC CONIC

C3 40.584 VHL 6.371 DLA -25.90 RAL 205.71 RAD 6568.8 VEL 12.726 PTH 2.31 VHP 9.562 DPA -.71 RAP 186.35 ECC 1.6679

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 41 3	1405.12	4.81	354.60	81.03	117.94	13 4 28	805.1	8.52	347.87
90.00	16 5 59	730.94	23.18	313.77	88.76	106.73	16 18 9	130.9	25.26	305.72
100.00	13 35 46	1228.41	2.17	340.15	79.57	119.82	13 56 15	628.4	6.12	333.60
100.00	17 53 56	5670.92	26.09	266.98	89.67	105.14	19 28 27	5070.9	27.91	258.65
110.00	13 56 9	1164.48	-3.27	331.92	76.18	124.04	14 15 33	564.5	1.22	325.72
110.00	19 50 3	5307.61	32.32	241.10	91.38	101.79	21 18 31	4707.6	33.61	232.10

DIFFERENTIAL CORRECTIONS
TDE-3.3823 TRA 5.1986 TC3-1.6918 BAU .9183
RDE .4501 RRA .0617 RC3 -.0473 FAU .01108
FDE-1.2124 FRA 2.0568 FC3 -.2364 BSP 20730
BDE 3.4121 BRA 5.1990 BC3 1.6925 FSP -692

MID-COURSE EXECUTION ACCURACY
SGT 6396.5 SGR 413.9 SG3 202.8
RRT -.2950 RRF -.3052 RTF .9761
SGB 6409.9 R23 .0168 R13 -.9762
SG1 6397.7 SG2 395.4 THA 178.90

ORBIT DETERMINATION ACCURACY
ST 3418.9 SR 405.3 SS 1035.0
CRT -.8679 CRS .8469 CST -.9991
LSA 3589.2 MSA 205.5 SSA 13.0
EL1 3437.0 EL2 200.3 ALF 174.11

LAUNCH DATE JUN 2 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 6 1968

HELIOCENTRIC CONIC DISTANCE 611.202

RL 151.72 LAL .00 LOL 250.79 VL 26.134 GAL 12.21 AZL 93.52 HCA 292.84 SMA 124.44 ECC .30108 INC 3.5172 V1 29.366
RP 107.76 LAP 3.24 LOP 183.67 VP 37.372 GAP 15.79 AZP 91.37 TAL 147.58 TAP 80.42 RCA 86.97 APO 161.91 V2 35.167
RC 164.869 GL -13.48 GP -1.29 ZAL 38.40 ZAP 175.26 ETS 342.96 ZAE 123.38 ETE 181.31 ZAC 77.92 ETC 13.58 CLP-175.44

PLANETOCENTRIC CONIC

C3 45.178 VHL 6.721 DLA -25.66 RAL 207.23 RAD 6568.7 VEL 12.905 PTH 2.35 VHP 10.013 DPA -1.55 RAP 188.27 ECC 1.7435

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 42 4	1449.25	3.40	357.07	83.94	118.13	13 6 13	849.2	7.14	350.38
90.00	16 17 5	740.84	22.99	314.43	92.25	107.01	16 29 26	140.8	25.10	306.40
100.00	13 37 58	1268.74	.80	342.37	82.50	119.88	13 59 7	668.7	4.77	335.83
100.00	18 3 52	5684.62	25.84	267.92	93.16	105.58	19 38 37	5084.6	27.73	259.63
110.00	13 59 41	1200.60	-4.65	333.82	79.11	123.90	14 19 42	600.6	-.16	327.60
110.00	19 58 39	5325.52	32.06	242.43	94.94	102.54	21 27 24	4725.5	33.46	233.48

DIFFERENTIAL CORRECTIONS
TDE-3.4854 TRA 5.6056 TC3-1.4874 BAU .8987
RDE .4772 RRA .0449 RC3 -.0386 FAU .00915
FDE-1.1815 FRA 2.0866 FC3 -.1753 BSP 20821
BDE 3.5179 BRA 5.6057 BC3 1.4879 FSP -658

MID-COURSE EXECUTION ACCURACY
SGT 6397.3 SGR 412.2 SG3 192.5
RRT -.3335 RRF -.3414 RTF .9769
SGB 6410.6 R23 .0153 R13 -.9769
SG1 6398.8 SG2 388.6 THA 178.76

ORBIT DETERMINATION ACCURACY
ST 3370.4 SR 406.9 SS 1010.6
CRT -.8662 CRS .8458 CST -.9991
LSA 3536.1 MSA 207.0 SSA 12.5
EL1 3388.9 EL2 202.2 ALF 174.01

LAUNCH DATE JUN 2 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 8 1968

HELIOCENTRIC CONIC DISTANCE 615.986

RL 151.72 LAL .00 LOL 250.79 VL 26.104 GAL 13.12 AZL 93.54 HCA 296.07 SMA 124.26 ECC .31283 INC 3.5397 V1 29.366
RP 107.79 LAP 3.18 LOP 186.91 VP 37.341 GAP 16.61 AZP 91.56 TAL 146.59 TAP 82.66 RCA 85.39 APO 163.13 V2 35.156
RC 166.846 GL -12.76 GP -1.26 ZAL 37.12 ZAP 176.36 ETS 338.47 ZAE 123.06 ETE 181.25 ZAC 75.89 ETC 13.63 CLP-176.58

PLANETOCENTRIC CONIC

C3 50.485 VHL 7.105 DLA -25.39 RAL 208.67 RAD 6568.9 VEL 13.109 PTH 2.39 VHP 10.500 DPA -2.38 RAP 190.19 ECC 1.8309

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 42 33	1494.97	1.93	359.62	86.81	118.26	13 7 28	895.0	5.69	352.97
90.00	16 28 6	750.71	22.79	315.09	95.71	107.28	16 40 37	150.7	24.94	307.08
100.00	13 39 37	1310.73	-.62	344.67	85.39	119.89	14 1 28	710.7	3.36	338.15
100.00	18 13 43	5698.21	25.59	268.86	96.62	106.01	19 48 42	5098.2	27.53	260.60
110.00	14 2 43	1238.26	-6.07	335.80	82.01	123.70	14 23 21	638.3	-1.60	329.57
110.00	20 7 7	5343.45	31.79	243.76	98.47	103.28	21 36 10	4743.4	33.29	234.85

DIFFERENTIAL CORRECTIONS
TDE-3.5951 TRA 6.0420 TC3-1.2932 BAU .8731
RDE .5046 RRA .0258 RC3 -.0313 FAU .00726
FDE-1.1545 FRA 2.1205 FC3 -.1245 BSP 20889
BDE 3.6304 BRA 6.0421 BC3 1.2936 FSP -626

MID-COURSE EXECUTION ACCURACY
SGT 6392.6 SGR 410.0 SG3 182.9
RRT -.3716 RRF -.3773 RTF .9778
SGB 6405.8 R23 .0137 R13 -.9779
SG1 6394.5 SG2 380.5 THA 178.63

ORBIT DETERMINATION ACCURACY
ST 3320.4 SR 407.0 SS 989.4
CRT -.8647 CRS .8448 CST -.9992
LSA 3482.3 MSA 207.7 SSA 12.2
EL1 3339.1 EL2 203.3 ALF 173.93

LAUNCH DATE JUN 3 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 12 1967

HELIOCENTRIC CONIC DISTANCE 149.136

RL	151.74	LAL	-.00	LOL	251.75	VL	20.436	GAL	6.88	AZL	93.20	HCA	55.81	SMA	99.67	ECC	.53238	INC	3.1967	V1	29.361
RP	108.94	LAP	-2.64	LOP	307.52	VP	33.239	GAP	-31.77	AZP	91.80	TAL	173.88	TAP	229.48	RCA	46.61	APO	152.73	V2	34.784
RC	49.723	GL	-6.89	GP	.50	ZAL	76.55	ZAP	20.44	ETS	182.42	ZAE	161.64	ETE	148.83	ZAC	116.35	ETC	17.25	CLP	20.43

PLANETOCENTRIC CONIC

C3	88.956	VHL	9.432	DLA	-4.46	RAL	172.95	RAD	6569.7	VEL	14.502	PTH	2.63	VHP	18.691	DPA	15.67	RAP	151.47	ECC	2.4640

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 43 5	2440.93	-24.34	56.35	58.36	104.94	7 23 46	1840.9	-22.05	48.42
90.00	17 34 46	5361.95	27.77	244.81	62.39	84.23	19 4 8	4761.9	26.68	236.31
100.00	8 2 20	2185.28	-25.78	37.11	57.92	105.67	8 38 45	1585.3	-23.38	29.14
100.00	18 58 12	5092.83	29.26	224.84	62.21	83.59	20 23 5	4492.8	28.06	216.24
110.00	9 5 47	1986.65	-29.68	20.71	56.60	107.79	9 38 53	1386.7	-26.96	12.58
110.00	20 11 14	4864.22	33.30	206.88	61.60	81.77	21 32 18	4264.2	31.80	197.97

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.5054	TRA	-1.1939	TC3	-.0729	BAU	.1004	SGT	801.5	SGR	444.2	SG3	39.6	ST	376.7	SR	395.7	SS	343.9
RDE	-.6442	RRA	-.3187	RC3	.0426	FAU	.01586	RRT	.0282	RRF	-.0265	RTF	-.6400	CRT	-.7209	CRS	-.8358	CST	.9814
FDE	-.3181	FRA	.4871	FC3	-.1544	BSP	2093	SGB	916.3	R23	-.0004	R13	-.6400	LSA	609.4	MSA	212.6	SSA	14.1
BDE	.8188	BRA	1.2357	BC3	.0844	FSP	-84	SG1	801.6	SG2	444.0	THA	1.29	EL1	506.9	EL2	203.8	ALF	133.05

LAUNCH DATE JUN 3 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 14 1967

HELIOCENTRIC CONIC DISTANCE 155.444

RL	151.74	LAL	-.00	LOL	251.75	VL	20.973	GAL	6.58	AZL	93.22	HCA	58.97	SMA	101.36	ECC	.50693	INC	3.2181	V1	29.361
RP	108.94	LAP	-2.76	LOP	310.68	VP	33.571	GAP	-30.18	AZP	91.66	TAL	173.52	TAP	232.48	RCA	49.98	APO	152.74	V2	34.784
RC	48.377	GL	-7.55	GP	.52	ZAL	76.03	ZAP	18.86	ETS	182.51	ZAE	162.99	ETE	144.08	ZAC	114.82	ETC	16.94	CLP	18.86

PLANETOCENTRIC CONIC

C3	79.237	VHL	8.902	DLA	-5.28	RAL	173.19	RAD	6569.5	VEL	14.163	PTH	2.58	VHP	17.839	DPA	15.16	RAP	153.02	ECC	2.3040

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 50 15	2389.00	-23.38	52.84	56.43	106.44	7 30 4	1789.0	-20.91	45.05
90.00	17 29 30	5361.62	27.77	244.79	61.05	84.21	18 58 51	4761.6	26.68	236.29
100.00	8 9 6	2134.64	-24.81	33.67	55.96	107.24	8 44 40	1534.6	-22.21	25.83
100.00	18 53 20	5091.22	29.25	224.72	60.87	83.53	20 18 11	4491.2	28.04	216.12
110.00	9 11 38	1938.84	-28.64	17.38	54.53	109.51	9 43 57	1338.8	-25.71	9.43
110.00	20 7 17	4859.77	33.25	206.54	60.25	81.57	21 28 17	4259.8	31.73	197.64

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.5052	TRA	-1.1796	TC3	-.0686	BAU	.0892	SGT	837.9	SGR	448.1	SG3	43.4	ST	397.6	SR	398.1	SS	364.4
RDE	-.6117	RRA	-.3026	RC3	.0488	FAU	.01634	RRT	.0280	RRF	-.0268	RTF	-.6604	CRT	-.7241	CRS	-.8404	CST	.9808
FDE	-.3347	FRA	.5002	FC3	-.1785	BSP	2239	SGB	950.2	R23	-.0009	R13	-.6605	LSA	634.4	MSA	216.2	SSA	14.3
BDE	.7933	BRA	1.2178	BC3	.0842	FSP	-93	SG1	838.0	SG2	447.9	THA	1.20	EL1	522.4	EL2	208.9	ALF	134.95

LAUNCH DATE JUN 3 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 16 1967

HELIOCENTRIC CONIC DISTANCE 161.812

RL	151.74	LAL	-.00	LOL	251.75	VL	21.471	GAL	6.27	AZL	93.24	HCA	62.13	SMA	103.02	ECC	.48258	INC	3.2380	V1	29.361
RP	108.94	LAP	-2.86	LOP	313.84	VP	33.885	GAP	-28.68	AZP	91.51	TAL	173.19	TAP	235.32	RCA	53.31	APO	152.74	V2	34.784
RC	47.155	GL	-8.25	GP	.54	ZAL	75.60	ZAP	17.29	ETS	182.64	ZAE	164.34	ETE	138.20	ZAC	113.29	ETC	16.65	CLP	17.29

PLANETOCENTRIC CONIC

C3	70.650	VHL	8.405	DLA	-6.10	RAL	173.33	RAD	6569.4	VEL	13.856	PTH	2.53	VHP	17.021	DPA	14.64	RAP	154.58	ECC	2.1627

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 57 1	2336.52	-22.33	49.36	54.42	107.88	7 35 57	1736.5	-19.68	41.69
90.00	17 23 49	5360.69	27.76	244.72	59.55	84.18	18 53 10	4760.7	26.66	236.22
100.00	8 15 28	2083.45	-23.73	30.24	53.92	108.73	8 50 11	1483.4	-20.95	22.55
100.00	18 48 3	5089.00	29.23	224.56	59.37	83.44	20 12 52	4489.0	28.01	215.96
110.00	9 17 5	1890.52	-27.50	14.09	52.40	111.16	9 48 35	1290.5	-24.37	6.31
110.00	20 2 55	4854.69	33.20	206.15	58.75	81.35	21 23 50	4254.7	31.65	197.26

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.5055	TRA	-1.1644	TC3	-.0620	BAU	.0787	SGT	875.6	SGR	451.3	SG3	47.5	ST	419.6	SR	399.7	SS	386.1
RDE	-.5799	RRA	-.2867	RC3	.0557	FAU	.01687	RRT	.0277	RRF	-.0271	RTF	-.6801	CRT	-.7280	CRS	-.8452	CST	.9803
FDE	-.3523	FRA	.5131	FC3	-.2067	BSP	2390	SGB	985.1	R23	-.0014	R13	-.6801	LSA	660.8	MSA	219.0	SSA	14.6
BDE	.7693	BRA	1.1992	BC3	.0833	FSP	-104	SG1	875.8	SG2	451.1	THA	1.11	EL1	538.8	EL2	213.4	ALF	136.91

LAUNCH DATE JUN 3 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 18 1967

HELIOCENTRIC CONIC DISTANCE 168.233

RL	151.74	LAL	-.00	LOL	251.75	VL	21.934	GAL	5.95	AZL	93.26	HCA	65.29	SMA	104.65	ECC	.45934	INC	3.2569	V1	29.361
RP	108.94	LAP	-2.96	LOP	317.01	VP	34.181	GAP	-27.25	AZP	91.36	TAL	172.91	TAP	238.20	RCA	56.58	APO	152.73	V2	34.785
RC	46.068	GL	-8.98	GP	.57	ZAL	75.27	ZAP	15.73	ETS	182.81	ZAE	165.62	ETE	130.88	ZAC	111.75	ETC	16.38	CLP	15.72

PLANETOCENTRIC CONIC

C3	63.060	VHL	7.941	DLA	-6.91	RAL	173.36	RAD	6569.2	VEL	13.580	PTH	2.48	VHP	16.235	DPA	14.10	RAP	156.13	ECC	2.0378

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 3 23	2283.61	-21.18	45.90	52.34	109.24	7 41 26	1683.6	-18.36	38.36
90.00	17 17 42	5359.33	27.75	244.62	57.91	84.13	18 47 1	4759.3	26.65	236.13
100.00	8 21 25	2031.85	-22.56	26.86	51.81	110.15	8 55 17	1431.9	-19.61	19.30
100.00	18 42 21	5086.33	29.21	224.36	57.73	83.34	20 7 7	4486.3	27.98	215.77
110.00	9 22 7	1841.81	-26.26	10.84	50.22	112.72	9 52 49	1241.8	-22.95	3.25
110.00	19 58 8	4849.14	33.14	205.72	57.10	81.11	21 18 57	4249.1	31.56	196.86

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.5064	TRA	-1.1481	TC3	-.0523	BAU	.0693	SGT	914.7	SGR	453.7	SG3	52.0	ST	442.9	SR	400.5	SS	409.0
RDE	-.5490	RRA	-.2711	RC3	.0633	FAU	.01746	RRT	.0272	RRF	-.0272	RTF	-.6991	CRT	-.7326	CRS	-.8503	CST	.9798
FDE	-.3713	FRA	.5256	FC3	-.2396	BSP	2548	SGB	1021.0	R23	-.0020	R13	-.6991	LSA	689.0	MSA	221.1	SSA	14.8
BDE	.7469	BRA	1.1796	BC3	.0821	FSP	-117	SG1	914.8	SG2	453.5	THA	1.02	EL1	556.3	EL2	217.1	ALF	138.92

LAUNCH DATE JUN 3 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 20 1967

HELIOCENTRIC CONIC DISTANCE 174.704

```
RL  151.74 LAL   -.00 LOL 251.75 VL  22.364 GAL   5.62 AZL  93.27 HCA  68.45 SMA 106.25 ECC .43722 INC 3.2748 V1  29.361
RP  108.93 LAP  -3.05 LOP 320.17 VP  34.460 GAP -25.89 AZP  91.20 TAL 172.68 TAP 241.13 RCA  59.79 APO 152.70 V2  34.787
RC  45.125 GL   -9.75 GP     .59 ZAL  75.05 ZAP  14.17 ETS 183.05 ZAE 166.72 ETE 121.84 ZAC 110.20 ETC  16.11 CLP  14.16
```

PLANETOCENTRIC CONIC

```
C3  56.352 VHL  7.507 DLA  -7.72 RAL 173.28 RAD 6569.0 VEL 13.831 PTH   2.44 VHP 15.480 DPA  13.56 RAP 157.68 ECC 1.9274
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 9 21	2230.41	-19.95	42.49	50.20	110.52	7 46 31	1630.4	-16.98	35.07
90.00	17 11 8	5357.73	27.74	244.51	56.14	84.08	18 40 25	4757.7	26.63	236.01
100.00	8 26 58	1979.98	-21.31	23.52	49.64	111.48	8 59 58	1380.0	-18.20	16.10
100.00	18 36 12	5083.39	29.19	224.14	55.96	83.23	20 0 56	4483.4	27.94	215.56
110.00	9 26 44	1792.86	-24.93	7.66	47.99	114.18	9 56 37	1192.9	-21.45	.24
110.00	19 52 55	4843.27	33.08	205.28	55.32	80.85	21 13 38	4243.3	31.46	196.43

DIFFERENTIAL CORRECTIONS

```
TDE  .5079 TRA-1.1304 TC3 -.0393 BAU  .0617
RDE -.5190 RRA -.2557 RC3  .0718 FAU .01811
FDE -.3916 FRA  .5377 FC3 -.2782 BSP   2709
BDE  .7261 BRA 1.1590 BC3  .0818 FSP   -130
```

MID-COURSE EXECUTION ACCURACY

```
SGT  954.9 SGR  455.3 SG3   57.0
RRT  .0266 RRF -.0272 RTF -.7171
SGB 1057.9 R23 -.0025 R13 -.7172
SG1  955.0 SG2  455.1 THA    .94
```

ORBIT DETERMINATION ACCURACY

```
ST   467.4 SR   400.5 SS   433.2
CRT -.7378 CRS -.8557 CST  .9794
LSA  718.9 MSA  222.5 SSA   15.0
EL1  575.0 EL2  219.8 ALF 140.94
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 22 1967

HELIOCENTRIC CONIC DISTANCE 181.220

```
RL  151.74 LAL   -.00 LOL 251.75 VL  22.762 GAL   5.29 AZL  93.29 HCA  71.61 SMA 107.80 ECC .41621 INC 3.2919 V1  29.361
RP  108.93 LAP  -3.12 LOP 323.34 VP  34.723 GAP -24.59 AZP  91.04 TAL 172.49 TAP 244.10 RCA  62.93 APO 152.67 V2  34.790
RC  44.335 GL  -10.56 GP     .62 ZAL  74.94 ZAP  12.61 ETS 183.39 ZAE 167.52 ETE 110.99 ZAC 108.65 ETC  15.86 CLP  12.59
```

PLANETOCENTRIC CONIC

```
C3  50.425 VHL  7.101 DLA  -8.52 RAL 173.10 RAD 6568.9 VEL 13.107 PTH   2.39 VHP 14.753 DPA  13.01 RAP 159.22 ECC 1.8299
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 14 54	2177.07	-18.64	39.12	48.01	111.71	7 51 11	1577.1	-15.53	31.83
90.00	17 4 5	5356.05	27.73	244.38	54.25	84.02	18 33 21	4756.0	26.61	235.90
100.00	8 32 7	1928.00	-19.97	20.23	47.43	112.71	9 4 15	1328.0	-16.73	12.94
100.00	18 29 34	5080.35	29.16	223.92	54.07	83.12	19 54 14	4480.4	27.90	215.35
110.00	9 30 56	1743.85	-23.53	4.54	45.72	115.54	9 59 59	1143.8	-19.89	357.29
110.00	19 47 15	4837.27	33.01	204.82	53.42	80.59	21 7 52	4237.3	31.36	195.99

DIFFERENTIAL CORRECTIONS

```
TDE  .5079 TRA-1.1138 TC3 -.0238 BAU  .0569
RDE -.4899 RRA -.2407 RC3  .0810 FAU .01882
FDE -.4133 FRA  .5499 FC3 -.3231 BSP   2822
BDE  .7057 BRA 1.1395 BC3  .0844 FSP   -145
```

MID-COURSE EXECUTION ACCURACY

```
SGT  997.4 SGR  456.1 SG3   62.5
RRT  .0276 RRF -.0275 RTF -.7332
SGB 1096.8 R23 -.0019 R13 -.7332
SG1  997.5 SG2  455.9 THA    .92
```

ORBIT DETERMINATION ACCURACY

```
ST   492.2 SR   399.7 SS   458.7
CRT -.7419 CRS -.8610 CST  .9786
LSA  749.8 MSA  223.6 SSA   15.3
EL1  593.9 EL2  222.1 ALF 142.90
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 24 1967

HELIOCENTRIC CONIC DISTANCE 187.774

```
RL  151.74 LAL   -.00 LOL 251.75 VL  23.132 GAL   4.96 AZL  93.31 HCA  74.78 SMA 109.31 ECC .39630 INC 3.3084 V1  29.361
RP  108.92 LAP  -3.19 LOP 326.50 VP  34.969 GAP -23.35 AZP  90.87 TAL 172.35 TAP 247.13 RCA  65.99 APO 152.63 V2  34.793
RC  43.707 GL  -11.41 GP     .65 ZAL  74.93 ZAP  11.04 ETS 183.86 ZAE 167.88 ETE  98.67 ZAC 107.11 ETC  15.63 CLP  11.02
```

PLANETOCENTRIC CONIC

```
C3  45.189 VHL  6.722 DLA  -9.32 RAL 172.80 RAD 6568.7 VEL 12.906 PTH   2.35 VHP 14.055 DPA  12.46 RAP 160.75 ECC 1.7437
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 20 3	2123.77	-17.27	35.81	45.77	112.80	7 55 27	1523.8	-14.03	28.63
90.00	16 56 34	5354.48	27.72	244.27	52.24	83.96	18 25 48	4754.5	26.59	235.78
100.00	8 36 50	1876.08	-18.58	17.01	45.17	113.85	9 8 6	1276.1	-15.20	9.85
100.00	18 22 28	5077.40	29.14	223.71	52.06	83.00	19 47 6	4477.4	27.86	215.14
110.00	9 34 41	1694.94	-22.06	1.51	43.42	116.80	10 2 56	1094.9	-18.28	354.41
110.00	19 41 7	4831.31	32.95	204.37	51.41	80.33	21 1 38	4231.3	31.26	195.55

DIFFERENTIAL CORRECTIONS

```
TDE  .5105 TRA-1.0938 TC3 -.0026 BAU  .0551
RDE -.4618 RRA -.2261 RC3  .0911 FAU .01962
FDE -.4371 FRA  .5613 FC3 -.3758 BSP   2987
BDE  .6884 BRA 1.1169 BC3  .0912 FSP   -161
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1040.2 SGR  456.1 SG3   68.5
RRT  .0270 RRF -.0275 RTF -.7495
SGB 1135.8 R23 -.0025 R13 -.7495
SG1 1040.3 SG2  455.9 THA    .84
```

ORBIT DETERMINATION ACCURACY

```
ST   519.3 SR   397.9 SS   486.0
CRT -.7484 CRS -.8668 CST  .9783
LSA  783.6 MSA  223.4 SSA   15.5
EL1  615.1 EL2  222.8 ALF 144.90
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 84.00 ARRIVAL DATE AUG 26 1967

HELIOCENTRIC CONIC DISTANCE 194.364

```
RL  151.74 LAL   -.00 LOL 251.75 VL  23.475 GAL   4.64 AZL  93.32 HCA  77.94 SMA 110.77 ECC .37747 INC 3.3245 V1  29.361
RP  108.90 LAP  -3.25 LOP 329.67 VP  35.201 GAP -22.16 AZP  90.70 TAL 172.27 TAP 250.21 RCA  68.95 APO 152.58 V2  34.797
RC  43.245 GL  -12.30 GP     .68 ZAL  75.03 ZAP   9.47 ETS 184.54 ZAE 167.71 ETE  85.82 ZAC 105.57 ETC  15.41 CLP   9.44
```

PLANETOCENTRIC CONIC

```
C3  40.566 VHL  6.369 DLA -10.12 RAL 172.39 RAD 6568.6 VEL 12.725 PTH   2.31 VHP 13.383 DPA  11.90 RAP 162.27 ECC 1.6676
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 24 47	2070.67	-15.84	32.57	43.49	113.78	7 59 18	1470.7	-12.49	25.49
90.00	16 48 33	5353.18	27.71	244.18	50.13	83.91	18 17 46	4753.2	26.58	235.69
100.00	8 41 7	1824.40	-17.13	13.86	42.88	114.88	9 11 32	1224.4	-13.63	6.81
100.00	18 14 54	5074.69	29.11	223.51	49.95	82.90	19 39 28	4474.7	27.83	214.94
110.00	9 37 59	1646.32	-20.54	358.55	41.09	117.95	10 5 26	1046.3	-16.64	351.60
110.00	19 34 31	4825.54	32.88	203.93	49.29	80.08	20 54 56	4225.5	31.16	195.13

DIFFERENTIAL CORRECTIONS

```
TDE  .5138 TRA-1.0725 TC3  .0240 BAU  .0569
RDE -.4346 RRA -.2119 RC3  .1021 FAU .02051
FDE -.4632 FRA  .5724 FC3 -.4378 BSP   3151
BDE  .6730 BRA 1.0933 BC3  .1048 FSP   -180
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1084.0 SGR  455.3 SG3   75.2
RRT  .0264 RRF -.0275 RTF -.7652
SGB 1175.7 R23 -.0029 R13 -.7652
SG1 1084.1 SG2  455.1 THA    .77
```

ORBIT DETERMINATION ACCURACY

```
ST   547.8 SR   395.3 SS   515.2
CRT -.7557 CRS -.8728 CST  .9782
LSA  819.8 MSA  222.4 SSA   15.8
EL1  637.9 EL2  222.3 ALF 146.86
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 86.00 ARRIVAL DATE AUG 28 1967

HELIOCENTRIC CONIC DISTANCE 200.983

```
RL  151.74 LAL   -.00 LOL 251.75 VL  23.793 GAL   4.32 AZL  93.34 HCA  81.10 SMA 112.17 ECC .35972 INC 3.3401 VI  29.361
RP  108.89 LAP  -3.30 LOP 332.84 VP  35.418 GAP -21.02 AZP  90.52 TAL 172.23 TAP 253.34 RCA  71.82 APO 152.52 V2  34.801
RC  42.956 GL  -13.23 GP     .72 ZAL  75.24 ZAP   7.89 ETS 185.56 ZAE 166.98 ETE  73.64 ZAC 104.04 ETC  15.20 CLP   7.85
```

PLANETOCENTRIC CONIC

```
C3  36.487 VHL  6.040 DLA -10.90 RAL 171.86 RAD 6568.4 VEL 12.564 PTH   2.28 VHP 12.736 DPA  11.35 RAP 163.77 ECC 1.6005
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 29 6	2017.97	-14.36	29.40	41.18	114.67	8 2 44	1418.0	-10.92	22.42
90.00	16 40 2	5352.34	27.70	244.12	47.94	83.88	18 9 14	4752.3	26.57	235.63
100.00	8 44 59	1773.15	-15.63	10.78	40.56	115.81	9 14 32	1173.2	-12.03	3.84
100.00	18 6 50	5072.39	29.09	223.34	47.75	82.82	19 31 22	4472.4	27.79	214.78
110.00	9 40 51	1598.18	-18.97	355.69	38.75	118.98	10 7 29	998.2	-14.96	348.87
110.00	19 27 27	4820.13	32.82	203.52	47.09	79.84	20 47 47	4220.1	31.07	194.74

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .5181 TRA-1.0497 TC3  .0565 BAU  .0620   SGT 1128.9 SGR  453.6 SG3   82.7     ST   578.0 SR   391.7 SS   546.4
 RDE -.4085 RRA -.1982 RC3  .1138 FAU .02151   RRT  .0256 RRF -.0274 RTF -.7802     CRT -.7638 CRS -.8791 CST  .9781
 FDE -.4919 FRA  .5831 FC3 -.5104 BSP   3327   SGB 1216.6 R23 -.0036 R13 -.7802     LSA  858.6 MSA  220.6 SSA   16.0
 BDE  .6598 BRA 1.0683 BC3  .1271 FSP   -201   SG1 1129.0 SG2  453.4 THA    .70     EL1  662.5 EL2  220.6 ALF 148.79
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 88.00 ARRIVAL DATE AUG 30 1967

HELIOCENTRIC CONIC DISTANCE 207.628

```
RL  151.74 LAL   -.00 LOL 251.75 VL  24.087 GAL   4.01 AZL  93.36 HCA  84.27 SMA 113.53 ECC .34300 INC 3.3555 VI  29.361
RP  108.87 LAP  -3.34 LOP 336.01 VP  35.622 GAP -19.93 AZP  90.34 TAL 172.25 TAP 256.52 RCA  74.59 APO 152.46 V2  34.806
RC  42.841 GL  -14.20 GP     .76 ZAL  75.57 ZAP   6.29 ETS 187.19 ZAE 165.79 ETE  62.98 ZAC 102.52 ETC  15.00 CLP   6.25
```

PLANETOCENTRIC CONIC

```
C3  32.893 VHL  5.735 DLA -11.68 RAL 171.22 RAD 6568.3 VEL 12.420 PTH   2.24 VHP 12.114 DPA  10.79 RAP 165.26 ECC 1.5413
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 32 59	1965.87	-12.86	26.31	38.85	115.45	8 5 44	1365.9	-9.33	19.41
90.00	16 31 1	5352.08	27.70	244.10	45.66	83.88	18 0 13	4752.1	26.56	235.62
100.00	8 48 24	1722.53	-14.11	7.80	38.22	116.63	9 17 6	1122.5	-10.42	.95
100.00	17 58 17	5070.66	29.08	223.21	45.47	82.75	19 22 48	4470.7	27.77	214.66
110.00	9 43 15	1550.73	-17.39	352.93	36.39	119.91	10 9 6	950.7	-13.28	346.23
110.00	19 19 55	4815.22	32.76	203.15	44.81	79.63	20 40 10	4215.2	30.98	194.38

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .5230 TRA-1.0257 TC3  .0952 BAU  .0696   SGT 1174.7 SGR  451.0 SG3   90.9     ST   609.6 SR   387.2 SS   579.7
 RDE -.3834 RRA -.1850 RC3  .1264 FAU .02262   RRT  .0249 RRF -.0274 RTF -.7942     CRT -.7726 CRS -.8854 CST  .9782
 FDE -.5234 FRA  .5933 FC3 -.5954 BSP   3498   SGB 1258.3 R23 -.0042 R13 -.7942     LSA  899.9 MSA  218.0 SSA   16.2
 BDE  .6485 BRA 1.0422 BC3  .1583 FSP   -224   SG1 1174.7 SG2  450.8 THA    .64     EL1  688.6 EL2  217.7 ALF 150.64
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 1 1967

HELIOCENTRIC CONIC DISTANCE 214.295

```
RL  151.74 LAL   -.00 LOL 251.75 VL  24.360 GAL   3.70 AZL  93.37 HCA  87.43 SMA 114.82 ECC .32730 INC 3.3707 VI  29.361
RP  108.86 LAP  -3.37 LOP 339.18 VP  35.812 GAP -18.88 AZP  90.15 TAL 172.32 TAP 259.76 RCA  77.24 APO 152.40 V2  34.812
RC  42.900 GL  -15.20 GP     .81 ZAL  76.00 ZAP   4.69 ETS 190.07 ZAE 164.25 ETE  54.16 ZAC 101.02 ETC  14.82 CLP   4.62
```

PLANETOCENTRIC CONIC

```
C3  29.728 VHL  5.452 DLA -12.45 RAL 170.46 RAD 6568.2 VEL 12.292 PTH   2.21 VHP 11.515 DPA  10.25 RAP 166.72 ECC 1.4893
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 36 26	1914.56	-11.34	23.31	36.50	116.12	8 8 20	1314.6	-7.74	16.48
90.00	16 21 32	5352.55	27.70	244.13	43.31	83.89	17 50 44	4752.5	26.57	235.65
100.00	8 51 23	1672.75	-12.57	4.90	35.86	117.35	9 19 15	1072.7	-8.81	358.13
100.00	17 49 16	5069.59	29.07	223.14	43.13	82.71	19 13 45	4469.6	27.76	214.58
110.00	9 45 12	1504.17	-15.79	350.27	34.02	120.72	10 10 16	904.2	-11.59	343.67
110.00	19 11 56	4810.93	32.70	202.83	42.47	79.45	20 32 6	4210.9	30.90	194.07

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .5288 TRA-1.0002 TC3  .1413 BAU  .0790   SGT 1221.1 SGR  447.5 SG3  100.0     ST   642.7 SR   381.8 SS   615.6
 RDE -.3594 RRA -.1724 RC3  .1397 FAU .02387   RRT  .0243 RRF -.0274 RTF -.8074     CRT -.7820 CRS -.8920 CST  .9784
 FDE -.5585 FRA  .6030 FC3 -.6952 BSP   3673   SGB 1300.5 R23 -.0048 R13 -.8075     LSA  944.2 MSA  214.8 SSA   16.5
 BDE  .6394 BRA 1.0149 BC3  .1987 FSP   -251   SG1 1221.2 SG2  447.4 THA    .59     EL1  716.5 EL2  213.5 ALF 152.43
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 3 1967

HELIOCENTRIC CONIC DISTANCE 220.979

```
RL  151.74 LAL   -.00 LOL 251.75 VL  24.611 GAL   3.41 AZL  93.39 HCA  90.60 SMA 116.06 ECC .31260 INC 3.3859 VI  29.361
RP  108.84 LAP  -3.39 LOP 342.35 VP  35.990 GAP -17.87 AZP  89.96 TAL 172.45 TAP 263.05 RCA  79.78 APO 152.34 V2  34.819
RC  43.133 GL  -16.23 GP     .86 ZAL  76.54 ZAP   3.09 ETS 196.23 ZAE 162.48 ETE  47.05 ZAC  99.54 ETC  14.64 CLP   2.97
```

PLANETOCENTRIC CONIC

```
C3  26.946 VHL  5.191 DLA -13.20 RAL 169.59 RAD 6568.1 VEL 12.179 PTH   2.19 VHP 10.939 DPA   9.71 RAP 168.16 ECC 1.4435
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 39 26	1864.25	-9.82	20.40	34.13	116.69	8 10 31	1264.3	-6.16	13.63
90.00	16 11 34	5353.82	27.71	244.22	40.92	83.94	17 40 48	4753.8	26.58	235.74
100.00	8 53 54	1624.00	-11.03	2.10	33.49	117.96	9 20 58	1024.0	-7.20	355.40
100.00	17 39 47	5069.31	29.07	223.12	40.73	82.70	19 4 17	4469.3	27.75	214.56
110.00	9 46 41	1458.71	-14.19	347.72	31.65	121.43	10 11 0	858.7	-9.92	341.21
110.00	19 3 30	4807.36	32.66	202.56	40.07	79.29	20 23 38	4207.4	30.84	193.82

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .5354 TRA -.9734 TC3  .1950 BAU  .0894   SGT 1268.2 SGR  443.2 SG3  110.2     ST   677.4 SR   375.4 SS   654.1
 RDE -.3365 RRA -.1603 RC3  .1536 FAU .02527   RRT  .0239 RRF -.0279 RTF -.8200     CRT -.7920 CRS -.8985 CST  .9788
 FDE -.5975 FRA  .6124 FC3 -.8119 BSP   3843   SGB 1343.4 R23 -.0056 R13 -.8200     LSA  991.4 MSA  210.8 SSA   16.7
 BDE  .6324 BRA  .9866 BC3  .2482 FSP   -280   SG1 1268.2 SG2  443.1 THA    .54     EL1  746.0 EL2  208.2 ALF 154.14
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 5 1967

HELIOCENTRIC CONIC DISTANCE 227.677

RL	151.74	LAL	-.00	LOL	251.75	VL	24.844	GAL	3.12	AZL	93.40	HCA	93.77	SMA	117.24	ECC	.29885	INC	3.4011
RP	108.81	LAP	-3.39	LOP	345.53	VP	36.157	GAP	-16.91	AZP	89.78	TAL	172.63	TAP	266.39	RCA	82.20	APO	152.28
RC	43.534	GL	-17.30	GP	.92	ZAL	77.18	ZAP	1.58	ETS	215.55	ZAE	160.60	ETE	41.36	ZAC	98.09	ETC	14.48

V1	29.361	V2	34.826	CLP	1.28														

PLANETOCENTRIC CONIC

C3	24.504	VHL	4.950	DLA	-13.94	RAL	168.61	RAD	6568.0	VEL	12.078	PTH	2.16	VHP	10.385	DPA	9.18	RAP	169.56
ECC	1.4033																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 42 1	1815.14	-8.30	17.59	31.76	117.17	8 12 16	1215.1	-4.60	10.87
90.00	16 1 11	5355.98	27.73	244.38	38.48	84.01	17 30 27	4756.0	26.61	235.89
100.00	8 55 59	1576.49	-9.50	359.40	31.12	118.48	9 22 16	976.5	-5.62	352.76
100.00	17 29 54	5069.87	29.07	223.16	38.30	82.72	18 54 24	4469.9	27.76	214.60
110.00	9 47 42	1414.53	-12.61	345.27	29.27	122.04	10 11 16	814.5	-8.28	338.84
110.00	18 54 41	4804.58	32.62	202.35	37.64	79.17	20 14 45	4204.6	30.79	193.61

DIFFERENTIAL CORRECTIONS

TDE	.5426	TRA	-.9456	TC3	.2558	BAU	.1003
RDE	-.3146	RRA	-.1489	RC3	.1681	FAU	.02683
FDE	-.6408	FRA	.6211	FC3	-.9479	BSP	4017
BDE	.6272	BRA	.9572	BC3	.3061	FSP	-313

MID-COURSE EXECUTION ACCURACY

SGT	1315.4	SGR	438.0	SG3	121.6		
RRT	.0237	RRF	-.0285	RTF	-.8315		
SGB	1386.4	R23	-.0063	R13	-.8315		
SG1	1315.4	SG2	437.8	THA	.51		

ORBIT DETERMINATION ACCURACY

ST	713.4	SR	368.1	SS	695.2		
CRT	-.8022	CRS	-.9051	CST	.9791		
LSA	1041.5	MSA	206.5	SSA	16.9		
EL1	777.0	EL2	201.8	ALF	155.78		

LAUNCH DATE JUN 3 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 7 1967

HELIOCENTRIC CONIC DISTANCE 234.384

RL	151.74	LAL	-.00	LOL	251.75	VL	25.059	GAL	2.85	AZL	93.42	HCA	96.94	SMA	118.36	ECC	.28604	INC	3.4164
RP	108.79	LAP	-3.39	LOP	348.70	VP	36.312	GAP	-15.98	AZP	89.59	TAL	172.85	TAP	269.79	RCA	84.50	APO	152.21
RC	44.099	GL	-18.38	GP	.98	ZAL	77.91	ZAP	1.07	ETS	293.93	ZAE	158.69	ETE	36.78	ZAC	96.67	ETC	14.33

V1	29.361	V2	34.834	CLP	-.44														

PLANETOCENTRIC CONIC

C3	22.363	VHL	4.729	DLA	-14.66	RAL	167.53	RAD	6567.9	VEL	11.989	PTH	2.14	VHP	9.852	DPA	8.66	RAP	170.94
ECC	1.3680																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 44 10	1767.44	-6.81	14.88	29.39	117.55	8 13 37	1167.4	-3.07	8.20
90.00	15 50 24	5359.05	27.75	244.60	36.01	84.12	17 19 43	4759.1	26.65	236.11
100.00	8 57 37	1530.42	-7.99	356.81	28.75	118.90	9 23 8	930.4	-4.08	350.21
100.00	17 19 37	5071.30	29.08	223.26	35.83	82.78	18 44 8	4471.3	27.78	214.70
110.00	9 48 15	1371.84	-11.05	342.94	26.90	122.55	10 11 7	771.8	-6.68	336.58
110.00	18 45 29	4802.64	32.60	202.21	35.18	79.09	20 5 32	4202.6	30.75	193.47

DIFFERENTIAL CORRECTIONS

TDE	.5439	TRA	-.9177	TC3	.3114	BAU	.1080
RDE	-.2938	RRA	-.1380	RC3	.1830	FAU	.02859
FDE	-.6895	FRA	.6293	FC3	-1.1068	BSP	4150
BDE	.6181	BRA	.9281	BC3	.3612	FSP	-350

MID-COURSE EXECUTION ACCURACY

SGT	1357.2	SGR	431.9	SG3	134.3		
RRT	.0257	RRF	-.0298	RTF	-.8367		
SGB	1424.3	R23	-.0059	R13	-.8367		
SG1	1357.3	SG2	431.7	THA	.52		

ORBIT DETERMINATION ACCURACY

ST	743.8	SR	359.7	SS	739.5		
CRT	-.8096	CRS	-.9117	CST	.9785		
LSA	1089.9	MSA	203.3	SSA	17.2		
EL1	802.7	EL2	195.6	ALF	157.18		

LAUNCH DATE JUN 3 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 9 1967

HELIOCENTRIC CONIC DISTANCE 241.098

RL	151.74	LAL	-.00	LOL	251.75	VL	25.256	GAL	2.58	AZL	93.43	HCA	100.11	SMA	119.42	ECC	.27412	INC	3.4319
RP	108.76	LAP	-3.38	LOP	351.88	VP	36.457	GAP	-15.08	AZP	89.40	TAL	173.12	TAP	273.23	RCA	86.68	APO	152.15
RC	44.820	GL	-19.49	GP	1.05	ZAL	78.74	ZAP	2.44	ETS	334.27	ZAE	156.82	ETE	33.08	ZAC	95.29	ETC	14.20

V1	29.361	V2	34.842	CLP	-2.20														

PLANETOCENTRIC CONIC

C3	20.491	VHL	4.527	DLA	-15.37	RAL	166.35	RAD	6567.8	VEL	11.911	PTH	2.12	VHP	9.340	DPA	8.17	RAP	172.27
ECC	1.3372																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 45 53	1721.32	-5.35	12.28	27.02	117.85	8 14 34	1121.3	-1.58	5.62
90.00	15 39 16	5363.05	27.78	244.89	33.52	84.27	17 8 39	4763.1	26.69	236.39
100.00	8 58 49	1485.97	-6.52	354.33	26.38	119.24	9 23 35	886.0	-2.58	347.77
100.00	17 9 1	5073.63	29.10	223.43	33.35	82.86	18 33 34	4473.6	27.81	214.87
110.00	9 48 21	1330.81	-9.54	340.73	24.54	122.98	10 10 32	730.8	-5.13	334.41
110.00	18 35 57	4801.56	32.58	202.13	32.71	79.04	19 55 59	4201.6	30.73	193.40

DIFFERENTIAL CORRECTIONS

TDE	.5591	TRA	-.8854	TC3	.4024	BAU	.1228
RDE	-.2740	RRA	-.1278	RC3	.1979	FAU	.03056
FDE	-.7441	FRA	.6370	FC3	-1.2913	BSP	4366
BDE	.6227	BRA	.8946	BC3	.4484	FSP	-392

MID-COURSE EXECUTION ACCURACY

SGT	1408.7	SGR	424.9	SG3	148.5		
RRT	.0246	RRF	-.0315	RTF	-.8528		
SGB	1471.4	R23	-.0084	R13	-.8528		
SG1	1408.7	SG2	424.7	THA	.47		

ORBIT DETERMINATION ACCURACY

ST	789.0	SR	350.5	SS	787.0		
CRT	-.8239	CRS	-.9181	CST	.9803		
LSA	1151.5	MSA	196.4	SSA	17.2		
EL1	843.1	EL2	185.9	ALF	158.82		

LAUNCH DATE JUN 3 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 11 1967

HELIOCENTRIC CONIC DISTANCE 247.815

RL	151.74	LAL	-.00	LOL	251.75	VL	25.438	GAL	2.33	AZL	93.45	HCA	103.28	SMA	120.42	ECC	.26306	INC	3.4477
RP	108.74	LAP	-3.36	LOP	355.06	VP	36.591	GAP	-14.22	AZP	89.21	TAL	173.44	TAP	276.72	RCA	88.74	APO	152.10
RC	45.690	GL	-20.61	GP	1.13	ZAL	79.65	ZAP	4.17	ETS	344.00	ZAE	155.04	ETE	30.05	ZAC	93.95	ETC	14.07

V1	29.361	V2	34.851	CLP	-4.01														

PLANETOCENTRIC CONIC

C3	18.857	VHL	4.342	DLA	-16.04	RAL	165.08	RAD	6567.8	VEL	11.842	PTH	2.10	VHP	8.848	DPA	7.70	RAP	173.56
ECC	1.3103																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 47 11	1676.98	-3.94	9.79	24.67	118.06	8 15 8	1077.0	-.15	3.15
90.00	15 27 52	5367.95	27.81	245.25	31.04	84.44	16 57 19	4767.9	26.75	236.74
100.00	8 59 35	1443.33	-5.10	351.97	24.03	119.49	9 23 39	843.3	-1.13	345.43
100.00	16 58 8	5076.83	29.13	223.67	30.87	82.98	18 22 45	4476.8	27.85	215.10
110.00	9 48 1	1291.61	-8.08	338.63	22.20	123.33	10 9 33	691.6	-3.64	332.35
110.00	18 26 11	4801.31	32.58	202.11	30.24	79.03	19 46 13	4201.3	30.73	193.38

DIFFERENTIAL CORRECTIONS

TDE	.5682	TRA	-.8540	TC3	.4874	BAU	.1341
RDE	-.2552	RRA	-.1181	RC3	.2129	FAU	.03279
FDE	-.8056	FRA	.6440	FC3	-1.5055	BSP	4531
BDE	.6229	BRA	.8622	BC3	.5319	FSP	-439

MID-COURSE EXECUTION ACCURACY

SGT	1454.7	SGR	417.0	SG3	164.4		
RRT	.0263	RRF	-.0343	RTF	-.8624		
SGB	1513.3	R23	-.0095	R13	-.8624		
SG1	1454.7	SG2	416.8	THA	.47		

ORBIT DETERMINATION ACCURACY

ST	828.2	SR	340.3	SS	838.2		
CRT	-.8348	CRS	-.9243	CST	.9810		
LSA	1211.3	MSA	191.1	SSA	17.4		
EL1	877.8	EL2	176.8	ALF	160.23		

LAUNCH DATE JUN 3 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 13 1967

HELIOCENTRIC CONIC DISTANCE 254.533

```
RL  151.74 LAL   -.00 LOL 251.75 VL  25.606 GAL   2.09 AZL  93.46 HCA 106.46 SMA 121.36 ECC .25283 INC 3.4640 VI  29.361
RP  108.71 LAP  -3.32 LOP 358.24 VP  36.717 GAP -13.39 AZP  89.02 TAL 173.80 TAP 280.26 RCA  90.67 APO 152.04 V2  34.860
RC  46.700 GL  -21.73 GP    1.22 ZAL  80.63 ZAP   6.01 ETS 347.96 ZAE 153.40 ETE  27.56 ZAC  92.67 ETC  13.95 CLP  -5.88
```

PLANETOCENTRIC CONIC

```
C3  17.433 VHL  4.175 DLA -16.70 RAL 163.74 RAD 6567.7 VEL 11.782 PTH   2.08 VHP  8.376 DPA   7.26 RAP 174.80 ECC 1.2869
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 48 4	1634.57	-2.57	7.41	22.35	118.21	8 15 19	1034.6	1.22	.78
90.00	15 16 15	5373.70	27.85	245.66	28.57	84.65	16 45 48	4773.7	26.81	237.15
100.00	8 59 57	1402.65	-3.73	349.72	21.70	119.68	9 23 19	802.7	.25	343.19
100.00	16 47 3	5080.84	29.16	223.96	28.41	83.13	18 11 44	4480.8	27.91	215.38
110.00	9 47 16	1254.38	-6.68	336.65	19.88	123.60	10 8 11	654.4	-2.22	330.41
110.00	18 16 13	4801.88	32.59	202.15	27.78	79.06	19 36 15	4201.9	30.74	193.42

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .5775 TRA -.8215 TC3  .5785 BAU  .1449   SGT 1498.8 SGR  408.2 SG3  182.3     ST   867.7 SR   329.1 SS   892.8
RDE -.2373 RRA -.1091 RC3  .2277 FAU .03530   RRT  .0291 RRF -.0382 RTF -.8711     CRT -.8455 CRS -.9304 CST  .9817
FDE -.8751 FRA  .6502 FC3-1.7529 BSP  4691    SGB 1553.4 R23 -.0108 R13 -.8711     LSA 1274.1 MSA  185.8 SSA   17.4
BDE  .6243 BRA  .8287 BC3  .6217 FSP  -492    SG1 1498.9 SG2  408.1 THA    .49     EL1  912.8 EL2  167.0 ALF 161.58
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 15 1967

HELIOCENTRIC CONIC DISTANCE 261.248

```
RL  151.74 LAL   -.00 LOL 251.75 VL  25.759 GAL   1.86 AZL  93.48 HCA 109.63 SMA 122.24 ECC .24340 INC 3.4808 VI  29.361
RP  108.68 LAP  -3.28 LOP   1.42 VP  36.833 GAP -12.59 AZP  88.83 TAL 174.19 TAP 283.82 RCA  92.49 APO 151.99 V2  34.870
RC  47.841 GL  -22.86 GP    1.32 ZAL  81.67 ZAP   7.93 ETS 350.03 ZAE 151.91 ETE  25.51 ZAC  91.44 ETC  13.84 CLP  -7.82
```

PLANETOCENTRIC CONIC

```
C3  16.196 VHL  4.024 DLA -17.32 RAL 162.33 RAD 6567.6 VEL 11.729 PTH   2.07 VHP  7.922 DPA   6.85 RAP 175.99 ECC 1.2666
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 48 35	1594.23	-1.27	5.16	20.05	118.29	8 15 9	994.2	2.52	358.53
90.00	15 4 30	5380.22	27.89	246.13	26.13	84.88	16 34 11	4780.2	26.89	237.61
100.00	8 59 55	1364.06	-2.43	347.60	19.41	119.80	9 22 39	764.1	1.56	341.08
100.00	16 35 52	5085.63	29.20	224.31	25.97	83.32	18 0 37	4485.6	27.97	215.72
110.00	9 46 9	1219.23	-5.35	334.80	17.59	123.81	10 6 28	619.2	-.88	328.57
110.00	18 6 7	4803.22	32.61	202.25	25.36	79.12	19 26 11	4203.2	30.76	193.52

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .5865 TRA -.7884 TC3  .6738 BAU  .1550   SGT 1540.7 SGR  398.6 SG3  202.4     ST   906.6 SR   316.8 SS   951.3
RDE -.2202 RRA -.1008 RC3  .2422 FAU .03812   RRT  .0335 RRF -.0438 RTF -.8789     CRT -.8558 CRS -.9360 CST  .9824
FDE -.9536 FRA  .6556 FC3-2.0378 BSP  4843    SGB 1591.4 R23 -.0123 R13 -.8790     LSA 1339.5 MSA  180.8 SSA   17.4
BDE  .6265 BRA  .7948 BC3  .7160 FSP  -553    SG1 1540.8 SG2  398.4 THA    .53     EL1  947.5 EL2  156.8 ALF 162.86
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 17 1967

HELIOCENTRIC CONIC DISTANCE 267.958

```
RL  151.74 LAL   -.00 LOL 251.75 VL  25.899 GAL   1.65 AZL  93.50 HCA 112.81 SMA 123.06 ECC .23473 INC 3.4983 VI  29.361
RP  108.64 LAP  -3.22 LOP   4.60 VP  36.941 GAP -11.82 AZP  88.64 TAL 174.62 TAP 287.42 RCA  94.18 APO 151.95 V2  34.881
RC  49.103 GL  -23.97 GP    1.44 ZAL  82.76 ZAP   9.93 ETS 351.26 ZAE 150.62 ETE  23.80 ZAC  90.28 ETC  13.74 CLP  -9.83
```

PLANETOCENTRIC CONIC

```
C3  15.125 VHL  3.889 DLA -17.91 RAL 160.87 RAD 6567.6 VEL 11.684 PTH   2.05 VHP  7.487 DPA   6.48 RAP 177.11 ECC 1.2489
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 48 45	1556.06	-.04	3.03	17.81	118.32	8 14 41	956.1	3.74	356.40
90.00	14 52 44	5387.45	27.93	246.66	23.73	85.14	16 22 31	4787.5	26.96	238.13
100.00	8 59 32	1327.65	-1.20	345.60	17.17	119.87	9 21 40	727.7	2.79	339.08
100.00	16 24 38	5091.10	29.25	224.71	23.58	83.52	17 49 29	4491.1	28.04	216.11
110.00	9 44 40	1186.25	-4.10	333.06	15.35	123.97	10 4 26	586.3	.38	326.85
110.00	17 55 59	4805.26	32.63	202.40	22.98	79.20	19 16 4	4205.3	30.80	193.66

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .5980 TRA -.7524 TC3  .7782 BAU  .1657   SGT 1581.0 SGR  388.2 SG3  225.3     ST   948.0 SR   303.6 SS  1015.2
RDE -.2039 RRA -.0930 RC3  .2562 FAU .04138   RRT  .0387 RRF -.0514 RTF -.8874     CRT -.8669 CRS -.9415 CST  .9835
FDE-1.0441 FRA  .6590 FC3-2.3684 BSP  5027    SGB 1628.0 R23 -.0149 R13 -.8875     LSA 1410.8 MSA  175.1 SSA   17.4
BDE  .6318 BRA  .7581 BC3  .8193 FSP  -623    SG1 1581.1 SG2  387.9 THA    .58     EL1  984.7 EL2  145.7 ALF 164.13
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 19 1967

HELIOCENTRIC CONIC DISTANCE 274.662

```
RL  151.74 LAL   -.00 LOL 251.75 VL  26.028 GAL   1.44 AZL  93.52 HCA 115.99 SMA 123.83 ECC .22678 INC 3.5167 VI  29.361
RP  108.61 LAP  -3.16 LOP   7.78 VP  37.042 GAP -11.07 AZP  88.46 TAL 175.06 TAP 291.05 RCA  95.74 APO 151.91 V2  34.891
RC  50.476 GL  -25.06 GP    1.57 ZAL  83.87 ZAP  12.03 ETS 352.05 ZAE 149.52 ETE  22.40 ZAC  89.20 ETC  13.65 CLP -11.93
```

PLANETOCENTRIC CONIC

```
C3  14.200 VHL  3.768 DLA -18.47 RAL 159.39 RAD 6567.6 VEL 11.644 PTH   2.04 VHP  7.071 DPA   6.16 RAP 178.16 ECC 1.2337
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 48 37	1520.13	1.12	1.03	15.62	118.30	8 13 57	920.1	4.89	354.38
90.00	14 41 0	5395.32	27.97	247.23	21.39	85.42	16 10 55	4795.3	27.05	238.69
100.00	8 58 51	1293.48	-.04	343.73	14.98	119.89	9 20 25	693.5	3.94	337.20
100.00	16 13 27	5097.20	29.29	225.16	21.25	83.75	17 38 24	4497.2	28.12	216.55
110.00	9 42 54	1155.47	-2.93	331.45	13.17	124.07	10 2 10	555.5	1.56	325.25
110.00	17 45 53	4807.97	32.67	202.61	20.66	79.32	19 6 1	4208.0	30.85	193.86

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .6062 TRA -.7181 TC3  .8787 BAU  .1745   SGT 1616.5 SGR  377.0 SG3  250.9     ST   984.4 SR   289.2 SS  1081.9
RDE -.1882 RRA -.0859 RC3  .2697 FAU .04500   RRT  .0483 RRF -.0626 RTF -.8939     CRT -.8759 CRS -.9463 CST  .9842
FDE-1.1450 FRA  .6627 FC3-2.7437 BSP  5162    SGB 1659.9 R23 -.0170 R13 -.8940     LSA 1481.1 MSA  170.8 SSA   17.2
BDE  .6347 BRA  .7232 BC3  .9192 FSP  -702    SG1 1616.6 SG2  376.6 THA    .68     EL1 1017.1 EL2  135.0 ALF 165.31
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 21 1967

DISTANCE 281.356

HELIOCENTRIC CONIC
RL 151.74 LAL -.00 LOL 251.75 VL 26.145 GAL 1.26 AZL 93.54 HCA 119.17 SMA 124.53 ECC .21951 INC 3.5360 V1 29.361
RP 108.58 LAP -3.09 LOP 10.97 VP 37.134 GAP -10.35 AZP 88.27 TAL 175.53 TAP 294.70 RCA 97.20 APO 151.87 V2 34.903
RC 51.950 GL -26.12 GP 1.72 ZAL 85.00 ZAP 14.23 ETS 352.58 ZAE 148.66 ETE 21.26 ZAC 88.21 ETC 13.57 CLP -14.12

PLANETOCENTRIC CONIC
C3 13.405 VHL 3.661 DLA -19.00 RAL 157.88 RAD 6567.5 VEL 11.610 PTH 2.03 VHP 6.672 DPA 5.90 RAP 179.12 ECC 1.2206

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 48 15	1486.44	2.21	359.15	13.51	118.24	8 13 1	886.4	5.96	352.48
90.00	14 29 23	5403.77	28.02	247.84	19.13	85.73	15 59 27	4803.8	27.13	239.29
100.00	8 57 56	1261.56	1.05	341.97	12.86	119.88	9 18 57	661.6	5.01	335.43
100.00	16 2 23	5103.87	29.34	225.65	18.99	84.01	17 27 27	4503.9	28.20	217.03
110.00	9 40 54	1126.90	-1.84	329.96	11.06	124.14	9 59 41	526.9	2.65	323.76
110.00	17 35 54	4811.30	32.71	202.86	18.42	79.46	18 56 5	4211.3	30.91	194.10

DIFFERENTIAL CORRECTIONS
TDE .6140 TRA -.6832 TC3 .9772 BAU .1823
RDE -.1729 RRA -.0793 RC3 .2828 FAU .04910
FDE-1.2604 FRA .6649 FC3-3.1712 BSP 5277
BDE .6378 BRA .6878 BC3 1.0173 FSP -791

MID-COURSE EXECUTION ACCURACY
SGT 1647.3 SGR 365.1 SG3 279.9
RRT .0611 RRF -.0776 RTF -.8997
SGB 1687.3 R23 -.0199 R13 -.8998
SG1 1647.5 SG2 364.4 THA .82

ORBIT DETERMINATION ACCURACY
ST 1019.1 SR 273.5 SS 1153.6
CRT -.8842 CRS -.9586 CST .9849
LSA 1554.4 MSA 166.9 SSA 17.0
EL1 1047.8 EL2 124.2 ALF 166.46

LAUNCH DATE JUN 3 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 23 1967

DISTANCE 288.040

HELIOCENTRIC CONIC
RL 151.74 LAL -.00 LOL 251.75 VL 26.251 GAL 1.08 AZL 93.56 HCA 122.35 SMA 125.19 ECC .21290 INC 3.5566 V1 29.361
RP 108.54 LAP -3.00 LOP 14.15 VP 37.220 GAP -9.66 AZP 88.09 TAL 176.00 TAP 298.35 RCA 98.54 APO 151.84 V2 34.914
RC 53.515 GL -27.16 GP 1.89 ZAL 86.13 ZAP 16.54 ETS 352.94 ZAE 148.02 ETE 20.36 ZAC 87.32 ETC 13.49 CLP -16.43

PLANETOCENTRIC CONIC
C3 12.724 VHL 3.567 DLA -19.50 RAL 156.38 RAD 6567.5 VEL 11.581 PTH 2.03 VHP 6.292 DPA 5.70 RAP 180.00 ECC 1.2094

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 47 42	1454.94	3.22	357.39	11.48	118.15	8 11 56	854.9	6.96	350.70
90.00	14 17 58	5412.76	28.06	248.50	16.96	86.05	15 48 11	4812.8	27.22	239.93
100.00	8 56 50	1231.84	2.05	340.34	10.83	119.83	9 17 21	631.8	6.01	333.79
100.00	15 51 31	5111.09	29.39	226.18	16.83	84.28	17 16 42	4511.1	28.29	217.55
110.00	9 38 45	1100.47	-.83	328.58	9.03	124.17	9 57 5	500.5	3.66	322.37
110.00	17 26 5	4815.22	32.76	203.15	16.28	79.63	18 46 21	4215.2	30.98	194.38

DIFFERENTIAL CORRECTIONS
TDE .6198 TRA -.6493 TC3 1.0695 BAU .1888
RDE -.1579 RRA -.0734 RC3 .2956 FAU .05373
FDE-1.3913 FRA .6676 FC3-3.6555 BSP 5355
BDE .6396 BRA .6534 BC3 1.1096 FSP -891

MID-COURSE EXECUTION ACCURACY
SGT 1672.5 SGR 352.7 SG3 312.6
RRT .0794 RRF -.0984 RTF -.9045
SGB 1709.3 R23 -.0234 R13 -.9046
SG1 1672.8 SG2 351.5 THA 1.00

ORBIT DETERMINATION ACCURACY
ST 1049.7 SR 256.4 SS 1229.7
CRT -.8911 CRS -.9541 CST .9855
LSA 1628.7 MSA 163.8 SSA 16.6
EL1 1074.5 EL2 113.6 ALF 167.58

LAUNCH DATE JUN 3 1967 FLIGHT TIME 114.00 ARRIVAL DATE SEP 25 1967

DISTANCE 294.711

HELIOCENTRIC CONIC
RL 151.74 LAL -.00 LOL 251.75 VL 26.347 GAL .92 AZL 93.58 HCA 125.54 SMA 125.79 ECC .20690 INC 3.5788 V1 29.361
RP 108.50 LAP -2.91 LOP 17.34 VP 37.299 GAP -8.98 AZP 87.92 TAL 176.48 TAP 302.02 RCA 99.76 APO 151.82 V2 34.926
RC 55.163 GL -28.16 GP 2.10 ZAL 87.24 ZAP 18.98 ETS 353.18 ZAE 147.63 ETE 19.69 ZAC 86.54 ETC 13.42 CLP -18.86

PLANETOCENTRIC CONIC
C3 12.144 VHL 3.485 DLA -19.97 RAL 154.91 RAD 6567.5 VEL 11.556 PTH 2.02 VHP 5.929 DPA 5.57 RAP 180.77 ECC 1.1999

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 47 3	1425.53	4.16	355.74	9.54	118.03	8 10 48	825.5	7.88	349.04
90.00	14 6 49	5422.30	28.11	249.19	14.90	86.40	15 37 11	4822.3	27.31	240.62
100.00	8 55 38	1204.21	2.99	338.82	8.90	119.76	9 15 42	604.2	6.93	332.25
100.00	15 40 55	5118.86	29.44	226.75	14.78	84.58	17 6 14	4518.9	28.38	218.11
110.00	9 36 31	1076.09	.10	327.31	7.09	124.18	9 54 27	476.1	4.59	321.10
110.00	17 16 31	4819.74	32.81	203.50	14.24	79.83	18 36 51	4219.7	31.06	194.71

DIFFERENTIAL CORRECTIONS
TDE .6237 TRA -.6156 TC3 1.1530 BAU .1938
RDE -.1429 RRA -.0680 RC3 .3084 FAU .05894
FDE-1.5400 FRA .6695 FC3-4.2019 BSP 5405
BDE .6399 BRA .6193 BC3 1.1935 FSP -1002

MID-COURSE EXECUTION ACCURACY
SGT 1690.3 SGR 339.9 SG3 349.5
RRT .1042 RRF -.1265 RTF -.9085
SGB 1724.1 R23 -.0281 R13 -.9086
SG1 1690.7 SG2 337.9 THA 1.25

ORBIT DETERMINATION ACCURACY
ST 1075.4 SR 237.7 SS 1310.2
CRT -.8967 CRS -.9568 CST .9860
LSA 1704.0 MSA 161.3 SSA 16.2
EL1 1096.5 EL2 103.2 ALF 168.69

LAUNCH DATE JUN 3 1967 FLIGHT TIME 116.00 ARRIVAL DATE SEP 27 1967

DISTANCE 301.368

HELIOCENTRIC CONIC
RL 151.74 LAL -.00 LOL 251.75 VL 26.434 GAL .77 AZL 93.60 HCA 128.73 SMA 126.34 ECC .20148 INC 3.6028 V1 29.361
RP 108.46 LAP -2.81 LOP 20.53 VP 37.372 GAP -8.33 AZP 87.74 TAL 176.95 TAP 305.68 RCA 100.88 APO 151.80 V2 34.938
RC 56.885 GL -29.12 GP 2.33 ZAL 88.31 ZAP 21.56 ETS 353.34 ZAE 147.50 ETE 19.26 ZAC 85.89 ETC 13.36 CLP -21.44

PLANETOCENTRIC CONIC
C3 11.653 VHL 3.414 DLA -20.41 RAL 153.46 RAD 6567.4 VEL 11.534 PTH 2.01 VHP 5.584 DPA 5.53 RAP 181.42 ECC 1.1918

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 46 24	1398.04	5.04	354.20	7.72	117.90	8 9 42	798.0	8.73	347.47
90.00	13 55 57	5432.47	28.15	249.93	12.96	86.77	15 26 29	4832.5	27.40	241.35
100.00	8 54 26	1178.50	3.86	337.41	7.07	119.67	9 14 4	578.5	7.78	330.82
100.00	15 30 36	5127.24	29.49	227.37	12.85	84.90	16 56 4	4527.2	28.47	218.71
110.00	9 34 17	1053.60	.96	326.14	5.27	124.17	9 51 50	453.6	5.44	319.91
110.00	17 7 15	4824.90	32.87	203.89	12.32	80.05	18 27 40	4224.9	31.15	195.09

DIFFERENTIAL CORRECTIONS
TDE .6267 TRA -.5800 TC3 1.2314 BAU .1983
RDE -.1276 RRA -.0631 RC3 .3217 FAU .06501
FDE-1.7123 FRA .6669 FC3-4.8293 BSP 5480
BDE .6396 BRA .5835 BC3 1.2727 FSP -1139

MID-COURSE EXECUTION ACCURACY
SGT 1700.7 SGR 327.0 SG3 391.7
RRT .1378 RRF -.1642 RTF -.9124
SGB 1731.8 R23 -.0341 R13 -.9126
SG1 1701.3 SG2 323.7 THA 1.58

ORBIT DETERMINATION ACCURACY
ST 1097.4 SR 217.0 SS 1398.1
CRT -.9013 CRS -.9588 CST .9865
LSA 1783.4 MSA 158.9 SSA 15.6
EL1 1114.8 EL2 92.5 ALF 169.82

LAUNCH DATE JUN 3 1967 FLIGHT TIME 118.00 ARRIVAL DATE SEP 29 1967

DISTANCE 308.010

HELIOCENTRIC CONIC
RL 151.74 LAL -.00 LOL 251.75 VL 26.513 GAL .63 AZL 93.63 HCA 131.92 SMA 126.84 ECC .19661 INC 3.6291 V1 29.361
RP 108.43 LAP -2.70 LOP 23.73 VP 37.440 GAP -7.70 AZP 87.57 TAL 177.41 TAP 309.33 RCA 101.90 APO 151.78 V2 34.951
RC 58.673 GL -30.03 GP 2.60 ZAL 89.34 ZAP 24.31 ETS 353.45 ZAE 147.62 ETE 19.06 ZAC 85.39 ETC 13.30 CLP -24.18

PLANETOCENTRIC CONIC
C3 11.242 VHL 3.353 DLA -20.84 RAL 152.07 RAD 6567.4 VEL 11.517 PTH 2.01 VHP 5.257 DPA 5.60 RAP 181.95 ECC 1.1850

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 45 52	1372.19	5.86	352.74	6.03	117.75	8 8 44	772.2	9.53	345.99
90.00	13 45 23	5443.38	28.19	250.73	11.15	87.17	15 16 7	4843.4	27.50	242.13
100.00	8 53 20	1154.47	4.66	336.08	5.37	119.56	9 12 35	554.5	8.57	329.47
100.00	15 20 36	5136.33	29.55	228.04	11.05	85.25	16 46 13	4536.3	28.58	219.37
110.00	9 32 9	1032.80	1.76	325.05	3.56	124.14	9 49 22	432.8	6.23	318.82
110.00	16 58 17	4830.77	32.94	204.33	10.55	80.30	18 18 47	4230.8	31.25	195.51

DIFFERENTIAL CORRECTIONS
TDE .6282 TRA -.5453 TC3 1.2926 BAU .2007
RDE -.1119 RRA -.0587 RC3 .3362 FAU .07178
FDE-1.9111 FRA .6638 FC3-5.5274 BSP 5534
BDE .6380 BRA .5485 BC3 1.3356 FSP -1293

MID-COURSE EXECUTION ACCURACY
SGT 1702.3 SGR 314.5 SG3 439.5
RRT .1816 RRF -.2136 RTF -.9156
SGB 1731.1 R23 -.0423 R13 -.9159
SG1 1703.3 SG2 309.1 THA 1.99

ORBIT DETERMINATION ACCURACY
ST 1114.6 SR 194.0 SS 1493.2
CRT -.9037 CRS -.9593 CST .9871
LSA 1866.8 MSA 156.8 SSA 14.9
EL1 1128.4 EL2 82.0 ALF 171.01

LAUNCH DATE JUN 3 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 1 1967

DISTANCE 314.637

HELIOCENTRIC CONIC
RL 151.74 LAL -.00 LOL 251.75 VL 26.583 GAL .51 AZL 93.66 HCA 135.11 SMA 127.29 ECC .19225 INC 3.6581 V1 29.361
RP 108.39 LAP -2.58 LOP 26.92 VP 37.501 GAP -7.09 AZP 87.41 TAL 177.86 TAP 312.97 RCA 102.82 APO 151.77 V2 34.964
RC 60.521 GL -30.91 GP 2.92 ZAL 90.30 ZAP 27.24 ETS 353.52 ZAE 148.02 ETE 19.14 ZAC 85.04 ETC 13.25 CLP -27.10

PLANETOCENTRIC CONIC
C3 10.901 VHL 3.302 DLA -21.25 RAL 150.75 RAD 6567.4 VEL 11.502 PTH 2.00 VHP 4.947 DPA 5.78 RAP 182.33 ECC 1.1794

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 45 36	1347.64	6.64	351.36	4.47	117.59	8 8 3	747.6	10.28	344.57
90.00	13 35 7	5455.26	28.22	251.60	9.49	87.60	15 6 2	4855.3	27.59	242.99
100.00	8 52 28	1131.80	5.42	334.83	3.81	119.44	9 11 20	531.8	9.31	328.19
100.00	15 10 55	5146.34	29.60	228.78	9.40	85.63	16 36 41	4546.3	28.68	220.10
110.00	9 30 15	1013.40	2.50	324.04	1.99	124.10	9 47 8	413.4	6.96	317.79
110.00	16 49 38	4837.50	33.02	204.84	8.92	80.60	18 10 15	4237.5	31.37	196.00

DIFFERENTIAL CORRECTIONS
TDE .6196 TRA -.5150 TC3 1.3244 BAU .1997
RDE -.0953 RRA -.0548 RC3 .3527 FAU .07920
FDE-2.1270 FRA .6653 FC3-6.2902 BSP 5446
BDE .6269 BRA .5179 BC3 1.3705 FSP -1453

MID-COURSE EXECUTION ACCURACY
SGT 1685.3 SGR 303.3 SG3 491.9
RRT .2423 RRF -.2801 RTF -.9160
SGB 1712.4 R23 -.0528 R13 -.9165
SG1 1687.0 SG2 294.0 THA 2.57

ORBIT DETERMINATION ACCURACY
ST 1113.3 SR 168.3 SS 1586.6
CRT -.9007 CRS -.9573 CST .9870
LSA 1939.1 MSA 156.7 SSA 14.2
EL1 1123.6 EL2 72.4 ALF 172.21

LAUNCH DATE JUN 3 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 3 1967

DISTANCE 321.246

HELIOCENTRIC CONIC
RL 151.74 LAL -.00 LOL 251.75 VL 26.645 GAL .40 AZL 93.69 HCA 138.30 SMA 127.70 ECC .18837 INC 3.6907 V1 29.361
RP 108.35 LAP -2.45 LOP 30.12 VP 37.558 GAP -6.50 AZP 87.24 TAL 178.28 TAP 316.58 RCA 103.65 APO 151.76 V2 34.977
RC 62.420 GL -31.75 GP 3.31 ZAL 91.19 ZAP 30.38 ETS 353.55 ZAE 148.70 ETE 19.54 ZAC 84.88 ETC 13.21 CLP -30.22

PLANETOCENTRIC CONIC
C3 10.624 VHL 3.259 DLA -21.65 RAL 149.50 RAD 6567.4 VEL 11.490 PTH 2.00 VHP 4.656 DPA 6.09 RAP 182.56 ECC 1.1748

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 45 42	1324.00	7.38	350.02	3.06	117.42	8 7 46	724.0	11.00	343.20
90.00	13 25 4	5468.40	28.26	252.56	7.99	88.08	14 56 12	4868.4	27.69	243.94
100.00	8 51 58	1110.14	6.15	333.63	2.39	119.31	9 10 28	510.1	10.01	326.97
100.00	15 1 29	5157.50	29.66	229.60	7.91	86.07	16 27 27	4557.5	28.80	220.91
110.00	9 28 39	995.12	3.20	323.08	.56	124.05	9 45 15	395.1	7.64	316.82
110.00	16 41 17	4845.28	33.10	205.43	7.45	80.94	18 2 2	4245.3	31.50	196.57

DIFFERENTIAL CORRECTIONS
TDE .6144 TRA -.4803 TC3 1.3511 BAU .1991
RDE -.0771 RRA -.0513 RC3 .3729 FAU .08808
FDE-2.3905 FRA .6543 FC3-7.1778 BSP 5440
BDE .6192 BRA .4831 BC3 1.4016 FSP -1659

MID-COURSE EXECUTION ACCURACY
SGT 1663.5 SGR 294.8 SG3 553.8
RRT .3180 RRF -.3641 RTF -.9175
SGB 1689.4 R23 -.0674 R13 -.9182
SG1 1666.2 SG2 279.0 THA 3.32

ORBIT DETERMINATION ACCURACY
ST 1114.1 SR 138.8 SS 1698.0
CRT -.8938 CRS -.9518 CST .9873
LSA 2029.7 MSA 155.3 SSA 13.4
EL1 1121.0 EL2 61.9 ALF 173.62

LAUNCH DATE JUN 3 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 5 1967

DISTANCE 327.838

HELIOCENTRIC CONIC
RL 151.74 LAL -.00 LOL 251.75 VL 26.701 GAL .30 AZL 93.73 HCA 141.50 SMA 128.07 ECC .18493 INC 3.7276 V1 29.361
RP 108.31 LAP -2.32 LOP 33.31 VP 37.609 GAP -5.92 AZP 87.08 TAL 178.66 TAP 320.16 RCA 104.38 APO 151.75 V2 34.990
RC 64.367 GL -32.56 GP 3.76 ZAL 91.99 ZAP 33.75 ETS 353.57 ZAE 149.66 ETE 20.34 ZAC 84.91 ETC 13.18 CLP -33.56

PLANETOCENTRIC CONIC
C3 10.405 VHL 3.226 DLA -22.07 RAL 148.35 RAD 6567.4 VEL 11.480 PTH 2.00 VHP 4.384 DPA 6.57 RAP 182.62 ECC 1.1712

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 46 23	1300.68	8.11	348.69	1.81	117.22	8 8 4	700.7	11.70	341.85
90.00	13 15 9	5483.27	28.29	253.64	6.65	88.62	14 46 32	4883.3	27.80	245.01
100.00	8 51 59	1088.97	6.85	332.45	1.13	119.17	9 10 8	489.0	10.69	325.77
100.00	14 52 14	5170.21	29.71	230.54	6.58	86.56	16 18 25	4570.2	28.92	221.83
110.00	9 27 31	977.56	3.87	322.16	359.28	123.99	9 43 49	377.6	8.30	315.89
110.00	16 33 11	4854.39	33.20	206.12	6.15	81.34	17 54 6	4254.4	31.64	197.24

DIFFERENTIAL CORRECTIONS
TDE .5968 TRA -.4517 TC3 1.3249 BAU .1924
RDE -.0572 RRA -.0484 RC3 .3969 FAU .09721
FDE-2.6737 FRA .6527 FC3-8.0882 BSP 5273
BDE .5996 BRA .4543 BC3 1.3831 FSP -1866

MID-COURSE EXECUTION ACCURACY
SGT 1613.7 SGR 290.7 SG3 619.1
RRT .4084 RRF -.4656 RTF -.9148
SGB 1639.6 R23 -.0895 R13 -.9160
SG1 1618.1 SG2 264.6 THA 4.32

ORBIT DETERMINATION ACCURACY
ST 1091.8 SR 105.6 SS 1805.5
CRT -.8695 CRS -.9352 CST .9870
LSA 2106.8 MSA 155.8 SSA 12.5
EL1 1095.7 EL2 52.0 ALF 175.18

LAUNCH DATE JUN 3 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 7 1967

HELIOCENTRIC CONIC DISTANCE 334.411

RL	151.74	LAL	-.00	LOL	251.75	VL	26.750	GAL	.22	AZL	93.77	HCA	144.70	SMA	128.39	ECC	.18192	INC	3.7701	V1	29.361
RP	108.27	LAP	-2.18	LOP	36.51	VP	37.656	GAP	-5.36	AZP	86.92	TAL	179.01	TAP	323.71	RCA	105.03	APO	151.75	V2	35.003
RC	66.356	GL	-33.35	GP	4.31	ZAL	92.70	ZAP	37.36	ETS	353.57	ZAE	150.89	ETE	21.64	ZAC	85.15	ETC	13.18	CLP	-37.15

PLANETOCENTRIC CONIC

C3	10.239	VHL	3.200	DLA	-22.49	RAL	147.28	RAD	6567.4	VEL	11.473	PTH	1.99	VHP	4.131	DPA	7.23	RAP	182.49	ECC	1.1685

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 47 50	1277.04	8.84	347.34	.72	117.01	8 9 7	677.0	12.40	340.46
90.00	13 5 12	5500.44	28.31	254.90	5.49	89.25	14 36 53	4900.4	27.90	246.26
100.00	8 52 41	1067.76	7.55	331.27	.03	119.01	9 10 29	467.8	11.37	324.55
100.00	14 43 3	5184.96	29.77	231.64	5.43	87.13	16 9 28	4585.0	29.05	222.91
110.00	9 26 57	960.30	4.52	321.26	358.16	123.92	9 42 58	360.3	8.95	314.96
110.00	16 25 16	4865.18	33.30	206.95	5.03	81.81	17 46 21	4265.2	31.82	198.04

DIFFERENTIAL CORRECTIONS

TDE	.5739	TRA	-.4223	TC3	1.2820	BAU	.1850
RDE	-.0346	RRA	-.0459	RC3	.4280	FAU	.10778
FDE	-2.9973	FRA	.6429	FC3	-9.1135	BSP	5076
BDE	.5749	BRA	.4248	BC3	1.3516	FSP	-2108

MID-COURSE EXECUTION ACCURACY

SGT	1548.9	SGR	294.6	SG3	693.2		
RRT	.5127	RRF	-.5824	RTF	-.9109		
SGB	1576.6	R23	-.1196	R13	-.9130		
SG1	1556.4	SG2	251.7	THA	5.72		

ORBIT DETERMINATION ACCURACY

ST	1056.8	SR	67.9	SS	1921.4		
CRT	-.7923	CRS	-.8777	CST	.9864		
LSA	2188.3	MSA	156.1	SSA	11.5		
EL1	1058.2	EL2	41.4	ALF	177.08		

LAUNCH DATE JUN 3 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 9 1967

HELIOCENTRIC CONIC DISTANCE 340.967

RL	151.74	LAL	-.00	LOL	251.75	VL	26.792	GAL	.15	AZL	93.82	HCA	147.90	SMA	128.67	ECC	.17929	INC	3.8199	V1	29.361
RP	108.22	LAP	-2.03	LOP	39.71	VP	37.698	GAP	-4.82	AZP	86.76	TAL	179.31	TAP	327.22	RCA	105.60	APO	151.74	V2	35.016
RC	68.382	GL	-34.12	GP	4.98	ZAL	93.31	ZAP	41.25	ETS	353.57	ZAE	152.38	ETE	23.62	ZAC	85.62	ETC	13.20	CLP	-41.00

PLANETOCENTRIC CONIC

C3	10.124	VHL	3.182	DLA	-22.95	RAL	146.32	RAD	6567.4	VEL	11.468	PTH	1.99	VHP	3.899	DPA	8.10	RAP	182.17	ECC	1.1666

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 50 21	1252.15	9.61	345.91	359.82	116.76	8 11 13	652.1	13.13	339.00
90.00	12 55 0	5520.84	28.32	256.39	4.50	90.00	14 27 1	4920.8	28.02	247.74
100.00	8 54 19	1045.71	8.28	330.03	359.11	118.83	9 11 44	445.7	12.06	323.29
100.00	14 33 44	5202.50	29.82	232.94	4.47	87.81	16 0 26	4602.5	29.20	224.19
110.00	9 27 9	942.77	5.19	320.34	357.22	123.83	9 42 51	342.8	9.60	314.02
110.00	16 17 23	4878.21	33.43	207.95	4.11	82.39	17 38 41	4278.2	32.01	199.00

DIFFERENTIAL CORRECTIONS

TDE	.5366	TRA	-.4013	TC3	1.1718	BAU	.1707
RDE	-.0087	RRA	-.0442	RC3	.4657	FAU	.11817
FDE	-3.3415	FRA	.6552	FC3	-10.1050	BSP	4651
BDE	.5367	BRA	.4037	BC3	1.2610	FSP	-2326

MID-COURSE EXECUTION ACCURACY

SGT	1451.1	SGR	309.1	SG3	768.9		
RRT	.6104	RRF	-.6989	RTF	-.8994		
SGB	1483.6	R23	-.1692	R13	-.9034		
SG1	1463.7	SG2	242.8	THA	7.62		

ORBIT DETERMINATION ACCURACY

ST	994.8	SR	31.6	SS	2032.2		
CRT	-.2797	CRS	-.4321	CST	.9847		
LSA	2257.3	MSA	158.6	SSA	10.6		
EL1	994.8	EL2	30.3	ALF	179.49		

LAUNCH DATE JUN 3 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 11 1967

HELIOCENTRIC CONIC DISTANCE 347.503

RL	151.74	LAL	-.00	LOL	251.75	VL	26.829	GAL	.09	AZL	93.88	HCA	151.11	SMA	128.92	ECC	.17702	INC	3.8795	V1	29.361
RP	108.18	LAP	-1.87	LOP	42.91	VP	37.737	GAP	-4.30	AZP	86.60	TAL	179.57	TAP	330.68	RCA	106.10	APO	151.74	V2	35.029
RC	70.443	GL	-34.91	GP	5.80	ZAL	93.80	ZAP	45.42	ETS	353.58	ZAE	154.09	ETE	26.55	ZAC	86.32	ETC	13.27	CLP	-45.13

PLANETOCENTRIC CONIC

C3	10.062	VHL	3.172	DLA	-23.46	RAL	145.45	RAD	6567.4	VEL	11.465	PTH	1.99	VHP	3.688	DPA	9.23	RAP	181.67	ECC	1.1656

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 54 15	1224.89	10.44	344.34	359.11	116.47	8 14 40	624.9	13.91	337.39
90.00	12 44 10	5545.61	28.30	258.20	3.70	90.91	14 16 35	4945.6	28.13	249.54
100.00	8 57 7	1021.96	9.06	328.70	358.38	118.61	9 14 9	422.0	12.81	321.92
100.00	14 23 59	5223.77	29.86	234.52	3.70	88.64	15 51 3	4623.8	29.36	225.75
110.00	9 28 14	924.38	5.88	319.37	356.44	123.73	9 43 38	324.4	10.28	313.03
110.00	16 9 21	4894.12	33.56	209.17	3.38	83.10	17 30 55	4294.1	32.25	200.18

DIFFERENTIAL CORRECTIONS

TDE	.4930	TRA	-.3779	TC3	1.0447	BAU	.1567
RDE	.0220	RRA	-.0430	RC3	.5148	FAU	.12979
FDE	-3.7280	FRA	.6569	FC3	-11.1676	BSP	4182
BDE	.4935	BRA	.3804	BC3	1.1646	FSP	-2555

MID-COURSE EXECUTION ACCURACY

SGT	1336.4	SGR	339.7	SG3	851.9		
RRT	.6936	RRF	-.8034	RTF	-.8845		
SGB	1378.9	R23	-.2349	R13	-.8926		
SG1	1357.7	SG2	240.9	THA	10.33		

ORBIT DETERMINATION ACCURACY

ST	918.3	SR	48.2	SS	2150.5		
CRT	.9326	CRS	.8598	CST	.9823		
LSA	2333.3	MSA	159.9	SSA	9.5		
EL1	919.4	EL2	17.4	ALF	2.80		

LAUNCH DATE JUN 3 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 13 1967

HELIOCENTRIC CONIC DISTANCE 354.019

RL	151.74	LAL	-.00	LOL	251.75	VL	26.861	GAL	.05	AZL	93.95	HCA	154.31	SMA	129.13	ECC	.17509	INC	3.9528	V1	29.361
RP	108.14	LAP	-1.71	LOP	46.12	VP	37.772	GAP	-3.78	AZP	86.44	TAL	179.77	TAP	334.09	RCA	106.52	APO	151.74	V2	35.042
RC	72.534	GL	-35.73	GP	6.82	ZAL	94.18	ZAP	49.90	ETS	353.61	ZAE	155.92	ETE	30.81	ZAC	87.25	ETC	13.40	CLP	-49.56

PLANETOCENTRIC CONIC

C3	10.055	VHL	3.171	DLA	-24.05	RAL	144.67	RAD	6567.4	VEL	11.465	PTH	1.99	VHP	3.501	DPA	10.67	RAP	180.98	ECC	1.1655

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 0 5	1193.43	11.39	342.52	358.62	116.10	8 19 58	593.4	14.81	335.51
90.00	12 32 7	5576.79	28.25	260.48	3.09	92.05	14 5 4	4976.8	28.23	251.82
100.00	9 1 31	995.09	9.93	327.18	357.85	118.34	9 18 6	395.1	13.64	320.36
100.00	14 13 22	5250.36	29.89	236.50	3.12	89.68	15 40 52	4650.4	29.53	227.71
110.00	9 30 30	904.22	6.64	318.30	355.86	123.61	9 45 34	304.2	11.02	311.94
110.00	16 0 53	4914.00	33.72	210.70	2.87	84.00	17 22 47	4314.0	32.52	201.67

DIFFERENTIAL CORRECTIONS

TDE	.4345	TRA	-.3551	TC3	.8953	BAU	.1436
RDE	.0590	RRA	-.0419	RC3	.5823	FAU	.14356
FDE	-4.1426	FRA	.6386	FC3	-12.3607	BSP	3732
BDE	.4385	BRA	.3575	BC3	1.0680	FSP	-2832

MID-COURSE EXECUTION ACCURACY

SGT	1196.8	SGR	393.2	SG3	942.8		
RRT	.7472	RRF	-.8852	RTF	-.8588		
SGB	1259.8	R23	-.3206	R13	-.8769		
SG1	1234.0	SG2	253.4	THA	14.41		

ORBIT DETERMINATION ACCURACY

ST	813.1	SR	110.1	SS	2268.0		
CRT	.9963	CRS	.9818	CST	.9776		
LSA	2406.4	MSA	162.2	SSA	8.5		
EL1	820.4	EL2	9.4	ALF	7.68		

LAUNCH DATE JUN 3 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 15 1967

HELIOCENTRIC CONIC DISTANCE 360.509

RL	151.74	LAL	-.00	LOL	251.75	VL	26.887	GAL	.01	AZL	94.05	HCA	157.52	SMA	129.31	ECC	.17346	INC	4.0453	V1	29.361		
RP	108.10	LAP	-1.55	LOP	49.33	VP	37.803	GAP	-3.28	AZP	86.26	TAL	179.93	TAP	337.45	RCA	106.88	APO	151.74	V2	35.056		
RC	74.652	GL	-36.62	GP	8.13	ZAL	94.45	ZAP	54.70	ETS	353.68	ZAE	157.73	ETE	36.97	ZAC	88.39	ETC	13.62	CLP	-54.29		

PLANETOCENTRIC CONIC

C3	10.112	VHL	3.180	DLA	-24.73	RAL	143.96	RAD	6567.4	VEL	11.467	PTH	1.99	VHP	3.338	DPA	12.48	RAP	180.13	ECC	1.1664		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 8 35	1155.17	12.52	340.28	358.36	115.60	8 27 51	555.2	15.87	333.20
90.00	12 17 55	5617.33	28.11	263.44	2.66	93.53	13 51 32	5017.3	28.31	254.78
100.00	9 8 2	963.29	10.95	325.37	357.54	117.99	9 24 5	363.3	14.61	318.49
100.00	14 1 10	5284.45	29.88	239.03	2.74	91.02	15 29 14	4684.4	29.70	230.23
110.00	9 34 11	881.24	7.51	317.09	355.47	123.45	9 48 52	281.2	11.86	310.69
110.00	15 51 30	4939.26	33.88	212.66	2.58	85.14	17 13 49	4339.3	32.83	203.57

DIFFERENTIAL CORRECTIONS

TDE	.3516	TRA	-.3090	TC3	.6862	BAU	.1290	SGT	983.7	SGR	465.2	SG3	1013.7	ST	659.8	SR	184.1	SS	2328.5				
RDE	.1012	RRA	-.0366	RC3	.6632	FAU	.15550	RRT	.7520	RRF	-.9365	RTF	-.8138	CRT	.9855	CRS	.9959	CST	.9696				
FDE	-4.4765	FRA	.4830	FC	-13.3125	BSP	4057	SGB	1088.1	R23	-.4034	R13	-.8614	LSA	2422.1	MSA	156.0	SSA	7.5				
BDE	.3659	BRA	.3112	BC3	.9543	FSP	-3507	SG1	1049.5	SG2	287.5	THA	21.25	EL1	684.3	EL2	30.1	ALF	15.41				

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE JUN 3 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 17 1967

HELIOCENTRIC CONIC DISTANCE .000

RL	151.74	LAL	-.00	LOL	251.75	VL	26.909	GAL	.00	AZL	94.17	HCA	160.73	SMA	129.46	ECC	.17212	INC	4.1670	V1	29.361		
RP	108.06	LAP	-1.37	LOP	52.53	VP	37.830	GAP	-2.80	AZP	86.07	TAL	180.00	TAP	340.73	RCA	107.18	APO	151.74	V2	35.069		
RC	76.795	GL	-37.64	GP	9.84	ZAL	94.55	ZAP	59.77	ETS	353.78	ZAE	159.16	ETE	45.58	ZAC	89.66	ETC	13.97	CLP	-59.27		

PLANETOCENTRIC CONIC

C3	10.252	VHL	3.202	DLA	-25.61	RAL	143.35	RAD	6567.4	VEL	11.473	PTH	1.99	VHP	3.204	DPA	14.76	RAP	179.22	ECC	1.1687		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 22 18	1102.61	14.05	337.18	358.47	114.84	8 40 41	502.6	17.28	329.99
90.00	11 59 20	5675.40	27.80	267.66	2.46	95.62	13 33 55	5075.4	28.29	259.03
100.00	9 18 26	921.37	12.28	322.97	357.57	117.47	9 33 47	321.4	15.86	316.01
100.00	13 45 53	5331.87	29.77	242.55	2.63	92.87	15 14 45	4731.9	29.85	233.75
110.00	9 40 25	852.41	8.59	315.55	355.38	123.21	9 54 37	252.4	12.90	309.11
110.00	15 40 24	4973.60	34.04	215.32	2.61	86.71	17 3 17	4373.6	33.21	206.18

DIFFERENTIAL CORRECTIONS

TDE	.2818	TRA	-.3938	TC3	.5115	BAU	.1289	SGT	986.0	SGR	600.2	SG3	1141.4	ST	556.1	SR	295.6	SS	2499.1				
RDE	.1634	RRA	-.0699	RC3	.7893	FAU	.17286	RRT	.7121	RRF	-.9713	RTF	-.7332	CRT	.9567	CRS	.9981	CST	.9386				
FDE	-5.0258	FRA	1.2600	FC	-14.5970	BSP	1992	SGB	1154.3	R23	-.5011	R13	-.8342	LSA	2570.4	MSA	188.2	SSA	6.5				
BDE	.3257	BRA	.4000	BC3	.9406	FSP	-2790	SG1	1089.5	SG2	381.4	THA	27.01	EL1	625.2	EL2	76.6	ALF	27.40				

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE JUN 3 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 19 1967

HELIOCENTRIC CONIC DISTANCE 373.448

RL	151.74	LAL	-.00	LOL	251.75	VL	26.926	GAL	-.01	AZL	94.34	HCA	163.95	SMA	129.58	ECC	.17106	INC	4.3354	V1	29.361		
RP	108.02	LAP	-1.20	LOP	55.74	VP	37.855	GAP	-2.32	AZP	85.83	TAL	180.05	TAP	344.00	RCA	107.41	APO	151.74	V2	35.082		
RC	78.958	GL	-38.88	GP	12.18	ZAL	94.58	ZAP	65.18	ETS	353.98	ZAE	159.74	ETE	57.19	ZAC	91.06	ETC	14.51	CLP	-64.57		

PLANETOCENTRIC CONIC

C3	10.518	VHL	3.243	DLA	-26.69	RAL	142.67	RAD	6567.4	VEL	11.485	PTH	2.00	VHP	3.100	DPA	17.74	RAP	178.30	ECC	1.1731		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 44 2	1025.50	16.20	332.54	358.96	113.54	9 1 8	425.5	19.25	325.19
90.00	11 32 14	5762.82	27.06	273.95	2.32	98.69	13 8 17	5162.8	27.98	265.40
100.00	9 33 47	864.83	14.03	319.69	357.90	116.67	9 48 12	264.8	17.50	312.61
100.00	13 25 10	5398.73	29.44	247.49	2.66	95.45	14 55 9	4798.7	29.88	238.72
110.00	9 49 12	816.44	9.92	313.62	355.50	122.88	10 2 48	216.4	14.19	307.11
110.00	15 26 15	5019.88	34.17	218.93	2.87	88.85	16 49 55	4419.9	33.63	209.73

DIFFERENTIAL CORRECTIONS

TDE	.2400	TRA	-.2973	TC3	.2872	BAU	.1415	SGT	748.4	SGR	788.5	SG3	1270.9	ST	459.3	SR	474.1	SS	2830.8				
RDE	.2678	RRA	-.0410	RC3	.9645	FAU	.19081	RRT	.6182	RRF	-.9875	RTF	-.6351	CRT	.9415	CRS	.9997	CST	.9342				
FDE	-5.9764	FRA	.5302	FC	-15.7056	BSP	3419	SGB	1087.2	R23	-.3732	R13	-.9148	LSA	2902.2	MSA	162.1	SSA	5.4				
BDE	.3596	BRA	.3001	BC3	1.0063	FSP	-4213	SG1	978.3	SG2	474.2	THA	47.41	EL1	650.4	EL2	112.8	ALF	45.96				

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE JUN 3 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 21 1967

HELIOCENTRIC CONIC DISTANCE 379.887

RL	151.74	LAL	-.00	LOL	251.75	VL	26.939	GAL	-.01	AZL	94.59	HCA	167.16	SMA	129.67	ECC	.17024	INC	4.5855	V1	29.361		
RP	107.98	LAP	-1.02	LOP	58.96	VP	37.876	GAP	-1.85	AZP	85.53	TAL	180.03	TAP	347.19	RCA	107.59	APO	151.74	V2	35.094		
RC	81.139	GL	-40.52	GP	15.55	ZAL	94.43	ZAP	70.81	ETS	354.29	ZAE	158.59	ETE	70.64	ZAC	92.31	ETC	15.30	CLP	-70.05		

PLANETOCENTRIC CONIC

C3	10.992	VHL	3.315	DLA	-28.20	RAL	141.96	RAD	6567.4	VEL	11.506	PTH	2.00	VHP	3.040	DPA	21.72	RAP	177.68	ECC	1.1809		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 43 0	831.41	21.06	320.37	.76	109.38	9 56 51	231.4	23.51	312.56
90.00	10 27 34	686.84	24.01	310.81	1.76	105.47	10 39 1	86.8	25.91	302.65
100.00	10 2 24	768.59	16.89	313.97	358.96	115.04	10 15 13	168.6	20.12	306.67
100.00	12 50 50	5512.93	28.41	255.82	2.86	99.71	14 22 43	4912.9	29.46	247.18
110.00	10 3 52	763.99	11.85	310.78	356.12	122.30	10 16 36	164.0	16.03	304.16
110.00	15 5 52	5090.30	34.13	224.43	3.55	92.10	16 30 42	4490.3	34.04	215.19

DIFFERENTIAL CORRECTIONS

TDE	.1299	TRA	-.2780	TC3	-.0030	BAU	.1744	SGT	589.6	SGR	1052.7	SG3	1348.1	ST	277.8	SR	696.9	SS	3001.6				
RDE	.4028	RRA	-.0329	RC3	1.1869	FAU	.20317	RRT	.3060	RRF	-.9950	RTF	-.3153	CRT	.8239	CRS	.9999	CST	.8180				
FDE	-6.6082	FRA	.3344	FC	-16.0023	BSP	3988	SGB	1206.5	R23	-.1080	R13	-.9892	LSA	3089.8	MSA	159.4	SSA	4.4				
BDE	.4233	BRA	.2799	BC3	1.1869	FSP	-4739	SG1	1073.7	SG2	550.3	THA	76.73	EL1	735.2	EL2	149.2	ALF	71.01				

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
LAUNCH DATE  JUN  3 1967                                  FLIGHT TIME 142.00                                  ARRIVAL DATE  OCT 23 1967

  HELIOCENTRIC CONIC                                      DISTANCE 386.303
   RL  151.74 LAL   -.00 LOL 251.75 VL  26.949 GAL    .01 AZL  95.00 HCA 170.38 SMA 129.73 ECC .16966 INC 5.0002 V1  29.361
   RP  107.94 LAP   -.83 LOP  62.17 VP  37.894 GAP  -1.40 AZP  85.07 TAL 179.94 TAP 350.32 RCA 107.72 APO 151.74 V2  35.107
   RC  83.336 GL  -42.91 GP   20.83 ZAL  94.11 ZAP  76.64 ETS 354.81 ZAE 154.54 ETE  83.33 ZAC  93.06 ETC  16.47 CLP -75.69
  PLANETOCENTRIC CONIC
   C3  11.900 VHL  3.450 DLA -30.45 RAL 140.98 RAO 6567.5 VEL 11.545 PTH   2.02 VHP  3.049 DPA  27.48 RAP 177.89 ECC 1.1958
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      78.31     8 27 15   1078.67      23.88     339.65      2.08      109.47    8 45 14     478.7       26.32      331.65
     101.69    11 35 29   5760.61      23.90     272.91      2.09      109.46   13 11 29    5160.6       26.33      264.91
      78.31     8 27 15   1078.67      23.88     339.65      2.08      109.47    8 45 14     478.7       26.32      331.65
     101.69    11 35 29   5760.61      23.90     272.91      2.09      109.46   13 11 29    5160.6       26.33      264.91
     110.00    10 31  4    675.29      15.02     305.87    357.65      121.07   10 42 20      75.3       19.03      299.04
     110.00    14 30 50   5211.98      33.42     233.86      4.70       97.63   15 57 42    4612.0       34.12      224.68
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE -.0662 TRA -.2850 TC3 -.4513 BAU  .2129      SGT  640.8 SGR 1274.7 SG3 1197.2        ST   198.3 SR   931.2 SS  2822.0
   RDE  .5603 RRA -.0313 RC3 1.2596 FAU .17490      RRT -.4160 RRF -.9979 RTF  .4101        CRT -.5393 CRS 1.0000 CST -.5440
   FDE-6.4478 FRA  .2546 FC-12.7242 BSP   4012      SGB 1426.7 R23  .1175 R13 -.9909        LSA 2973.7 MSA  166.4 SSA    3.2
   BDE  .5642 BRA  .2867 BC3 1.3380 FSP  -3742      SG1 1309.0 SG2  567.4 THA 104.62        EL1  937.5 EL2  165.8 ALF  96.76

LAUNCH DATE  JUN  3 1967                                  FLIGHT TIME 144.00                                  ARRIVAL DATE  OCT 25 1967

  HELIOCENTRIC CONIC                                      DISTANCE 392.706
   RL  151.74 LAL   -.00 LOL 251.75 VL  26.955 GAL    .05 AZL  95.83 HCA 173.60 SMA 129.77 ECC .16929 INC 5.8268 V1  29.361
   RP  107.91 LAP   -.65 LOP  65.39 VP  37.910 GAP  -.96 AZP  84.21 TAL 179.78 TAP 353.38 RCA 107.80 APO 151.74 V2  35.119
   RC  85.546 GL  -46.96 GP   30.31 ZAL  93.56 ZAP  82.57 ETS 355.80 ZAE 145.46 ETE  92.46 ZAC  92.39 ETC  18.19 CLP -81.39
  PLANETOCENTRIC CONIC
   C3  14.021 VHL  3.744 DLA -34.22 RAL 139.21 RAO 6567.6 VEL 11.636 PTH   2.04 VHP  3.223 DPA  36.93 RAP 180.64 ECC 1.2307
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      69.93     7 24 14   1288.43      25.77     356.46      3.98      113.34    7 45 43     688.4       28.70      348.50
     110.07    12 24 25   5621.40      25.78     263.11      3.98      113.32   13 58  7    5021.4       28.71      255.15
      69.93     7 24 14   1288.43      25.77     356.46      3.98      113.34    7 45 43     688.4       28.70      348.50
     110.07    12 24 25   5621.40      25.78     263.11      3.98      113.32   13 58  7    5021.4       28.71      255.15
      69.93     7 24 14   1288.43      25.77     356.46      3.98      113.34    7 45 43     688.4       28.70      348.50
     110.07    12 24 25   5621.40      25.78     263.11      3.98      113.32   13 58  7    5021.4       28.71      255.15
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE -.2256 TRA -.3136 TC3 -.6370 BAU  .3004      SGT  826.7 SGR 1900.1 SG3 1118.4        ST   386.9 SR  1547.4 SS  3004.6
   RDE 1.0110 RRA -.0371 RC3 1.4705 FAU .15445      RRT -.6490 RRF -.9994 RTF  .6449        CRT -.8868 CRS 1.0000 CST -.8878
   FDE-7.0501 FRA  .2144 FC3-9.5372 BSP   6033      SGB 2072.2 R23  .0998 R13 -.9944        LSA 3397.2 MSA  177.3 SSA    2.2
   BDE 1.0358 BRA  .3158 BC3 1.6026 FSP  -3422      SG1 1982.6 SG2  602.8 THA 107.43        EL1 1585.5 EL2  174.5 ALF 102.66

LAUNCH DATE  JUN  3 1967                                  FLIGHT TIME 146.00                                  ARRIVAL DATE  OCT 27 1967

  HELIOCENTRIC CONIC                                      DISTANCE 399.076
   RL  151.74 LAL   -.00 LOL 251.75 VL  26.957 GAL    .09 AZL  98.32 HCA 176.82 SMA 129.79 ECC .16913 INC 8.3186 V1  29.361
   RP  107.87 LAP   -.46 LOP  68.60 VP  37.923 GAP  -.52 AZP  81.69 TAL 179.57 TAP 356.39 RCA 107.84 APO 151.74 V2  35.131
   RC  87.767 GL  -55.36 GP   50.93 ZAL  92.57 ZAP  88.16 ETS 358.23 ZAE 124.91 ETE  97.21 ZAC  87.47 ETC  20.12 CLP -87.08
  PLANETOCENTRIC CONIC
   C3  22.477 VHL  4.741 DLA -41.86 RAL 134.73 RAO 6567.9 VEL 11.994 PTH   2.14 VHP  4.209 DPA  55.11 RAP 195.19 ECC 1.3699
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      57.79     6  4 52   1577.10      27.16      20.95      9.77      123.16    6 31  9     977.1       31.32       13.53
     122.21    13  8  2   5551.84      27.18     258.27      9.78      123.15   14 40 34    4951.8       31.33      250.85
      57.79     6  4 52   1577.10      27.16      20.95      9.77      123.16    6 31  9     977.1       31.32       13.53
     122.21    13  8  2   5551.84      27.18     258.27      9.78      123.15   14 40 34    4951.8       31.33      250.85
      57.79     6  4 52   1577.10      27.16      20.95      9.77      123.16    6 31  9     977.1       31.32       13.53
     122.21    13  8  2   5551.84      27.18     258.27      9.78      123.15   14 40 34    4951.8       31.33      250.85
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE -.5113 TRA -.4096 TC3 -.5246 BAU  .4340      SGT 1034.9 SGR 3046.2 SG3  704.9        ST   649.5 SR  2758.6 SS  2705.9
   RDE 2.2818 RRA  .1337 RC3 1.3457 FAU .09035      RRT -.7876 RRF -.9999 RTF  .7858        CRT -.9586 CRS 1.0000 CST -.9588
   FDE-6.1543 FRA -.3686 FC3-3.4801 BSP   9919      SGB 3217.2 R23  .0570 R13 -.9983        LSA 3914.1 MSA  182.3 SSA    1.2
   BDE 2.3384 BRA  .4309 BC3 1.4443 FSP  -2199      SG1 3157.8 SG2  615.1 THA 105.59        EL1 2828.3 EL2  180.3 ALF 102.77

LAUNCH DATE  JUN  3 1967                                  FLIGHT TIME 148.00                                  ARRIVAL DATE  OCT 29 1967

  HELIOCENTRIC CONIC                                      DISTANCE 405.706
   RL  151.74 LAL   -.00 LOL 251.75 VL  26.957 GAL    .10 AZL  14.90 HCA 180.28 SMA 129.79 ECC .16916 INC74.9993 V1  29.361
   RP  107.83 LAP   -.27 LOP  71.82 VP  37.933 GAP  -.03 AZP 165.10 TAL 179.53 TAP 359.81 RCA 107.83 APO 151.74 V2  35.143
   RC  89.996 GL   49.33 GP  -53.50 ZAL  90.35 ZAP  90.23 ETS 179.86 ZAE  57.48 ETE  81.73 ZAC  93.78 ETC 160.60 CLP  90.39
  PLANETOCENTRIC CONIC
   C31179.661 VHL 34.346 DLA  51.20 RAL 190.04 RAO 6573.1 VEL 36.069 PTH   3.53 VHP 46.243 DPA -56.74 RAP  18.82 ECC20.4142
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      45.38    20 58 34   4983.06        .69     233.52     100.61       38.80   22 21 37    4383.1       -5.54      228.91
     134.62     5 35 36   3440.76        .70     111.32     100.59       38.80    6 32 57    2840.8       -5.53      106.71
      45.38    20 58 34   4983.06        .69     233.52     100.61       38.80   22 21 37    4383.1       -5.54      228.91
     134.62     5 35 36   3440.76        .70     111.32     100.59       38.80    6 32 57    2840.8       -5.53      106.71
      45.38    20 58 34   4983.06        .69     233.52     100.61       38.80   22 21 37    4383.1       -5.54      228.91
     134.62     5 35 36   3440.76        .70     111.32     100.59       38.80    6 32 57    2840.8       -5.53      106.71
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TDE-6.1302 TRA-3.1213 TC3 -.1356 BAU 5.1284      SGT 1613.6 SGR 3910.6 SG3   74.2       ST  1053.0 SR  1631.6 SS  1416.9
   RDE-8.0798 RR-11.4878 RC3 -.2956 FAU-.08824      RRT  .9209 RRF-1.0000 RTF -.9183        CRT  .9364 CRS 1.0000 CST  .9330
   FDE 1.7445 FRA 2.5321 FC3  .0648 BSP  34448      SGB 4230.4 R23 -.0609 R13 -.9981        LSA 2379.8 MSA  339.4 SSA     .4
   BDE10.1421 BRA11.9043 BC3  .3252 FSP    591      SG1 4189.4 SG2  587.2 THA  68.76        EL1 1916.2 EL2  314.6 ALF  57.89
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 150.00 ARRIVAL DATE OCT 31 1967

HELIOCENTRIC CONIC DISTANCE 411.806
RL 151.74 LAL -.00 LOL 251.75 VL 26.954 GAL .21 AZL 88.62 HCA 183.30 SMA 129.77 ECC .16938 INC 1.3881 V1 29.361
RP 107.80 LAP -.08 LOP 75.05 VP 37.941 GAP .33 AZP 91.38 TAL 178.99 TAP 2.29 RCA 107.79 APO 151.75 V2 35.154
RC 92.232 GL 15.03 GP -49.58 ZAL 93.60 ZAP 95.77 ETS 354.06 ZAE 132.28 ETE 251.12 ZAC 113.23 ETC 355.62 CLP -98.92
PLANETOCENTRIC CONIC
C3 6.277 VHL 2.505 DLA 22.44 RAL 165.70 RAD 6567.2 VEL 11.299 PTH 1.94 VHP 4.146 DPA -33.65 RAP 139.78 ECC 1.1033

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 21 25	2763.09	-28.04	79.13	16.90	94.15	3 7 28	2163.1	-27.17	70.58
90.00	20 58 32	3833.42	-11.51	151.24	13.51	63.95	22 2 25	3233.4	-14.92	144.22
100.00	3 59 10	2447.95	-29.25	55.82	16.77	96.44	4 39 58	1847.9	-28.05	47.22
100.00	22 3 29	3623.79	-10.42	135.26	12.95	61.82	23 3 52	3023.8	-14.11	128.41
110.00	5 41 12	2128.73	-32.19	31.02	16.21	102.17	6 16 40	1528.7	-30.18	22.38
110.00	22 37 56	3515.77	-7.86	125.54	11.40	56.63	23 36 32	2915.8	-12.20	119.12

DIFFERENTIAL CORRECTIONS
TDE .1903 TRA .1407 TC3-3.5071 BAU .5267
RDE .1103 RRA .5668 RC3-5.2043 FAU .10644
FDE .2744 FRA 1.5755 FC-14.6804 BSP 10823
BDE .2199 BRA .5840 BC3 6.2757 FSP -2305

MID-COURSE EXECUTION ACCURACY
SGT 1843.6 SGR 2971.7 SG3 721.3
RRT .9456 RRF .9999 RTF .9458
SGB 3497.1 R23 .0890 R13 .9960
SGI 3459.0 SG2 515.1 THA 58.83

ORBIT DETERMINATION ACCURACY
ST 450.6 SR 496.8 SS 481.9
CRT .7052 CRS -.9989 CST -.6711
LSA 772.1 MSA 293.1 SSA 2.4
EL1 619.9 EL2 256.0 ALF 48.95

LAUNCH DATE JUN 3 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 2 1967

HELIOCENTRIC CONIC DISTANCE 418.121
RL 151.74 LAL -.00 LOL 251.75 VL 26.948 GAL .29 AZL 90.98 HCA 186.52 SMA 129.73 ECC .16977 INC .9813 V1 29.361
RP 107.77 LAP .11 LOP 78.27 VP 37.947 GAP .74 AZP 89.02 TAL 178.60 TAP 5.12 RCA 107.70 APO 151.75 V2 35.165
RC 94.474 GL -10.84 GP -29.46 ZAL 92.78 ZAP 102.10 ETS 353.83 ZAE 148.63 ETE 234.07 ZAC 115.10 ETC 3.49 CLP-103.94
PLANETOCENTRIC CONIC
C3 6.069 VHL 2.463 DLA -1.83 RAL 156.48 RAD 6567.2 VEL 11.290 PTH 1.94 VHP 3.250 DPA -14.57 RAP 147.00 ECC 1.0999

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 17 46	1913.85	-11.32	23.27	1.69	116.13	5 49 39	1313.8	-7.72	16.44
90.00	16 48 40	4671.32	14.63	198.91	2.05	65.48	18 6 31	4071.3	11.20	191.91
100.00	6 38 16	1654.20	-11.99	3.83	1.34	117.59	7 5 50	1054.2	-8.20	357.09
100.00	18 10 51	4406.20	15.31	179.08	1.72	64.01	19 24 17	3806.2	11.69	172.16
110.00	7 44 32	1446.69	-13.76	347.05	.31	121.60	8 8 39	846.7	-9.48	340.56
110.00	19 21 3	4186.47	17.10	161.41	.72	59.94	20 30 50	3586.5	12.98	154.72

DIFFERENTIAL CORRECTIONS
TDE -.2196 TRA .0508 TC3-4.2619 BAU .4452
RDE -.2476 RRA .2677 RC3-3.4555 FAU .16730
FDE-1.8418 FRA 1.8010 FC-23.8656 BSP 8614
BDE .3309 BRA .2725 BC3 5.4868 FSP -3597

MID-COURSE EXECUTION ACCURACY
SGT 2164.3 SGR 1902.2 SG3 1140.3
RRT .9577 RRF .9997 RTF .9584
SGB 2881.4 R23 .1612 R13 .9866
SGI 2851.3 SG2 415.4 THA 41.15

ORBIT DETERMINATION ACCURACY
ST 515.9 SR 607.5 SS 1257.3
CRT .9698 CRS -.9996 CST -.9760
LSA 1484.7 MSA 109.0 SSA 5.9
EL1 791.1 EL2 96.5 ALF 49.81

LAUNCH DATE JUN 3 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 4 1967

HELIOCENTRIC CONIC DISTANCE 424.422
RL 151.74 LAL -.00 LOL 251.75 VL 26.940 GAL .38 AZL 91.79 HCA 189.75 SMA 129.67 ECC .17033 INC 1.7871 V1 29.361
RP 107.73 LAP .30 LOP 81.50 VP 37.951 GAP 1.15 AZP 88.24 TAL 178.16 TAP 7.91 RCA 107.58 APO 151.76 V2 35.175
RC 96.719 GL -19.04 GP -20.22 ZAL 91.70 ZAP 107.68 ETS 354.10 ZAE 152.67 ETE 217.01 ZAC 115.92 ETC 7.28 CLP-108.89
PLANETOCENTRIC CONIC
C3 6.638 VHL 2.576 DLA -9.81 RAL 154.32 RAD 6567.2 VEL 11.315 PTH 1.95 VHP 3.101 DPA -5.37 RAP 148.80 ECC 1.1092

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 10 15	1676.46	-3.92	9.76	.34	118.07	6 38 12	1076.5	-.13	3.12
90.00	15 38 54	4939.14	21.44	215.60	2.37	71.04	17 1 13	4339.1	18.65	208.03
100.00	7 26 46	1429.64	-4.64	351.21	359.95	119.56	7 50 35	829.6	-.67	344.67
100.00	17 5 5	4661.19	22.21	194.86	2.07	69.47	18 22 46	4061.2	19.22	187.34
110.00	8 24 1	1250.38	-6.53	336.44	358.78	123.63	8 44 51	650.4	-2.07	330.20
110.00	18 24 20	4413.22	24.26	175.10	1.14	65.15	19 37 53	3813.2	20.71	167.76

DIFFERENTIAL CORRECTIONS
TDE -.4399 TRA .0414 TC3-4.4804 BAU .4433
RDE -.2476 RRA .1744 RC3-2.2086 FAU .18165
FDE-2.9842 FRA 1.7915 FC-23.6912 BSP 8462
BDE .5048 BRA .1793 BC3 4.9952 FSP -3967

MID-COURSE EXECUTION ACCURACY
SGT 2509.1 SGR 1324.2 SG3 1250.3
RRT .9640 RRF .9988 RTF .9654
SGB 2837.1 R23 .2006 R13 .9785
SGI 2819.8 SG2 313.3 THA 27.33

ORBIT DETERMINATION ACCURACY
ST 981.1 SR 564.3 SS 1810.4
CRT .9834 CRS -.9995 CST -.9884
LSA 2130.7 MSA 136.0 SSA 5.1
EL1 1128.3 EL2 89.0 ALF 29.70

LAUNCH DATE JUN 3 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 6 1967

HELIOCENTRIC CONIC DISTANCE 430.705
RL 151.74 LAL -.00 LOL 251.75 VL 26.929 GAL .48 AZL 92.19 HCA 192.98 SMA 129.60 ECC .17105 INC 2.1938 V1 29.361
RP 107.70 LAP .49 LOP 84.72 VP 37.953 GAP 1.55 AZP 87.86 TAL 177.67 TAP 10.65 RCA 107.43 APO 151.77 V2 35.185
RC 98.967 GL -22.81 GP -15.09 ZAL 90.60 ZAP 112.72 ETS 354.43 ZAE 152.30 ETE 204.77 ZAC 116.63 ETC 9.51 CLP-113.58
PLANETOCENTRIC CONIC
C3 7.075 VHL 2.660 DLA -13.70 RAL 153.86 RAD 6567.2 VEL 11.334 PTH 1.95 VHP 3.103 DPA -.07 RAP 149.22 ECC 1.1164

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 41 4	1556.78	-.06	3.07	.88	118.32	7 7 1	956.8	3.72	356.44
90.00	15 4 25	5081.08	24.27	225.04	3.76	74.95	16 29 6	4481.1	21.97	217.12
100.00	7 55 12	1317.60	-.86	345.05	.44	119.88	8 17 10	717.6	3.13	338.52
100.00	16 32 58	4795.49	25.14	203.76	3.48	73.27	17 52 54	4195.5	22.61	195.88
110.00	8 47 15	1154.57	-2.90	331.41	359.17	124.08	9 6 30	554.6	1.60	325.20
110.00	17 57 25	4531.30	27.42	182.82	2.61	68.74	19 12 56	3931.3	24.28	175.06

DIFFERENTIAL CORRECTIONS
TDE -.6097 TRA .0568 TC3-4.7208 BAU .4705
RDE -.2066 RRA .1327 RC3-1.5695 FAU .18057
FDE-3.5289 FRA 1.7543 FC-22.0970 BSP 9010
BDE .6438 BRA .1444 BC3 4.9749 FSP -3994

MID-COURSE EXECUTION ACCURACY
SGT 2836.8 SGR 990.9 SG3 1255.3
RRT .9671 RRF .9963 RTF .9703
SGB 3004.9 R23 .2010 R13 .9762
SGI 2995.4 SG2 238.8 THA 18.79

ORBIT DETERMINATION ACCURACY
ST 1316.1 SR 454.5 SS 2064.0
CRT .9861 CRS -.9990 CST -.9923
LSA 2485.7 MSA 141.7 SSA 5.8
EL1 1390.5 EL2 71.4 ALF 18.86

LAUNCH DATE JUN 3 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 8 1967

HELIOCENTRIC CONIC DISTANCE 436.969

RL 151.74 LAL -.00 LOL 251.75 VL 26.917 GAL .60 AZL 92.44 HCA 196.22 SMA 129.51 ECC .17192 INC 2.4408 V1 29.361
RP 107.67 LAP .68 LOP 87.95 VP 37.953 GAP 1.95 AZP 87.66 TAL 177.12 TAP 13.34 RCA 107.25 APO 151.78 V2 35.195
RC 101.218 GL -24.90 GP -11.87 ZAL 89.44 ZAP 117.34 ETS 354.73 ZAE 150.44 ETE 197.03 ZAC 117.23 ETC 11.01 CLP-117.99

PLANETOCENTRIC CONIC

C3 7.412 VHL 2.723 DLA -16.08 RAL 154.11 RAO 6567.2 VEL 11.349 PTH 1.96 VHP 3.160 DPA 3.35 RAP 149.22 ECC 1.1220

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 3 48	1480.37	2.40	358.81	2.00	118.22	7 28 28	880.4	6.16	352.14
90.00	14 43 45	5174.13	25.76	231.44	5.37	77.83	16 9 59	4574.1	23.83	223.31
100.00	8 16 10	1246.83	1.55	341.17	1.52	119.86	8 36 57	646.8	5.51	334.62
100.00	16 14 3	4882.91	26.72	209.78	5.12	76.07	17 35 26	4282.9	24.54	201.65
110.00	9 4 33	1095.30	-.63	328.31	.16	124.18	9 22 48	495.3	3.86	322.10
110.00	17 42 11	4607.20	29.18	188.02	4.31	71.35	18 58 58	4007.2	26.36	179.98

DIFFERENTIAL CORRECTIONS
TOE -.7563 TRA .0850 TC3-4.9725 BAU .5070
ROE -.1640 RRA .1114 RC3-1.2034 FAU .17364
FOE-3.7491 FRA 1.7305 FC-20.2806 BSP 9791
BOE .7739 BRA .1402 BC3 5.1160 FSP -3879

MID-COURSE EXECUTION ACCURACY
SGT 3146.2 SGR 779.8 SG3 1217.5
RRT .9656 RRF .9906 RTF .9736
SGB 3241.4 R23 .1798 R13 .9763
SG1 3235.4 SG2 197.3 THA 13.51

ORBIT DETERMINATION ACCURACY
ST 1594.6 SR 353.4 SS 2178.4
CRT .9849 CRS -.9977 CST -.9941
LSA 2718.9 MSA 143.8 SSA 6.8
EL1 1632.2 EL2 59.7 ALF 12.33

LAUNCH DATE JUN 3 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 10 1967

HELIOCENTRIC CONIC DISTANCE 443.215

RL 151.74 LAL -.00 LOL 251.75 VL 26.902 GAL .73 AZL 92.61 HCA 199.45 SMA 129.42 ECC .17295 INC 2.6071 V1 29.361
RP 107.65 LAP .87 LOP 91.19 VP 37.951 GAP 2.34 AZP 87.54 TAL 176.53 TAP 15.98 RCA 107.03 APO 151.80 V2 35.204
RC 103.470 GL -26.18 GP -9.66 ZAL 88.20 ZAP 121.58 ETS 355.01 ZAE 148.16 ETE 192.19 ZAC 117.66 ETC 12.10 CLP-122.09

PLANETOCENTRIC CONIC

C3 7.695 VHL 2.774 DLA -17.75 RAL 154.78 RAO 6567.3 VEL 11.362 PTH 1.96 VHP 3.247 DPA 5.71 RAP 149.14 ECC 1.1266

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 22 47	1424.57	4.19	355.69	3.40	118.03	7 46 31	824.6	7.91	348.98
90.00	14 30 3	5243.46	26.67	236.32	7.10	80.11	15 57 27	4643.5	25.03	228.03
100.00	8 33 43	1195.67	3.28	338.35	2.90	119.73	8 53 39	595.7	7.21	331.78
100.00	16 1 48	4947.59	27.70	214.33	6.88	78.28	17 24 16	4347.6	25.80	206.05
110.00	9 19 9	1053.32	.97	326.12	1.46	124.17	9 36 43	453.3	5.45	319.90
110.00	17 32 51	4662.71	30.33	191.94	6.12	73.41	18 50 34	4062.7	27.76	183.69

DIFFERENTIAL CORRECTIONS
TOE -.8888 TRA .1251 TC3-5.2031 BAU .5445
ROE -.1270 RRA .1004 RC3 -.9730 FAU .16398
FOE-3.8036 FRA 1.7296 FC-18.4501 BSP 10619
BOE .8978 BRA .1604 BC3 5.2933 FSP -3711

MID-COURSE EXECUTION ACCURACY
SGT 3431.6 SGR 638.5 SG3 1161.0
RRT .9580 RRF .9795 RTF .9756
SGB 3490.5 R23 .1475 R13 .9770
SG1 3485.9 SG2 180.2 THA 10.13

ORBIT DETERMINATION ACCURACY
ST 1839.7 SR 270.9 SS 2228.3
CRT .9801 CRS -.9946 CST -.9952
LSA 2898.7 MSA 144.2 SSA 7.9
EL1 1858.8 EL2 53.2 ALF 8.22

LAUNCH DATE JUN 3 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 12 1967

HELIOCENTRIC CONIC DISTANCE 449.440

RL 151.74 LAL -.00 LOL 251.75 VL 26.886 GAL .87 AZL 92.73 HCA 202.69 SMA 129.31 ECC .17414 INC 2.7277 V1 29.361
RP 107.62 LAP 1.05 LOP 94.42 VP 37.947 GAP 2.73 AZP 87.48 TAL 175.88 TAP 18.58 RCA 106.79 APO 151.82 V2 35.212
RC 105.723 GL -26.99 GP -8.06 ZAL 86.89 ZAP 125.49 ETS 355.25 ZAE 145.85 ETE 189.09 ZAC 117.89 ETC 12.92 CLP-125.89

PLANETOCENTRIC CONIC

C3 7.948 VHL 2.819 DLA -19.03 RAL 155.71 RAO 6567.3 VEL 11.373 PTH 1.96 VHP 3.353 DPA 7.41 RAP 149.13 ECC 1.1308

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 39 53	1380.18	5.61	353.19	5.01	117.80	8 2 53	780.2	9.29	346.44
90.00	14 20 25	5299.74	27.26	240.33	8.93	82.04	15 48 45	4699.7	25.88	231.94
100.00	8 49 32	1155.41	4.63	336.14	4.48	119.56	9 8 48	555.4	8.54	329.52
100.00	15 53 27	4999.75	28.36	218.07	8.74	80.13	17 16 47	4399.8	26.71	209.66
110.00	9 32 27	1020.92	2.21	324.43	2.97	124.12	9 49 28	420.9	6.67	318.19
110.00	17 27 1	4707.00	31.14	195.13	8.04	75.14	18 45 28	4107.0	28.79	186.72

DIFFERENTIAL CORRECTIONS
TOE-1.0152 TRA .1691 TC3-5.4231 BAU .5829
ROE -.0963 RRA .0934 RC3 -.8229 FAU .15411
FOE-3.7813 FRA 1.7115 FC-16.7860 BSP 11480
BOE 1.0197 BRA .1932 BC3 5.4852 FSP -3531

MID-COURSE EXECUTION ACCURACY
SGT 3706.6 SGR 542.2 SG3 1100.3
RRT .9433 RRF .9609 RTF .9774
SGB 3746.0 R23 .1110 R13 .9781
SG1 3741.8 SG2 178.3 THA 7.87

ORBIT DETERMINATION ACCURACY
ST 2068.0 SR 205.2 SS 2250.8
CRT .9697 CRS -.9874 CST -.9959
LSA 3060.1 MSA 142.7 SSA 8.9
EL1 2077.6 EL2 49.9 ALF 5.50

LAUNCH DATE JUN 3 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 14 1967

HELIOCENTRIC CONIC DISTANCE 455.648

RL 151.74 LAL -.00 LOL 251.75 VL 26.868 GAL 1.02 AZL 92.82 HCA 205.93 SMA 129.19 ECC .17547 INC 2.8195 V1 29.361
RP 107.60 LAP 1.23 LOP 97.66 VP 37.942 GAP 3.11 AZP 87.46 TAL 175.20 TAP 21.13 RCA 106.52 APO 151.85 V2 35.220
RC 107.975 GL -27.50 GP -6.86 ZAL 85.50 ZAP 129.09 ETS 355.45 ZAE 143.66 ETE 187.03 ZAC 117.92 ETC 13.55 CLP-129.42

PLANETOCENTRIC CONIC

C3 8.191 VHL 2.862 DLA -20.07 RAL 156.86 RAO 6567.3 VEL 11.383 PTH 1.97 VHP 3.473 DPA 8.64 RAP 149.25 ECC 1.1348

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 56 3	1342.70	6.79	351.08	6.79	117.56	8 18 25	742.7	10.43	344.29
90.00	14 13 24	5348.37	27.67	243.83	10.88	83.74	15 42 32	4748.4	26.52	235.35
100.00	9 4 30	1121.79	5.76	334.27	6.22	119.38	9 23 12	521.8	9.63	327.63
100.00	15 47 38	5044.52	28.84	221.31	10.71	81.78	17 11 42	4444.5	27.40	212.80
110.00	9 45 8	994.43	3.22	323.05	4.65	124.05	10 1 43	394.4	7.67	316.78
110.00	17 23 29	4744.64	31.77	197.89	10.06	76.66	18 42 33	4144.6	29.61	189.34

DIFFERENTIAL CORRECTIONS
TOE-1.1287 TRA .2263 TC3-5.5856 BAU .6166
ROE -.0685 RRA .0909 RC3 -.7133 FAU .14261
FOE-3.6695 FRA 1.7269 FC-15.0729 BSP 12195
BOE 1.1308 BRA .2438 BC3 5.6310 FSP -3292

MID-COURSE EXECUTION ACCURACY
SGT 3944.6 SGR 472.3 SG3 1029.4
RRT .9172 RRF .9319 RTF .9779
SGB 3972.8 R23 .0826 R13 .9783
SG1 3968.4 SG2 187.0 THA 6.28

ORBIT DETERMINATION ACCURACY
ST 2266.3 SR 149.5 SS 2230.8
CRT .9433 CRS -.9676 CST -.9963
LSA 3180.3 MSA 142.5 SSA 10.0
EL1 2270.7 EL2 49.5 ALF 3.56

LAUNCH DATE JUN 3 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 16 1967

HELIOCENTRIC CONIC DISTANCE 461.836

RL 151.74 LAL -.00 LOL 251.75 VL 26.849 GAL 1.19 AZL 92.89 HCA 209.17 SMA 129.06 ECC .17696 INC 2.8922 V1 29.361
RP 107.58 LAP 1.41 LOP 100.89 VP 37.935 GAP 3.49 AZP 87.47 TAL 174.47 TAP 23.64 RCA 106.22 APO 151.89 V2 35.227
RC 110.226 GL -27.80 GP -5.92 ZAL 84.02 ZAP 132.41 ETS 355.62 ZAE 141.63 ETE 185.63 ZAC 117.73 ETC 14.04 CLP-132.69

PLANETOCENTRIC CONIC

C3 8.434 VHL 2.904 DLA -20.96 RAL 158.17 RAD 6567.3 VEL 11.394 PTH 1.97 VHP 3.605 DPA 9.53 RAP 149.54 ECC 1.1388

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 11 45	1309.80	7.82	349.21	8.72	117.30	8 33 34	709.8	11.42	342.38
90.00	14 8 11	5392.24	27.96	247.01	12.93	85.31	15 38 3	4792.2	27.01	238.47
100.00	9 19 2	1092.65	6.73	332.66	8.13	119.19	9 37 14	492.6	10.57	325.97
100.00	15 43 35	5084.62	29.20	224.24	12.79	83.28	17 8 19	4484.6	27.96	215.65
110.00	9 57 32	971.98	4.08	321.87	6.49	123.97	10 13 44	372.0	8.51	315.59
110.00	17 21 34	4778.06	32.27	200.37	12.20	78.05	18 41 12	4178.1	30.28	191.71

DIFFERENTIAL CORRECTIONS
TOE-1.2397 TRA .2872 TC3-5.7338 BAU .6505
RDE -.0449 RRA .0897 RC3 -.6373 FAU .13240
FDE-3.5449 FRA 1.7259 FC-13.5903 BSP 12953
BDE 1.2405 BRA .3008 BC3 5.7691 FSP -3096

MID-COURSE EXECUTION ACCURACY
SGT 4176.3 SGR 425.2 SG3 964.1
RRT .8811 RRF .8922 RTF .9786
SGB 4197.9 R23 .0591 R13 .9789
SGI 4193.1 SG2 200.3 THA 5.14

ORBIT DETERMINATION ACCURACY
ST 2454.5 SR 105.9 SS 2206.1
CRT .8782 CRS -.9130 CST -.9967
LSA 3298.9 MSA 140.8 SSA 11.1
EL1 2456.3 EL2 50.6 ALF 2.17

LAUNCH DATE JUN 3 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 18 1967

HELIOCENTRIC CONIC DISTANCE 468.004

RL 151.74 LAL -.00 LOL 251.75 VL 26.829 GAL 1.37 AZL 92.95 HCA 212.41 SMA 128.92 ECC .17859 INC 2.9516 V1 29.361
RP 107.56 LAP 1.58 LOP 104.13 VP 37.926 GAP 3.87 AZP 87.51 TAL 173.69 TAP 26.11 RCA 105.89 APO 151.94 V2 35.233
RC 112.475 GL -27.94 GP -5.18 ZAL 82.48 ZAP 135.48 ETS 355.76 ZAE 139.79 ETE 184.65 ZAC 117.36 ETC 14.40 CLP-135.71

PLANETOCENTRIC CONIC

C3 8.687 VHL 2.947 DLA -21.75 RAL 159.63 RAD 6567.3 VEL 11.405 PTH 1.97 VHP 3.746 DPA 10.16 RAP 149.99 ECC 1.1430

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 27 17	1280.10	8.75	347.52	10.80	117.04	8 48 37	680.1	12.31	340.64
90.00	14 4 16	5433.13	28.15	249.98	15.09	86.79	15 34 49	4833.1	27.41	241.40
100.00	9 33 24	1066.72	7.59	331.21	10.18	119.00	9 51 11	466.7	11.40	324.49
100.00	15 40 50	5121.74	29.46	226.96	14.98	84.69	17 6 12	4521.7	28.41	218.32
110.00	10 9 50	952.51	4.82	320.85	8.47	123.88	10 25 43	352.5	9.23	314.55
110.00	17 20 53	4808.72	32.68	202.66	14.45	79.35	18 41 2	4208.7	30.86	193.91

DIFFERENTIAL CORRECTIONS
TOE-1.3447 TRA .3565 TC3-5.8383 BAU .6814
RDE -.0238 RRA .0902 RC3 -.5790 FAU .12218
FDE-3.3992 FRA 1.7312 FC-12.1763 BSP 13628
BDE 1.3449 BRA .3677 BC3 5.8669 FSP -2891

MID-COURSE EXECUTION ACCURACY
SGT 4385.6 SGR 392.8 SG3 899.2
RRT .8338 RRF .8413 RTF .9789
SGB 4403.2 R23 .0419 R13 .9790
SGI 4397.9 SG2 216.2 THA 4.28

ORBIT DETERMINATION ACCURACY
ST 2625.6 SR 73.8 SS 2168.4
CRT .6941 CRS -.7463 CST -.9970
LSA 3403.1 MSA 139.5 SSA 12.1
EL1 2626.1 EL2 53.1 ALF 1.12

LAUNCH DATE JUN 3 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 20 1967

HELIOCENTRIC CONIC DISTANCE 474.152

RL 151.74 LAL -.00 LOL 251.75 VL 26.807 GAL 1.56 AZL 93.00 HCA 215.66 SMA 128.77 ECC .18039 INC 3.0012 V1 29.361
RP 107.54 LAP 1.75 LOP 107.37 VP 37.916 GAP 4.25 AZP 87.56 TAL 172.88 TAP 28.54 RCA 105.54 APO 152.00 V2 35.239
RC 114.720 GL -27.96 GP -4.57 ZAL 80.85 ZAP 138.32 ETS 355.86 ZAE 138.12 ETE 183.95 ZAC 116.79 ETC 14.66 CLP-138.52

PLANETOCENTRIC CONIC

C3 8.957 VHL 2.993 DLA -22.45 RAL 161.21 RAD 6567.3 VEL 11.417 PTH 1.98 VHP 3.895 DPA 10.59 RAP 150.61 ECC 1.1474

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 42 50	1252.82	9.59	345.95	13.02	116.77	9 3 43	652.8	13.11	339.04
90.00	14 1 21	5472.10	28.27	252.83	17.37	88.21	15 32 33	4872.1	27.72	244.20
100.00	9 47 45	1043.29	8.36	329.90	12.36	118.80	10 5 8	443.3	12.14	323.15
100.00	15 39 7	5156.86	29.65	229.56	17.29	86.04	17 5 4	4556.9	28.79	220.86
110.00	10 22 9	935.43	5.47	319.95	10.59	123.80	10 37 45	335.4	9.87	313.63
110.00	17 21 12	4837.49	33.02	204.84	16.83	80.60	18 41 50	4237.5	31.37	196.00

DIFFERENTIAL CORRECTIONS
TOE-1.4459 TRA .4335 TC3-5.9074 BAU .7103
RDE -.0045 RRA .0917 RC3 -.5338 FAU .11262
FDE-3.2490 FRA 1.7367 FC-10.8855 BSP 14271
BDE 1.4459 BRA .4431 BC3 5.9315 FSP -2703

MID-COURSE EXECUTION ACCURACY
SGT 4579.5 SGR 371.8 SG3 838.1
RRT .7779 RRF .7817 RTF .9790
SGB 4594.6 R23 .0290 R13 .9791
SGI 4588.7 SG2 233.2 THA 3.62

ORBIT DETERMINATION ACCURACY
ST 2783.3 SR 58.4 SS 2125.3
CRT .2488 CRS -.3185 CST -.9972
LSA 3499.7 MSA 138.1 SSA 13.1
EL1 2783.3 EL2 56.6 ALF .30

LAUNCH DATE JUN 3 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 22 1967

HELIOCENTRIC CONIC DISTANCE 480.279

RL 151.74 LAL -.00 LOL 251.75 VL 26.784 GAL 1.77 AZL 93.04 HCA 218.90 SMA 128.62 ECC .18234 INC 3.0436 V1 29.361
RP 107.52 LAP 1.91 LOP 110.62 VP 37.904 GAP 4.63 AZP 87.63 TAL 172.04 TAP 30.94 RCA 105.16 APO 152.07 V2 35.244
RC 116.961 GL -27.86 GP -4.08 ZAL 79.17 ZAP 140.95 ETS 355.94 ZAE 136.62 ETE 183.44 ZAC 116.06 ETC 14.83 CLP-141.13

PLANETOCENTRIC CONIC

C3 9.250 VHL 3.041 DLA -23.09 RAL 162.91 RAD 6567.3 VEL 11.430 PTH 1.98 VHP 4.051 DPA 10.85 RAP 151.38 ECC 1.1522

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 58 27	1227.51	10.36	344.49	15.37	116.50	9 18 55	627.5	13.84	337.54
90.00	13 59 15	5509.84	28.31	255.59	19.76	89.60	15 31 5	4909.8	27.96	246.94
100.00	10 2 8	1021.98	9.06	328.70	14.68	118.61	10 19 10	422.0	12.81	321.92
100.00	15 38 15	5190.61	29.79	232.06	19.72	87.35	17 4 46	4590.6	29.10	223.32
110.00	10 34 31	920.42	6.03	319.16	12.84	123.71	10 49 52	320.4	10.42	312.82
110.00	17 22 21	4864.93	33.30	206.93	19.32	81.80	18 43 26	4264.9	31.81	198.02

DIFFERENTIAL CORRECTIONS
TOE-1.5442 TRA .5175 TC3-5.9446 BAU .7377
RDE .0133 RRA .0939 RC3 -.4974 FAU .10380
FDE-3.0985 FRA 1.7401 FC3-9.7147 BSP 14876
BDE 1.5443 BRA .5259 BC3 5.9654 FSP -2527

MID-COURSE EXECUTION ACCURACY
SGT 4760.4 SGR 359.3 SG3 780.9
RRT .7160 RRF .7164 RTF .9791
SGB 4773.9 R23 .0192 R13 .9791
SGI 4767.3 SG2 250.5 THA 3.10

ORBIT DETERMINATION ACCURACY
ST 2928.4 SR 63.5 SS 2077.7
CRT -.2880 CRS .2201 CST -.9974
LSA 3588.6 MSA 136.7 SSA 14.0
EL1 2928.5 EL2 60.8 ALF 179.64

LAUNCH DATE JUN 3 1967 FLIGHT TIME 174.00 ARRIVAL DATE NOV 24 1967

HELIOCENTRIC CONIC DISTANCE 486.386

```
RL  151.74 LAL   -.00 LOL 251.75 VL  26.759 GAL   1.99 AZL  93.08 HCA 222.15 SMA 128.45 ECC .18446 INC 3.0803 V1  29.361
RP  107.51 LAP   2.07 LOP 113.86 VP  37.891 GAP   5.02 AZP  87.72 TAL 171.16 TAP  33.30 RCA 104.76 APO 152.15 V2  35.248
RC 119.197 GL  -27.68 GP   -3.67 ZAL  77.42 ZAP 143.41 ETS 355.99 ZAE 135.27 ETE 183.06 ZAC 115.18 ETC  14.94 CLP-143.57
```

PLANETOCENTRIC CONIC

```
C3   9.572 VHL  3.094 DLA -23.67 RAL 164.70 RAD 6567.3 VEL 11.444 PTH   1.99 VHP  4.213 DPA  10.96 RAP 152.30 ECC 1.1575
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 14 12	1203.92	11.07	343.13	17.86	116.23	9 34 16	603.9	14.51	336.14
90.00	13 57 49	5546.81	28.30	258.29	22.26	90.95	15 30 16	4946.8	28.13	249.63
100.00	10 16 35	1002.57	9.69	327.60	17.13	118.42	10 33 18	402.6	13.41	320.79
100.00	15 38 7	5223.40	29.86	234.49	22.25	88.63	17 5 11	4623.4	29.35	225.72
110.00	10 46 57	907.33	6.53	318.47	15.21	123.63	11 2 5	307.3	10.90	312.11
110.00	17 24 14	4891.40	33.54	208.96	21.94	82.98	18 45 46	4291.4	32.21	199.98

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.6364 TRA  .6133 TC3-5.9323 BAU  .7615   SGT 4918.9 SGR  352.8 SG3  726.2     ST  3055.2 SR    81.9 SS  2022.2
RDE  .0304 RRA  .0968 RC3 -.4655 FAU .09518   RRT  .6507 RRF  .6478 RTF  .9788    CRT -.5917 CRS  .5351 CST -.9975
FDE-2.9431 FRA 1.7526 FC3-8.6089 BSP  15368   SGB 4931.6 R23  .0119 R13  .9788    LSA 3662.2 MSA  136.1 SSA   14.9
BDE 1.6367 BRA  .6209 BC3 5.9505 FSP  -2348   SG1 4924.3 SG2  267.6 THA   2.68    EL1 3055.6 EL2   66.0 ALF 179.09
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 176.00 ARRIVAL DATE NOV 26 1967

HELIOCENTRIC CONIC DISTANCE 492.472

```
RL  151.74 LAL   -.00 LOL 251.75 VL  26.734 GAL   2.22 AZL  93.11 HCA 225.40 SMA 128.29 ECC .18675 INC 3.1129 V1  29.361
RP  107.50 LAP   2.22 LOP 117.10 VP  37.877 GAP   5.40 AZP  87.81 TAL 170.24 TAP  35.64 RCA 104.33 APO 152.25 V2  35.252
RC 121.426 GL  -27.41 GP   -3.32 ZAL  75.62 ZAP 145.70 ETS 356.00 ZAE 134.06 ETE 182.77 ZAC 114.15 ETC  14.99 CLP-145.84
```

PLANETOCENTRIC CONIC

```
C3   9.929 VHL  3.151 DLA -24.21 RAL 166.58 RAD 6567.4 VEL 11.459 PTH   1.99 VHP  4.382 DPA  10.96 RAP 153.35 ECC 1.1634
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 30 4	1181.98	11.73	341.85	20.46	115.96	9 49 46	582.0	15.13	334.82
90.00	13 56 58	5583.23	28.23	260.95	24.86	92.29	15 30 1	4983.2	28.25	252.29
100.00	10 31 4	985.04	10.25	326.61	19.69	118.23	10 47 29	385.0	13.95	319.77
100.00	15 38 39	5255.41	29.89	236.87	24.90	89.88	17 6 14	4655.4	29.56	228.08
110.00	10 59 25	896.13	6.95	317.88	17.69	123.55	11 14 21	296.1	11.31	311.50
110.00	17 26 47	4917.08	33.74	210.94	24.66	84.14	18 48 44	4317.1	32.56	201.90

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.7293 TRA  .7140 TC3-5.9004 BAU  .7854   SGT 5073.5 SGR  350.9 SG3  676.8     ST  3175.2 SR   104.3 SS  1969.3
RDE  .0468 RRA  .0999 RC3 -.4381 FAU .08759   RRT  .5857 RRF  .5797 RTF  .9786    CRT -.7278 CRS  .6805 CST -.9976
FDE-2.8007 FRA 1.7569 FC3-7.6374 BSP  15890   SGB 5085.6 R23  .0057 R13  .9787    LSA 3735.2 MSA  135.4 SSA   15.7
BDE 1.7299 BRA  .7209 BC3 5.9167 FSP  -2196   SG1 5077.6 SG2  284.2 THA   2.33    EL1 3176.1 EL2   71.5 ALF 178.63
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 178.00 ARRIVAL DATE NOV 28 1967

HELIOCENTRIC CONIC DISTANCE 498.535

```
RL  151.74 LAL   -.00 LOL 251.75 VL  26.708 GAL   2.47 AZL  93.14 HCA 228.64 SMA 128.12 ECC .18921 INC 3.1419 V1  29.361
RP  107.49 LAP   2.36 LOP 120.35 VP  37.861 GAP   5.78 AZP  87.92 TAL 169.30 TAP  37.94 RCA 103.87 APO 152.36 V2  35.255
RC 123.648 GL  -27.07 GP   -3.03 ZAL  73.77 ZAP 147.84 ETS 356.00 ZAE 132.98 ETE 182.55 ZAC 113.00 ETC  14.99 CLP-147.97
```

PLANETOCENTRIC CONIC

```
C3  10.327 VHL  3.214 DLA -24.69 RAL 168.54 RAD 6567.4 VEL 11.477 PTH   1.99 VHP  4.556 DPA  10.85 RAP 154.52 ECC 1.1700
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 46 0	1161.69	12.33	340.66	23.18	115.69	10 5 21	561.7	15.69	333.60
90.00	13 56 39	5619.25	28.11	263.58	27.56	93.60	15 30 18	5019.3	28.31	254.92
100.00	10 45 33	969.40	10.75	325.72	22.37	118.06	11 1 43	369.4	14.42	318.85
100.00	15 39 47	5286.77	29.87	239.20	27.64	91.11	17 7 53	4686.8	29.71	230.40
110.00	11 11 53	886.83	7.30	317.38	20.28	123.49	11 26 40	286.8	11.65	310.99
110.00	17 29 56	4942.11	33.89	212.88	27.49	85.27	18 52 19	4342.1	32.87	203.79

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.8192 TRA  .8245 TC3-5.8352 BAU  .8076   SGT 5215.7 SGR  352.2 SG3  631.2     ST  3281.5 SR   127.7 SS  1914.2
RDE  .0628 RRA  .1033 RC3 -.4128 FAU .08058   RRT  .5224 RRF  .5136 RTF  .9785    CRT -.7945 CRS  .7533 CST -.9977
FDE-2.6634 FRA 1.7637 FC3-6.7554 BSP  16369   SGB 5227.5 R23  .0008 R13  .9785    LSA 3798.7 MSA  135.3 SSA   16.3
BDE 1.8203 BRA  .8309 BC3 5.8497 FSP  -2055   SG1 5218.9 SG2  300.1 THA   2.03    EL1 3283.1 EL2   77.5 ALF 178.23
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 180.00 ARRIVAL DATE NOV 30 1967

HELIOCENTRIC CONIC DISTANCE 504.575

```
RL  151.74 LAL   -.00 LOL 251.75 VL  26.682 GAL   2.74 AZL  93.17 HCA 231.89 SMA 127.94 ECC .19186 INC 3.1682 V1  29.361
RP  107.48 LAP   2.49 LOP 123.60 VP  37.844 GAP   6.17 AZP  88.04 TAL 168.33 TAP  40.22 RCA 103.39 APO 152.49 V2  35.257
RC 125.861 GL  -26.66 GP   -2.77 ZAL  71.89 ZAP 149.86 ETS 355.96 ZAE 132.00 ETE 182.38 ZAC 111.73 ETC  14.96 CLP-149.97
```

PLANETOCENTRIC CONIC

```
C3  10.773 VHL  3.282 DLA -25.14 RAL 170.56 RAD 6567.4 VEL 11.496 PTH   2.00 VHP  4.737 DPA  10.66 RAP 155.80 ECC 1.1773
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 1 56	1143.15	12.88	339.58	26.02	115.44	10 21 0	543.2	16.20	332.47
90.00	13 56 51	5654.90	27.93	266.17	30.35	94.89	15 31 6	5054.9	28.31	257.53
100.00	10 59 58	955.79	11.19	324.94	25.15	117.90	11 15 54	355.8	14.84	318.05
100.00	15 41 30	5317.50	29.81	241.48	30.49	92.31	17 10 8	4717.5	29.81	232.68
110.00	11 24 17	879.51	7.57	316.99	22.98	123.43	11 38 57	279.5	11.92	310.59
110.00	17 33 40	4966.54	34.02	214.77	30.43	86.39	18 56 27	4366.5	33.14	205.64

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.9077 TRA  .9436 TC3-5.7381 BAU  .8283   SGT 5346.9 SGR  355.4 SG3  589.1     ST  3376.6 SR   151.0 SS  1859.:
RDE  .0788 RRA  .1067 RC3 -.3886 FAU .07406   RRT  .4615 RRF  .4499 RTF  .9782    CRT -.8309 CRS  .7940 CST -.9979
FDE-2.5343 FRA 1.7698 FC3-5.9520 BSP  16820   SGB 5358.7 R23 -.0035 R13  .9782    LSA 3855.1 MSA  135.7 SSA   16.8
BDE 1.9093 BRA  .9496 BC3 5.7512 FSP  -1925   SG1 5349.4 SG2  315.2 THA   1.76    EL1 3378.9 EL2   84.0 ALF 177.87
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 2 1967

HELIOCENTRIC CONIC DISTANCE 510.591

```
RL  151.74 LAL   -.00 LOL 251.75 VL  26.654 GAL   3.02 AZL  93.19 HCA 235.14 SMA 127.76 ECC .19471 INC 3.1922 V1  29.361
RP  107.48 LAP   2.62 LOP 126.85 VP  37.826 GAP   6.56 AZP  88.17 TAL 167.33 TAP  42.47 RCA 102.88 APO 152.63 V2  35.258
RC 128.066 GL  -26.20 GP   -2.56 ZAL  69.98 ZAP 151.75 ETS 355.90 ZAE 131.13 ETE 182.24 ZAC 110.36 ETC  14.90 CLP-151.86
```

PLANETOCENTRIC CONIC

```
C3  11.272 VHL  3.357 DLA -25.54 RAL 172.64 RAD 6567.4 VEL 11.518 PTH   2.01 VHP  4.923 DPA  10.38 RAP 157.17 ECC 1.1855
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 17 49	1126.55	13.36	338.60	28.95	115.20	10 36 36	526.5	16.65	331.46
90.00	13 57 33	5690.13	27.70	268.73	33.23	96.15	15 32 23	5090.1	28.26	260.11
100.00	11 14 15	944.34	11.55	324.29	28.02	117.76	11 29 59	344.3	15.18	317.38
100.00	15 43 48	5347.57	29.71	243.71	33.42	93.48	17 12 56	4747.6	29.87	234.91
110.00	11 36 35	874.26	7.77	316.72	25.76	123.39	11 51 9	274.3	12.11	310.31
110.00	17 37 58	4990.42	34.10	216.63	33.46	87.49	19 1 8	4390.4	33.38	207.47

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.9912 TRA 1.0754 TC3-5.6037 BAU  .8463   SGT 5462.8 SGR  360.2 SG3  549.5      ST  3454.3 SR   174.0 SS  1799.0
RDE  .0951 RRA  .1102 RC3 -.3647 FAU .06786   RRT  .4036 RRF  .3900 RTF  .9777     CRT -.8522 CRS  .8180 CST -.9979
FDE-2.4057 FRA 1.7813 FC3-5.2119 BSP  17174   SGB 5474.7 R23 -.0067 R13  .9777     LSA 3896.2 MSA  137.2 SSA   17.2
BDE 1.9935 BRA 1.0810 BC3 5.6155 FSP  -1796   SG1 5464.8 SG2  329.4 THA   1.53     EL1 3457.5 EL2   91.0 ALF 177.54
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 4 1967

HELIOCENTRIC CONIC DISTANCE 516.581

```
RL  151.74 LAL   -.00 LOL 251.75 VL  26.626 GAL   3.32 AZL  93.21 HCA 238.39 SMA 127.58 ECC .19776 INC 3.2144 V1  29.361
RP  107.48 LAP   2.74 LOP 130.10 VP  37.807 GAP   6.95 AZP  88.31 TAL 166.31 TAP  44.69 RCA 102.35 APO 152.80 V2  35.259
RC 130.261 GL  -25.68 GP   -2.37 ZAL  68.04 ZAP 153.54 ETS 355.82 ZAE 130.34 ETE 182.13 ZAC 108.89 ETC  14.81 CLP-153.64
```

PLANETOCENTRIC CONIC

```
C3  11.833 VHL  3.440 DLA -25.89 RAL 174.76 RAD 6567.5 VEL 11.542 PTH   2.01 VHP  5.116 DPA  10.03 RAP 158.63 ECC 1.1947
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 33 30	1112.14	13.78	337.74	31.96	114.99	10 52 2	512.1	17.03	330.58
90.00	13 58 47	5724.78	27.42	271.22	36.18	97.37	15 34 12	5124.8	28.15	262.64
100.00	11 28 16	935.29	11.84	323.77	30.98	117.65	11 43 51	335.3	15.45	316.84
100.00	15 46 42	5376.87	29.57	245.88	36.44	94.61	17 16 19	4776.9	29.89	237.09
110.00	11 48 41	871.21	7.88	316.55	28.62	123.37	12 3 13	271.2	12.22	310.14
110.00	17 42 47	5013.71	34.16	218.45	36.59	88.56	19 6 20	4413.7	33.58	209.26

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.0760 TRA 1.2143 TC3-5.4517 BAU  .8642   SGT 5574.9 SGR  365.8 SG3  513.7      ST  3524.8 SR   196.2 SS  1742.6
RDE  .1114 RRA  .1135 RC3 -.3414 FAU .06232   RRT  .3490 RRF  .3332 RTF  .9774     CRT -.8656 CRS  .8336 CST -.9980
FDE-2.2898 FRA 1.7887 FC3-4.5591 BSP  17566   SGB 5586.9 R23 -.0097 R13  .9774     LSA 3934.4 MSA  138.9 SSA   17.5
BDE 2.0790 BRA 1.2196 BC3 5.4624 FSP  -1686   SG1 5576.3 SG2  342.7 THA   1.32     EL1 3528.9 EL2   98.1 ALF 177.24
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 6 1967

HELIOCENTRIC CONIC DISTANCE 522.545

```
RL  151.74 LAL   -.00 LOL 251.75 VL  26.597 GAL   3.63 AZL  93.24 HCA 241.63 SMA 127.39 ECC .20103 INC 3.2352 V1  29.361
RP  107.48 LAP   2.85 LOP 133.35 VP  37.787 GAP   7.35 AZP  88.46 TAL 165.26 TAP  46.90 RCA 101.78 APO 153.00 V2  35.259
RC 132.447 GL  -25.11 GP   -2.20 ZAL  66.09 ZAP 155.24 ETS 355.71 ZAE 129.63 ETE 182.04 ZAC 107.34 ETC  14.71 CLP-155.34
```

PLANETOCENTRIC CONIC

```
C3  12.464 VHL  3.531 DLA -26.20 RAL 176.92 RAD 6567.5 VEL 11.569 PTH   2.02 VHP  5.315 DPA   9.62 RAP 160.16 ECC 1.2051
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 48 53	1100.22	14.12	337.03	35.06	114.80	11 7 13	500.2	17.35	329.85
90.00	14 0 36	5758.67	27.10	273.65	39.20	98.55	15 36 35	5158.7	28.00	265.10
100.00	11 41 57	928.85	12.04	323.40	34.01	117.57	11 57 25	328.9	15.64	316.46
100.00	15 50 13	5405.27	29.39	247.97	39.53	95.70	17 20 18	4805.3	29.87	239.20
110.00	12 0 33	870.48	7.91	316.51	31.55	123.36	12 15 3	270.5	12.25	310.10
110.00	17 48 6	5036.41	34.18	220.22	39.79	89.61	19 12 3	4436.4	33.75	211.01

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.1602 TRA 1.3626 TC3-5.2795 BAU  .8814   SGT 5679.9 SGR  371.7 SG3  480.8      ST  3584.6 SR   217.6 SS  1686.9
RDE  .1282 RRA  .1165 RC3 -.3182 FAU .05727   RRT  .2972 RRF  .2797 RTF  .9771     CRT -.8744 CRS  .8441 CST -.9981
FDE-2.1817 FRA 1.7955 FC3-3.9777 BSP  17948   SGB 5692.1 R23 -.0124 R13  .9771     LSA 3965.1 MSA  141.3 SSA   17.6
BDE 2.1640 BRA 1.3676 BC3 5.2891 FSP  -1586   SG1 5681.0 SG2  354.9 THA   1.12     EL1 3589.6 EL2  105.4 ALF 176.96
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 8 1967

HELIOCENTRIC CONIC DISTANCE 528.480

```
RL  151.74 LAL   -.00 LOL 251.75 VL  26.568 GAL   3.97 AZL  93.25 HCA 244.88 SMA 127.20 ECC .20453 INC 3.2546 V1  29.361
RP  107.48 LAP   2.95 LOP 136.60 VP  37.765 GAP   7.76 AZP  88.62 TAL 164.20 TAP  49.08 RCA 101.18 APO 153.21 V2  35.258
RC 134.624 GL  -24.49 GP   -2.06 ZAL  64.13 ZAP 156.86 ETS 355.57 ZAE 128.99 ETE 181.96 ZAC 105.72 ETC  14.60 CLP-156.95
```

PLANETOCENTRIC CONIC

```
C3  13.174 VHL  3.630 DLA -26.47 RAL 179.09 RAD 6567.5 VEL 11.600 PTH   2.03 VHP  5.521 DPA   9.15 RAP 161.75 ECC 1.2168
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 3 47	1091.17	14.38	336.49	38.22	114.66	11 21 59	491.2	17.58	329.29
90.00	14 3 2	5791.51	26.75	275.99	42.29	99.67	15 39 34	5191.5	27.81	267.49
100.00	11 55 10	925.26	12.16	323.19	37.10	117.52	12 10 35	325.3	15.75	316.24
100.00	15 54 21	5432.65	29.19	249.98	42.69	96.74	17 24 54	4832.6	29.82	241.24
110.00	12 12 4	872.18	7.85	316.60	34.53	123.38	12 26 37	272.2	12.18	310.19
110.00	17 53 56	5058.50	34.18	221.95	43.07	90.63	19 18 14	4458.5	33.89	212.72

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.2423 TRA 1.5225 TC3-5.0827 BAU  .8967   SGT 5775.0 SGR  377.8 SG3  450.3      ST  3631.8 SR   238.3 SS  1631.0
RDE  .1455 RRA  .1191 RC3 -.2950 FAU .05252   RRT  .2479 RRF  .2288 RTF  .9768     CRT -.8801 CRS  .8511 CST -.9982
FDE-2.0792 FRA 1.8039 FC3-3.4515 BSP  18283   SGB 5787.3 R23 -.0147 R13  .9768     LSA 3985.7 MSA  144.3 SSA   17.6
BDE 2.2470 BRA 1.5271 BC3 5.0912 FSP  -1492   SG1 5775.7 SG2  366.0 THA    .93     EL1 3637.8 EL2  113.0 ALF 176.69
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 10 1967

HELIOCENTRIC CONIC DISTANCE 534.386

```
RL  151.74 LAL   -.00 LOL 251.75 VL  26.538 GAL   4.32 AZL  93.27 HCA 248.13 SMA 127.01 ECC .20828 INC 3.2731 V1  29.361
RP  107.48 LAP   3.04 LOP 139.85 VP  37.743 GAP   8.18 AZP  88.78 TAL 163.12 TAP  51.25 RCA 100.55 APO 153.46 V2  35.256
RC 136.791 GL  -23.84 GP   -1.93 ZAL  62.17 ZAP 158.40 ETS 355.41 ZAE 128.41 ETE 181.89 ZAC 104.03 ETC  14.48 CLP-158.48
```

PLANETOCENTRIC CONIC

```
C3  13.974 VHL  3.738 DLA -26.69 RAL 181.28 RAD 6567.6 VEL 11.634 PTH   2.04 VHP  5.735 DPA   8.63 RAP 163.41 ECC 1.2300
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 18 5	1085.39	14.54	336.15	41.43	114.57	11 36 10	485.4	17.74	328.93
90.00	14 6 12	5822.97	26.37	278.22	45.44	100.72	15 43 15	5223.0	27.58	269.76
100.00	12 7 49	924.75	12.17	323.16	40.25	117.51	12 23 14	324.8	15.76	316.21
100.00	15 59 9	5458.85	28.97	251.90	45.92	97.72	17 30 8	4858.8	29.73	243.18
110.00	12 23 13	876.40	7.69	316.83	37.57	123.41	12 37 49	276.4	12.03	310.42
110.00	18 0 14	5079.97	34.15	223.63	46.41	91.62	19 24 54	4480.0	34.00	214.38

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.3196 TRA 1.6968 TC3-4.8589 BAU  .9091   SGT 5857.4 SGR  383.9 SG3  421.8      ST  3662.5 SR   258.4 SS  1572.4
RDE  .1635 RRA  .1213 RC3 -.2716 FAU .04795   RRT  .2013 RRF  .1813 RTF  .9762     CRT -.8833 CRS  .8551 CST -.9983
FDE-1.9780 FRA 1.8165 FC3-2.9705 BSP  18519   SGB 5870.0 R23 -.0163 R13  .9762     LSA 3991.4 MSA  148.5 SSA   17.5
BDE 2.3253 BRA 1.7011 BC3 4.8665 FSP  -1396   SG1 5857.9 SG2  376.0 THA    .76     EL1 3669.6 EL2  120.9 ALF 176.43
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 12 1967

HELIOCENTRIC CONIC DISTANCE 540.258

```
RL  151.74 LAL   -.00 LOL 251.75 VL  26.508 GAL   4.69 AZL  93.29 HCA 251.38 SMA 126.81 ECC .21231 INC 3.2907 V1  29.361
RP  107.49 LAP   3.12 LOP 143.10 VP  37.720 GAP   8.60 AZP  88.95 TAL 162.03 TAP  53.40 RCA  99.89 APO 153.74 V2  35.254
RC 138.949 GL  -23.16 GP   -1.82 ZAL  60.23 ZAP 159.88 ETS 355.23 ZAE 127.89 ETE 181.83 ZAC 102.29 ETC  14.36 CLP-159.95
```

PLANETOCENTRIC CONIC

```
C3  14.874 VHL  3.857 DLA -26.87 RAL 183.47 RAD 6567.6 VEL 11.673 PTH   2.05 VHP  5.957 DPA   8.06 RAP 165.11 ECC 1.2448
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 31 34	1083.37	14.60	336.03	44.68	114.54	11 49 37	483.4	17.79	328.81
90.00	14 10 10	5852.66	25.97	280.30	48.64	101.69	15 47 43	5252.7	27.33	271.90
100.00	12 19 48	927.55	12.08	323.32	43.42	117.55	12 35 15	327.6	15.68	316.38
100.00	16 4 37	5483.71	28.73	253.71	49.20	98.65	17 36 1	4883.7	29.62	245.02
110.00	12 33 55	883.23	7.43	317.19	40.64	123.46	12 48 38	283.2	11.78	310.80
110.00	18 6 59	5100.80	34.10	225.25	49.82	92.58	19 32 0	4500.8	34.08	216.00

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.3996 TRA 1.8787 TC3-4.6309 BAU  .9222   SGT 5937.8 SGR  389.7 SG3  395.9      ST  3687.9 SR   277.4 SS  1518.2
RDE  .1821 RRA  .1229 RC3 -.2487 FAU .04390   RRT  .1561 RRF  .1353 RTF  .9759     CRT -.8855 CRS  .8582 CST -.9983
FDE-1.8879 FRA 1.8254 FC3-2.5549 BSP  18821   SGB 5950.6 R23 -.0179 R13  .9759     LSA 3994.9 MSA  152.7 SSA   17.3
BDE 2.4065 BRA 1.8827 BC3 4.6376 FSP  -1317   SG1 5938.1 SG2  384.9 THA    .59     EL1 3696.1 EL2  128.6 ALF 176.18
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 14 1967

HELIOCENTRIC CONIC DISTANCE 546.095

```
RL  151.74 LAL   -.00 LOL 251.75 VL  26.478 GAL   5.09 AZL  93.31 HCA 254.62 SMA 126.62 ECC .21662 INC 3.3077 V1  29.361
RP  107.50 LAP   3.19 LOP 146.35 VP  37.695 GAP   9.04 AZP  89.12 TAL 160.92 TAP  55.54 RCA  99.19 APO 154.05 V2  35.251
RC 141.095 GL  -22.44 GP   -1.72 ZAL  58.29 ZAP 161.29 ETS 355.01 ZAE 127.41 ETE 181.78 ZAC 100.48 ETC  14.23 CLP-161.37
```

PLANETOCENTRIC CONIC

```
C3  15.889 VHL  3.986 DLA -27.01 RAL 185.64 RAD 6567.6 VEL 11.716 PTH   2.06 VHP  6.187 DPA   7.45 RAP 166.86 ECC 1.2615
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 44 4	1085.55	14.54	336.16	47.96	114.57	12 2 9	485.6	17.73	328.94
90.00	14 15 3	5880.18	25.58	282.22	51.90	102.58	15 53 3	5280.2	27.06	273.86
100.00	12 31 1	933.83	11.89	323.69	46.62	117.63	12 46 35	333.8	15.49	316.75
100.00	16 10 46	5507.13	28.47	255.40	52.53	99.50	17 42 33	4907.1	29.49	246.75
110.00	12 44 7	892.73	7.08	317.70	43.74	123.53	12 59 0	292.7	11.44	311.32
110.00	18 14 10	5121.00	34.02	226.82	53.27	93.51	19 39 31	4521.0	34.14	217.58

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.4786 TRA 2.0729 TC3-4.3896 BAU  .9337   SGT 6010.3 SGR  395.0 SG3  371.8      ST  3702.8 SR   295.5 SS  1465.0
RDE  .2013 RRA  .1237 RC3 -.2260 FAU .04011   RRT  .1126 RRF  .0911 RTF  .9756     CRT -.8866 CRS  .8600 CST -.9984
FDE-1.8033 FRA 1.8354 FC3-2.1854 BSP  19097   SGB 6023.3 R23 -.0193 R13  .9755     LSA 3989.9 MSA  157.3 SSA   17.0
BDE 2.4868 BRA 2.0766 BC3 4.3954 FSP  -1243   SG1 6010.5 SG2  392.5 THA    .43     EL1 3712.1 EL2  136.3 ALF 175.95
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 16 1967

HELIOCENTRIC CONIC DISTANCE 551.894

```
RL  151.74 LAL   -.00 LOL 251.75 VL  26.447 GAL   5.51 AZL  93.32 HCA 257.87 SMA 126.42 ECC .22124 INC 3.3242 V1  29.361
RP  107.51 LAP   3.25 LOP 149.60 VP  37.670 GAP   9.49 AZP  89.30 TAL 159.80 TAP  57.66 RCA  98.45 APO 154.39 V2  35.247
RC 143.232 GL  -21.71 GP   -1.63 ZAL  56.38 ZAP 162.66 ETS 354.76 ZAE 126.97 ETE 181.72 ZAC  98.64 ETC  14.11 CLP-162.73
```

PLANETOCENTRIC CONIC

```
C3  17.033 VHL  4.127 DLA -27.10 RAL 187.80 RAD 6567.7 VEL 11.765 PTH   2.08 VHP  6.427 DPA   6.80 RAP 168.64 ECC 1.2803
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 55 25	1092.35	14.34	336.56	51.24	114.68	12 13 37	492.3	17.55	329.36
90.00	14 20 55	617.14	25.20	306.05	55.21	103.37	14 31 12	17.1	26.79	297.74
100.00	12 41 25	943.71	11.57	324.25	49.84	117.75	12 57 9	343.7	15.20	317.34
100.00	16 17 35	5529.04	28.22	256.98	55.92	100.30	17 49 44	4929.0	29.35	248.36
110.00	12 53 47	904.91	6.62	318.34	46.86	123.61	13 8 52	304.9	10.99	311.98
110.00	18 21 43	5140.62	33.93	228.35	56.78	94.41	19 47 24	4540.6	34.17	219.11

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.5570 TRA 2.2796 TC3-4.1403 BAU  .9439   SGT 6076.2 SGR  399.9 SG3  349.6      ST  3708.1 SR   312.6 SS  1413.3
RDE  .2213 RRA  .1237 RC3 -.2039 FAU .03659   RRT  .0703 RRF  .0485 RTF  .9752     CRT -.8870 CRS  .8610 CST -.9985
FDE-1.7243 FRA 1.8459 FC3-1.8599 BSP  19359   SGB 6089.3 R23 -.0204 R13  .9752     LSA 3977.3 MSA  162.2 SSA   16.7
BDE 2.5666 BRA 2.2830 BC3 4.1453 FSP  -1174   SG1 6076.2 SG2  398.9 THA    .27     EL1 3718.4 EL2  144.0 ALF 175.72
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 18 1967

HELIOCENTRIC CONIC DISTANCE 557.651

```
RL  151.74 LAL   -.00 LOL 251.75 VL  26.417 GAL   5.95 AZL  93.34 HCA 261.11 SMA 126.23 ECC .22620 INC 3.3403 V1  29.361
RP  107.53 LAP   3.30 LOP 152.85 VP  37.644 GAP   9.95 AZP  89.48 TAL 158.67 TAP  59.78 RCA  97.67 APO 154.78 V2  35.243
RC 145.356 GL  -20.96 GP   -1.55 ZAL  54.50 ZAP 163.97 ETS 354.47 ZAE 126.57 ETE 181.67 ZAC  96.75 ETC  14.00 CLP-164.05
```

PLANETOCENTRIC CONIC

```
C3  18.323 VHL  4.281 DLA -27.15 RAL 189.94 RAD 6567.7 VEL 11.820 PTH   2.09 VHP  6.678 DPA   6.12 RAP 170.46 ECC 1.3016
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 5 31	1104.04	14.01	337.26	54.51	114.86	12 23 55	504.0	17.25	330.08
90.00	14 27 50	639.38	24.84	307.58	58.56	104.05	14 38 29	39.4	26.53	299.31
100.00	12 50 57	957.25	11.14	325.03	53.06	117.92	13 6 54	357.3	14.79	318.14
100.00	16 25 5	5549.44	27.96	258.44	59.34	101.02	17 57 34	4949.4	29.20	249.86
110.00	13 2 53	919.77	6.06	319.13	49.99	123.71	13 18 13	319.8	10.45	312.78
110.00	18 29 38	5159.68	33.82	229.83	60.32	95.28	19 55 37	4559.7	34.18	220.60

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-2.6344 TRA 2.5003 TC3-3.8831 BAU  .9523    SGT 6134.5 SGR  404.3 SG3  329.0     ST  3703.7 SR   328.6 SS  1363.2
RDE  .2420 RRA  .1228 RC3 -.1825 FAU .03328    RRT  .0292 RRF  .0075 RTF  .9749    CRT -.8866 CRS  .8612 CST -.9985
FDE-1.6499 FRA 1.8580 FC3-1.5726 BSP  19585    SGB 6147.8 R23 -.0211 R13  .9749    LSA 3956.6 MSA  167.5 SSA   16.4
BDE 2.6455 BRA 2.5033 BC3 3.8874 FSP  -1109    SG1 6134.5 SG2  404.1 THA    .11    EL1 3715.1 EL2  151.5 ALF 175.49
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 20 1967

HELIOCENTRIC CONIC DISTANCE 563.362

```
RL  151.74 LAL   -.00 LOL 251.75 VL  26.386 GAL   6.42 AZL  93.36 HCA 264.36 SMA 126.03 ECC .23153 INC 3.3560 V1  29.361
RP  107.54 LAP   3.34 LOP 156.10 VP  37.618 GAP  10.43 AZP  89.67 TAL 157.53 TAP  61.89 RCA  96.85 APO 155.21 V2  35.237
RC 147.469 GL  -20.19 GP   -1.47 ZAL  52.66 ZAP 165.25 ETS 354.14 ZAE 126.20 ETE 181.62 ZAC  94.82 ETC  13.89 CLP-165.32
```

PLANETOCENTRIC CONIC

```
C3  19.781 VHL  4.448 DLA -27.17 RAL 192.03 RAD 6567.8 VEL 11.881 PTH   2.11 VHP  6.941 DPA   5.40 RAP 172.30 ECC 1.3255
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 14 17	1120.74	13.53	338.25	57.77	115.11	12 32 58	520.7	16.80	331.11
90.00	14 35 47	658.77	24.51	308.90	61.97	104.64	14 46 46	58.8	26.29	300.68
100.00	12 59 34	974.44	10.59	326.01	56.27	118.12	13 15 49	374.4	14.27	319.15
100.00	16 33 11	5568.35	27.71	259.79	62.80	101.69	18 5 59	4968.4	29.04	251.24
110.00	13 11 24	937.29	5.39	320.05	53.12	123.81	13 27 1	337.3	9.80	313.73
110.00	18 37 51	5178.26	33.70	231.26	63.89	96.12	20 4 9	4578.3	34.18	222.05

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-2.7087 TRA 2.7374 TC3-3.6176 BAU  .9576    SGT 6184.1 SGR  408.1 SG3  309.8     ST  3687.8 SR   343.4 SS  1313.2
RDE  .2634 RRA  .1208 RC3 -.1620 FAU .03009    RRT -.0106 RRF -.0317 RTF  .9746    CRT -.8854 CRS  .8603 CST -.9986
FDE-1.5780 FRA 1.8729 FC3-1.3169 BSP  19732    SGB 6197.5 R23  .0213 R13 -.9746    LSA 3925.8 MSA  173.1 SSA   16.0
BDE 2.7215 BRA 2.7400 BC3 3.6212 FSP  -1045    SG1 6184.1 SG2  408.1 THA 179.96    EL1 3700.3 EL2  159.1 ALF 175.28
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 22 1967

HELIOCENTRIC CONIC DISTANCE 569.022

```
RL  151.74 LAL   -.00 LOL 251.75 VL  26.354 GAL   6.92 AZL  93.37 HCA 267.60 SMA 125.83 ECC .23727 INC 3.3716 V1  29.361
RP  107.56 LAP   3.37 LOP 159.35 VP  37.590 GAP  10.93 AZP  89.86 TAL 156.39 TAP  64.00 RCA  95.98 APO 155.69 V2  35.231
RC 149.570 GL  -19.41 GP   -1.41 ZAL  50.85 ZAP 166.49 ETS 353.75 ZAE 125.85 ETE 181.57 ZAC  92.86 ETC  13.80 CLP-166.56
```

PLANETOCENTRIC CONIC

```
C3  21.428 VHL  4.629 DLA -27.14 RAL 194.09 RAD 6567.9 VEL 11.950 PTH   2.13 VHP  7.216 DPA   4.66 RAP 174.17 ECC 1.3527
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 21 43	1142.37	12.90	339.53	61.01	115.43	12 40 46	542.4	16.22	332.43
90.00	14 44 44	675.43	24.22	310.04	65.41	105.14	14 55 59	75.4	26.06	301.85
100.00	13 7 17	995.18	9.93	327.19	59.47	118.34	13 23 52	395.2	13.64	320.36
100.00	16 41 51	5585.89	27.46	261.04	66.29	102.30	18 14 57	4985.9	28.88	252.52
110.00	13 19 19	957.41	4.63	321.11	56.25	123.91	13 35 16	357.4	9.05	314.81
110.00	18 46 19	5196.42	33.56	232.66	67.49	96.94	20 12 55	4596.4	34.15	223.47

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-2.7866 TRA 2.9860 TC3-3.3577 BAU  .9628    SGT 6229.7 SGR  411.3 SG3  292.1     ST  3668.4 SR   356.8 SS  1267.4
RDE  .2855 RRA  .1177 RC3 -.1426 FAU .02720    RRT -.0502 RRF -.0707 RTF  .9744    CRT -.8842 CRS  .8596 CST -.9986
FDE-1.5140 FRA 1.8866 FC3-1.0991 BSP  19937    SGB 6243.3 R23  .0216 R13 -.9744    LSA 3893.5 MSA  178.4 SSA   15.6
BDE 2.8012 BRA 2.9883 BC3 3.3607 FSP   -989    SG1 6229.8 SG2  410.7 THA 179.81    EL1 3682.0 EL2  166.1 ALF 175.07
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 204.00 ARRIVAL DATE DEC 24 1967

HELIOCENTRIC CONIC DISTANCE 574.625

```
RL  151.74 LAL   -.00 LOL 251.75 VL  26.323 GAL   7.45 AZL  93.39 HCA 270.84 SMA 125.64 ECC .24344 INC 3.3871 V1  29.361
RP  107.58 LAP   3.39 LOP 162.60 VP  37.562 GAP  11.45 AZP  90.05 TAL 155.26 TAP  66.10 RCA  95.05 APO 156.22 V2  35.225
RC 151.657 GL  -18.63 GP   -1.35 ZAL  49.09 ZAP 167.70 ETS 353.30 ZAE 125.52 ETE 181.52 ZAC  90.88 ETC  13.71 CLP-167.77
```

PLANETOCENTRIC CONIC

```
C3  23.293 VHL  4.826 DLA -27.08 RAL 196.09 RAD 6567.9 VEL 12.028 PTH   2.15 VHP  7.506 DPA   3.90 RAP 176.06 ECC 1.3833
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 27 55	1168.61	12.13	341.07	64.21	115.78	12 47 23	568.6	15.50	334.02
90.00	14 54 32	689.66	23.96	311.00	68.89	105.55	15 6 2	89.7	25.87	302.85
100.00	13 14 7	1019.33	9.14	328.55	62.65	118.58	13 31 6	419.3	12.89	321.77
100.00	16 51 1	5602.21	27.22	262.19	69.81	102.86	18 24 23	5002.2	28.72	253.71
110.00	13 26 38	980.05	3.77	322.29	59.36	124.00	13 42 58	380.1	8.21	316.02
110.00	18 54 59	5214.25	33.40	234.03	71.11	97.73	20 21 54	4614.3	34.11	224.86

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-2.8651 TRA 3.2505 TC3-3.0991 BAU  .9659    SGT 6269.1 SGR  413.8 SG3  275.7     ST  3642.5 SR   368.9 SS  1223.8
RDE  .3084 RRA  .1132 RC3 -.1244 FAU .02448    RRT -.0893 RRF -.1089 RTF  .9743    CRT -.8826 CRS  .8584 CST -.9987
FDE-1.4545 FRA 1.9018 FC3 -.9100 BSP  20120    SGB 6282.8 R23  .0216 R13 -.9743    LSA 3855.8 MSA  183.5 SSA   15.3
BDE 2.8816 BRA 3.2525 BC3 3.1016 FSP   -937    SG1 6269.2 SG2  412.1 THA 179.66    EL1 3657.0 EL2  172.7 ALF 174.88
```

```
LAUNCH DATE  JUN  3 1967                          FLIGHT TIME 206.00                          ARRIVAL DATE  DEC 26 1967

  HELIOCENTRIC CONIC                              DISTANCE 580.165
   RL  151.74 LAL   -.00 LOL 251.75 VL  26.292 GAL   8.02 AZL  93.40 HCA 274.09 SMA 125.44 ECC .25010 INC 3.4027 VI  29.361
   RP  107.60 LAP   3.39 LOP 165.84 VP  37.533 GAP  12.00 AZP  90.24 TAL 154.12 TAP  68.21 RCA  94.07 APO 156.82 V2  35.217
   RC 153.730 GL  -17.85 GP   -1.30 ZAL  47.37 ZAP 168.88 ETS 352.78 ZAE 125.21 ETE 181.47 ZAC  88.87 ETC  13.64 CLP-168.96
  PLANETOCENTRIC CONIC
   C3  25.407 VHL  5.041 DLA -26.99 RAL 198.04 RAD 6568.0 VEL 12.115 PTH   2.17 VHP  7.813 DPA   3.11 RAP 177.96 ECC 1.4181
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00    12 32 57   1199.03      11.22     342.84      67.37     116.17   12 52 56     599.0      14.65     335.84
      90.00    15  5  3    701.89      23.74     311.83      72.41     105.91   15 16 45     101.9      25.69     303.70
     100.00    13 20  6   1046.69       8.25     330.09      65.80     118.83   13 37 33     446.7      12.03     323.35
     100.00    17  0 35   5617.50      26.98     263.26      73.34     103.38   18 34 12    5017.5      28.55     254.81
     110.00    13 33 21   1005.11       2.82     323.61      62.46     124.08   13 50  6     405.1       7.27     317.35
     110.00    19  3 50   5231.84      33.23     235.38      74.74      98.51   20 31  1    4631.8      34.05     226.23
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE-2.9439 TRA 3.5321 TC3-2.8432 BAU  .9664    SGT 6301.9 SGR  415.7 SG3  260.4         ST  3610.0 SR   379.5 SS  1182.4
   RDE  .3319 RRA  .1074 RC3 -.1075 FAU .02191    RRT -.1278 RRF -.1462 RTF  .9742         CRT -.8807 CRS  .8570 CST -.9988
   FDE-1.3990 FRA 1.9187 FC3 -.7465 BSP  20277    SGB 6315.6 R23  .0213 R13 -.9743         LSA 3812.9 MSA  188.5 SSA   14.9
   BDE 2.9625 BRA 3.5338 BC3 2.8452 FSP   -888    SG1 6302.1 SG2  412.3 THA 179.51         EL1 3625.4 EL2  179.0 ALF 174.70

LAUNCH DATE  JUN  3 1967                          FLIGHT TIME 208.00                          ARRIVAL DATE  DEC 28 1967

  HELIOCENTRIC CONIC                              DISTANCE 585.633
   RL  151.74 LAL   -.00 LOL 251.75 VL  26.261 GAL   8.62 AZL  93.42 HCA 277.33 SMA 125.25 ECC .25730 INC 3.4183 VI  29.361
   RP  107.63 LAP   3.39 LOP 169.09 VP  37.504 GAP  12.57 AZP  90.44 TAL 152.99 TAP  70.32 RCA  93.02 APO 157.47 V2  35.210
   RC 155.789 GL  -17.07 GP   -1.25 ZAL  45.71 ZAP 170.04 ETS 352.14 ZAE 124.91 ETE 181.41 ZAC  86.85 ETC  13.58 CLP-170.12
  PLANETOCENTRIC CONIC
   C3  27.809 VHL  5.273 DLA -26.86 RAL 199.93 RAD 6568.1 VEL 12.214 PTH   2.19 VHP  8.137 DPA   2.31 RAP 179.88 ECC 1.4577
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00    12 36 58   1233.12      10.19     344.82      70.50     116.56   12 57 31     633.1      13.68     337.87
      90.00    15 16  6    712.60      23.54     312.55      75.94     106.22   15 27 59     112.6      25.54     304.45
     100.00    13 25 17   1077.02       7.25     331.79      68.93     119.08   13 43 15     477.0      11.07     325.08
     100.00    17 10 28   5631.97      26.75     264.28      76.90     103.87   18 44 20    5032.0      28.39     255.86
     110.00    13 39 29   1032.48       1.77     325.04      65.55     124.14   13 56 41     432.5       6.24     318.80
     110.00    19 12 46   5249.28      33.05     236.70      78.38      99.28   20 40 15    4649.3      33.98     227.59
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE-3.0211 TRA 3.8347 TC3-2.5881 BAU  .9628    SGT 6327.5 SGR  417.0 SG3  246.2         ST  3569.9 SR   388.6 SS  1142.4
   RDE  .3560 RRA  .0999 RC3 -.0920 FAU .01938    RRT -.1655 RRF -.1821 RTF  .9742         CRT -.8783 CRS  .8548 CST -.9988
   FDE-1.3458 FRA 1.9392 FC3 -.6034 BSP  20344    SGB 6341.2 R23  .0206 R13 -.9742         LSA 3763.4 MSA  193.4 SSA   14.5
   BDE 3.0420 BRA 3.8360 BC3 2.5897 FSP   -837    SG1 6327.9 SG2  411.2 THA 179.37         EL1 3586.3 EL2  184.9 ALF 174.52

LAUNCH DATE  JUN  3 1967                          FLIGHT TIME 210.00                          ARRIVAL DATE  DEC 30 1967

  HELIOCENTRIC CONIC                              DISTANCE 591.019
   RL  151.74 LAL   -.00 LOL 251.75 VL  26.229 GAL   9.26 AZL  93.43 HCA 280.56 SMA 125.05 ECC .26509 INC 3.4342 VI  29.361
   RP  107.65 LAP   3.38 LOP 172.33 VP  37.474 GAP  13.17 AZP  90.63 TAL 151.87 TAP  72.44 RCA  91.90 APO 158.21 V2  35.201
   RC 157.834 GL  -16.30 GP   -1.20 ZAL  44.10 ZAP 171.19 ETS 351.36 ZAE 124.62 ETE 181.36 ZAC  84.81 ETC  13.54 CLP-171.27
  PLANETOCENTRIC CONIC
   C3  30.542 VHL  5.527 DLA -26.71 RAL 201.75 RAD 6568.2 VEL 12.325 PTH   2.22 VHP  8.482 DPA   1.49 RAP 181.80 ECC 1.5026
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00    12 40  6   1270.39       9.05     346.96      73.58     116.95   13  1 17     670.4      12.59     340.07
      90.00    15 27 32    722.23      23.35     313.19      79.49     106.49   15 39 34     122.2      25.39     305.11
     100.00    13 29 44   1110.09       6.15     333.63      72.02     119.31   13 48 14     510.1      10.01     326.96
     100.00    17 20 35   5645.80      26.52     265.24      80.45     104.32   18 54 41    5045.8      28.23     256.86
     110.00    13 45  2   1062.03        .64     326.58      68.61     124.18   14  2 45     462.0       5.12     320.36
     110.00    19 21 46   5266.63      32.85     238.02      82.03     100.03   20 49 33    4666.6      33.89     228.93
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE-3.1046 TRA 4.1526 TC3-2.3459 BAU  .9584    SGT 6348.9 SGR  417.6 SG3  233.0         ST  3529.3 SR   396.1 SS  1106.8
   RDE  .3808 RRA  .0908 RC3 -.0779 FAU .01710    RRT -.2034 RRF -.2185 RTF  .9744         CRT -.8762 CRS  .8531 CST -.9989
   FDE-1.2996 FRA 1.9594 FC3 -.4848 BSP  20484    SGB 6362.6 R23  .0198 R13 -.9745         LSA 3714.7 MSA  197.5 SSA   14.1
   BDE 3.1278 BRA 4.1536 BC3 2.3472 FSP   -795    SG1 6349.5 SG2  408.9 THA 179.23         EL1 3546.4 EL2  190.0 ALF 174.37

LAUNCH DATE  JUN  3 1967                          FLIGHT TIME 212.00                          ARRIVAL DATE  JAN  1 1968

  HELIOCENTRIC CONIC                              DISTANCE 596.311
   RL  151.74 LAL   -.00 LOL 251.75 VL  26.198 GAL   9.95 AZL  93.45 HCA 283.80 SMA 124.86 ECC .27354 INC 3.4504 VI  29.361
   RP  107.68 LAP   3.35 LOP 175.58 VP  37.444 GAP  13.81 AZP  90.82 TAL 150.77 TAP  74.57 RCA  90.71 APO 159.02 V2  35.192
   RC 159.863 GL  -15.53 GP   -1.16 ZAL  42.55 ZAP 172.32 ETS 350.37 ZAE 124.33 ETE 181.31 ZAC  82.77 ETC  13.52 CLP-172.40
  PLANETOCENTRIC CONIC
   C3  33.661 VHL  5.802 DLA -26.52 RAL 203.51 RAD 6568.3 VEL 12.451 PTH   2.25 VHP  8.850 DPA     .66 RAP 183.73 ECC 1.5540
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00    12 42 28   1310.37       7.81     349.24      76.62     117.31   13  4 19     710.4      11.41     342.41
      90.00    15 39 11    731.19      23.18     313.79      83.05     106.74   15 51 22     131.2      25.25     305.73
     100.00    13 33 29   1145.63       4.96     335.59      75.07     119.52   13 52 34     545.6       8.86     328.97
     100.00    17 30 51   5659.20      26.29     266.17      84.01     104.76   19  5 10    5059.2      28.06     257.82
     110.00    13 50  3   1093.63       -.57     328.22      71.64     124.18   14  8 16     493.6       3.92     322.02
     110.00    19 30 47   5283.97      32.64     239.33      85.67     100.78   20 58 51    4684.0      33.78     230.28
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE-3.1905 TRA 4.4919 TC3-2.1114 BAU  .9506    SGT 6364.7 SGR  417.6 SG3  220.7         ST  3485.0 SR   402.0 SS  1073.9
   RDE  .4062 RRA  .0799 RC3 -.0653 FAU .01493    RRT -.2410 RRF -.2542 RTF  .9748         CRT -.8739 CRS  .8513 CST -.9989
   FDE-1.2572 FRA 1.9823 FC3 -.3839 BSP  20601    SGB 6378.4 R23  .0189 R13 -.9748         LSA 3663.2 MSA  201.8 SSA   13.7
   BDE 3.2163 BRA 4.4926 BC3 2.1124 FSP   -755    SG1 6365.5 SG2  405.3 THA 179.09         EL1 3502.7 EL2  194.4 ALF 174.23
```

LAUNCH DATE JUN 3 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 3 1968

DISTANCE 601.496

HELIOCENTRIC CONIC
RL 151.74 LAL -.00 LOL 251.75 VL 26.167 GAL 10.69 AZL 93.47 HCA 287.03 SMA 124.67 ECC .28272 INC 3.4670 V1 29.361
RP 107.71 LAP 3.31 LOP 178.82 VP 37.413 GAP 14.49 AZP 91.02 TAL 149.68 TAP 76.72 RCA 89.43 APO 159.92 V2 35.183
RC 161.876 GL -14.76 GP -1.13 ZAL 41.07 ZAP 173.43 ETS 349.07 ZAE 124.05 ETE 181.25 ZAC 80.72 ETC 13.51 CLP-173.53

PLANETOCENTRIC CONIC
C3 37.230 VHL 6.102 DLA -26.31 RAL 205.20 RAD 6568.5 VEL 12.594 PTH 2.28 VHP 9.244 DPA -.18 RAP 185.67 ECC 1.6127

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 44 10	1352.65	6.48	351.64	79.62	117.63	13 6 43	752.6	10.13	344.86
90.00	15 50 55	739.81	23.01	314.36	86.60	106.98	16 3 14	139.8	25.12	306.53
100.00	13 36 34	1183.41	3.69	337.68	78.09	119.68	13 56 18	583.4	7.61	331.09
100.00	17 41 11	5672.32	26.06	267.08	87.57	105.19	19 15 44	5072.3	27.89	258.75
110.00	13 54 30	1127.14	-1.85	329.97	74.64	124.14	14 13 17	527.1	2.64	323.77
110.00	19 39 45	5301.35	32.41	240.63	89.29	101.52	21 8 7	4701.3	33.66	231.62

DIFFERENTIAL CORRECTIONS
TDE-3.2797 TRA 4.8539 TC3-1.8854 BAU .9388
RDE .4321 RRA .0671 RC3 -.0542 FAU .01284
FDE-1.2188 FRA 2.0079 FC3 -.2985 BSP 20692
BDE 3.3081 BRA 4.8543 BC3 1.8862 FSP -717

MID-COURSE EXECUTION ACCURACY
SGT 6374.4 SGR 417.0 SG3 209.3
RRT -.2784 RRF -.2895 RTF .9753
SGB 6388.0 R23 .0177 R13 -.9753
SG1 6375.5 SG2 400.5 THA 178.95

ORBIT DETERMINATION ACCURACY
ST 3437.5 SR 406.3 SS 1043.9
CRT -.8716 CRS .8494 CST -.9990
LSA 3609.6 MSA 204.2 SSA 13.3
EL1 3455.8 EL2 198.1 ALF 174.10

LAUNCH DATE JUN 3 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 5 1968

DISTANCE 606.557

HELIOCENTRIC CONIC
RL 151.74 LAL -.00 LOL 251.75 VL 26.136 GAL 11.48 AZL 93.48 HCA 290.27 SMA 124.48 ECC .29272 INC 3.4843 V1 29.361
RP 107.74 LAP 3.27 LOP 182.05 VP 37.382 GAP 15.21 AZP 91.21 TAL 148.63 TAP 78.89 RCA 88.05 APO 160.92 V2 35.172
RC 163.875 GL -14.01 GP -1.09 ZAL 39.64 ZAP 174.55 ETS 347.26 ZAE 123.76 ETE 181.20 ZAC 78.67 ETC 13.53 CLP-174.66

PLANETOCENTRIC CONIC
C3 41.326 VHL 6.429 DLA -26.08 RAL 206.80 RAD 6568.6 VEL 12.755 PTH 2.32 VHP 9.668 DPA -1.02 RAP 187.60 ECC 1.6801

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 45 17	1396.88	5.08	354.13	82.58	117.90	13 8 34	796.9	8.77	347.40
90.00	16 2 38	748.31	22.84	314.93	90.14	107.21	16 15 6	148.3	24.98	306.91
100.00	13 39 4	1223.18	2.35	339.87	81.07	119.81	13 59 27	623.2	6.30	333.31
100.00	17 51 32	5685.28	25.83	267.97	91.10	105.60	19 26 17	5085.3	27.72	259.68
110.00	13 58 26	1162.43	-3.20	331.82	77.62	124.05	14 17 48	562.4	1.29	325.61
110.00	19 48 40	5318.80	32.16	241.93	92.90	102.26	21 17 18	4718.8	33.52	232.96

DIFFERENTIAL CORRECTIONS
TDE-3.3697 TRA 5.2445 TC3-1.6655 BAU .9205
RDE .4584 RRA .0520 RC3 -.0446 FAU .01074
FDE-1.1826 FRA 2.0383 FC3 -.2251 BSP 20680
BDE 3.4007 BRA 5.2448 BC3 1.6661 FSP -678

MID-COURSE EXECUTION ACCURACY
SGT 6378.6 SGR 415.8 SG3 198.6
RRT -.3150 RRF -.3239 RTF .9759
SGB 6392.2 R23 .0161 R13 -.9759
SG1 6380.0 SG2 394.5 THA 178.82

ORBIT DETERMINATION ACCURACY
ST 3385.5 SR 408.8 SS 1015.9
CRT -.8689 CRS .8471 CST -.9990
LSA 3552.1 MSA 206.8 SSA 12.9
EL1 3404.1 EL2 201.2 ALF 173.99

LAUNCH DATE JUN 3 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 7 1968

DISTANCE 611.472

HELIOCENTRIC CONIC
RL 151.74 LAL -.00 LOL 251.75 VL 26.106 GAL 12.34 AZL 93.50 HCA 293.50 SMA 124.30 ECC .30364 INC 3.5022 V1 29.361
RP 107.78 LAP 3.21 LOP 185.29 VP 37.351 GAP 15.99 AZP 91.40 TAL 147.60 TAP 81.10 RCA 86.56 APO 162.04 V2 35.162
RC 165.860 GL -13.27 GP -1.06 ZAL 38.29 ZAP 175.65 ETS 344.56 ZAE 123.46 ETE 181.14 ZAC 76.63 ETC 13.56 CLP-175.78

PLANETOCENTRIC CONIC
C3 46.045 VHL 6.786 DLA -25.82 RAL 208.33 RAD 6568.7 VEL 12.939 PTH 2.36 VHP 10.125 DPA -1.87 RAP 189.53 ECC 1.7578

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 45 51	1442.78	3.61	356.71	85.49	118.11	13 9 54	842.8	7.34	350.02
90.00	16 14 15	756.85	22.66	315.50	93.65	107.45	16 26 52	156.9	24.84	307.50
100.00	13 41 0	1264.74	.94	342.15	84.01	119.88	14 2 4	664.7	4.91	335.61
100.00	18 1 48	5698.16	25.59	268.85	94.62	106.01	19 36 46	5098.2	27.54	260.59
110.00	14 1 50	1199.36	-4.60	333.75	80.56	123.91	14 21 49	599.4	-.12	327.54
110.00	19 57 27	5336.31	31.90	243.23	96.48	102.98	21 26 24	4736.3	33.36	234.31

DIFFERENTIAL CORRECTIONS
TDE-3.4701 TRA 5.6572 TC3-1.4613 BAU .8998
RDE .4853 RRA .0348 RC3 -.0364 FAU .00883
FDE-1.1527 FRA 2.0700 FC3 -.1661 BSP 20765
BDE 3.5039 BRA 5.6573 BC3 1.4618 FSP -645

MID-COURSE EXECUTION ACCURACY
SGT 6377.8 SGR 414.0 SG3 188.7
RRT -.3520 RRF -.3588 RTF .9767
SGB 6391.3 R23 .0146 R13 -.9767
SG1 6379.5 SG2 387.4 THA 178.69

ORBIT DETERMINATION ACCURACY
ST 3335.1 SR 409.9 SS 992.3
CRT -.8668 CRS .8455 CST -.9991
LSA 3497.4 MSA 208.2 SSA 12.5
EL1 3354.1 EL2 203.2 ALF 173.90

LAUNCH DATE JUN 3 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 9 1968

DISTANCE 616.216

HELIOCENTRIC CONIC
RL 151.74 LAL -.00 LOL 251.75 VL 26.076 GAL 13.27 AZL 93.52 HCA 296.73 SMA 124.12 ECC .31560 INC 3.5211 V1 29.361
RP 107.81 LAP 3.14 LOP 188.52 VP 37.320 GAP 16.83 AZP 91.59 TAL 146.61 TAP 83.34 RCA 84.95 APO 163.29 V2 35.151
RC 167.829 GL -12.54 GP -1.04 ZAL 37.00 ZAP 176.75 ETS 340.04 ZAE 123.15 ETE 181.08 ZAC 74.60 ETC 13.62 CLP-176.92

PLANETOCENTRIC CONIC
C3 51.502 VHL 7.177 DLA -25.54 RAL 209.78 RAD 6568.9 VEL 13.148 PTH 2.40 VHP 10.620 DPA -2.71 RAP 191.45 ECC 1.8476

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 45 56	1490.10	2.09	359.35	88.35	118.25	13 10 46	890.1	5.85	352.69
90.00	16 25 43	765.51	22.49	316.07	97.13	107.68	16 38 28	165.5	24.69	308.09
100.00	13 42 22	1307.88	-.53	344.51	86.90	119.89	14 4 10	707.9	3.46	337.99
100.00	18 11 58	5711.00	25.34	269.73	98.09	106.41	19 47 9	5111.0	27.35	261.50
110.00	14 4 43	1237.78	-6.06	335.77	83.47	123.71	14 25 21	637.8	-1.59	329.54
110.00	20 6 7	5353.86	31.63	244.53	100.01	103.70	21 35 21	4753.9	33.19	235.65

DIFFERENTIAL CORRECTIONS
TDE-3.5773 TRA 6.1004 TC3-1.2676 BAU .8730
RDE .5126 RRA .0151 RC3 -.0294 FAU .00697
FDE-1.1268 FRA 2.1060 FC3 -.1171 BSP 20831
BDE 3.6138 BRA 6.1005 BC3 1.2680 FSP -614

MID-COURSE EXECUTION ACCURACY
SGT 6372.0 SGR 411.7 SG3 179.4
RRT -.3888 RRF -.3934 RTF .9777
SGB 6385.3 R23 .0129 R13 -.9777
SG1 6374.0 SG2 379.2 THA 178.56

ORBIT DETERMINATION ACCURACY
ST 3283.6 SR 409.3 SS 971.8
CRT -.8649 CRS .8441 CST -.9991
LSA 3442.4 MSA 208.8 SSA 12.1
EL1 3302.7 EL2 204.3 ALF 173.82

LAUNCH DATE JUN 4 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 13 1967

HELIOCENTRIC CONIC DISTANCE 149.878

RL	151.76	LAL	-.00	LOL	252.71	VL	20.594	GAL	6.39	AZL	93.24	HCA	56.43	SMA	100.17	ECC	.52377	INC	3.2427	V1	29.357
RP	108.94	LAP	-2.70	LOP	309.10	VP	33.340	GAP	-31.22	AZP	91.79	TAL	174.13	TAP	230.56	RCA	47.71	APO	152.64	V2	34.784
RC	49.035	GL	-7.21	GP	.41	ZAL	77.20	ZAP	19.95	ETS	182.13	ZAE	162.62	ETE	146.30	ZAC	115.33	ETC	16.99	CLP	19.94

PLANETOCENTRIC CONIC

C3	85.129	VHL	9.227	DLA	-4.87	RAL	173.11	RAD	6569.7	VEL	14.369	PTH	2.61	VHP	18.395	DPA	15.22	RAP	152.50	ECC	2.4010

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 42 54	2418.13	-23.93	54.80	57.66	105.61	7 23 12	1818.1	-21.56	46.93
90.00	17 28 20	5365.09	27.79	245.04	62.00	84.34	18 57 45	4765.1	26.72	236.54
100.00	8 1 57	2163.12	-25.37	35.60	57.20	106.37	8 38 0	1563.1	-22.88	27.68
100.00	18 51 58	5095.33	29.28	225.02	61.83	83.68	20 16 53	4495.3	28.09	216.42
110.00	9 4 56	1965.91	-29.24	19.26	55.83	108.55	9 37 42	1365.9	-26.43	11.20
110.00	20 5 28	4865.30	33.31	206.96	61.23	81.82	21 26 33	4265.3	31.82	198.05

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TOE	.4974	TRA	-1.1676	TC3	-.0680	BAU	.0926	SGT	800.5	SGR	443.6	SG3	40.4	ST	378.3	SR	395.2
RDE	-.6296	RRA	-.3092	RC3	.0446	FAU	.01605	RRT	.0257	RRF	-.0243	RTF	-.6415	CRT	-.7234	CRS	-.8397
FDE	-.3177	FRA	.4780	FC3	-.1632	BSP	2103	SGB	915.1	R23	-.0005	R13	-.6415	LSA	610.8	MSA	211.5
BDE	.8024	BRA	1.2079	BC3	.0813	FSP	-85	SG1	800.6	SG2	443.3	THA	1.18	EL1	507.9	EL2	203.2

SS	344.5	CST	.9807
SSA	14.1	ALF	133.27

LAUNCH DATE JUN 4 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 15 1967

HELIOCENTRIC CONIC DISTANCE 156.207

RL	151.76	LAL	-.00	LOL	252.71	VL	21.122	GAL	6.10	AZL	93.26	HCA	59.59	SMA	101.87	ECC	.49853	INC	3.2594	V1	29.357
RP	108.94	LAP	-2.81	LOP	312.26	VP	33.668	GAP	-29.66	AZP	91.65	TAL	173.79	TAP	233.38	RCA	51.08	APO	152.65	V2	34.784
RC	47.750	GL	-7.88	GP	.42	ZAL	76.73	ZAP	18.36	ETS	182.19	ZAE	163.96	ETE	140.94	ZAC	113.81	ETC	16.70	CLP	18.36

PLANETOCENTRIC CONIC

C3	75.777	VHL	8.705	DLA	-5.69	RAL	173.29	RAD	6569.5	VEL	14.040	PTH	2.56	VHP	17.550	DPA	14.70	RAP	154.04	ECC	2.2471

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 49 50	2365.80	-22.93	51.29	55.67	107.09	7 29 16	1765.8	-20.37	43.55
90.00	17 22 52	5364.21	27.79	244.97	60.57	84.31	18 52 16	4764.2	26.71	236.47
100.00	8 8 29	2112.08	-24.34	32.15	55.18	107.91	8 43 41	1512.1	-21.67	24.38
100.00	18 46 54	5093.16	29.26	224.86	60.39	83.60	20 11 47	4493.2	28.07	216.26
110.00	9 10 34	1917.72	-28.15	15.93	53.72	110.24	9 42 32	1317.7	-25.13	8.06
110.00	20 1 19	4860.29	33.26	206.58	59.78	81.60	21 22 19	4260.3	31.74	197.68

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TOE	.4973	TRA	-1.1526	TC3	-.0626	BAU	.0818	SGT	836.8	SGR	447.4	SG3	44.2	ST	399.3	SR	397.5
RDE	-.5975	RRA	-.2932	RC3	.0510	FAU	.01655	RRT	.0253	RRF	-.0245	RTF	-.6619	CRT	-.7271	CRS	-.8445
FDE	-.3344	FRA	.4905	FC3	-.1890	BSP	2249	SGB	948.9	R23	-.0011	R13	-.6619	LSA	636.1	MSA	214.8
BDE	.7774	BRA	1.1893	BC3	.0808	FSP	-95	SG1	836.9	SG2	447.2	THA	1.08	EL1	523.6	EL2	208.1

SS	365.2	CST	.9801
SSA	14.3	ALF	135.18

LAUNCH DATE JUN 4 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 17 1967

HELIOCENTRIC CONIC DISTANCE 162.593

RL	151.76	LAL	-.00	LOL	252.71	VL	21.612	GAL	5.80	AZL	93.28	HCA	62.75	SMA	103.53	ECC	.47441	INC	3.2751	V1	29.357
RP	108.94	LAP	-2.91	LOP	315.42	VP	33.978	GAP	-28.18	AZP	91.50	TAL	173.50	TAP	236.25	RCA	54.41	APO	152.64	V2	34.785
RC	46.594	GL	-8.60	GP	.44	ZAL	76.35	ZAP	16.79	ETS	182.29	ZAE	165.27	ETE	134.26	ZAC	112.28	ETC	16.42	CLP	16.78

PLANETOCENTRIC CONIC

C3	67.524	VHL	8.217	DLA	-6.50	RAL	173.38	RAD	6569.3	VEL	13.743	PTH	2.51	VHP	16.739	DPA	14.17	RAP	155.58	ECC	2.1113

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 56 22	2313.00	-21.83	47.81	53.61	108.50	7 34 55	1713.0	-19.10	40.20
90.00	17 16 59	5362.75	27.78	244.87	58.98	84.26	18 46 22	4762.8	26.69	236.37
100.00	8 14 37	2060.58	-23.22	28.74	53.09	109.37	8 48 58	1460.6	-20.37	21.10
100.00	18 41 26	5090.41	29.24	224.66	58.80	83.50	20 6 16	4490.4	28.03	216.07
110.00	9 15 47	1869.07	-26.96	12.65	51.54	111.86	9 46 56	1269.1	-23.75	4.96
110.00	19 56 45	4854.68	33.20	206.15	58.19	81.35	21 17 40	4254.7	31.65	197.26

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TOE	.4980	TRA	-1.1362	TC3	-.0544	BAU	.0719	SGT	874.3	SGR	450.5	SG3	48.5	ST	421.6	SR	399.1
RDE	-.5662	RRA	-.2775	RC3	.0582	FAU	.01710	RRT	.0245	RRF	-.0244	RTF	-.6817	CRT	-.7316	CRS	-.8496
FDE	-.3523	FRA	.5026	FC3	-.2193	BSP	2407	SGB	983.5	R23	-.0017	R13	-.6818	LSA	662.9	MSA	217.4
BDE	.7540	BRA	1.1696	BC3	.0797	FSP	-107	SG1	874.4	SG2	450.3	THA	.98	EL1	540.4	EL2	212.3

SS	387.1	CST	.9797
SSA	14.6	ALF	137.15

LAUNCH DATE JUN 4 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 19 1967

HELIOCENTRIC CONIC DISTANCE 169.032

RL	151.76	LAL	-.00	LOL	252.71	VL	22.066	GAL	5.50	AZL	93.29	HCA	65.91	SMA	105.16	ECC	.45143	INC	3.2898	V1	29.357
RP	108.94	LAP	-3.00	LOP	318.59	VP	34.271	GAP	-26.76	AZP	91.34	TAL	173.25	TAP	239.16	RCA	57.69	APO	152.63	V2	34.786
RC	45.578	GL	-9.35	GP	.46	ZAL	76.08	ZAP	15.21	ETS	182.42	ZAE	166.46	ETE	125.96	ZAC	110.74	ETC	16.15	CLP	15.21

PLANETOCENTRIC CONIC

C3	60.239	VHL	7.761	DLA	-7.31	RAL	173.35	RAD	6569.1	VEL	13.476	PTH	2.46	VHP	15.960	DPA	13.62	RAP	157.12	ECC	1.9914

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 2 30	2259.86	-20.64	44.37	51.48	109.83	7 40 10	1659.9	-17.75	36.89
90.00	17 10 40	5360.91	27.76	244.74	57.26	84.19	18 40 1	4760.9	26.67	236.24
100.00	8 20 20	2008.75	-22.01	25.36	50.93	110.75	8 53 49	1408.7	-18.99	17.87
100.00	18 35 31	5087.25	29.22	224.43	57.08	83.38	20 0 18	4487.2	27.99	215.84
110.00	9 20 34	1820.13	-25.68	9.42	49.31	113.38	9 50 55	1220.1	-22.29	1.91
110.00	19 51 46	4848.63	33.14	205.69	56.45	81.08	21 12 34	4248.6	31.55	196.82

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TOE	.4969	TRA	-1.1213	TC3	-.0445	BAU	.0642	SGT	914.2	SGR	452.8	SG3	53.1	ST	444.1	SR	399.9
RDE	-.5358	RRA	-.2620	RC3	.0661	FAU	.01770	RRT	.0255	RRF	-.0246	RTF	-.6991	CRT	-.7346	CRS	-.8547
FDE	-.3712	FRA	.5146	FC3	-.2544	BSP	2509	SGB	1020.2	R23	-.0009	R13	-.6992	LSA	690.4	MSA	219.9
BDE	.7307	BRA	1.1515	BC3	.0797	FSP	-119	SG1	914.3	SG2	452.6	THA	.96	EL1	557.1	EL2	216.3

SS	410.0	CST	.9787
SSA	14.9	ALF	139.07

LAUNCH DATE JUN 4 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 21 1967

HELIOCENTRIC CONIC DISTANCE 175.518

RL	151.76	LAL	-.00	LOL	252.71	VL	22.488	GAL	5.18	AZL	93.30	HCA	69.08	SMA	106.75	ECC	.42958	INC	3.3039	VI	29.357
RP	108.93	LAP	-3.09	LOP	321.75	VP	34.546	GAP	-25.42	AZP	91.18	TAL	173.04	TAP	242.12	RCA	60.89	APO	152.60	V2	34.788
RC	44.711	GL	-10.13	GP	.48	ZAL	75.92	ZAP	13.64	ETS	182.62	ZAE	167.39	ETE	115.81	ZAC	109.21	ETC	15.90	CLP	13.64

PLANETOCENTRIC CONIC

C3	53.809	VHL	7.335	DLA	-8.11	RAL	173.21	RAD	6568.9	VEL	13.235	PTH	2.42	VHP	15.212	DPA	13.07	RAP	158.65	ECC	1.8856

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 8 12	2206.52	-19.37	40.97	49.28	111.07	7 44 58	1606.5	-16.34	33.61
90.00	17 3 53	5358.84	27.75	244.59	55.40	84.12	18 33 12	4758.8	26.64	236.09
100.00	8 25 37	1956.75	-20.72	22.04	48.72	112.04	8 58 14	1356.7	-17.55	14.68
100.00	18 29 9	5083.85	29.19	224.18	55.22	83.25	19 53 52	4483.8	27.95	215.60
110.00	9 24 55	1771.06	-24.32	6.26	47.03	114.80	9 54 26	1171.1	-20.77	358.92
110.00	19 46 20	4842.30	33.07	205.21	54.58	80.81	21 7 2	4242.3	31.45	196.36

DIFFERENTIAL CORRECTIONS

TDE	.4983	TRA	-1.1031	TC3	-.0299	BAU	.0580
RDE	-.5064	RRA	-.2469	RC3	.0748	FAU	.01838
FDE	-.3917	FRA	.5261	FC3	-.2958	BSP	2666
BDE	.7104	BRA	1.1303	BC3	.0806	FSP	-133

MID-COURSE EXECUTION ACCURACY

SGT	954.4	SGR	454.3	SG3	58.2		
RRT	.0248	RRF	-.0244	RTF	-.7172		
SGB	1057.0	R23	-.0014	R13	-.7172		
SG1	954.4	SG2	454.1	THA	.88		

ORBIT DETERMINATION ACCURACY

ST	468.7	SR	399.8	SS	434.5		
CRT	-.7401	CRS	-.8602	CST	.9783		
LSA	720.5	MSA	221.1	SSA	15.1		
EL1	575.9	EL2	218.8	ALF	141.08		

LAUNCH DATE JUN 4 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 23 1967

HELIOCENTRIC CONIC DISTANCE 182.047

RL	151.76	LAL	-.00	LOL	252.71	VL	22.880	GAL	4.87	AZL	93.32	HCA	72.24	SMA	108.29	ECC	.40884	INC	3.3174	VI	29.357
RP	108.92	LAP	-3.16	LOP	324.92	VP	34.805	GAP	-24.13	AZP	91.01	TAL	172.89	TAP	245.13	RCA	64.02	APO	152.57	V2	34.791
RC	44.000	GL	-10.96	GP	.50	ZAL	75.86	ZAP	12.07	ETS	182.90	ZAE	167.95	ETE	103.96	ZAC	107.67	ETC	15.67	CLP	12.06

PLANETOCENTRIC CONIC

C3	48.134	VHL	6.938	DLA	-8.90	RAL	172.97	RAD	6568.8	VEL	13.019	PTH	2.38	VHP	14.492	DPA	12.52	RAP	160.18	ECC	1.7922

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 13 28	2153.17	-18.03	37.63	47.04	112.21	7 49 21	1553.2	-14.86	30.39
90.00	16 56 38	5356.74	27.73	244.43	53.42	84.04	18 25 54	4756.7	26.62	235.94
100.00	8 30 28	1904.76	-19.36	18.78	46.46	113.23	9 2 13	1304.8	-16.05	11.55
100.00	18 22 19	5080.39	29.16	223.93	53.24	83.12	19 46 59	4480.4	27.90	215.35
110.00	9 28 49	1722.03	-22.88	3.18	44.72	116.12	9 57 31	1122.0	-19.18	355.99
110.00	19 40 26	4835.88	33.00	204.72	52.59	80.53	21 1 2	4235.9	31.34	195.89

DIFFERENTIAL CORRECTIONS

TDE	.5007	TRA	-1.0834	TC3	-.0106	BAU	.0547
RDE	-.4778	RRA	-.2321	RC3	.0844	FAU	.01914
FDE	-.4141	FRA	.5369	FC3	-.3443	BSP	2832
BDE	.6921	BRA	1.1080	BC3	.0850	FSP	-148

MID-COURSE EXECUTION ACCURACY

SGT	995.7	SGR	455.0	SG3	63.9		
RRT	.0238	RRF	-.0240	RTF	-.7347		
SGB	1094.7	R23	-.0019	R13	-.7347		
SG1	995.7	SG2	454.9	THA	.79		

ORBIT DETERMINATION ACCURACY

ST	494.8	SR	398.9	SS	460.5		
CRT	-.7467	CRS	-.8660	CST	.9780		
LSA	752.8	MSA	221.4	SSA	15.4		
EL1	596.2	EL2	220.2	ALF	143.11		

LAUNCH DATE JUN 4 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 25 1967

HELIOCENTRIC CONIC DISTANCE 188.615

RL	151.76	LAL	-.00	LOL	252.71	VL	23.242	GAL	4.55	AZL	93.33	HCA	75.40	SMA	109.79	ECC	.38922	INC	3.3305	VI	29.357
RP	108.91	LAP	-3.22	LOP	328.09	VP	35.048	GAP	-22.90	AZP	90.84	TAL	172.79	TAP	248.19	RCA	67.06	APO	152.53	V2	34.795
RC	43.455	GL	-11.83	GP	.53	ZAL	75.92	ZAP	10.49	ETS	183.31	ZAE	168.01	ETE	91.09	ZAC	106.14	ETC	15.44	CLP	10.48

PLANETOCENTRIC CONIC

C3	43.128	VHL	6.567	DLA	-9.69	RAL	172.60	RAD	6568.6	VEL	12.826	PTH	2.33	VHP	13.800	DPA	11.96	RAP	161.69	ECC	1.7098

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 18 18	2099.98	-16.63	34.35	44.75	113.25	7 53 18	1500.0	-13.34	27.22
90.00	16 48 53	5354.77	27.72	244.29	51.33	83.97	18 18 8	4754.8	26.59	235.81
100.00	8 34 52	1852.95	-17.93	15.59	44.15	114.32	9 5 45	1253.0	-14.50	8.48
100.00	18 15 0	5077.04	29.13	223.68	51.14	82.99	19 39 37	4477.0	27.86	215.11
110.00	9 32 16	1673.22	-21.39	.18	42.38	117.32	10 0 9	1073.2	-17.55	353.15
110.00	19 34 6	4829.53	32.93	204.24	50.49	80.25	20 54 35	4229.5	31.23	195.42

DIFFERENTIAL CORRECTIONS

TDE	.5035	TRA	-1.0627	TC3	.0131	BAU	.0552
RDE	-.4503	RRA	-.2177	RC3	.0948	FAU	.01999
FDE	-.4383	FRA	.5475	FC3	-.4012	BSP	2992
BDE	.6754	BRA	1.0848	BC3	.0957	FSP	-165

MID-COURSE EXECUTION ACCURACY

SGT	1038.2	SGR	454.9	SG3	70.1		
RRT	.0230	RRF	-.0236	RTF	-.7510		
SGB	1133.5	R23	-.0023	R13	-.7510		
SG1	1038.3	SG2	454.8	THA	.71		

ORBIT DETERMINATION ACCURACY

ST	522.1	SR	397.1	SS	488.2		
CRT	-.7536	CRS	-.8720	CST	.9778		
LSA	787.1	MSA	221.0	SSA	15.6		
EL1	617.7	EL2	220.6	ALF	145.09		

LAUNCH DATE JUN 4 1967 FLIGHT TIME 84.00 ARRIVAL DATE AUG 27 1967

HELIOCENTRIC CONIC DISTANCE 195.215

RL	151.76	LAL	-.00	LOL	252.71	VL	23.579	GAL	4.24	AZL	93.34	HCA	78.56	SMA	111.24	ECC	.37070	INC	3.3431	VI	29.357
RP	108.90	LAP	-3.28	LOP	331.26	VP	35.276	GAP	-21.73	AZP	90.66	TAL	172.74	TAP	251.30	RCA	70.01	APO	152.48	V2	34.799
RC	43.079	GL	-12.73	GP	.56	ZAL	76.08	ZAP	8.90	ETS	183.92	ZAE	167.51	ETE	78.39	ZAC	104.61	ETC	15.23	CLP	8.89

PLANETOCENTRIC CONIC

C3	38.715	VHL	6.222	DLA	-10.47	RAL	172.12	RAD	6568.5	VEL	12.652	PTH	2.30	VHP	13.135	DPA	11.40	RAP	163.19	ECC	1.6371

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 22 42	2047.15	-15.19	31.15	42.43	114.19	7 56 49	1447.2	-11.79	24.12
90.00	16 40 40	5353.11	27.71	244.17	49.14	83.91	18 9 53	4753.1	26.58	235.69
100.00	8 38 50	1801.53	-16.47	12.48	41.82	115.31	9 8 51	1201.5	-12.92	5.48
100.00	18 7 13	5073.96	29.11	223.46	48.95	82.88	19 31 47	4474.0	27.82	214.89
110.00	9 35 15	1624.85	-19.85	357.27	40.02	118.42	10 2 20	1024.9	-15.90	350.38
110.00	19 27 17	4823.41	32.85	203.77	48.30	79.98	20 47 40	4223.4	31.12	194.98

DIFFERENTIAL CORRECTIONS

TDE	.5070	TRA	-1.0406	TC3	.0425	BAU	.0591
RDE	-.4238	RRA	-.2038	RC3	.1060	FAU	.02092
FDE	-.4648	FRA	.5576	FC3	-.4679	BSP	3155
BDE	.6608	BRA	1.0604	BC3	.1142	FSP	-185

MID-COURSE EXECUTION ACCURACY

SGT	1081.8	SGR	454.0	SG3	77.0		
RRT	.0219	RRF	-.0232	RTF	-.7667		
SGB	1173.2	R23	-.0028	R13	-.7667		
SG1	1081.9	SG2	453.8	THA	.64		

ORBIT DETERMINATION ACCURACY

ST	550.8	SR	394.4	SS	517.6		
CRT	-.7614	CRS	-.8782	CST	.9777		
LSA	823.6	MSA	219.8	SSA	15.9		
EL1	640.9	EL2	219.8	ALF	147.04		

LAUNCH DATE JUN 4 1967 FLIGHT TIME 86.00 ARRIVAL DATE AUG 29 1967

HELIOCENTRIC CONIC DISTANCE 201.844

```
RL  151.76 LAL   -.00 LOL 252.71 VL  23.890 GAL   3.93 AZL  93.36 HCA  81.73 SMA 112.64 ECC .35324 INC 3.3555 VI  29.357
RP  108.88 LAP  -3.32 LOP 334.42 VP  35.490 GAP -20.60 AZP  90.48 TAL 172.74 TAP 254.47 RCA  72.85 APO 152.43 V2  34.804
RC   42.876 GL  -13.67 GP     .59 ZAL  76.36 ZAP   7.30 ETS 184.86 ZAE 166.49 ETE  66.94 ZAC 103.10 ETC  15.03 CLP   7.28
```

PLANETOCENTRIC CONIC

```
C3  34.827 VHL  5.901 DLA -11.24 RAL 171.52 RAO 6568.4 VEL 12.498 PTH   2.26 VHP 12.495 DPA  10.84 RAP 164.67 ECC 1.5732
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 26 38	1994.89	-13.70	28.03	40.08	115.02	7 59 53	1394.9	-10.22	21.08
90.00	16 31 57	5351.90	27.70	244.08	46.86	83.87	18 1 9	4751.9	26.56	235.60
100.00	8 42 19	1750.71	-14.96	9.45	39.46	116.18	9 11 30	1150.7	-11.32	2.55
100.00	17 58 57	5071.31	29.09	223.26	46.68	82.78	19 23 28	4471.3	27.78	214.70
110.00	9 37 45	1577.12	-18.27	354.46	37.64	119.40	10 4 2	977.1	-14.22	347.69
110.00	19 20 0	4817.67	32.79	203.34	46.01	79.74	20 40 18	4217.7	31.02	194.56

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .5115 TRA-1.0172 TC3  .0782 BAU  .0659   SGT 1126.4 SGR  452.1 SG3   84.7     ST   581.2 SR   390.8 SS   549.4
 RDE -.3983 RRA -.1904 RC3  .1180 FAU .02198   RRT  .0208 RRF -.0226 RTF -.7815     CRT -.7701 CRS -.8846 CST  .9777
 FDE -.4942 FRA  .5672 FC3 -.5463 BSP   3327   SGB 1213.8 R23 -.0033 R13 -.7815     LSA  863.0 MSA  217.8 SSA   16.1
 BDE  .6483 BRA 1.0348 BC3  .1415 FSP   -206   SG1 1126.5 SG2  452.0 THA    .57     EL1  665.7 EL2  217.7 ALF 148.94
```

LAUNCH DATE JUN 4 1967 FLIGHT TIME 88.00 ARRIVAL DATE AUG 31 1967

HELIOCENTRIC CONIC DISTANCE 208.497

```
RL  151.76 LAL   -.00 LOL 252.71 VL  24.179 GAL   3.63 AZL  93.37 HCA  84.89 SMA 113.98 ECC .33683 INC 3.3677 VI  29.357
RP  108.87 LAP  -3.35 LOP 337.59 VP  35.690 GAP -19.52 AZP  90.30 TAL 172.80 TAP 257.69 RCA  75.59 APO 152.37 V2  34.809
RC   42.849 GL  -14.65 GP     .62 ZAL  76.75 ZAP   5.69 ETS 186.42 ZAE 165.07 ETE  57.29 ZAC 101.60 ETC  14.85 CLP   5.66
```

PLANETOCENTRIC CONIC

```
C3  31.407 VHL  5.604 DLA -12.00 RAL 170.81 RAO 6568.3 VEL 12.360 PTH   2.23 VHP 11.879 DPA  10.28 RAP 166.14 ECC 1.5169
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 30 8	1943.39	-12.20	24.99	37.71	115.75	8 2 31	1343.4	-8.64	18.13
90.00	16 22 46	5351.28	27.69	244.04	44.51	83.85	17 51 57	4751.3	26.55	235.56
100.00	8 45 21	1700.69	-13.44	6.52	37.08	116.95	9 13 42	1100.7	-9.72	359.71
100.00	17 50 13	5069.22	29.07	223.11	44.33	82.70	19 14 42	4469.2	27.75	214.55
110.00	9 39 47	1530.23	-16.69	351.75	35.24	120.28	10 5 17	930.2	-12.54	345.10
110.00	19 12 17	4812.44	32.72	202.94	43.66	79.51	20 32 29	4212.4	30.93	194.18

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .5167 TRA -.9923 TC3  .1212 BAU  .0748   SGT 1171.8 SGR  449.4 SG3   93.2     ST   613.1 SR   386.3 SS   583.2
 RDE -.3739 RRA -.1775 RC3  .1307 FAU .02316   RRT  .0197 RRF -.0221 RTF -.7957     CRT -.7794 CRS -.8912 CST  .9779
 FDE -.5265 FRA  .5761 FC3 -.6384 BSP   3503   SGB 1255.1 R23 -.0038 R13 -.7957     LSA  904.9 MSA  215.0 SSA   16.3
 BDE  .6378 BRA 1.0080 BC3  .1782 FSP   -231   SG1 1171.9 SG2  449.3 THA    .51     EL1  692.2 EL2  214.4 ALF 150.77
```

LAUNCH DATE JUN 4 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 2 1967

HELIOCENTRIC CONIC DISTANCE 215.171

```
RL  151.76 LAL   -.00 LOL 252.71 VL  24.445 GAL   3.34 AZL  93.38 HCA  88.06 SMA 115.26 ECC .32144 INC 3.3798 VI  29.357
RP  108.85 LAP  -3.38 LOP 340.77 VP  35.877 GAP -18.49 AZP  90.11 TAL 172.91 TAP 260.97 RCA  78.21 APO 152.31 V2  34.815
RC   42.995 GL  -15.66 GP     .66 ZAL  77.25 ZAP   4.07 ETS 189.40 ZAE 163.38 ETE  49.46 ZAC 100.11 ETC  14.67 CLP   4.01
```

PLANETOCENTRIC CONIC

```
C3  28.400 VHL  5.329 DLA -12.75 RAL 169.98 RAO 6568.1 VEL 12.238 PTH   2.20 VHP 11.287 DPA   9.73 RAP 167.57 ECC 1.4674
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 33 9	1892.88	-10.69	22.05	35.31	116.38	8 4 42	1292.9	-7.06	15.25
90.00	16 13 7	5351.36	27.70	244.04	42.10	83.85	17 42 18	4751.4	26.55	235.56
100.00	8 47 55	1651.69	-11.91	3.69	34.68	117.62	9 15 26	1051.7	-8.12	356.95
100.00	17 41 2	5067.79	29.05	223.01	41.92	82.64	19 5 30	4467.8	27.73	214.45
110.00	9 41 19	1484.41	-15.10	349.16	32.84	121.04	10 6 4	884.4	-10.87	342.60
110.00	19 4 7	4807.83	32.66	202.60	41.25	79.31	20 24 15	4207.8	30.85	193.85

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .5226 TRA -.9662 TC3  .1709 BAU  .0849   SGT 1217.9 SGR  445.9 SG3  102.7     ST   646.4 SR   380.9 SS   619.5
 RDE -.3506 RRA -.1651 RC3  .1441 FAU .02447   RRT  .0185 RRF -.0216 RTF -.8088     CRT -.7893 CRS -.8978 CST  .9781
 FDE -.5624 FRA  .5846 FC3 -.7459 BSP   3674   SGB 1296.9 R23 -.0044 R13 -.8089     LSA  949.6 MSA  211.5 SSA   16.6
 BDE  .6293 BRA  .9802 BC3  .2235 FSP   -258   SG1 1217.9 SG2  445.8 THA    .45     EL1  720.3 EL2  209.9 ALF 152.53
```

LAUNCH DATE JUN 4 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 4 1967

HELIOCENTRIC CONIC DISTANCE 221.860

```
RL  151.76 LAL   -.00 LOL 252.71 VL  24.691 GAL   3.05 AZL  93.39 HCA  91.23 SMA 116.49 ECC .30705 INC 3.3918 VI  29.357
RP  108.83 LAP  -3.39 LOP 343.94 VP  36.052 GAP -17.49 AZP  89.93 TAL 173.07 TAP 264.30 RCA  80.72 APO 152.25 V2  34.822
RC   43.312 GL  -16.70 GP     .70 ZAL  77.86 ZAP   2.44 ETS 196.67 ZAE 161.52 ETE  43.19 ZAC  98.66 ETC  14.51 CLP   2.34
```

PLANETOCENTRIC CONIC

```
C3  25.761 VHL  5.076 DLA -13.48 RAL 169.04 RAO 6568.0 VEL 12.130 PTH   2.17 VHP 10.717 DPA   9.18 RAP 168.99 ECC 1.4240
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 35 43	1843.58	-9.18	19.21	32.91	116.90	8 6 26	1243.6	-5.50	12.47
90.00	16 3 2	5352.20	27.70	244.11	39.64	83.88	17 32 14	4752.2	26.56	235.62
100.00	8 50 0	1603.90	-10.39	.96	32.27	118.19	9 16 44	1003.9	-6.54	354.28
100.00	17 31 26	5067.10	29.05	222.95	39.45	82.62	18 55 53	4467.1	27.72	214.40
110.00	9 42 22	1439.86	-13.52	346.67	30.43	121.70	10 6 22	839.9	-9.23	340.20
110.00	18 55 33	4803.92	32.61	202.30	38.79	79.15	20 15 36	4203.9	30.77	193.57

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .5291 TRA -.9387 TC3  .2284 BAU  .0957   SGT 1264.1 SGR  441.4 SG3  113.2     ST   680.9 SR   374.6 SS   658.2
 RDE -.3284 RRA -.1534 RC3  .1580 FAU .02593   RRT  .0175 RRF -.0213 RTF -.8212     CRT -.7995 CRS -.9045 CST  .9785
 FDE -.6022 FRA  .5923 FC3 -.8715 BSP   3842   SGB 1338.9 R23 -.0049 R13 -.8212     LSA  997.0 MSA  207.5 SSA   16.8
 BDE  .6227 BRA  .9511 BC3  .2778 FSP   -288   SG1 1264.1 SG2  441.3 THA    .40     EL1  749.8 EL2  204.3 ALF 154.20
```

LAUNCH DATE JUN 4 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 6 1967

HELIOCENTRIC CONIC DISTANCE 228.562

RL 151.76 LAL -.00 LOL 252.71 VL 24.919 GAL 2.77 AZL 93.40 HCA 94.40 SMA 117.65 ECC .29361 INC 3.4039 V1 29.357
RP 108.80 LAP -3.39 LOP 347.11 VP 36.215 GAP -16.54 AZP 89.74 TAL 173.29 TAP 267.68 RCA 83.11 APO 152.20 V2 34.830
RC 43.796 GL -17.77 GP .75 ZAL 78.57 ZAP .98 ETS 229.66 ZAE 159.61 ETE 38.16 ZAC 97.23 ETC 14.36 CLP .63

PLANETOCENTRIC CONIC

C3 23.448 VHL 4.842 DLA -14.19 RAL 167.99 RAD 6568.0 VEL 12.034 PTH 2.15 VHP 10.169 DPA 8.65 RAP 170.37 ECC 1.3859

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 37 48	1795.69	-7.70	16.48	30.50	117.33	8 7 44	1195.7	-3.97	9.78
90.00	15 52 33	5353.86	27.71	244.23	37.14	83.94	17 21 47	4753.9	26.58	235.74
100.00	8 51 36	1557.59	-8.88	358.34	29.86	118.66	9 17 33	957.6	-4.99	351.71
100.00	17 21 27	5067.19	29.05	222.96	36.96	82.62	18 45 54	4467.2	27.72	214.41
110.00	9 42 56	1396.78	-11.96	344.30	28.02	122.26	10 6 13	796.8	-7.62	337.90
110.00	18 46 36	4800.77	32.57	202.07	36.29	79.01	20 6 36	4200.8	30.72	193.34

DIFFERENTIAL CORRECTIONS
TDE .5359 TRA -.9100 TC3 .2940 BAU .1068
RDE -.3073 RRA -.1422 RC3 .1723 FAU .02759
FDE -.6466 FRA .5996 FC3-1.0186 BSP 4011
BDE .6178 BRA .9211 BC3 .3408 FSP -323

MID-COURSE EXECUTION ACCURACY
SGT 1310.2 SGR 436.1 SG3 125.0
RRT .0171 RRF -.0214 RTF -.8327
SGB 1380.9 R23 -.0054 R13 -.8327
SG1 1310.3 SG2 436.0 THA .37

ORBIT DETERMINATION ACCURACY
ST 716.4 SR 367.3 SS 699.8
CRT -.8101 CRS -.9112 CST .9789
LSA 1047.1 MSA 203.0 SSA 17.0
EL1 780.4 EL2 197.7 ALF 155.79

LAUNCH DATE JUN 4 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 8 1967

HELIOCENTRIC CONIC DISTANCE 235.272

RL 151.76 LAL -.00 LOL 252.71 VL 25.128 GAL 2.51 AZL 93.42 HCA 97.57 SMA 118.76 ECC .28110 INC 3.4160 V1 29.357
RP 108.78 LAP -3.39 LOP 350.29 VP 36.368 GAP -15.62 AZP 89.55 TAL 173.55 TAP 271.12 RCA 85.37 APO 152.14 V2 34.838
RC 44.440 GL -18.85 GP .80 ZAL 79.37 ZAP 1.37 ETS 324.14 ZAE 157.71 ETE 34.11 ZAC 95.84 ETC 14.22 CLP -1.11

PLANETOCENTRIC CONIC

C3 21.425 VHL 4.629 DLA -14.88 RAL 166.83 RAD 6567.9 VEL 11.950 PTH 2.13 VHP 9.643 DPA 8.14 RAP 171.71 ECC 1.3526

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 39 25	1749.43	-6.24	13.86	28.09	117.68	8 8 35	1149.4	-2.49	7.19
90.00	15 41 45	5356.33	27.73	244.40	34.62	84.03	17 11 1	4756.3	26.61	235.92
100.00	8 52 44	1512.91	-7.42	355.83	27.45	119.04	9 17 56	912.9	-3.49	349.25
100.00	17 11 7	5068.08	29.06	223.03	34.44	82.65	18 35 36	4468.1	27.74	214.47
110.00	9 43 1	1355.37	-10.45	342.05	25.62	122.73	10 5 37	755.4	-6.06	335.71
110.00	18 37 19	4798.39	32.54	201.89	33.78	78.91	19 57 18	4198.4	30.67	193.17

DIFFERENTIAL CORRECTIONS
TDE .5448 TRA -.8798 TC3 .3691 BAU .1185
RDE -.2872 RRA -.1316 RC3 .1868 FAU .02944
FDE -.6965 FRA .6059 FC3-1.1895 BSP 4204
BDE .6158 BRA .8896 BC3 .4137 FSP -361

MID-COURSE EXECUTION ACCURACY
SGT 1357.0 SGR 429.8 SG3 138.2
RRT .0160 RRF -.0215 RTF -.8442
SGB 1423.4 R23 -.0065 R13 -.8442
SG1 1357.0 SG2 429.8 THA .32

ORBIT DETERMINATION ACCURACY
ST 754.4 SR 359.2 SS 744.5
CRT -.8216 CRS -.9178 CST .9796
LSA 1101.3 MSA 197.9 SSA 17.2
EL1 813.7 EL2 189.9 ALF 157.34

LAUNCH DATE JUN 4 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 10 1967

HELIOCENTRIC CONIC DISTANCE 241.988

RL 151.76 LAL -.00 LOL 252.71 VL 25.321 GAL 2.25 AZL 93.43 HCA 100.74 SMA 119.80 ECC .26949 INC 3.4284 V1 29.357
RP 108.75 LAP -3.37 LOP 353.47 VP 36.509 GAP -14.73 AZP 89.36 TAL 173.86 TAP 274.60 RCA 87.52 APO 152.08 V2 34.846
RC 45.237 GL -19.95 GP .86 ZAL 80.27 ZAP 3.03 ETS 343.31 ZAE 155.87 ETE 30.81 ZAC 94.49 ETC 14.09 CLP -2.90

PLANETOCENTRIC CONIC

C3 19.658 VHL 4.434 DLA -15.54 RAL 165.59 RAD 6567.8 VEL 11.876 PTH 2.11 VHP 9.137 DPA 7.64 RAP 173.01 ECC 1.3235

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 40 35	1704.99	-4.83	11.36	25.69	117.94	8 9 0	1105.0	-1.06	4.71
90.00	15 30 39	5359.62	27.75	244.64	32.09	84.14	16 59 58	4759.6	26.65	236.15
100.00	8 53 23	1470.08	-5.99	353.45	25.05	119.34	9 17 53	870.1	-2.04	346.89
100.00	17 0 32	5069.75	29.07	223.15	31.91	82.72	18 25 2	4469.8	27.76	214.59
110.00	9 42 38	1315.82	-8.98	339.92	23.23	123.12	10 4 34	715.8	-4.56	333.62
110.00	18 27 46	4796.79	32.52	201.77	31.26	78.84	19 47 43	4196.8	30.64	193.05

DIFFERENTIAL CORRECTIONS
TDE .5534 TRA -.8489 TC3 .4507 BAU .1297
RDE -.2682 RRA -.1217 RC3 .2014 FAU .03155
FDE -.7528 FRA .6113 FC3-1.3893 BSP 4362
BDE .6150 BRA .8576 BC3 .4937 FSP -405

MID-COURSE EXECUTION ACCURACY
SGT 1402.8 SGR 422.7 SG3 153.0
RRT .0158 RRF -.0222 RTF -.8541
SGB 1465.1 R23 -.0074 R13 -.8541
SG1 1402.8 SG2 422.6 THA .30

ORBIT DETERMINATION ACCURACY
ST 792.6 SR 350.1 SS 792.7
CRT -.8327 CRS -.9244 CST .9802
LSA 1158.3 MSA 192.7 SSA 17.4
EL1 847.3 EL2 181.3 ALF 158.79

LAUNCH DATE JUN 4 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 12 1967

HELIOCENTRIC CONIC DISTANCE 248.706

RL 151.76 LAL -.00 LOL 252.71 VL 25.499 GAL 2.01 AZL 93.44 HCA 103.91 SMA 120.78 ECC .25873 INC 3.4410 V1 29.357
RP 108.72 LAP -3.34 LOP 356.65 VP 36.641 GAP -13.88 AZP 89.17 TAL 174.21 TAP 278.12 RCA 89.53 APO 152.03 V2 34.856
RC 46.178 GL -21.06 GP .92 ZAL 81.23 ZAP 4.84 ETS 348.69 ZAE 154.16 ETE 28.09 ZAC 93.18 ETC 13.98 CLP -4.75

PLANETOCENTRIC CONIC

C3 18.119 VHL 4.257 DLA -16.18 RAL 164.26 RAD 6567.7 VEL 11.811 PTH 2.09 VHP 8.651 DPA 7.17 RAP 174.27 ECC 1.2982

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 41 17	1662.56	-3.47	8.98	23.31	118.12	8 9 0	1062.6	.31	2.34
90.00	15 19 21	5363.65	27.78	244.93	29.56	84.29	16 48 45	4763.7	26.70	236.43
100.00	8 53 35	1429.27	-4.63	351.19	22.68	119.56	9 17 25	829.3	-.66	344.65
100.00	16 49 44	5072.17	29.09	223.33	29.39	82.81	18 14 16	4472.2	27.79	214.76
110.00	9 41 47	1278.27	-7.58	337.92	20.86	123.43	10 3 6	678.3	-3.13	331.66
110.00	18 18 1	4795.94	32.51	201.70	28.75	78.80	19 37 57	4195.9	30.63	192.99

DIFFERENTIAL CORRECTIONS
TDE .5618 TRA -.8171 TC3 .5377 BAU .1403
RDE -.2502 RRA -.1124 RC3 .2157 FAU .03388
FDE -.8159 FRA .6161 FC3-1.6190 BSP 4519
BDE .6150 BRA .8248 BC3 .5794 FSP -454

MID-COURSE EXECUTION ACCURACY
SGT 1446.7 SGR 414.7 SG3 169.6
RRT .0162 RRF -.0236 RTF -.8631
SGB 1505.0 R23 -.0084 R13 -.8631
SG1 1446.7 SG2 414.6 THA .29

ORBIT DETERMINATION ACCURACY
ST 830.8 SR 340.1 SS 844.0
CRT -.8437 CRS -.9306 CST .9809
LSA 1217.6 MSA 187.6 SSA 17.5
EL1 881.0 EL2 172.2 ALF 160.15

LAUNCH DATE JUN 4 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 14 1967

HELIOCENTRIC CONIC DISTANCE 255.423

```
RL  151.76 LAL   -.00 LOL 252.71 VL  25.662 GAL   1.78 AZL  93.45 HCA 107.09 SMA 121.71 ECC .24880 INC 3.4540 VI  29.357
RP  108.69 LAP  -3.30 LOP 359.83 VP  36.764 GAP -13.06 AZP  88.98 TAL 174.60 TAP 281.69 RCA  91.42 APO 151.99 V2  34.865
RC  47.255 GL  -22.16 GP    1.00 ZAL  82.27 ZAP   6.73 ETS 351.10 ZAE 152.59 ETE  25.84 ZAC  91.93 ETC  13.87 CLP  -6.65
```

PLANETOCENTRIC CONIC

```
C3  16.780 VHL  4.096 DLA -16.79 RAL 162.86 RAD 6567.7 VEL 11.754 PTH   2.07 VHP  8.185 DPA   6.72 RAP 175.47 ECC 1.2762
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 41 34	1622.29	-2.18	6.73	20.96	118.24	8 8 36	1022.3	1.61	.10
90.00	15 7 55	5368.37	27.81	245.28	27.06	84.46	16 37 24	4768.4	26.75	236.77
100.00	8 53 21	1390.63	-3.33	349.06	20.33	119.72	9 16 32	790.6	.65	342.53
100.00	16 38 49	5075.26	29.12	223.55	26.90	82.92	18 3 24	4475.3	27.83	214.98
110.00	9 40 31	1242.86	-6.25	336.04	18.52	123.68	10 1 14	642.9	-1.78	329.81
110.00	18 8 8	4795.79	32.51	201.69	26.26	78.80	19 28 4	4195.8	30.62	192.98

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .5702 TRA -.7847 TC3  .6319 BAU  .1508   SGT 1489.4 SGR  405.7 SG3  188.2     ST   868.7 SR   329.3 SS   898.5
RDE -.2331 RRA -.1036 RC3  .2296 FAU .03654   RRT  .0181 RRF -.0264 RTF -.8716     CRT -.8543 CRS -.9366 CST  .9816
FDE -.8868 FRA  .6202 FC3-1.8851 BSP   4668   SGB 1543.7 R23 -.0094 R13 -.8716     LSA 1279.3 MSA  182.6 SSA   17.6
BDE  .6160 BRA  .7915 BC3  .6724 FSP   -510   SG1 1489.4 SG2  405.7 THA    .30     EL1  914.7 EL2  162.5 ALF 161.45
```

LAUNCH DATE JUN 4 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 16 1967

HELIOCENTRIC CONIC DISTANCE 262.137

```
RL  151.76 LAL   -.00 LOL 252.71 VL  25.811 GAL   1.56 AZL  93.47 HCA 110.26 SMA 122.57 ECC .23966 INC 3.4675 VI  29.357
RP  108.66 LAP  -3.25 LOP   3.01 VP  36.878 GAP -12.27 AZP  88.80 TAL 175.03 TAP 285.29 RCA  93.19 APO 151.94 V2  34.875
RC  48.458 GL  -23.26 GP    1.08 ZAL  83.36 ZAP   8.70 ETS 352.43 ZAE 151.20 ETE  23.97 ZAC  90.75 ETC  13.77 CLP  -8.63
```

PLANETOCENTRIC CONIC

```
C3  15.620 VHL  3.952 DLA -17.36 RAL 161.41 RAD 6567.6 VEL 11.705 PTH   2.06 VHP  7.737 DPA   6.31 RAP 176.61 ECC 1.2571
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 41 26	1584.31	-.95	4.61	18.65	118.30	8 7 50	984.3	2.84	357.98
90.00	14 56 28	5373.69	27.85	245.66	24.59	84.65	16 26 2	4773.7	26.81	237.15
100.00	8 52 43	1354.27	-2.10	347.06	18.02	119.83	9 15 18	754.3	1.89	340.54
100.00	16 27 52	5078.96	29.15	223.82	24.43	83.06	17 52 30	4479.0	27.88	215.25
110.00	9 38 52	1209.70	-4.99	334.30	16.21	123.86	9 59 2	609.7	-.51	328.08
110.00	17 58 12	4796.30	32.52	201.73	23.81	78.82	19 18 8	4196.3	30.63	193.02

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .5783 TRA -.7519 TC3  .7287 BAU  .1604   SGT 1529.4 SGR  396.0 SG3  209.1     ST   905.9 SR   317.5 SS   956.6
RDE -.2169 RRA -.0955 RC3  .2430 FAU .03950   RRT  .0210 RRF -.0305 RTF -.8791     CRT -.8644 CRS -.9421 CST  .9823
FDE -.9667 FRA  .6237 FC3-2.1895 BSP   4793   SGB 1579.8 R23 -.0107 R13 -.8791     LSA 1343.3 MSA  177.9 SSA   17.6
BDE  .6177 BRA  .7579 BC3  .7682 FSP   -571   SG1 1529.4 SG2  395.9 THA    .33     EL1  947.7 EL2  152.6 ALF 162.68
```

LAUNCH DATE JUN 4 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 18 1967

HELIOCENTRIC CONIC DISTANCE 268.845

```
RL  151.76 LAL   -.00 LOL 252.71 VL  25.947 GAL   1.36 AZL  93.48 HCA 113.44 SMA 123.37 ECC .23127 INC 3.4815 VI  29.357
RP  108.63 LAP  -3.19 LOP   6.19 VP  36.983 GAP -11.50 AZP  88.61 TAL 175.48 TAP 288.92 RCA  94.84 APO 151.91 V2  34.886
RC  49.776 GL  -24.33 GP    1.18 ZAL  84.48 ZAP  10.75 ETS 353.24 ZAE 150.01 ETE  22.41 ZAC  89.64 ETC  13.68 CLP -10.69
```

PLANETOCENTRIC CONIC

```
C3  14.616 VHL  3.823 DLA -17.90 RAL 159.92 RAD 6567.6 VEL 11.662 PTH   2.05 VHP  7.309 DPA   5.95 RAP 177.68 ECC 1.2405
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 40 56	1548.72	.20	2.62	16.39	118.32	8 6 44	948.7	3.98	355.99
90.00	14 45 4	5379.51	27.88	246.08	22.18	84.85	16 14 43	4779.5	26.88	237.56
100.00	8 51 43	1320.28	-.95	345.20	15.76	119.88	9 13 44	720.3	3.04	338.67
100.00	16 16 57	5083.18	29.18	224.13	22.03	83.22	17 41 40	4483.2	27.94	215.55
110.00	9 36 52	1178.84	-3.82	332.68	13.96	123.99	9 56 31	578.8	.67	326.47
110.00	17 48 18	4797.39	32.53	201.81	21.41	78.87	19 8 15	4197.4	30.65	193.10

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .5871 TRA -.7179 TC3  .8300 BAU  .1697   SGT 1567.0 SGR  385.3 SG3  232.8     ST   943.1 SR   304.7 SS  1019.4
RDE -.2014 RRA -.0880 RC3  .2556 FAU .04291   RRT  .0253 RRF -.0363 RTF -.8863     CRT -.8745 CRS -.9474 CST  .9830
FDE-1.0583 FRA  .6255 FC3-2.5414 BSP   4935   SGB 1613.6 R23 -.0125 R13 -.8863     LSA 1411.1 MSA  173.2 SSA   17.5
BDE  .6206 BRA  .7233 BC3  .8685 FSP   -643   SG1 1567.0 SG2  385.2 THA    .38     EL1  980.9 EL2  142.1 ALF 163.88
```

LAUNCH DATE JUN 4 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 20 1967

HELIOCENTRIC CONIC DISTANCE 275.545

```
RL  151.76 LAL   -.00 LOL 252.71 VL  26.072 GAL   1.16 AZL  93.50 HCA 116.62 SMA 124.12 ECC .22359 INC 3.4962 VI  29.357
RP  108.59 LAP  -3.13 LOP   9.37 VP  37.081 GAP -10.77 AZP  88.43 TAL 175.95 TAP 292.58 RCA  96.37 APO 151.87 V2  34.897
RC  51.201 GL  -25.38 GP    1.29 ZAL  85.63 ZAP  12.90 ETS 353.77 ZAE 149.03 ETE  21.12 ZAC  88.61 ETC  13.60 CLP -12.83
```

PLANETOCENTRIC CONIC

```
C3  13.751 VHL  3.708 DLA -18.41 RAL 158.40 RAD 6567.5 VEL 11.625 PTH   2.04 VHP  6.898 DPA   5.62 RAP 178.67 ECC 1.2263
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 40 7	1515.55	1.27	.77	14.20	118.29	8 5 22	915.5	5.04	354.12
90.00	14 33 48	5385.77	27.92	246.54	19.84	85.08	16 3 34	4785.8	26.95	238.01
100.00	8 50 24	1288.70	.13	343.46	13.56	119.89	9 11 53	688.7	4.10	336.93
100.00	16 6 11	5087.85	29.22	224.47	19.69	83.40	17 30 59	4487.9	28.00	215.88
110.00	9 34 35	1150.30	-2.73	331.18	11.78	124.09	9 53 45	550.3	1.76	324.98
110.00	17 38 30	4799.02	32.55	201.93	19.09	78.94	18 58 29	4199.0	30.68	193.21

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .5942 TRA -.6837 TC3  .9316 BAU  .1782   SGT 1599.9 SGR  373.9 SG3  259.6     ST   977.1 SR   290.9 SS  1085.7
RDE -.1865 RRA -.0811 RC3  .2675 FAU .04676   RRT  .0326 RRF -.0451 RTF -.8927     CRT -.8836 CRS -.9522 CST  .9837
FDE-1.1615 FRA  .6260 FC3-2.9441 BSP   5064   SGB 1643.0 R23 -.0143 R13 -.8927     LSA 1479.6 MSA  169.2 SSA   17.3
BDE  .6228 BRA  .6884 BC3  .9692 FSP   -725   SG1 1599.9 SG2  373.7 THA    .46     EL1 1011.0 EL2  131.6 ALF 165.00
```

LAUNCH DATE JUN 4 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 22 1967

HELIOCENTRIC CONIC DISTANCE 282.236

```
RL  151.76 LAL   -.00 LOL 252.71 VL  26.185 GAL    .98 AZL  93.51 HCA 119.81 SMA 124.81 ECC .21659 INC 3.5117 V1  29.357
RP  108.56 LAP  -3.05 LOP  12.56 VP  37.172 GAP -10.05 AZP  88.25 TAL 176.44 TAP 299.25 RCA  97.78 APO 151.84 V2  34.908
RC  52.722 GL  -26.40 GP    1.41 ZAL  86.78 ZAP  15.15 ETS 354.12 ZAE 148.28 ETE  20.07 ZAC  87.68 ETC  13.53 CLP -15.09
```

PLANETOCENTRIC CONIC

```
C3  13.008 VHL  3.607 DLA -18.88 RAL 156.89 RAD 6567.5 VEL 11.593 PTH   2.03 VHP  6.506 DPA   5.36 RAP 179.57 ECC 1.2141
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 39 2	1484.79	2.26	359.06	12.08	118.23	8 3 47	884.8	6.02	352.[illegible]
90.00	14 22 46	5392.40	27.96	247.02	17.58	85.32	15 52 38	4792.4	27.02	238.4[illegible]
100.00	8 48 51	1259.51	1.12	341.86	11.45	119.87	9 9 50	659.5	5.08	335.32
100.00	15 55 38	5092.92	29.26	224.84	17.44	83.59	17 20 31	4492.9	28.06	216.25
110.00	9 32 4	1124.06	-1.73	329.81	9.67	124.14	9 50 48	524.1	2.76	323.61
110.00	17 28 54	4801.13	32.58	202.09	16.85	79.03	18 48 55	4201.1	30.72	193.37

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE  .6026 TRA -.6480 TC3 1.0347 BAU  .1863   SGT 1630.0 SGR  361.8 SG3  290.2      ST  1011.6 SR   276.0 SS  1158.3
 RDE -.1721 RRA -.0747 RC3  .2787 FAU .05119   RRT  .0421 RRF -.0569 RTF -.8993      CRT -.8927 CRS -.9566 CST  .9846
 FDE-1.2810 FRA  .6246 FC3-3.4067 BSP   5205   SGB 1669.6 R23 -.0172 R13 -.8993      LSA 1553.6 MSA  165.0 SSA   17.1
 BDE  .6267 BRA  .6523 BC3 1.0715 FSP   -821   SG1 1630.1 SG2  361.4 THA    .56      EL1 1041.6 EL2  120.8 ALF 166.12
```

LAUNCH DATE JUN 4 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 24 1967

HELIOCENTRIC CONIC DISTANCE 288.915

```
RL  151.76 LAL   -.00 LOL 252.71 VL  26.288 GAL    .82 AZL  93.53 HCA 122.99 SMA 125.45 ECC .21024 INC 3.5283 V1  29.357
RP  108.52 LAP  -2.96 LOP  15.75 VP  37.255 GAP  -9.36 AZP  88.08 TAL 176.93 TAP 299.92 RCA  99.07 APO 151.82 V2  34.920
RC  54.330 GL  -27.38 GP    1.56 ZAL  87.92 ZAP  17.52 ETS 354.36 ZAE 147.78 ETE  19.24 ZAC  86.85 ETC  13.46 CLP -17.46
```

PLANETOCENTRIC CONIC

```
C3  12.373 VHL  3.517 DLA -19.32 RAL 155.38 RAD 6567.5 VEL 11.565 PTH   2.02 VHP  6.132 DPA   5.16 RAP 180.38 ECC 1.2036
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 37 46	1456.38	3.17	357.47	10.06	118.15	8 2 2	856.4	6.91	350.79
90.00	14 12 2	5399.37	28.00	247.53	15.43	85.57	15 42 1	4799.4	27.09	238.98
100.00	8 47 6	1232.62	2.03	340.39	9.42	119.83	9 7 39	632.6	5.98	333.83
100.00	15 45 23	5098.36	29.30	225.24	15.29	83.80	17 10 21	4498.4	28.13	216.64
110.00	9 29 25	1100.04	-.81	328.56	7.65	124.17	9 47 45	500.0	3.68	322.35
110.00	17 19 33	4803.71	32.61	202.29	14.71	79.14	18 39 37	4203.7	30.77	193.55

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE  .6079 TRA -.6131 TC3 1.1285 BAU  .1927   SGT 1652.4 SGR  348.9 SG3  324.6      ST  1040.1 SR   259.8 SS  1234.3
 RDE -.1580 RRA -.0689 RC3  .2893 FAU .05617   RRT  .0565 RRF -.0739 RTF -.9043      CRT -.9003 CRS -.9603 CST  .9853
 FDE-1.4157 FRA  .6215 FC3-3.9300 BSP   5304   SGB 1688.9 R23 -.0204 R13 -.9044      LSA 1626.8 MSA  161.9 SSA   16.7
 BDE  .6281 BRA  .6169 BC3 1.1649 FSP   -928   SG1 1652.5 SG2  348.3 THA    .72      EL1 1066.4 EL2  110.3 ALF 167.19
```

LAUNCH DATE JUN 4 1967 FLIGHT TIME 114.00 ARRIVAL DATE SEP 26 1967

HELIOCENTRIC CONIC DISTANCE 295.581

```
RL  151.76 LAL   -.00 LOL 252.71 VL  26.381 GAL    .66 AZL  93.55 HCA 126.18 SMA 126.03 ECC .20449 INC 3.5462 V1  29.357
RP  108.48 LAP  -2.86 LOP  18.94 VP  37.332 GAP  -8.70 AZP  87.90 TAL 177.43 TAP 303.60 RCA 100.26 APO 151.80 V2  34.932
RC  56.016 GL  -28.32 GP    1.72 ZAL  89.04 ZAP  20.03 ETS 354.52 ZAE 147.53 ETE  18.62 ZAC  86.15 ETC  13.41 CLP -19.96
```

PLANETOCENTRIC CONIC

```
C3  11.832 VHL  3.440 DLA -19.73 RAL 153.91 RAD 6567.5 VEL 11.542 PTH   2.01 VHP  5.776 DPA   5.03 RAP 181.07 ECC 1.1947
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 36 25	1430.16	4.01	356.00	8.14	118.05	8 0 15	830.2	7.74	349.30
90.00	14 1 39	5406.72	28.03	248.06	13.39	85.83	15 31 45	4806.7	27.16	239.50
100.00	8 45 17	1207.90	2.86	339.03	7.51	119.77	9 5 25	607.9	6.80	332.46
100.00	15 35 27	5104.21	29.34	225.67	13.26	84.02	17 0 32	4504.2	28.20	217.06
110.00	9 26 43	1078.09	.03	327.41	5.74	124.18	9 44 41	478.1	4.51	321.20
110.00	17 10 31	4806.79	32.65	202.52	12.69	79.27	18 30 38	4206.8	30.83	193.77

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE  .6097 TRA -.5802 TC3 1.2055 BAU  .1965   SGT 1665.2 SGR  335.6 SG3  363.0      ST  1061.5 SR   242.2 SS  1314.2
 RDE -.1439 RRA -.0636 RC3  .2996 FAU .06166   RRT  .0768 RRF -.0971 RTF -.9077      CRT -.9060 CRS -.9632 CST  .9857
 FDE-1.5677 FRA  .6194 FC3-4.5119 BSP   5342   SGB 1698.7 R23 -.0245 R13 -.9078      LSA 1699.0 MSA  159.9 SSA   16.2
 BDE  .6264 BRA  .5836 BC3 1.2421 FSP  -1047   SG1 1665.4 SG2  334.5 THA    .92      EL1 1084.1 EL2  100.4 ALF 168.22
```

LAUNCH DATE JUN 4 1967 FLIGHT TIME 116.00 ARRIVAL DATE SEP 28 1967

HELIOCENTRIC CONIC DISTANCE 302.232

```
RL  151.76 LAL   -.00 LOL 252.71 VL  26.465 GAL    .52 AZL  93.57 HCA 129.37 SMA 126.56 ECC .19931 INC 3.5656 V1  29.357
RP  108.45 LAP  -2.76 LOP  22.13 VP  37.403 GAP  -8.05 AZP  87.74 TAL 177.91 TAP 307.28 RCA 101.34 APO 151.79 V2  34.945
RC  57.772 GL  -29.21 GP    1.92 ZAL  90.11 ZAP  22.69 ETS 354.63 ZAE 147.54 ETE  18.22 ZAC  85.59 ETC  13.35 CLP -22.62
```

PLANETOCENTRIC CONIC

```
C3  11.375 VHL  3.373 DLA -20.11 RAL 152.49 RAD 6567.4 VEL 11.522 PTH   2.01 VHP  5.437 DPA   4.99 RAP 181.64 ECC 1.1872
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 35 4	1405.94	4.79	354.64	6.34	117.94	7 58 30	805.9	8.49	347.92
90.00	13 51 38	5414.49	28.07	248.63	11.48	86.12	15 21 53	4814.5	27.24	240.06
100.00	8 43 28	1185.17	3.63	337.78	5.71	119.69	9 3 13	585.2	7.56	331.19
100.00	15 25 55	5110.50	29.39	226.14	11.35	84.26	16 51 5	4510.5	28.28	217.51
110.00	9 24 2	1058.05	.79	326.37	3.94	124.18	9 41 40	458.1	5.27	320.15
110.00	17 1 50	4810.38	32.70	202.79	10.80	79.42	18 22 1	4210.4	30.89	194.03

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE  .6116 TRA -.5448 TC3 1.2798 BAU  .2003   SGT 1672.2 SGR  321.9 SG3  407.3      ST  1080.6 SR   222.8 SS  1401.8
 RDE -.1298 RRA -.0587 RC3  .3101 FAU .06808   RRT  .1044 RRF -.1286 RTF -.9117      CRT -.9115 CRS -.9657 CST  .9862
 FDE-1.7445 FRA  .6112 FC3-5.1816 BSP   5397   SGB 1702.9 R23 -.0300 R13 -.9118      LSA 1776.9 MSA  157.5 SSA   15.6
 BDE  .6253 BRA  .5479 BC3 1.3169 FSP  -1186   SG1 1672.5 SG2  320.1 THA   1.20      EL1 1099.7 EL2   90.1 ALF 169.28
```

```
LAUNCH DATE  JUN  4 1967                          FLIGHT TIME 118.00                          ARRIVAL DATE  SEP 30 1967

 HELIOCENTRIC CONIC                               DISTANCE 308.868
  RL  151.76 LAL   -.00 LOL 252.71 VL  26.540 GAL    .39 AZL  93.59 HCA 132.56 SMA 127.05 ECC .19466 INC 3.5868 V1  29.357
  RP  108.41 LAP  -2.64 LOP  25.32 VP  37.468 GAP  -7.43 AZP  87.57 TAL 178.38 TAP 310.93 RCA 102.32 APO 151.78 V2  34.957
  RC  59.590 GL  -30.05 GP    2.15 ZAL  91.12 ZAP  25.53 ETS 354.70 ZAE 147.83 ETE  18.04 ZAC  85.17 ETC  13.31 CLP -25.44
 PLANETOCENTRIC CONIC
  C3  10.991 VHL  3.315 DLA -20.47 RAL 151.13 RAD 6567.4 VEL 11.506 PTH   2.00 VHP  5.117 DPA   5.04 RAP 182.07 ECC 1.1809
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     7 33 50   1383.44      5.50     353.38       4.68      117.82    7 56 53     783.4       9.19      346.63
     90.00    13 42  2   5422.83     28.11     249.23       9.71       86.42   15 12 24    4822.8      27.32      240.66
    100.00     8 41 47   1164.14      4.34     336.62       4.04      119.60    9  1 11     564.1       8.25      330.01
    100.00    15 16 46   5117.36     29.43     226.64       9.59       84.52   16 42  3    4517.4      28.36      218.00
    110.00     9 21 30   1039.68      1.50     325.41       2.27      124.15    9 38 50     439.7       5.97      319.18
    110.00    16 53 32   4814.59     32.75     203.11       9.05       79.60   18 13 47    4214.6      30.97      194.34
 DIFFERENTIAL CORRECTIONS                         MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TOE  .6065 TRA -.5137 TC3 1.3203 BAU  .1997     SGT 1602.3 SGR  308.4 SG3  456.0         ST  1086.4 SR   201.4 SS  1491.2
  RDE -.1152 RRA -.0544 RC3  .3214 FAU .07502     RRT  .1423 RRF -.1717 RTF -.9127         CRT -.9137 CRS -.9668 CST  .9864
  FDE-1.9410 FRA  .6073 FC3-5.9091 BSP   5355     SGB 1690.7 R23 -.0377 R13 -.9129         LSA 1849.3 MSA  156.8 SSA   14.9
  BDE  .6174 BRA  .5166 BC3 1.3589 FSP  -1339     SG1 1662.9 SG2  305.1 THA   1.56         EL1 1102.0 EL2   80.7 ALF 170.33

LAUNCH DATE  JUN  4 1967                          FLIGHT TIME 120.00                          ARRIVAL DATE  OCT  2 1967

 HELIOCENTRIC CONIC                               DISTANCE 315.487
  RL  151.76 LAL   -.00 LOL 252.71 VL  26.607 GAL    .28 AZL  93.61 HCA 135.75 SMA 127.48 ECC .19051 INC 3.6104 V1  29.357
  RP  108.37 LAP  -2.52 LOP  28.52 VP  37.528 GAP  -6.83 AZP  87.41 TAL 178.82 TAP 314.57 RCA 103.20 APO 151.77 V2  34.970
  RC  61.464 GL  -30.86 GP    2.42 ZAL  92.07 ZAP  28.55 ETS 354.75 ZAE 148.39 ETE  18.13 ZAC  84.94 ETC  13.27 CLP -28.46
 PLANETOCENTRIC CONIC
  C3  10.673 VHL  3.267 DLA -20.82 RAL 149.85 RAD 6567.4 VEL 11.492 PTH   2.00 VHP  4.814 DPA   5.21 RAP 182.34 ECC 1.1756
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     7 32 51   1362.32      6.17     352.19       3.15      117.69    7 55 33     762.3       9.83      345.42
     90.00    13 32 47   5431.94     28.15     249.90       8.10       86.75   15  3 19    4831.9      27.40      241.31
    100.00     8 40 20   1144.52      5.00     335.53       2.51      119.51    8 59 24     544.5       8.89      328.91
    100.00    15  7 59   5124.97     29.48     227.20       7.98       84.81   16 33 24    4525.0      28.45      218.55
    110.00     9 19 12   1022.71      2.14     324.53        .73      124.12    9 36 15     422.7       6.61      318.28
    110.00    16 45 37   4819.55     32.81     203.48       7.46       79.82   18  5 56    4219.5      31.06      194.70
 DIFFERENTIAL CORRECTIONS                         MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TOE  .5979 TRA -.4833 TC3 1.3460 BAU  .1979     SGT 1641.7 SGR  295.6 SG3  511.4         ST  1083.6 SR   177.6 SS  1586.7
  RDE -.0999 RRA -.0505 RC3  .3343 FAU .08297     RRT  .1943 RRF -.2299 RTF -.9131         CRT -.9135 CRS -.9665 CST  .9864
  FDE-2.1652 FRA  .6011 FC3-6.7303 BSP   5262     SGB 1668.1 R23 -.0477 R13 -.9134         LSA 1923.2 MSA  156.5 SSA   14.2
  BDE  .6062 BRA  .4859 BC3 1.3869 FSP  -1506     SG1 1642.7 SG2  289.7 THA   2.07         EL1 1095.8 EL2   71.4 ALF 171.45

LAUNCH DATE  JUN  4 1967                          FLIGHT TIME 122.00                          ARRIVAL DATE  OCT  4 1967

 HELIOCENTRIC CONIC                               DISTANCE 322.090
  RL  151.76 LAL   -.00 LOL 252.71 VL  26.667 GAL    .18 AZL  93.64 HCA 138.95 SMA 127.87 ECC .18684 INC 3.6369 V1  29.357
  RP  108.33 LAP  -2.39 LOP  31.71 VP  37.582 GAP  -6.24 AZP  87.26 TAL 179.24 TAP 318.18 RCA 103.98 APO 151.77 V2  34.983
  RC  63.388 GL  -31.62 GP    2.73 ZAL  92.93 ZAP  31.79 ETS 354.78 ZAE 149.25 ETE  18.52 ZAC  84.89 ETC  13.25 CLP -31.68
 PLANETOCENTRIC CONIC
  C3  10.412 VHL  3.227 DLA -21.16 RAL 148.65 RAD 6567.4 VEL 11.480 PTH   2.00 VHP  4.530 DPA   5.52 RAP 182.45 ECC 1.1714
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     7 32 14   1342.16      6.81     351.05       1.78      117.55    7 54 37     742.2      10.45      344.26
     90.00    13 23 52   5442.09     28.18     250.64       6.64       87.12   14 54 34    4842.1      27.48      242.04
    100.00     8 39 15   1125.92      5.62     334.50       1.13      119.41    8 58  1     525.9       9.50      327.86
    100.00    14 59 33   5133.57     29.53     227.84       6.54       85.14   16 25  7    4533.6      28.55      219.17
    110.00     9 17 15   1006.82      2.75     323.70     359.35      124.09    9 34  1     406.8       7.21      317.44
    110.00    16 38  3   4825.43     32.88     203.93       6.03       80.07   17 58 28    4225.4      31.16      195.12
 DIFFERENTIAL CORRECTIONS                         MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TOE  .5844 TRA -.4555 TC3 1.3470 BAU  .1937     SGT 1607.7 SGR  284.5 SG3  573.9         ST  1070.1 SR   150.7 SS  1689.1
  RDE -.0834 RRA -.0469 RC3  .3501 FAU .09195     RRT  .2629 RRF -.3065 RTF -.9115         CRT -.9088 CRS -.9638 CST  .9861
  FDE-2.4214 FRA  .5951 FC3-7.6453 BSP   5136     SGB 1632.7 R23 -.0619 R13 -.9121         LSA 1999.0 MSA  157.2 SSA   13.3
  BDE  .5903 BRA  .4579 BC3 1.3917 FSP  -1705     SG1 1609.5 SG2  274.2 THA   2.74         EL1 1078.8 EL2   62.3 ALF 172.68

LAUNCH DATE  JUN  4 1967                          FLIGHT TIME 124.00                          ARRIVAL DATE  OCT  6 1967

 HELIOCENTRIC CONIC                               DISTANCE 328.674
  RL  151.76 LAL   -.00 LOL 252.71 VL  26.720 GAL    .09 AZL  93.67 HCA 142.15 SMA 128.22 ECC .18359 INC 3.6670 V1  29.357
  RP  108.29 LAP  -2.25 LOP  34.91 VP  37.632 GAP  -5.67 AZP  87.10 TAL 179.62 TAP 321.76 RCA 104.68 APO 151.76 V2  34.996
  RC  65.357 GL  -32.34 GP    3.11 ZAL  93.70 ZAP  35.26 ETS 354.80 ZAE 150.40 ETE  19.30 ZAC  85.05 ETC  13.24 CLP -35.14
 PLANETOCENTRIC CONIC
  C3  10.205 VHL  3.194 DLA -21.51 RAL 147.56 RAD 6567.4 VEL 11.471 PTH   1.99 VHP  4.265 DPA   5.97 RAP 182.36 ECC 1.1679
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     7 32 11   1322.45      7.43     349.93        .56      117.40    7 54 13     722.5      11.04      343.11
     90.00    13 15 11   5453.69     28.22     251.48       5.36       87.54   14 46  5    4853.7      27.58      242.88
    100.00     8 38 40   1107.88      6.22     333.50     359.90      119.30    8 57  8     507.9      10.08      326.84
    100.00    14 51 23   5143.50     29.59     228.57       5.27       85.53   16 17  7    4543.5      28.65      219.89
    110.00     9 15 45    991.64      3.33     322.90     358.11      124.04    9 32 17     391.6       7.77      316.64
    110.00    16 30 47   4832.50     32.96     204.46       4.78       80.38   17 51 20    4232.5      31.28      195.64
 DIFFERENTIAL CORRECTIONS                         MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TOE  .5554 TRA -.4325 TC3 1.2706 BAU  .1805     SGT 1531.8 SGR  276.2 SG3  634.3         ST  1027.3 SR   120.8 SS  1777.3
  RDE -.0657 RRA -.0441 RC3  .3677 FAU .10010     RRT  .3408 RRF -.3981 RTF -.9039         CRT -.8933 CRS -.9553 CST  .9850
  FDE-2.6801 FRA  .6056 FC3-8.4919 BSP   4824     SGB 1556.5 R23 -.0861 R13 -.9049         LSA 2050.2 MSA  158.7 SSA   12.4
  BDE  .5592 BRA  .4347 BC3 1.3227 FSP  -1883     SG1 1534.7 SG2  259.2 THA   3.62         EL1 1033.0 EL2   54.0 ALF 173.99
```

LAUNCH DATE JUN 4 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 8 1967

DISTANCE 335.238

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.766 GAL .01 AZL 93.70 HCA 145.35 SMA 128.53 ECC .18075 INC 3.7017 V1 29.357
RP 108.25 LAP -2.10 LOP 38.11 VP 37.677 GAP -5.12 AZP 86.95 TAL 179.95 TAP 325.30 RCA 105.30 APO 151.76 V2 35.009
RC 67.365 GL -33.04 GP 3.57 ZAL 94.37 ZAP 38.99 ETS 354.82 ZAE 151.84 ETE 20.57 ZAC 85.43 ETC 13.25 CLP -38.86

PLANETOCENTRIC CONIC
C3 10.045 VHL 3.169 DLA -21.87 RAL 146.56 RAD 6567.4 VEL 11.464 PTH 1.99 VHP 4.021 DPA 6.60 RAP 182.09 ECC 1.1653

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 32 51	1302.58	8.05	348.80	359.52	117.24	7 54 34	702.6	11.64	341.96
90.00	13 6 36	5467.26	28.25	252.47	4.26	88.04	14 37 43	4867.3	27.68	243.85
100.00	8 38 46	1089.85	6.82	332.50	358.85	119.17	8 56 56	489.9	10.66	325.82
100.00	14 43 22	5155.22	29.65	229.44	4.17	85.98	16 9 17	4555.2	28.77	220.74
110.00	9 14 51	976.74	3.90	322.12	357.05	123.99	9 31 8	376.7	8.33	315.84
110.00	16 23 46	4841.10	33.06	205.11	3.71	80.75	17 44 27	4241.1	31.43	196.27

DIFFERENTIAL CORRECTIONS
TDE .4119 TRA -.4244 TC3 1.1620 BAU .1646
RDE -.0507 RRA -.0426 RC3 .3896 FAU .10883
FDE-2.6247 FRA .6713 FC3-9.3797 BSP 3659
BDE .4150 BRA .4265 BC3 1.2255 FSP -1818

MID-COURSE EXECUTION ACCURACY
SGT 1334.3 SGR 276.2 SG3 666.9
RRT .4947 RRF -.5359 RTF -.8732
SGB 1362.6 R23 -.1031 R13 -.8753
SG1 1341.5 SG2 238.7 THA 6.04

ORBIT DETERMINATION ACCURACY
ST 785.1 SR 95.2 SS 1655.0
CRT -.8277 CRS -.9337 CST .9715
LSA 1826.1 MSA 172.5 SSA 11.6
EL1 789.1 EL2 53.2 ALF 174.24

LAUNCH DATE JUN 4 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 10 1967

DISTANCE 341.787

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.806 GAL -.05 AZL 93.74 HCA 148.55 SMA 128.80 ECC .17829 INC 3.7428 V1 29.357
RP 108.20 LAP -1.95 LOP 41.31 VP 37.718 GAP -4.58 AZP 86.81 TAL 180.24 TAP 328.79 RCA 105.84 APO 151.76 V2 35.023
RC 69.409 GL -33.73 GP 4.13 ZAL 94.94 ZAP 43.00 ETS 354.84 ZAE 153.55 ETE 22.53 ZAC 86.06 ETC 13.29 CLP -42.84

PLANETOCENTRIC CONIC
C3 9.932 VHL 3.151 DLA -22.27 RAL 145.67 RAD 6567.4 VEL 11.460 PTH 1.99 VHP 3.796 DPA 7.43 RAP 181.60 ECC 1.1635

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 34 24	1281.95	8.69	347.62	358.64	117.06	7 55 46	682.0	12.25	340.75
90.00	12 57 55	5483.36	28.29	253.65	3.33	88.63	14 29 19	4883.4	27.80	245.02
100.00	8 39 39	1071.35	7.43	331.47	357.97	119.04	8 57 31	471.4	11.25	324.76
100.00	14 35 22	5169.20	29.71	230.47	3.26	86.52	16 1 31	4569.2	28.91	221.76
110.00	9 14 37	961.75	4.47	321.33	356.14	123.93	9 30 39	361.7	8.89	315.04
110.00	16 16 53	4851.57	33.17	205.91	2.82	81.21	17 37 45	4251.6	31.60	197.04

DIFFERENTIAL CORRECTIONS
TDE .5131 TRA -.3726 TC3 1.1744 BAU .1660
RDE -.0212 RRA -.0386 RC3 .4294 FAU .12576
FDE-3.4362 FRA .5558 FC-10.9625 BSP 4803
BDE .5135 BRA .3746 BC3 1.2504 FSP -2574

MID-COURSE EXECUTION ACCURACY
SGT 1397.8 SGR 283.7 SG3 810.3
RRT .5544 RRF -.6434 RTF -.8956
SGB 1426.3 R23 -.1591 R13 -.8988
SG1 1406.9 SG2 234.6 THA 6.60

ORBIT DETERMINATION ACCURACY
ST 958.5 SR 45.5 SS 2052.9
CRT -.7061 CRS -.8139 CST .9840
LSA 2260.6 MSA 157.1 SSA 10.5
EL1 959.1 EL2 32.2 ALF 178.08

LAUNCH DATE JUN 4 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 12 1967

DISTANCE 348.313

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.841 GAL -.10 AZL 93.79 HCA 151.75 SMA 129.03 ECC .17618 INC 3.7919 V1 29.357
RP 108.16 LAP -1.79 LOP 44.52 VP 37.755 GAP -4.06 AZP 86.66 TAL 180.48 TAP 332.24 RCA 106.30 APO 151.76 V2 35.036
RC 71.485 GL -34.42 GP 4.82 ZAL 95.39 ZAP 47.31 ETS 354.88 ZAE 155.51 ETE 25.46 ZAC 86.93 ETC 13.38 CLP -47.12

PLANETOCENTRIC CONIC
C3 9.864 VHL 3.141 DLA -22.70 RAL 144.89 RAD 6567.4 VEL 11.457 PTH 1.99 VHP 3.593 DPA 8.50 RAP 180.91 ECC 1.1623

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 37 12	1259.41	9.39	346.33	357.96	116.84	7 58 12	659.4	12.91	339.43
90.00	12 48 52	5503.18	28.31	255.10	2.59	89.35	14 20 35	4903.2	27.92	246.46
100.00	8 41 39	1051.39	8.09	330.35	357.27	118.87	8 59 11	451.4	11.88	323.62
100.00	14 27 6	5186.43	29.77	231.75	2.54	87.19	15 53 32	4586.4	29.06	223.01
110.00	9 15 17	945.94	5.07	320.50	355.41	123.85	9 31 3	345.9	9.48	314.19
110.00	16 9 57	4864.64	33.30	206.91	2.14	81.79	17 31 2	4264.6	31.81	198.00

DIFFERENTIAL CORRECTIONS
TDE .4674 TRA -.3422 TC3 1.0423 BAU .1510
RDE .0062 RRA -.0356 RC3 .4732 FAU .13895
FDE-3.8381 FRA .4949 FC-12.1959 BSP 4225
BDE .4675 BRA .3441 BC3 1.1447 FSP -2806

MID-COURSE EXECUTION ACCURACY
SGT 1270.3 SGR 305.7 SG3 900.7
RRT .6486 RRF -.7611 RTF -.8796
SGB 1306.6 R23 -.2250 R13 -.8865
SG1 1286.2 SG2 229.8 THA 9.17

ORBIT DETERMINATION ACCURACY
ST 876.8 SR 25.5 SS 2176.9
CRT .6301 CRS .4886 CST .9816
LSA 2341.7 MSA 156.8 SSA 9.5
EL1 876.9 EL2 19.8 ALF 1.05

LAUNCH DATE JUN 4 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 14 1967

DISTANCE 354.821

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.870 GAL -.14 AZL 93.85 HCA 154.96 SMA 129.23 ECC .17439 INC 3.8528 V1 29.357
RP 108.12 LAP -1.63 LOP 47.72 VP 37.788 GAP -3.55 AZP 86.51 TAL 180.67 TAP 335.63 RCA 106.69 APO 151.77 V2 35.049
RC 73.590 GL -35.13 GP 5.69 ZAL 95.72 ZAP 51.91 ETS 354.95 ZAE 157.61 ETE 29.81 ZAC 88.03 ETC 13.53 CLP -51.69

PLANETOCENTRIC CONIC
C3 9.844 VHL 3.137 DLA -23.21 RAL 144.20 RAD 6567.4 VEL 11.456 PTH 1.99 VHP 3.414 DPA 9.85 RAP 180.01 ECC 1.1620

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 41 38	1233.60	10.18	344.85	357.47	116.57	8 2 11	633.6	13.66	337.90
90.00	12 38 58	5528.18	28.32	256.93	2.04	90.27	14 11 6	4928.2	28.05	248.27
100.00	8 45 3	1028.88	8.83	329.09	356.76	118.67	9 2 12	428.9	12.59	322.32
100.00	14 18 13	5208.13	29.83	233.36	2.01	88.03	15 45 1	4608.1	29.24	224.60
110.00	9 17 2	928.58	5.72	319.59	354.86	123.76	9 32 31	328.6	10.12	313.26
110.00	16 2 43	4881.20	33.45	208.18	1.66	82.53	17 24 5	4281.2	32.06	199.22

DIFFERENTIAL CORRECTIONS
TDE .4061 TRA -.3292 TC3 .8633 BAU .1334
RDE .0387 RRA -.0344 RC3 .5309 FAU .15284
FDE-4.2551 FRA .5077 FC-13.4423 BSP 3758
BDE .4080 BRA .3310 BC3 1.0135 FSP -3125

MID-COURSE EXECUTION ACCURACY
SGT 1127.6 SGR 347.4 SG3 994.7
RRT .7088 RRF -.8573 RTF -.8467
SGB 1179.9 R23 -.3241 R13 -.8630
SG1 1155.4 SG2 239.1 THA 12.88

ORBIT DETERMINATION ACCURACY
ST 767.4 SR 74.3 SS 2294.8
CRT .9933 CRS .9656 CST .9759
LSA 2415.6 MSA 159.9 SSA 8.5
EL1 770.9 EL2 8.6 ALF 5.50

LAUNCH DATE JUN 4 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 16 1967

HELIOCENTRIC CONIC DISTANCE 361.310

RL 151.76 LAL -.00 LOL 252.71 VL 26.894 GAL -.17 AZL 93.93 HCA 158.17 SMA 129.39 ECC .17291 INC 3.9301 V1 29.357
RP 108.08 LAP -1.46 LOP 50.93 VP 37.817 GAP -3.06 AZP 86.35 TAL 180.80 TAP 338.97 RCA 107.02 APO 151.77 V2 35.062
RC 75.721 GL -35.91 GP 6.79 ZAL 95.93 ZAP 56.82 ETS 355.05 ZAE 159.71 ETE 36.24 ZAC 89.35 ETC 13.77 CLP -56.55

PLANETOCENTRIC CONIC

C3 9.879 VHL 3.143 DLA -23.82 RAL 143.60 RAD 6567.4 VEL 11.457 PTH 1.99 VHP 3.259 DPA 11.53 RAP 178.96 ECC 1.1626

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 48 20	1202.36	11.12	343.04	357.22	116.21	8 8 22	602.4	14.56	336.04
90.00	12 27 29	5560.85	28.28	259.32	1.69	91.47	14 0 10	4960.8	28.19	250.65
100.00	8 50 21	1002.15	9.70	327.58	356.47	118.41	9 7 3	402.1	13.42	320.77
100.00	14 8 9	5236.29	29.88	235.45	1.70	89.13	15 35 25	4636.3	29.44	226.67
110.00	9 20 11	908.58	6.48	318.53	354.51	123.64	9 35 20	308.6	10.86	312.18
110.00	15 54 48	4902.63	33.63	209.82	1.41	83.49	17 16 31	4302.6	32.36	200.82

DIFFERENTIAL CORRECTIONS
TDE .3401 TRA -.3121 TC3 .6157 BAU .1137
RDE .0802 RRA -.0329 RC3 .6016 FAU .16497
FDE-4.7464 FRA .4836 FC-14.4563 BSP 3166
BDE .3494 BRA .3139 BC3 .8608 FSP -3414

MID-COURSE EXECUTION ACCURACY
SGT 959.7 SGR 410.7 SG3 1087.3
RRT .7047 RRF -.9218 RTF -.7850
SGB 1043.9 R23 -.4463 R13 -.8288
SG1 1006.2 SG2 277.9 THA 18.22

ORBIT DETERMINATION ACCURACY
ST 647.6 SR 147.9 SS 2438.7
CRT .9858 CRS .9940 CST .9666
LSA 2522.4 MSA 161.2 SSA 7.4
EL1 663.8 EL2 24.2 ALF 12.70

LAUNCH DATE JUN 4 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 18 1967

HELIOCENTRIC CONIC DISTANCE 367.778

RL 151.76 LAL -.00 LOL 252.71 VL 26.914 GAL -.18 AZL 94.03 HCA 161.39 SMA 129.53 ECC .17170 INC 4.0327 V1 29.357
RP 108.04 LAP -1.29 LOP 54.14 VP 37.843 GAP -2.58 AZP 86.18 TAL 180.86 TAP 342.25 RCA 107.29 APO 151.77 V2 35.075
RC 77.874 GL -36.80 GP 8.25 ZAL 96.01 ZAP 62.01 ETS 355.21 ZAE 161.48 ETE 45.62 ZAC 90.84 ETC 14.14 CLP -61.69

PLANETOCENTRIC CONIC

C3 9.986 VHL 3.160 DLA -24.58 RAL 143.07 RAD 6567.4 VEL 11.462 PTH 1.99 VHP 3.131 DPA 13.65 RAP 177.79 ECC 1.1643

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 58 27	1161.84	12.33	340.67	357.22	115.69	8 17 49	561.8	15.69	333.61
90.00	12 13 6	5605.64	28.16	262.59	1.54	93.10	13 46 31	5005.6	28.29	253.93
100.00	8 58 23	968.38	10.79	325.66	356.42	118.05	9 14 31	368.4	14.46	318.79
100.00	13 55 51	5274.33	29.89	238.28	1.60	90.62	15 23 46	4674.3	29.65	229.48
110.00	9 25 12	884.24	7.40	317.25	354.38	123.47	9 39 57	284.2	11.75	310.85
110.00	15 45 31	4931.24	33.83	212.03	1.42	84.78	17 7 42	4331.2	32.74	202.97

DIFFERENTIAL CORRECTIONS
TDE .2580 TRA -.2968 TC3 .3529 BAU .1046
RDE .1334 RRA -.0316 RC3 .6994 FAU .17818
FDE-5.2558 FRA .4487 FC-15.4476 BSP 2703
BDE .2905 BRA .2985 BC3 .7834 FSP -3748

MID-COURSE EXECUTION ACCURACY
SGT 786.6 SGR 507.8 SG3 1181.3
RRT .6234 RRF -.9617 RTF -.6662
SGB 936.3 R23 -.5441 R13 -.7975
SG1 863.6 SG2 361.6 THA 27.03

ORBIT DETERMINATION ACCURACY
ST 500.4 SR 242.9 SS 2580.2
CRT .9590 CRS .9985 CST .9445
LSA 2634.5 MSA 162.0 SSA 6.4
EL1 552.8 EL2 62.3 ALF 25.31

LAUNCH DATE JUN 4 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 20 1967

HELIOCENTRIC CONIC DISTANCE 374.227

RL 151.76 LAL -.00 LOL 252.71 VL 26.930 GAL -.18 AZL 94.18 HCA 164.60 SMA 129.63 ECC .17075 INC 4.1768 V1 29.357
RP 108.00 LAP -1.11 LOP 57.35 VP 37.866 GAP -2.11 AZP 85.97 TAL 180.87 TAP 345.47 RCA 107.50 APO 151.77 V2 35.088
RC 80.046 GL -37.89 GP 10.27 ZAL 95.95 ZAP 67.46 ETS 355.45 ZAE 162.36 ETE 58.48 ZAC 92.40 ETC 14.69 CLP -67.08

PLANETOCENTRIC CONIC

C3 10.197 VHL 3.193 DLA -25.57 RAL 142.56 RAD 6567.4 VEL 11.471 PTH 1.99 VHP 3.034 DPA 16.37 RAP 176.63 ECC 1.1678

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 14 35	1103.69	14.02	337.24	357.59	114.86	8 32 59	503.7	17.26	330.06
90.00	11 52 53	5672.17	27.82	267.43	1.59	95.51	13 27 25	5072.2	28.29	258.79
100.00	9 10 52	922.00	12.26	323.00	356.70	117.48	9 26 14	322.0	15.84	316.05
100.00	13 39 18	5329.09	29.78	242.34	1.75	92.76	15 8 7	4729.1	29.84	233.54
110.00	9 33 1	852.50	8.58	315.56	354.51	123.22	9 47 13	252.5	12.90	309.11
110.00	15 33 39	4971.35	34.04	215.15	1.72	86.61	16 56 30	4371.3	33.19	206.01

DIFFERENTIAL CORRECTIONS
TDE .1566 TRA -.2857 TC3 .0293 BAU .1117
RDE .2051 RRA -.0300 RC3 .8192 FAU .18683
FDE-5.7620 FRA .3927 FC-15.8618 BSP 2400
BDE .2581 BRA .2873 BC3 .8197 FSP -3999

MID-COURSE EXECUTION ACCURACY
SGT 634.3 SGR 642.4 SG3 1252.4
RRT .3612 RRF -.9827 RTF -.3849
SGB 902.8 R23 -.5151 R13 -.8375
SG1 744.8 SG2 510.1 THA 46.02

ORBIT DETERMINATION ACCURACY
ST 328.7 SR 368.8 SS 2711.9
CRT .8785 CRS .9996 CST .8662
LSA 2751.7 MSA 163.5 SSA 5.3
EL1 479.0 EL2 120.9 ALF 48.74

LAUNCH DATE JUN 4 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 22 1967

HELIOCENTRIC CONIC DISTANCE 380.656

RL 151.76 LAL -.00 LOL 252.71 VL 26.941 GAL -.17 AZL 94.39 HCA 167.82 SMA 129.71 ECC .17004 INC 4.3945 V1 29.357
RP 107.96 LAP -.93 LOP 60.56 VP 37.886 GAP -1.65 AZP 85.70 TAL 180.82 TAP 348.63 RCA 107.66 APO 151.77 V2 35.101
RC 82.236 GL -39.37 GP 13.23 ZAL 95.73 ZAP 73.12 ETS 355.82 ZAE 161.45 ETE 73.66 ZAC 93.85 ETC 15.50 CLP -72.65

PLANETOCENTRIC CONIC

C3 10.589 VHL 3.254 DLA -26.96 RAL 141.98 RAD 6567.4 VEL 11.488 PTH 2.00 VHP 2.975 DPA 20.02 RAP 175.71 ECC 1.1743

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 44 43	1002.37	16.83	331.13	358.60	113.12	9 1 25	402.4	19.81	323.72
90.00	11 18 12	5788.70	26.78	275.79	1.74	99.57	12 54 41	5188.7	27.83	267.28
100.00	9 32 6	849.28	14.50	318.77	357.49	116.43	9 46 16	249.3	17.94	311.66
100.00	13 13 30	5417.02	29.31	248.84	2.14	96.15	14 43 47	4817.0	29.85	240.08
110.00	9 45 32	807.12	10.27	313.12	355.03	122.79	9 58 59	207.1	14.52	306.59
110.00	15 16 33	5031.94	34.18	219.87	2.42	89.40	16 40 25	4431.9	33.72	210.66

DIFFERENTIAL CORRECTIONS
TDE .0396 TRA -.2802 TC3 -.2842 BAU .1460
RDE .3129 RRA -.0288 RC3 .9914 FAU .19438
FDE-6.3010 FRA .3298 FC-15.8920 BSP 2706
BDE .3154 BRA .2817 BC3 1.0314 FSP -4170

MID-COURSE EXECUTION ACCURACY
SGT 587.7 SGR 850.3 SG3 1311.7
RRT -.0991 RRF -.9933 RTF .0873
SGB 1033.6 R23 .0980 R13 -.9885
SG1 854.0 SG2 582.3 THA 97.35

ORBIT DETERMINATION ACCURACY
ST 180.2 SR 551.5 SS 2853.3
CRT .4138 CRS .9999 CST .4019
LSA 2907.2 MSA 165.0 SSA 4.2
EL1 557.0 EL2 162.4 ALF 81.58

LAUNCH DATE JUN 4 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 24 1967

DISTANCE 387.065

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.949 GAL -.14 AZL 94.77 HCA 171.04 SMA 129.76 ECC .16955 INC 4.7654 V1 29.357
RP 107.92 LAP -.74 LOP 63.78 VP 37.903 GAP -1.20 AZP 85.29 TAL 180.70 TAP 351.74 RCA 107.76 APO 151.77 V2 35.113
RC 84.440 GL -41.62 GP 18.07 ZAL 95.34 ZAP 78.93 ETS 356.40 ZAE 157.57 ETE 87.50 ZAC 94.80 ETC 16.73 CLP -78.35

PLANETOCENTRIC CONIC
C3 11.365 VHL 3.371 DLA -29.10 RAL 141.16 RAD 6567.4 VEL 11.522 PTH 2.01 VHP 2.976 DPA 25.41 RAP 175.57 ECC 1.1870

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.00	9 0 10	953.53	23.07	330.06	1.21	108.25	9 16 4	353.5	25.35	322.07
97.00	10 56 9	5866.54	23.08	280.47	1.22	108.23	12 33 56	5266.5	25.36	272.47
100.00	10 21 45	688.97	19.12	309.11	359.60	113.43	10 33 14	89.0	22.12	301.60
100.00	12 17 15	5606.33	27.15	262.48	2.47	103.00	13 50 42	5006.3	28.67	254.01
110.00	10 8 17	731.37	13.03	308.99	356.28	121.89	10 20 28	131.4	17.15	302.30
110.00	14 47 13	5136.70	33.95	228.04	3.67	94.23	16 12 50	4536.7	34.17	218.81

DIFFERENTIAL CORRECTIONS
TOE -.1036 TRA -.2839 TC3 -.5904 BAU .2047
ROE .4950 RRA -.0283 RC3 1.2110 FAU .19182
FOE-6.8099 FRA .2629 FC-14.6120 BSP 3853
BOE .5057 BRA .2853 BC3 1.3472 FSP -4224

MID-COURSE EXECUTION ACCURACY
SGT 703.1 SGR 1173.6 SG3 1314.0
RRT -.5365 RRF -.9978 RTF .5309
SGB 1368.1 R23 .1868 R13 -.9802
SG1 1249.4 SG2 557.4 THA 112.54

ORBIT DETERMINATION ACCURACY
ST 242.0 SR 841.7 SS 2977.6
CRT -.7149 CRS 1.0000 CST -.7193
LSA 3099.2 MSA 168.0 SSA 3.1
EL1 860.1 EL2 165.6 ALF 102.07

LAUNCH DATE JUN 4 1967 FLIGHT TIME 144.00 ARRIVAL DATE OCT 26 1967

DISTANCE 393.454

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.953 GAL -.11 AZL 95.55 HCA 174.26 SMA 129.79 ECC .16928 INC 5.5504 V1 29.357
RP 107.89 LAP -.55 LOP 66.99 VP 37.918 GAP -.76 AZP 84.48 TAL 180.52 TAP 354.78 RCA 107.82 APO 151.76 V2 35.125
RC 86.655 GL -45.67 GP 27.38 ZAL 94.66 ZAP 84.75 ETS 357.51 ZAE 148.38 ETE 96.43 ZAC 94.20 ETC 18.63 CLP -84.08

PLANETOCENTRIC CONIC
C3 13.282 VHL 3.644 DLA -32.91 RAL 139.52 RAD 6567.5 VEL 11.605 PTH 2.03 VHP 3.127 DPA 34.79 RAP 177.92 ECC 1.2186

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.48	7 37 20	1228.07	25.14	351.49	3.02	111.97	7 57 48	628.1	27.89	343.51
107.52	12 5 53	5658.12	25.15	265.67	3.03	111.96	13 40 11	5058.1	27.90	257.69
72.48	7 37 20	1228.07	25.14	351.49	3.02	111.97	7 57 48	628.1	27.89	343.51
107.52	12 5 53	5658.12	25.15	265.67	3.03	111.96	13 40 11	5058.1	27.90	257.69
110.00	11 10 49	5827.64	19.62	275.95	.21	118.57	12 47 57	5227.6	23.28	268.72
110.00	13 31 35	5394.59	30.93	247.50	5.24	105.33	15 1 29	4794.6	32.72	238.73

DIFFERENTIAL CORRECTIONS
TOE -.2964 TRA -.3094 TC3 -.7951 BAU .3002
ROE .8884 RRA -.0071 RC3 1.4922 FAU .17283
FOE-7.1744 FRA .0084 FC-11.2653 BSP 6049
BOE .9365 BRA .3095 BC3 1.6908 FSP -3877

MID-COURSE EXECUTION ACCURACY
SGT 942.7 SGR 1770.2 SG3 1205.4
RRT -.7631 RRF -.9995 RTF .7607
SGB 2005.6 R23 .1330 R13 -.9906
SG1 1925.8 SG2 560.1 THA 114.30

ORBIT DETERMINATION ACCURACY
ST 497.6 SR 1397.1 SS 3048.5
CRT -.9359 CRS 1.0000 CST -.9368
LSA 3385.7 MSA 172.7 SSA 2.1
EL1 1473.7 EL2 166.1 ALF 108.68

LAUNCH DATE JUN 4 1967 FLIGHT TIME 146.00 ARRIVAL DATE OCT 28 1967

DISTANCE 399.818

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.954 GAL -.06 AZL 98.33 HCA 177.48 SMA 129.80 ECC .16920 INC 8.3241 V1 29.357
RP 107.85 LAP -.37 LOP 70.21 VP 37.929 GAP -.33 AZP 81.68 TAL 180.28 TAP 357.75 RCA 107.84 APO 151.76 V2 35.137
RC 88.880 GL -55.34 GP 50.97 ZAL 93.30 ZAP 89.90 ETS .48 ZAE 124.81 ETE 99.79 ZAC 88.13 ETC 21.11 CLP -89.83

PLANETOCENTRIC CONIC
C3 22.536 VHL 4.747 DLA -41.75 RAL 134.52 RAD 6567.9 VEL 11.996 PTH 2.14 VHP 4.210 DPA 55.61 RAP 194.28 ECC 1.3709

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.93	6 0 44	1576.04	27.08	20.79	9.56	123.08	6 27 0	976.0	31.23	13.37
122.07	13 2 39	5554.17	27.09	258.41	9.57	123.07	14 35 14	4954.2	31.24	250.99
57.93	6 0 44	1576.04	27.08	20.79	9.56	123.08	6 27 0	976.0	31.23	13.37
122.07	13 2 39	5554.17	27.09	258.41	9.57	123.07	14 35 14	4954.2	31.24	250.99
57.93	6 0 44	1576.04	27.08	20.79	9.56	123.08	6 27 0	976.0	31.23	13.37
122.07	13 2 39	5554.17	27.09	258.41	9.57	123.07	14 35 14	4954.2	31.24	250.99

DIFFERENTIAL CORRECTIONS
TOE -.6229 TRA -.4122 TC3 -.5680 BAU .4227
ROE 2.2462 RRA .1307 RC3 1.2830 FAU .08682
FOE-6.0439 FRA -.3663 FC3-3.3352 BSP 9309
BOE 2.3310 BRA .4324 BC3 1.4031 FSP -2049

MID-COURSE EXECUTION ACCURACY
SGT 1140.5 SGR 2979.7 SG3 689.0
RRT -.8346 RRF -.9999 RTF .8342
SGB 3190.5 R23 .0638 R13 -.9979
SG1 3134.0 SG2 597.4 THA 108.41

ORBIT DETERMINATION ACCURACY
ST 778.1 SR 2712.0 SS 2654.7
CRT -.9721 CRS 1.0000 CST -.9723
LSA 3869.9 MSA 178.7 SSA 1.0
EL1 2816.0 EL2 175.8 ALF 105.65

LAUNCH DATE JUN 4 1967 FLIGHT TIME 148.00 ARRIVAL DATE OCT 30 1967

DISTANCE .000

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.952 GAL .00 AZL 76.44 HCA 180.75 SMA 129.79 ECC .16931 INC13.5355 V1 29.357
RP 107.82 LAP -.17 LOP 73.43 VP 37.939 GAP .11 AZP 103.56 TAL 180.00 TAP .75 RCA 107.81 APO 151.76 V2 35.149
RC 91.113 GL 63.42 GP -83.92 ZAL 92.00 ZAP 91.40 ETS 352.57 ZAE 99.32 ETE 255.97 ZAC 106.76 ETC 342.06 CLP-103.37

PLANETOCENTRIC CONIC
C3 49.943 VHL 7.067 DLA 62.44 RAL 206.11 RAD 6568.8 VEL 13.088 PTH 2.39 VHP 11.124 DPA -61.48 RAP 108.16 ECC 1.8219

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
31.71	21 21 27	4610.94	-25.96	229.13	101.39	30.98	22 38 18	4010.9	-32.74	224.67
148.29	7 13 2	2917.40	-25.96	88.88	101.38	30.97	8 1 39	2317.4	-32.73	84.42
31.71	21 21 27	4610.94	-25.96	229.13	101.39	30.98	22 38 18	4010.9	-32.74	224.67
148.29	7 13 2	2917.40	-25.96	88.88	101.38	30.97	8 1 39	2317.4	-32.73	84.42
31.71	21 21 27	4610.94	-25.96	229.13	101.39	30.98	22 38 18	4010.9	-32.74	224.67
148.29	7 13 2	2917.40	-25.96	88.88	101.38	30.97	8 1 39	2317.4	-32.73	84.42

DIFFERENTIAL CORRECTIONS
TOE 1.6552 TRA 1.4241 TC3 -.0933 BAU .1813
ROE 1.4941 RRA 2.5895 RC3 -.2550 FAU .00682
FOE .7308 FRA 1.2038 FC3 -.1183 BSP 2158
BOE 2.2299 BRA 2.9553 BC3 .2715 FSP -67

MID-COURSE EXECUTION ACCURACY
SGT 2836.1 SGR 4709.8 SG3 189.8
RRT .9727 RRF .9999 RTF .9756
SGB 5497.8 R23 .0486 R13 .9988
SG1 5468.6 SG2 566.5 THA 59.27

ORBIT DETERMINATION ACCURACY
ST 1536.6 SR 1822.1 SS 833.:
CRT .9445 CRS -.9997 CST -.9525
LSA 2492.9 MSA 401.1 SSA .3
EL1 2351.2 EL2 391.3 ALF 50.14

LAUNCH DATE JUN 4 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 1 1967

HELIOCENTRIC CONIC DISTANCE 412.520

RL 151.76 LAL -.00 LOL 252.71 VL 26.948 GAL .08 AZL 90.23 HCA 183.95 SMA 129.76 ECC .16960 INC .2062 V1 29.357
RP 107.78 LAP .02 LOP 76.66 VP 37.946 GAP .52 AZP 89.77 TAL 179.63 TAP 3.58 RCA 107.75 APO 151.76 V2 35.160
RC 93.352 GL -2.62 GP -36.96 ZAL 95.00 ZAP 98.88 ETS 354.02 ZAE 143.31 ETE 243.27 ZAC 114.27 ETC .66 CLP-101.14

PLANETOCENTRIC CONIC

C3 5.857 VHL 2.420 DLA 6.25 RAL 158.40 RAD 6567.2 VEL 11.281 PTH 1.94 VHP 3.479 OPA -21.91 RAP 145.05 ECC 1.0964

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 21 7	2159.70	-18.20	38.04	4.27	112.07	4 57 7	1559.7	-15.05	30.78
90.00	17 52 46	4413.70	6.88	183.96	3.08	62.46	19 6 20	3813.7	3.14	177.28
100.00	5 45 26	1887.76	-18.90	17.73	3.96	113.60	6 16 54	1287.8	-15.55	10.54
100.00	19 11 9	4160.88	7.55	165.01	2.72	60.99	20 20 29	3560.9	3.62	158.42
110.00	7 0 29	1652.90	-20.75	358.95	3.01	117.80	7 28 2	1052.9	-16.86	351.98
110.00	20 12 35	3968.50	9.31	149.34	1.65	56.96	21 18 44	3368.5	4.89	143.03

DIFFERENTIAL CORRECTIONS
TDE -.0504 TRA .0552 TC3-4.0029 BAU .4591
RDE -.1475 RRA .3493 RC3-4.2841 FAU .14371
FDE -.7901 FRA 1.7032 FC-21.2404 BSP 8825
BDE .1558 BRA .3536 BC3 5.8631 FSP -2992

MID-COURSE EXECUTION ACCURACY
SGT 1945.6 SGR 2261.4 SG3 968.5
RRT .9475 RRF .9999 RTF .9480
SGB 2983.2 R23 .1352 R13 .9907
SG1 2944.6 SG2 477.9 THA 49.53

ORBIT DETERMINATION ACCURACY
ST 138.4 SR 433.6 SS 677.1
CRT .9179 CRS -.9990 CST -.9268
LSA 814.0 MSA 52.8 SSA 13.6
EL1 452.1 EL2 52.7 ALF 73.44

LAUNCH DATE JUN 4 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 3 1967

HELIOCENTRIC CONIC DISTANCE 418.830

RL 151.76 LAL -.00 LOL 252.71 VL 26.941 GAL .16 AZL 91.66 HCA 187.18 SMA 129.71 ECC .17005 INC 1.6571 V1 29.357
RP 107.75 LAP .21 LOP 79.88 VP 37.950 GAP .93 AZP 88.35 TAL 179.21 TAP 6.39 RCA 107.65 APO 151.77 V2 35.170
RC 95.596 GL -17.78 GP -21.88 ZAL 93.83 ZAP 104.97 ETS 354.62 ZAE 153.20 ETE 222.40 ZAC 115.07 ETC 6.78 CLP-106.17

PLANETOCENTRIC CONIC

C3 6.527 VHL 2.555 DLA -8.19 RAL 153.66 RAD 6567.2 VEL 11.310 PTH 1.94 VHP 3.095 OPA -7.28 RAP 149.19 ECC 1.1074

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 50 51	1726.09	-5.50	12.54	359.46	117.82	6 19 37	1126.1	-1.74	5.89
90.00	15 45 15	4883.71	20.17	212.03	1.15	69.69	17 6 38	4283.7	17.22	204.59
100.00	7 8 14	1476.46	-6.21	353.80	359.07	119.30	7 32 50	876.5	-2.26	347.24
100.00	17 10 33	4608.58	20.92	191.49	.84	68.15	18 27 22	4008.6	17.77	184.11
110.00	8 7 26	1291.07	-8.06	338.60	357.94	123.33	8 28 57	691.1	-3.62	332.33
110.00	18 27 50	4366.73	22.90	172.17	359.89	63.90	19 40 37	3766.7	19.20	164.99

DIFFERENTIAL CORRECTIONS
TDE -.3597 TRA -.0010 TC3-4.2178 BAU .4244
RDE -.2495 RRA .1710 RC3-2.4206 FAU .18208
FDE-2.7030 FRA 1.6480 FC-24.1501 BSP 7964
BDE .4377 BRA .1710 BC3 4.8630 FSP -3865

MID-COURSE EXECUTION ACCURACY
SGT 2301.1 SGR 1411.7 SG3 1230.9
RRT .9592 RRF .9995 RTF .9601
SGB 2699.7 R23 .2031 R13 .9786
SG1 2677.8 SG2 343.1 THA 31.04

ORBIT DETERMINATION ACCURACY
ST 809.2 SR 572.8 SS 1651.2
CRT .9789 CRS -.9997 CST -.9831
LSA 1921.1 MSA 137.0 SSA 3.9
EL1 986.7 EL2 95.9 ALF 35.10

LAUNCH DATE JUN 4 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 5 1967

HELIOCENTRIC CONIC DISTANCE 425.122

RL 151.76 LAL -.00 LOL 252.71 VL 26.931 GAL .26 AZL 92.20 HCA 190.41 SMA 129.64 ECC .17067 INC 2.2022 V1 29.357
RP 107.72 LAP .40 LOP 83.11 VP 37.953 GAP 1.33 AZP 87.83 TAL 178.74 TAP 9.15 RCA 107.52 APO 151.77 V2 35.180
RC 97.843 GL -22.92 GP -15.12 ZAL 92.70 ZAP 110.25 ETS 355.13 ZAE 154.03 ETE 206.60 ZAC 115.72 ETC 9.62 CLP-111.01

PLANETOCENTRIC CONIC

C3 7.065 VHL 2.658 DLA -13.34 RAL 152.65 RAD 6567.2 VEL 11.334 PTH 1.95 VHP 3.057 OPA -.41 RAP 150.08 ECC 1.1163

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 29 8	1569.22	-.47	3.77	359.62	118.31	6 55 17	969.2	3.32	357.13
90.00	14 58 53	5068.19	24.04	224.16	2.43	74.57	16 23 22	4468.2	21.69	216.28
100.00	7 43 30	1329.26	-1.25	345.69	359.19	119.87	8 5 40	729.3	2.73	339.17
100.00	16 27 12	4783.38	24.90	202.94	2.15	72.91	17 46 55	4183.4	22.33	195.09
110.00	8 36 5	1164.57	-3.28	331.93	357.92	124.04	8 55 30	564.6	1.21	325.72
110.00	17 51 7	4520.83	27.16	182.12	1.27	68.39	19 6 27	3920.8	23.98	174.40

DIFFERENTIAL CORRECTIONS
TDE -.5519 TRA -.0021 TC3-4.4465 BAU .4460
RDE -.2101 RRA .1164 RC3-1.5866 FAU .18686
FDE-3.5274 FRA 1.5829 FC-22.8960 BSP 8429
BDE .5905 BRA .1164 BC3 4.7211 FSP -4064

MID-COURSE EXECUTION ACCURACY
SGT 2646.3 SGR 991.5 SG3 1276.5
RRT .9648 RRF .9977 RTF .9669
SGB 2826.0 R23 .2158 R13 .9742
SG1 2815.3 SG2 245.1 THA 20.03

ORBIT DETERMINATION ACCURACY
ST 1191.7 SR 460.2 SS 2029.4
CRT .9856 CRS -.9995 CST -.9904
LSA 2393.6 MSA 145.7 SSA 4.6
EL1 1275.4 EL2 72.8 ALF 20.91

LAUNCH DATE JUN 4 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 7 1967

HELIOCENTRIC CONIC DISTANCE 431.397

RL 151.76 LAL -.00 LOL 252.71 VL 26.920 GAL .37 AZL 92.49 HCA 193.64 SMA 129.56 ECC .17145 INC 2.4908 V1 29.357
RP 107.69 LAP .59 LOP 86.34 VP 37.954 GAP 1.73 AZP 87.58 TAL 178.22 TAP 11.86 RCA 107.35 APO 151.78 V2 35.190
RC 100.092 GL -25.40 GP -11.36 ZAL 91.55 ZAP 115.04 ETS 355.54 ZAE 152.29 ETE 197.14 ZAC 116.37 ETC 11.30 CLP-115.57

PLANETOCENTRIC CONIC

C3 7.438 VHL 2.727 DLA -16.06 RAL 152.72 RAD 6567.2 VEL 11.350 PTH 1.96 VHP 3.100 OPA 3.57 RAP 150.12 ECC 1.1224

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 54 3	1481.93	2.35	358.90	.63	118.23	7 18 45	881.9	6.11	352.23
90.00	14 34 29	5173.82	25.76	231.42	4.01	77.82	16 0 43	4573.8	23.82	223.29
100.00	8 6 27	1248.32	1.50	341.25	.16	119.86	8 27 15	648.3	5.46	334.70
100.00	16 4 46	4882.66	26.71	209.76	3.76	76.06	17 26 9	4282.7	24.53	201.64
110.00	8 54 51	1096.66	-.68	328.38	358.80	124.18	9 13 8	496.7	3.80	322.17
110.00	17 32 51	4607.08	29.18	188.01	2.95	71.35	18 49 38	4007.1	26.36	179.97

DIFFERENTIAL CORRECTIONS
TDE -.7057 TRA .0173 TC3-4.7070 BAU .4821
RDE -.1632 RRA .0934 RC3-1.1622 FAU .18121
FDE-3.8426 FRA 1.5571 FC-21.0919 BSP 9186
BDE .7243 BRA .0950 BC3 4.8484 FSP -3973

MID-COURSE EXECUTION ACCURACY
SGT 2965.0 SGR 749.1 SG3 1249.4
RRT .9652 RRF .9930 RTF .9710
SGB 3058.2 R23 .1983 R13 .9742
SG1 3052.3 SG2 190.4 THA 13.76

ORBIT DETERMINATION ACCURACY
ST 1484.6 SR 348.9 SS 2181.7
CRT .9858 CRS -.9986 CST -.9930
LSA 2657.8 MSA 148.3 SSA 5.5
EL1 1524.0 EL2 57.1 ALF 13.06

LAUNCH DATE JUN 4 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 9 1967

DISTANCE 437.652

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.906 GAL .49 AZL 92.67 HCA 196.88 SMA 129.47 ECC .17238 INC 2.6702 V1 29.357
RP 107.66 LAP .78 LOP 89.57 VP 37.953 GAP 2.12 AZP 87.44 TAL 177.65 TAP 14.52 RCA 107.15 APO 151.79 V2 35.199
RC 102.344 GL -26.81 GP -8.98 ZAL 90.34 ZAP 119.43 ETS 355.86 ZAE 149.90 ETE 191.62 ZAC 116.91 ETC 12.44 CLP-119.83

PLANETOCENTRIC CONIC
C3 7.724 VHL 2.779 DLA -17.82 RAL 153.28 RAD 6567.3 VEL 11.363 PTH 1.96 VHP 3.180 DPA 6.15 RAP 149.96 ECC 1.1271

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 13 38	1422.49	4.26	355.57	1.97	118.02	7 37 20	822.5	7.97	348.86
90.00	14 19 27	5246.91	26.71	236.56	5.68	80.22	15 46 53	4646.9	25.09	228.27
100.00	8 24 30	1193.81	3.34	338.25	1.46	119.72	8 44 24	593.8	7.27	331.67
100.00	15 51 15	4950.83	27.74	214.56	5.47	78.39	17 13 46	4350.8	25.86	206.27
110.00	9 9 48	1051.88	1.03	326.05	.02	124.17	9 27 20	451.9	5.51	319.82
110.00	17 22 27	4665.53	30.38	192.14	4.71	73.52	18 40 12	4065.5	27.82	183.88

DIFFERENTIAL CORRECTIONS
TDE -.8414 TRA .0469 TC3-4.9681 BAU .5217
RDE -.1238 RRA .0817 RC3 -.9192 FAU .17220
FDE-3.9304 FRA 1.5384 FC-19.3015 BSP 10072
BDE .8505 BRA .0942 BC3 5.0524 FSP -3836

MID-COURSE EXECUTION ACCURACY
SGT 3262.7 SGR 597.9 SG3 1196.7
RRT .9594 RRF .9828 RTF .9741
SGB 3317.0 R23 .1624 R13 .9755
SG1 3312.8 SG2 166.0 THA 10.00

ORBIT DETERMINATION ACCURACY
ST 1736.9 SR 261.1 SS 2244.7
CRT .9825 CRS -.9964 CST -.9945
LSA 2846.4 MSA 148.0 SSA 6.6
EL1 1755.8 EL2 48.1 ALF 8.41

LAUNCH DATE JUN 4 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 11 1967

DISTANCE 443.889

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.890 GAL .62 AZL 92.79 HCA 200.11 SMA 129.37 ECC .17346 INC 2.7933 V1 29.357
RP 107.63 LAP .96 LOP 92.80 VP 37.950 GAP 2.51 AZP 87.38 TAL 177.02 TAP 17.14 RCA 106.93 APO 151.81 V2 35.208
RC 104.596 GL -27.67 GP -7.33 ZAL 89.06 ZAP 123.48 ETS 356.13 ZAE 147.43 ETE 188.29 ZAC 117.28 ETC 13.28 CLP-123.80

PLANETOCENTRIC CONIC
C3 7.965 VHL 2.822 DLA -19.12 RAL 154.16 RAD 6567.3 VEL 11.373 PTH 1.96 VHP 3.280 DPA 7.94 RAP 149.82 ECC 1.1311

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 30 46	1376.87	5.71	353.01	3.51	117.78	7 53 43	776.9	9.39	346.25
90.00	14 9 19	5303.85	27.30	240.62	7.45	82.18	15 37 43	4703.9	25.94	232.22
100.00	8 40 19	1152.41	4.73	335.97	2.97	119.55	8 59 32	552.4	8.63	329.35
100.00	15 42 27	5003.54	28.40	218.34	7.25	80.27	17 5 51	4403.5	26.77	209.92
110.00	9 23 3	1018.52	2.30	324.31	1.46	124.11	9 40 1	418.5	6.76	318.06
110.00	17 16 13	4710.19	31.20	195.36	6.56	75.27	18 34 43	4110.2	28.86	186.94

DIFFERENTIAL CORRECTIONS
TDE -.9641 TRA .0903 TC3-5.1943 BAU .5591
RDE -.0910 RRA .0772 RC3 -.7629 FAU .16069
FDE-3.8883 FRA 1.5666 FC-17.4655 BSP 10857
BDE .9684 BRA .1188 BC3 5.2501 FSP -3600

MID-COURSE EXECUTION ACCURACY
SGT 3530.6 SGR 497.1 SG3 1129.3
RRT .9439 RRF .9639 RTF .9754
SGB 3565.5 R23 .1250 R13 .9761
SG1 3561.7 SG2 162.8 THA 7.59

ORBIT DETERMINATION ACCURACY
ST 1960.2 SR 191.8 SS 2256.7
CRT .9728 CRS -.9904 CST -.9952
LSA 2991.6 MSA 148.3 SSA 7.7
EL1 1969.0 EL2 44.3 ALF 5.44

LAUNCH DATE JUN 4 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 13 1967

DISTANCE 450.106

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.873 GAL .77 AZL 92.88 HCA 203.35 SMA 129.25 ECC .17469 INC 2.8834 V1 29.357
RP 107.61 LAP 1.14 LOP 96.04 VP 37.945 GAP 2.90 AZP 87.35 TAL 176.35 TAP 19.71 RCA 106.67 APO 151.83 V2 35.216
RC 106.849 GL -28.19 GP -6.14 ZAL 87.69 ZAP 127.22 ETS 356.35 ZAE 145.09 ETE 186.20 ZAC 117.44 ETC 13.90 CLP-127.47

PLANETOCENTRIC CONIC
C3 8.188 VHL 2.861 DLA -20.16 RAL 155.27 RAD 6567.3 VEL 11.383 PTH 1.97 VHP 3.395 DPA 9.21 RAP 149.81 ECC 1.1347

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 46 43	1339.07	6.91	350.87	5.22	117.53	8 9 2	739.1	10.54	344.08
90.00	14 2 9	5351.85	27.70	244.08	9.31	83.87	15 31 21	4751.9	26.56	235.60
100.00	8 55 4	1118.49	5.87	334.09	4.65	119.36	9 13 43	518.5	9.74	327.44
100.00	15 36 29	5047.66	28.87	221.54	9.14	81.89	17 0 37	4447.7	27.45	213.02
110.00	9 35 31	991.74	3.33	322.91	3.08	124.04	9 52 3	391.7	7.77	316.64
110.00	17 12 32	4747.18	31.81	198.07	8.50	76.76	18 31 39	4147.2	29.66	189.52

DIFFERENTIAL CORRECTIONS
TDE-1.0824 TRA .1363 TC3-5.4126 BAU .5969
RDE -.0644 RRA .0746 RC3 -.6636 FAU .15016
FDE-3.8030 FRA 1.5670 FC-15.8772 BSP 11697
BDE 1.0843 BRA .1554 BC3 5.4531 FSP -3405

MID-COURSE EXECUTION ACCURACY
SGT 3791.6 SGR 431.4 SG3 1064.2
RRT .9181 RRF .9341 RTF .9768
SGB 3816.1 R23 .0894 R13 .9772
SG1 3812.3 SG2 170.0 THA 5.98

ORBIT DETERMINATION ACCURACY
ST 2171.1 SR 137.9 SS 2254.4
CRT .9504 CRS -.9741 CST -.9959
LSA 3129.4 MSA 146.6 SSA 8.8
EL1 2175.0 EL2 42.8 ALF 3.46

LAUNCH DATE JUN 4 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 15 1967

DISTANCE 456.304

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.854 GAL .93 AZL 92.95 HCA 206.59 SMA 129.12 ECC .17607 INC 2.9528 V1 29.357
RP 107.59 LAP 1.32 LOP 99.27 VP 37.938 GAP 3.28 AZP 87.36 TAL 175.64 TAP 22.23 RCA 106.39 APO 151.86 V2 35.223
RC 109.101 GL -28.50 GP -5.24 ZAL 86.25 ZAP 130.66 ETS 356.53 ZAE 142.92 ETE 184.83 ZAC 117.39 ETC 14.37 CLP-130.87

PLANETOCENTRIC CONIC
C3 8.405 VHL 2.899 DLA -21.03 RAL 156.55 RAD 6567.3 VEL 11.393 PTH 1.97 VHP 3.522 DPA 10.11 RAP 149.95 ECC 1.1383

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 2 11	1306.05	7.94	349.00	7.08	117.27	8 23 57	706.0	11.54	342.16
90.00	13 56 54	5394.69	27.97	247.19	11.28	85.40	15 26 49	4794.7	27.04	238.64
100.00	9 9 22	1089.22	6.84	332.47	6.48	119.17	9 27 31	489.2	10.68	325.78
100.00	15 32 24	5086.76	29.21	224.39	11.14	83.36	16 57 11	4486.8	27.99	215.80
110.00	9 47 41	969.10	4.19	321.72	4.85	123.96	10 3 50	369.1	8.62	315.43
110.00	17 10 34	4779.63	32.29	200.48	10.55	78.11	18 30 14	4179.6	30.31	191.82

DIFFERENTIAL CORRECTIONS
TDE-1.1905 TRA .1930 TC3-5.5847 BAU .6311
RDE -.0410 RRA .0746 RC3 -.5926 FAU .13899
FDE-3.6607 FRA 1.5859 FC-14.3161 BSP 12431
BDE 1.1912 BRA .2069 BC3 5.6160 FSP -3184

MID-COURSE EXECUTION ACCURACY
SGT 4023.5 SGR 386.7 SG3 994.6
RRT .8790 RRF .8914 RTF .9775
SGB 4042.0 R23 .0637 R13 .9777
SG1 4037.8 SG2 183.8 THA 4.84

ORBIT DETERMINATION ACCURACY
ST 2358.0 SR 94.4 SS 2283.8
CRT .8867 CRS -.9222 CST -.9963
LSA 3239.3 MSA 145.3 SSA 9.9
EL1 2359.5 EL2 43.6 ALF 2.03

LAUNCH DATE JUN 4 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 17 1967

HELIOCENTRIC CONIC DISTANCE 462.483

RL 151.76 LAL -.00 LOL 252.71 VL 26.834 GAL 1.10 AZL 93.01 HCA 209.84 SMA 128.99 ECC .17760 INC 3.0080 V1 29.357
RP 107.57 LAP 1.50 LOP 102.51 VP 37.930 GAP 3.66 AZP 87.39 TAL 174.88 TAP 24.72 RCA 106.08 APO 151.89 V2 35.230
RC 111.351 GL -28.64 GP -4.53 ZAL 84.73 ZAP 133.85 ETS 356.67 ZAE 140.95 ETE 183.90 ZAC 117.14 ETC 14.71 CLP-134.02

PLANETOCENTRIC CONIC

C3 8.628 VHL 2.937 DLA -21.80 RAL 157.98 RAD 6567.3 VEL 11.403 PTH 1.97 VHP 3.658 DPA 10.75 RAP 150.27 ECC 1.1420

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 17 29	1276.22	8.87	347.29	9.09	117.00	8 38 45	676.2	12.42	340.42
90.00	13 53 1	5434.43	28.15	250.08	13.36	86.84	15 23 35	4834.4	27.42	241.49
100.00	9 23 30	1063.12	7.71	331.01	8.46	118.97	9 41 13	463.1	11.51	324.29
100.00	15 29 40	5122.75	29.47	227.04	13.25	84.73	16 55 3	4522.8	28.42	218.39
110.00	9 59 47	949.40	4.94	320.69	6.76	123.87	10 15 36	349.4	9.35	314.38
110.00	17 9 53	4809.24	32.68	202.70	12.72	79.37	18 30 2	4209.2	30.87	193.95

DIFFERENTIAL CORRECTIONS
TDE-1.2957 TRA .2560 TC3-5.7277 BAU .6637
RDE -.0208 RRA .0757 RC3 -.5422 FAU .12854
FDE-3.5124 FRA 1.6008 FC-12.8973 BSP 13157
BDE 1.2959 BRA .2670 BC3 5.7533 FSP -2986

MID-COURSE EXECUTION ACCURACY
SGT 4242.5 SGR 358.4 SG3 929.2
RRT .8286 RRF .8371 RTF .9779
SGB 4257.7 R23 .0446 R13 .9781
SG1 4252.9 SG2 200.1 THA 4.01

ORBIT DETERMINATION ACCURACY
ST 2534.5 SR 63.3 SS 2189.8
CRT .6918 CRS -.7472 CST -.9966
LSA 3347.0 MSA 143.5 SSA 11.0
EL1 2534.9 EL2 45.7 ALF .99

LAUNCH DATE JUN 4 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 19 1967

HELIOCENTRIC CONIC DISTANCE 468.642

RL 151.76 LAL -.00 LOL 252.71 VL 26.813 GAL 1.29 AZL 93.05 HCA 213.08 SMA 128.84 ECC .17928 INC 3.0533 V1 29.357
RP 107.55 LAP 1.67 LOP 105.75 VP 37.921 GAP 4.04 AZP 87.44 TAL 174.08 TAP 27.16 RCA 105.74 APO 151.94 V2 35.236
RC 113.598 GL -28.66 GP -3.97 ZAL 83.13 ZAP 136.80 ETS 356.78 ZAE 139.18 ETE 183.27 ZAC 116.69 ETC 14.96 CLP-136.94

PLANETOCENTRIC CONIC

C3 8.865 VHL 2.977 DLA -22.50 RAL 159.54 RAD 6567.3 VEL 11.413 PTH 1.98 VHP 3.802 DPA 11.17 RAP 150.77 ECC 1.1459

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 32 50	1248.63	9.72	345.71	11.24	116.73	8 53 38	648.6	13.23	338.79
90.00	13 50 7	5472.33	28.27	252.85	15.56	88.22	15 21 19	4872.3	27.72	244.22
100.00	9 37 40	1039.37	8.49	329.68	10.58	118.77	9 54 59	439.4	12.26	322.92
100.00	15 27 58	5156.83	29.65	229.55	15.48	86.04	16 53 55	4556.8	28.79	220.86
110.00	10 11 56	931.94	5.60	319.77	8.82	123.78	10 27 28	331.9	10.00	313.44
110.00	17 10 11	4837.02	33.01	204.80	15.02	80.58	18 30 48	4237.0	31.36	195.97

DIFFERENTIAL CORRECTIONS
TDE-1.3960 TRA .3269 TC3-5.8336 BAU .6940
RDE -.0025 RRA .0779 RC3 -.5041 FAU .11859
FDE-3.3526 FRA 1.6174 FC-11.5807 BSP 13800
BDE 1.3960 BRA .3361 BC3 5.8554 FSP -2782

MID-COURSE EXECUTION ACCURACY
SGT 4443.9 SGR 341.3 SG3 866.3
RRT .7689 RRF .7738 RTF .9781
SGB 4457.0 R23 .0311 R13 .9782
SG1 4451.7 SG2 217.8 THA 3.39

ORBIT DETERMINATION ACCURACY
ST 2696.2 SR 49.7 SS 2146.4
CRT .1769 CRS -.2520 CST -.9968
LSA 3443.7 MSA 141.9 SSA 12.0
EL1 2696.2 EL2 49.0 ALF .19

LAUNCH DATE JUN 4 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 21 1967

HELIOCENTRIC CONIC DISTANCE 474.781

RL 151.76 LAL -.00 LOL 252.71 VL 26.790 GAL 1.49 AZL 93.09 HCA 216.32 SMA 128.69 ECC .18111 INC 3.0914 V1 29.357
RP 107.53 LAP 1.83 LOP 108.99 VP 37.910 GAP 4.42 AZP 87.51 TAL 173.25 TAP 29.57 RCA 105.38 APO 152.00 V2 35.241
RC 115.842 GL -28.57 GP -3.52 ZAL 81.46 ZAP 139.53 ETS 356.86 ZAE 137.58 ETE 182.82 ZAC 116.07 ETC 15.12 CLP-139.66

PLANETOCENTRIC CONIC

C3 9.122 VHL 3.020 DLA -23.13 RAL 161.21 RAD 6567.3 VEL 11.424 PTH 1.98 VHP 3.954 DPA 11.42 RAP 151.44 ECC 1.1501

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 48 21	1222.77	10.50	344.22	13.53	116.45	9 8 44	622.8	13.97	337.26
90.00	13 47 59	5509.18	28.31	255.54	17.87	89.57	15 19 48	4909.2	27.95	246.89
100.00	9 51 56	1017.50	9.20	328.45	12.84	118.57	10 8 54	417.5	12.95	321.66
100.00	15 27 5	5189.68	29.78	231.99	17.83	87.31	16 53 34	4589.7	29.09	223.25
110.00	10 24 12	916.36	6.19	318.95	11.00	123.69	10 39 28	316.4	10.57	312.60
110.00	17 11 19	4863.58	33.29	206.83	17.43	81.74	18 32 22	4263.6	31.79	197.92

DIFFERENTIAL CORRECTIONS
TDE-1.4930 TRA .4049 TC3-5.9058 BAU .7225
RDE .0144 RRA .0807 RC3 -.4742 FAU .10936
FDE-3.1931 FRA 1.6302 FC-10.3798 BSP 14422
BDE 1.4931 BRA .4129 BC3 5.9248 FSP -2601

MID-COURSE EXECUTION ACCURACY
SGT 4630.9 SGR 332.4 SG3 807.3
RRT .7040 RRF .7053 RTF .9783
SGB 4642.8 R23 .0209 R13 .9783
SG1 4636.9 SG2 235.8 THA 2.90

ORBIT DETERMINATION ACCURACY
ST 2845.4 SR 57.5 SS 2099.0
CRT -.3892 CRS .3197 CST -.9970
LSA 3533.5 MSA 140.1 SSA 13.1
EL1 2845.5 EL2 53.0 ALF 179.55

LAUNCH DATE JUN 4 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 23 1967

HELIOCENTRIC CONIC DISTANCE 480.900

RL 151.76 LAL -.00 LOL 252.71 VL 26.766 GAL 1.70 AZL 93.12 HCA 219.57 SMA 128.53 ECC .18310 INC 3.1241 V1 29.357
RP 107.52 LAP 1.99 LOP 112.24 VP 37.897 GAP 4.79 AZP 87.59 TAL 172.38 TAP 31.95 RCA 105.00 APO 152.06 V2 35.246
RC 118.080 GL -28.39 GP -3.14 ZAL 79.72 ZAP 142.07 ETS 356.91 ZAE 136.14 ETE 182.50 ZAC 115.28 ETC 15.21 CLP-142.18

PLANETOCENTRIC CONIC

C3 9.404 VHL 3.067 DLA -23.71 RAL 163.00 RAD 6567.3 VEL 11.437 PTH 1.98 VHP 4.112 DPA 11.54 RAP 152.26 ECC 1.1548

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 4 5	1198.33	11.24	342.80	15.95	116.16	9 24 3	598.3	14.67	335.80
90.00	13 46 29	5545.46	28.30	258.19	20.30	90.90	15 18 54	4945.5	28.13	249.53
100.00	10 6 22	997.29	9.86	327.30	15.23	118.36	10 22 59	397.3	[illegible]	320.49
100.00	15 26 53	5221.74	29.86	234.37	20.29	88.56	16 53 55	4621.7	29.34	225.60
110.00	10 36 35	902.50	6.71	318.21	13.32	123.60	10 51 38	302.5	11.08	311.85
110.00	17 13 9	4889.29	33.52	208.80	19.97	82.89	18 34 38	4289.3	32.18	199.82

DIFFERENTIAL CORRECTIONS
TDE-1.5850 TRA .4932 TC3-5.9321 BAU .7479
RDE .0304 RRA .0841 RC3 -.4486 FAU .10047
FDE-3.0315 FRA 1.6488 FC3-9.2490 BSP 14956
BDE 1.5853 BRA .5003 BC3 5.9490 FSP -2421

MID-COURSE EXECUTION ACCURACY
SGT 4797.9 SGR 329.2 SG3 751.1
RRT .6367 RRF .6348 RTF .9781
SGB 4809.2 R23 .0134 R13 .9781
SG1 4802.5 SG2 253.6 THA 2.51

ORBIT DETERMINATION ACCURACY
ST 2978.8 SR 77.1 SS 2045.[illegible]
CRT -.6603 CRS .6042 CST -.9972
LSA 3611.4 MSA 138.9 SSA 14.0
EL1 2979.2 EL2 57.9 ALF 179.02

LAUNCH DATE JUN 4 1967 FLIGHT TIME 174.00 ARRIVAL DATE NOV 25 1967

HELIOCENTRIC CONIC DISTANCE 486.997

RL 151.76 LAL -.00 LOL 252.71 VL 26.741 GAL 1.93 AZL 93.15 HCA 222.82 SMA 128.36 ECC .18526 INC 3.1525 VI 29.357
RP 107.50 LAP 2.14 LOP 115.48 VP 37.883 GAP 5.17 AZP 87.69 TAL 171.47 TAP 34.29 RCA 104.58 APO 152.14 V2 35.250
RC 120.312 GL -28.13 GP -2.83 ZAL 77.92 ZAP 144.44 ETS 356.94 ZAE 134.86 ETE 182.26 ZAC 114.34 ETC 15.24 CLP-144.53

PLANETOCENTRIC CONIC

C3 9.718 VHL 3.117 DLA -24.25 RAL 164.87 RAD 6567.4 VEL 11.450 PTH 1.99 VHP 4.277 DPA 11.53 RAP 153.22 ECC 1.1599

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 20 2	1175.22	11.93	341.46	18.51	115.87	9 39 37	575.2	15.32	334.41
90.00	13 45 30	5581.47	28.24	260.83	22.84	92.22	15 18 31	4981.5	28.25	252.16
100.00	10 20 55	978.67	10.46	326.25	17.74	118.16	10 37 14	378.7	14.14	319.40
100.00	15 27 18	5253.24	29.89	236.71	22.87	89.80	16 54 51	4653.2	29.54	227.92
110.00	10 49 5	890.32	7.17	317.57	15.76	123.51	11 3 56	290.3	11.52	311.18
110.00	17 15 37	4914.36	33.72	210.73	22.63	84.01	18 37 31	4314.4	32.52	201.70

DIFFERENTIAL CORRECTIONS
TDE-1.6766 TRA .5881 TC3-5.9324 BAU .7727
RDE .0456 RRA .0878 RC3 -.4265 FAU .09250
FDE-2.8822 FRA 1.6619 FC3-8.2402 BSP 15499
BDE 1.6772 BRA .5946 BC3 5.9477 FSP -2266

MID-COURSE EXECUTION ACCURACY
SGT 4957.9 SGR 330.2 SG3 700.2
RRT .5709 RRF .5659 RTF .9780
SGB 4968.9 R23 .0071 R13 .9780
SGI 4961.5 SG2 270.9 THA 2.18

ORBIT DETERMINATION ACCURACY
ST 3104.0 SR 99.6 SS 1993.1
CRT -.7724 CRS .7257 CST -.9973
LSA 3687.5 MSA 137.6 SSA 14.9
ELI 3104.9 EL2 63.2 ALF 178.58

LAUNCH DATE JUN 4 1967 FLIGHT TIME 176.00 ARRIVAL DATE NOV 27 1967

HELIOCENTRIC CONIC DISTANCE 493.073

RL 151.76 LAL -.00 LOL 252.71 VL 26.715 GAL 2.17 AZL 93.18 HCA 226.06 SMA 128.19 ECC .18759 INC 3.1776 VI 29.357
RP 107.49 LAP 2.29 LOP 118.73 VP 37.868 GAP 5.55 AZP 87.79 TAL 170.54 TAP 36.60 RCA 104.15 APO 152.24 V2 35.253
RC 122.538 GL -27.80 GP -2.57 ZAL 76.08 ZAP 146.65 ETS 356.93 ZAE 133.71 ETE 182.09 ZAC 113.26 ETC 15.23 CLP-146.74

PLANETOCENTRIC CONIC

C3 10.069 VHL 3.173 DLA -24.75 RAL 166.83 RAD 6567.4 VEL 11.465 PTH 1.99 VHP 4.447 DPA 11.42 RAP 154.31 ECC 1.1657

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 36 11	1153.40	12.58	340.18	21.19	115.58	9 55 24	553.4	15.92	333.10
90.00	13 44 59	5617.37	28.11	263.44	25.48	93.53	15 18 36	5017.4	28.31	254.78
100.00	10 35 34	961.68	11.00	325.28	20.38	117.97	10 51 36	361.7	14.66	318.40
100.00	15 28 17	5284.32	29.88	239.02	25.56	91.01	16 56 21	4684.3	29.70	230.22
110.00	11 1 40	879.84	7.56	317.01	18.31	123.44	11 16 19	279.8	11.91	310.61
110.00	17 18 41	4938.93	33.88	212.63	25.40	85.13	18 41 0	4338.9	32.83	203.55

DIFFERENTIAL CORRECTIONS
TDE-1.7654 TRA .6915 TC3-5.8986 BAU .7959
RDE .0607 RRA .0916 RC3 -.4060 FAU .08513
FDE-2.7377 FRA 1.6744 FC3-7.3200 BSP 15987
BDE 1.7664 BRA .6975 BC3 5.9126 FSP -2117

MID-COURSE EXECUTION ACCURACY
SGT 5105.3 SGR 334.0 SG3 652.9
RRT .5077 RRF .4999 RTF .9779
SGB 5116.2 R23 .0022 R13 .9779
SGI 5108.2 SG2 287.6 THA 1.91

ORBIT DETERMINATION ACCURACY
ST 3216.2 SR 122.7 SS 1938.4
CRT -.8258 CRS .7851 CST -.9975
LSA 3754.7 MSA 136.7 SSA 15.7
ELI 3217.8 EL2 69.1 ALF 178.20

LAUNCH DATE JUN 4 1967 FLIGHT TIME 178.00 ARRIVAL DATE NOV 29 1967

HELIOCENTRIC CONIC DISTANCE 499.127

RL 151.76 LAL -.00 LOL 252.71 VL 26.688 GAL 2.42 AZL 93.20 HCA 229.31 SMA 128.02 ECC .19009 INC 3.2002 VI 29.357
RP 107.49 LAP 2.43 LOP 121.97 VP 37.852 GAP 5.93 AZP 87.91 TAL 169.57 TAP 38.88 RCA 103.68 APO 152.35 V2 35.256
RC 124.755 GL -27.40 GP -2.34 ZAL 74.18 ZAP 148.72 ETS 356.91 ZAE 132.67 ETE 181.96 ZAC 112.06 ETC 15.18 CLP-148.80

PLANETOCENTRIC CONIC

C3 10.463 VHL 3.235 DLA -25.20 RAL 168.87 RAD 6567.4 VEL 11.483 PTH 2.00 VHP 4.623 DPA 11.22 RAP 155.52 ECC 1.1722

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 52 29	1132.97	13.17	338.98	23.99	115.29	10 11 22	533.0	16.47	331.85
90.00	13 44 54	5653.22	27.94	266.05	28.21	94.83	15 19 8	5053.2	28.31	257.41
100.00	10 50 16	946.42	11.49	324.41	23.12	117.79	11 6 2	346.4	15.12	317.50
100.00	15 29 49	5315.01	29.82	241.30	28.35	92.21	16 58 24	4715.0	29.81	232.49
110.00	11 14 15	871.14	7.89	316.55	20.97	123.37	11 28 46	271.1	12.22	310.14
110.00	17 22 18	4963.05	34.00	214.50	28.28	86.23	18 45 1	4363.0	33.10	205.38

DIFFERENTIAL CORRECTIONS
TDE-1.8532 TRA .8038 TC3-5.8315 BAU .8175
RDE .0756 RRA .0956 RC3 -.3861 FAU .07829
FDE-2.6028 FRA 1.6872 FC3-6.4781 BSP 16460
BDE 1.8547 BRA .8095 BC3 5.8443 FSP -1984

MID-COURSE EXECUTION ACCURACY
SGT 5242.5 SGR 339.6 SG3 609.3
RRT .4477 RRF .4373 RTF .9776
SGB 5253.5 R23 -.0021 R13 .9776
SGI 5244.7 SG2 303.5 THA 1.67

ORBIT DETERMINATION ACCURACY
ST 3318.3 SR 145.4 SS 1884.1
CRT -.8545 CRS .8177 CST -.9976
LSA 3816.2 MSA 136.4 SSA 16.3
ELI 3320.6 EL2 75.5 ALF 177.85

LAUNCH DATE JUN 4 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 1 1967

HELIOCENTRIC CONIC DISTANCE 505.157

RL 151.76 LAL -.00 LOL 252.71 VL 26.661 GAL 2.69 AZL 93.22 HCA 232.56 SMA 127.84 ECC .19278 INC 3.2206 VI 29.357
RP 107.48 LAP 2.56 LOP 125.22 VP 37.834 GAP 6.32 AZP 88.04 TAL 168.58 TAP 41.14 RCA 103.19 APO 152.48 V2 35.258
RC 126.964 GL -26.94 GP -2.15 ZAL 72.25 ZAP 150.68 ETS 356.86 ZAE 131.75 ETE 181.86 ZAC 110.75 ETC 15.10 CLP-150.75

PLANETOCENTRIC CONIC

C3 10.906 VHL 3.302 DLA -25.62 RAL 170.96 RAD 6567.4 VEL 11.502 PTH 2.00 VHP 4.804 DPA 10.94 RAP 156.83 ECC 1.1795

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 8 51	1114.07	13.72	337.86	26.89	115.01	10 27 25	514.1	16.98	330.70
90.00	13 45 15	5689.00	27.70	268.64	31.04	96.11	15 20 4	5089.0	28.26	260.02
100.00	11 4 54	933.06	11.91	323.64	25.97	117.62	11 20 27	333.1	15.52	316.71
100.00	15 31 53	5345.24	29.72	243.54	31.23	93.39	17 0 58	4745.2	29.87	234.74
110.00	11 26 48	864.36	8.14	316.19	23.72	123.31	11 41 13	264.4	12.47	309.76
110.00	17 26 28	4986.72	34.09	216.35	31.26	87.32	18 49 35	4386.7	33.34	207.18

DIFFERENTIAL CORRECTIONS
TDE-1.9384 TRA .9257 TC3-5.7336 BAU .8377
RDE .0907 RRA .0995 RC3 -.3662 FAU .07201
FDE-2.4735 FRA 1.6995 FC3-5.7163 BSP 16891
BDE 1.9405 BRA .9310 BC3 5.7453 FSP -1860

MID-COURSE EXECUTION ACCURACY
SGT 5368.8 SGR 346.3 SG3 569.0
RRT .3915 RRF .3789 RTF .9774
SGB 5379.9 R23 -.0056 R13 .9774
SGI 5370.5 SG2 318.5 THA 1.45

ORBIT DETERMINATION ACCURACY
ST 3407.1 SR 167.7 SS 1827.9
CRT -.8712 CRS .8372 CST -.9977
LSA 3867.7 MSA 136.6 SSA 16.8
ELI 3410.3 EL2 82.2 ALF 177.54

LAUNCH DATE JUN 4 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 3 1967

DISTANCE 511.164

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.633 GAL 2.98 AZL 93.24 HCA 235.80 SMA 127.65 ECC .19567 INC 3.2394 VI 29.357
RP 107.48 LAP 2.68 LOP 128.47 VP 37.815 GAP 6.71 AZP 88.18 TAL 167.56 TAP 43.37 RCA 102.67 APO 152.63 V2 35.259
RC 129.165 GL -26.43 GP -1.98 ZAL 70.29 ZAP 152.52 ETS 356.80 ZAE 130.91 ETE 181.78 ZAC 109.35 ETC 15.00 CLP-152.58

PLANETOCENTRIC CONIC
C3 11.405 VHL 3.377 DLA -26.00 RAL 173.11 RAD 6567.4 VEL 11.524 PTH 2.01 VHP 4.992 DPA 10.59 RAP 158.23 ECC 1.1877

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 25 12	1096.92	14.21	336.84	29.90	114.75	10 43 28	496.9	17.43	329.64
90.00	13 46 2	5724.62	27.42	271.21	33.95	97.36	15 21 26	5124.6	28.15	262.62
100.00	11 19 25	921.82	12.26	322.99	28.92	117.48	11 34 47	321.8	15.85	316.04
100.00	15 34 29	5374.95	29.58	245.74	34.21	94.54	17 4 4	4775.0	29.89	236.95
110.00	11 39 15	859.61	8.32	315.93	26.57	123.28	11 53 34	259.6	12.64	309.50
110.00	17 31 9	5009.93	34.15	218.16	34.35	88.39	18 54 39	4409.9	33.55	208.96

DIFFERENTIAL CORRECTIONS
TDE-2.0199 TRA 1.0598 TC3-5.5991 BAU .8554
RDE .1061 RRA .1034 RC3 -.3458 FAU .06602
FDE-2.3480 FRA 1.7164 FC3-5.0110 BSP 17236
BDE 2.0227 BRA 1.0648 BC3 5.6098 FSP -1736

MID-COURSE EXECUTION ACCURACY
SGT 5481.6 SGR 353.6 SG3 531.3
RRT .3387 RRF .3243 RTF .9769
SGB 5493.0 R23 -.0083 R13 .9769
SG1 5482.9 SG2 332.7 THA 1.26

ORBIT DETERMINATION ACCURACY
ST 3480.9 SR 189.5 SS 1769.0
CRT -.8812 CRS .8489 CST -.9978
LSA 3906.8 MSA 138.1 SSA 17.3
EL1 3484.9 EL2 89.5 ALF 177.25

LAUNCH DATE JUN 4 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 5 1967

DISTANCE 517.144

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.604 GAL 3.29 AZL 93.26 HCA 239.05 SMA 127.46 ECC .19876 INC 3.2568 VI 29.357
RP 107.48 LAP 2.79 LOP 131.72 VP 37.795 GAP 7.10 AZP 88.32 TAL 166.52 TAP 45.58 RCA 102.13 APO 152.80 V2 35.259
RC 131.355 GL -25.86 GP -1.84 ZAL 68.31 ZAP 154.26 ETS 356.71 ZAE 130.16 ETE 181.71 ZAC 107.85 ETC 14.88 CLP-154.32

PLANETOCENTRIC CONIC
C3 11.968 VHL 3.460 DLA -26.33 RAL 175.29 RAD 6567.5 VEL 11.548 PTH 2.02 VHP 5.185 DPA 10.18 RAP 159.71 ECC 1.1970

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 41 23	1081.84	14.64	335.94	32.99	114.51	10 59 25	481.8	17.83	328.71
90.00	13 47 17	5759.85	27.09	273.74	36.94	98.59	15 23 17	5159.8	28.00	265.19
100.00	11 33 40	912.96	12.54	322.48	31.94	117.36	11 48 53	313.0	16.11	315.51
100.00	15 37 41	5403.96	29.40	247.88	37.27	95.65	17 7 45	4804.0	29.87	239.11
110.00	11 51 29	857.05	8.41	315.80	29.49	123.25	12 5 46	257.1	12.73	309.36
110.00	17 36 21	5032.63	34.18	219.93	37.52	89.44	19 0 14	4432.6	33.72	210.71

DIFFERENTIAL CORRECTIONS
TDE-2.1028 TRA 1.2006 TC3-5.4482 BAU .8733
RDE .1219 RRA .1069 RC3 -.3253 FAU .06071
FDE-2.2350 FRA 1.7275 FC3-4.3913 BSP 17623
BDE 2.1063 BRA 1.2053 BC3 5.4579 FSP -1632

MID-COURSE EXECUTION ACCURACY
SGT 5591.1 SGR 361.2 SG3 497.3
RRT .2889 RRF .2728 RTF .9766
SGB 5602.8 R23 -.0109 R13 .9766
SG1 5592.1 SG2 345.7 THA 1.07

ORBIT DETERMINATION ACCURACY
ST 3547.5 SR 210.5 SS 1713.4
CRT -.8877 CRS .8569 CST -.9979
LSA 3942.7 MSA 139.6 SSA 17.5
EL1 3552.4 EL2 96.8 ALF 176.98

LAUNCH DATE JUN 4 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 7 1967

DISTANCE 523.098

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.575 GAL 3.61 AZL 93.27 HCA 242.30 SMA 127.27 ECC .20208 INC 3.2730 VI 29.357
RP 107.48 LAP 2.90 LOP 134.97 VP 37.774 GAP 7.50 AZP 88.48 TAL 165.46 TAP 47.76 RCA 101.56 APO 152.99 V2 35.259
RC 133.537 GL -25.25 GP -1.71 ZAL 66.32 ZAP 155.92 ETS 356.59 ZAE 129.49 ETE 181.66 ZAC 106.27 ETC 14.76 CLP-155.97

PLANETOCENTRIC CONIC
C3 12.603 VHL 3.550 DLA -26.62 RAL 177.51 RAD 6567.5 VEL 11.575 PTH 2.02 VHP 5.386 DPA 9.71 RAP 161.27 ECC 1.2074

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 57 16	1069.18	15.00	335.18	36.16	114.30	11 15 6	469.2	18.15	327.92
90.00	13 49 4	5794.45	26.71	276.20	40.00	99.77	15 25 39	5194.4	27.79	267.70
100.00	11 47 34	906.75	12.74	322.12	35.04	117.27	12 2 40	306.7	16.29	315.14
100.00	15 41 28	5432.11	29.20	249.94	40.40	96.72	17 12 0	4832.1	29.82	241.20
110.00	12 3 28	856.83	8.42	315.79	32.48	123.25	12 17 45	256.8	12.74	309.35
110.00	17 42 3	5054.79	34.18	221.66	40.77	90.46	19 6 18	4454.8	33.87	212.43

DIFFERENTIAL CORRECTIONS
TDE-2.1838 TRA 1.3521 TC3-5.2711 BAU .8896
RDE .1382 RRA .1101 RC3 -.3042 FAU .05576
FDE-2.1276 FRA 1.7392 FC3-3.8300 BSP 17980
BDE 2.1882 BRA 1.3566 BC3 5.2799 FSP -1535

MID-COURSE EXECUTION ACCURACY
SGT 5691.0 SGR 368.7 SG3 465.6
RRT .2418 RRF .2242 RTF .9763
SGB 5702.9 R23 -.0132 R13 .9763
SG1 5691.7 SG2 357.7 THA .90

ORBIT DETERMINATION ACCURACY
ST 3601.4 SR 231.0 SS 1657.2
CRT -.8917 CRS .8621 CST -.9980
LSA 3968.6 MSA 142.0 SSA 17.6
EL1 3607.3 EL2 104.4 ALF 176.72

LAUNCH DATE JUN 4 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 9 1967

DISTANCE 529.022

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.545 GAL 3.95 AZL 93.29 HCA 245.55 SMA 127.08 ECC .20563 INC 3.2883 VI 29.357
RP 107.48 LAP 2.99 LOP 138.22 VP 37.752 GAP 7.91 AZP 88.64 TAL 164.38 TAP 49.93 RCA 100.95 APO 153.21 V2 35.257
RC 135.709 GL -24.60 GP -1.60 ZAL 64.32 ZAP 157.49 ETS 356.46 ZAE 128.88 ETE 181.61 ZAC 104.62 ETC 14.62 CLP-157.55

PLANETOCENTRIC CONIC
C3 13.320 VHL 3.650 DLA -26.87 RAL 179.75 RAD 6567.5 VEL 11.606 PTH 2.03 VHP 5.593 DPA 9.19 RAP 162.88 ECC 1.2192

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 12 42	1059.38	15.27	334.59	39.40	114.14	11 30 21	459.4	18.40	327.31
90.00	13 51 29	5828.05	26.30	278.57	43.12	100.89	15 28 37	5228.1	27.54	270.13
100.00	12 0 58	903.47	12.84	321.93	38.19	117.23	12 16 1	303.5	16.39	314.94
100.00	15 45 54	5459.20	28.96	251.93	43.61	97.74	17 16 53	4859.2	29.73	243.21
110.00	12 15 6	859.07	8.34	315.91	35.53	123.27	12 29 25	259.1	12.66	309.47
110.00	17 48 15	5076.37	34.16	223.34	44.10	91.46	19 12 51	4476.4	33.98	214.10

DIFFERENTIAL CORRECTIONS
TDE-2.2634 TRA 1.5148 TC3-5.0735 BAU .9049
RDE .1552 RRA .1129 RC3 -.2827 FAU .05117
FDE-2.0269 FRA 1.7520 FC3-3.3260 BSP 18310
BDE 2.2687 BRA 1.5190 BC3 5.0814 FSP -1446

MID-COURSE EXECUTION ACCURACY
SGT 5783.4 SGR 376.0 SG3 436.5
RRT .1970 RRF .1782 RTF .9760
SGB 5795.6 R23 -.0151 R13 .9760
SG1 5783.8 SG2 368.7 THA .74

ORBIT DETERMINATION ACCURACY
ST 3643.8 SR 250.9 SS 1601.6
CRT -.8940 CRS .8654 CST -.9981
LSA 3985.5 MSA 145.1 SSA 17.6
EL1 3650.7 EL2 112.2 ALF 176.47

LAUNCH DATE JUN 4 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 11 1967

DISTANCE 534.917

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.515 GAL 4.31 AZL 93.30 HCA 248.80 SMA 126.89 ECC .20943 INC 3.3028 V1 29.357
RP 107.49 LAP 3.08 LOP 141.47 VP 37.729 GAP 8.33 AZP 88.80 TAL 163.28 TAP 52.08 RCA 100.31 APO 153.46 V2 35.255
RC 137.871 GL -23.91 GP -1.51 ZAL 62.33 ZAP 159.00 ETS 356.31 ZAE 128.33 ETE 181.57 ZAC 102.91 ETC 14.48 CLP-159.05

PLANETOCENTRIC CONIC
C3 14.128 VHL 3.759 DLA -27.07 RAL 181.99 RAD 6567.6 VEL 11.641 PTH 2.04 VHP 5.807 DPA 8.62 RAP 164.56 ECC 1.2325

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 27 27	1052.98	15.45	334.20	42.69	114.03	11 45 0	453.0	18.57	326.91
90.00	13 54 37	5860.23	25.87	280.83	46.29	101.94	15 32 18	5260.2	27.26	272.44
100.00	12 13 45	903.39	12.84	321.93	41.40	117.23	12 28 48	303.4	16.39	314.94
100.00	15 51 0	5485.05	28.71	253.81	46.88	98.69	17 22 25	4885.1	29.62	245.12
110.00	12 26 20	863.88	8.16	316.16	38.62	123.31	12 40 44	263.9	12.49	309.74
110.00	17 54 55	5097.33	34.11	224.98	47.49	92.43	19 19 52	4497.3	34.07	215.73

DIFFERENTIAL CORRECTIONS
TDE-2.3385 TRA 1.6917 TC3-4.8469 BAU .9168
RDE .1728 RRA .1152 RC3 -.2608 FAU .04672
FDE-1.9286 FRA 1.7675 FC3-2.8628 BSP 18537
BDE 2.3449 BRA 1.6956 BC3 4.8539 FSP -1354

MID-COURSE EXECUTION ACCURACY
SGT 5862.6 SGR 383.0 SG3 409.2
RRT .1543 RRF .1346 RTF .9755
SGB 5875.1 R23 -.0167 R13 .9754
SG1 5862.9 SG2 378.4 THA .58

ORBIT DETERMINATION ACCURACY
ST 3670.6 SR 270.1 SS 1544.1
CRT -.8948 CRS .8668 CST -.9981
LSA 3988.4 MSA 149.1 SSA 17.5
EL1 3678.5 EL2 120.3 ALF 176.23

LAUNCH DATE JUN 4 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 13 1967

DISTANCE 540.778

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.485 GAL 4.69 AZL 93.32 HCA 252.04 SMA 126.69 ECC .21351 INC 3.3167 V1 29.357
RP 107.50 LAP 3.16 LOP 144.72 VP 37.705 GAP 8.75 AZP 88.98 TAL 162.17 TAP 54.22 RCA 99.64 APO 153.74 V2 35.253
RC 140.023 GL -23.19 GP -1.42 ZAL 60.34 ZAP 160.44 ETS 356.13 ZAE 127.83 ETE 181.53 ZAC 101.14 ETC 14.35 CLP-160.49

PLANETOCENTRIC CONIC
C3 15.041 VHL 3.878 DLA -27.23 RAL 184.23 RAD 6567.6 VEL 11.680 PTH 2.05 VHP 6.030 DPA 8.01 RAP 166.28 ECC 1.2475

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 41 18	1050.59	15.51	334.06	46.00	113.99	11 58 48	450.6	18.63	326.76
90.00	13 58 38	602.37	25.43	305.02	49.53	102.90	14 8 41	2.4	26.95	296.69
100.00	12 25 49	906.77	12.74	322.13	44.63	117.27	12 40 55	306.8	16.29	315.14
100.00	15 56 49	5509.46	28.45	255.57	50.20	99.59	17 28 38	4909.5	29.48	246.92
110.00	12 37 5	871.35	7.88	316.56	41.74	123.37	12 51 37	271.3	12.21	310.15
110.00	18 2 1	5117.65	34.04	226.56	50.94	93.36	19 27 19	4517.7	34.13	217.32

DIFFERENTIAL CORRECTIONS
TDE-2.4165 TRA 1.8766 TC3-4.6176 BAU .9298
RDE .1911 RRA .1167 RC3 -.2390 FAU .04281
FDE-1.8409 FRA 1.7799 FC3-2.4644 BSP 18831
BDE 2.4240 BRA 1.8803 BC3 4.6238 FSP -1278

MID-COURSE EXECUTION ACCURACY
SGT 5941.1 SGR 389.5 SG3 384.4
RRT .1127 RRF .0924 RTF .9752
SGB 5953.8 R23 -.0181 R13 .9752
SG1 5941.2 SG2 387.0 THA .43

ORBIT DETERMINATION ACCURACY
ST 3692.1 SR 288.3 SS 1490.7
CRT -.8952 CRS .8678 CST -.9982
LSA 3989.1 MSA 153.3 SSA 17.3
EL1 3701.1 EL2 128.2 ALF 176.00

LAUNCH DATE JUN 4 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 15 1967

DISTANCE 546.603

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.454 GAL 5.09 AZL 93.33 HCA 255.29 SMA 126.49 ECC .21788 INC 3.3301 V1 29.357
RP 107.51 LAP 3.22 LOP 147.98 VP 37.680 GAP 9.19 AZP 89.15 TAL 161.05 TAP 56.34 RCA 98.93 APO 154.06 V2 35.249
RC 142.165 GL -22.45 GP -1.34 ZAL 58.38 ZAP 161.83 ETS 355.93 ZAE 127.37 ETE 181.50 ZAC 99.31 ETC 14.21 CLP-161.88

PLANETOCENTRIC CONIC
C3 16.070 VHL 4.009 DLA -27.35 RAL 186.45 RAD 6567.6 VEL 11.724 PTH 2.07 VHP 6.262 DPA 7.37 RAP 168.04 ECC 1.2645

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 54 1	1052.83	15.45	334.19	49.34	114.03	12 11 34	452.8	18.57	326.90
90.00	14 3 40	630.02	24.99	306.93	52.81	103.77	14 14 10	30.0	26.64	298.65
100.00	12 37 3	913.81	12.52	322.53	47.88	117.37	12 52 17	313.8	16.08	315.56
100.00	16 3 20	5532.31	28.18	257.22	53.58	100.41	17 35 33	4932.3	29.33	248.60
110.00	12 47 19	881.54	7.50	317.10	44.89	123.45	13 2 1	281.5	11.84	310.71
110.00	18 9 33	5137.34	33.95	228.09	54.44	94.26	19 35 10	4537.3	34.17	218.86

DIFFERENTIAL CORRECTIONS
TDE-2.4935 TRA 2.0733 TC3-4.3760 BAU .9413
RDE .2102 RRA .1175 RC3 -.2174 FAU .03916
FDE-1.7587 FRA 1.7922 FC3-2.1097 BSP 19114
BDE 2.5024 BRA 2.0766 BC3 4.3814 FSP -1209

MID-COURSE EXECUTION ACCURACY
SGT 6011.8 SGR 395.5 SG3 361.4
RRT .0723 RRF .0515 RTF .9749
SGB 6024.8 R23 -.0194 R13 .9749
SG1 6011.9 SG2 394.4 THA .27

ORBIT DETERMINATION ACCURACY
ST 3703.3 SR 305.8 SS 1438.4
CRT -.8949 CRS .8681 CST -.9983
LSA 3981.4 MSA 157.9 SSA 17.1
EL1 3713.4 EL2 136.1 ALF 175.77

LAUNCH DATE JUN 4 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 17 1967

DISTANCE 552.390

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.423 GAL 5.52 AZL 93.34 HCA 258.54 SMA 126.30 ECC .22256 INC 3.3431 V1 29.357
RP 107.52 LAP 3.28 LOP 151.23 VP 37.654 GAP 9.64 AZP 89.33 TAL 159.91 TAP 58.45 RCA 98.19 APO 154.41 V2 35.245
RC 144.295 GL -21.68 GP -1.27 ZAL 56.44 ZAP 163.17 ETS 355.69 ZAE 126.95 ETE 181.46 ZAC 97.45 ETC 14.08 CLP-163.22

PLANETOCENTRIC CONIC
C3 17.233 VHL 4.151 DLA -27.43 RAL 188.66 RAD 6567.7 VEL 11.774 PTH 2.08 VHP 6.503 DPA 6.68 RAP 169.83 ECC 1.2836

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 5 25	1060.25	15.25	334.64	52.67	114.15	12 23 6	460.2	18.38	327.37
90.00	14 9 52	654.63	24.58	308.62	56.15	104.52	14 20 46	54.6	26.34	300.39
100.00	12 47 23	924.64	12.18	323.16	51.14	117.51	13 2 48	324.6	15.77	316.21
100.00	16 10 35	5553.50	27.91	258.73	57.00	101.17	17 43 8	4953.5	29.16	250.16
110.00	12 57 0	894.48	7.01	317.79	48.06	123.54	13 11 54	294.5	11.37	311.41
110.00	18 17 28	5156.44	33.84	229.58	57.99	95.13	19 43 24	4556.4	34.18	220.35

DIFFERENTIAL CORRECTIONS
TDE-2.5691 TRA 2.2838 TC3-4.1237 BAU .9511
RDE .2300 RRA .1175 RC3 -.1961 FAU .03573
FDE-1.6811 FRA 1.8062 FC3-1.7948 BSP 19359
BDE 2.5794 BRA 2.2868 BC3 4.1283 FSP -1142

MID-COURSE EXECUTION ACCURACY
SGT 6075.1 SGR 400.8 SG3 340.1
RRT .0330 RRF .0121 RTF .9746
SGB 6088.3 R23 -.0203 R13 .9746
SG1 6075.2 SG2 400.6 THA .13

ORBIT DETERMINATION ACCURACY
ST 3704.0 SR 322.2 SS 1387.2
CRT -.8939 CRS .8677 CST -.9984
LSA 3964.9 MSA 163.0 SSA 16.7
EL1 3715.2 EL2 144.0 ALF 175.55

LAUNCH DATE JUN 4 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 19 1967

HELIOCENTRIC CONIC DISTANCE 558.134

RL 151.76 LAL -.00 LOL 252.71 VL 26.391 GAL 5.97 AZL 93.36 HCA 261.78 SMA 126.10 ECC .22759 INC 3.3558 VI 29.357
RP 107.53 LAP 3.32 LOP 154.48 VP 37.628 GAP 10.11 AZP 89.52 TAL 158.77 TAP 60.55 RCA 97.40 APO 154.80 V2 35.240
RC 146.414 GL -20.90 GP -1.21 ZAL 54.53 ZAP 164.46 ETS 355.43 ZAE 126.57 ETE 181.42 ZAC 95.54 ETC 13.96 CLP-164.51

PLANETOCENTRIC CONIC

C3 18.546 VHL 4.307 DLA -27.46 RAL 190.83 RAD 6567.8 VEL 11.829 PTH 2.10 VHP 6.755 DPA 5.97 RAP 171.66 ECC 1.3052

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 15 21	1073.23	14.88	335.42	56.00	114.37	12 33 14	473.2	18.05	328.18
90.00	14 17 17	675.85	24.21	310.06	59.55	105.15	14 28 33	75.8	26.06	301.88
100.00	12 56 47	939.31	11.71	324.00	54.40	117.70	13 12 26	339.3	15.33	317.08
100.00	16 18 32	5573.04	27.64	260.13	60.46	101.86	17 51 25	4973.0	29.00	251.58
110.00	13 6 4	910.14	6.42	318.62	51.23	123.65	13 21 15	310.1	10.80	312.26
110.00	18 25 44	5174.97	33.72	231.01	61.57	95.97	19 51 59	4575.0	34.18	221.80

DIFFERENTIAL CORRECTIONS
TDE-2.6400 TRA 2.5116 TC3-3.8560 BAU .9571
RDE .2506 RRA .1164 RC3 -.1754 FAU .03235
FDE-1.6049 FRA 1.8238 FC3-1.5100 BSP 19493
BDE 2.6519 BRA 2.5143 BC3 3.8600 FSP -1074

MID-COURSE EXECUTION ACCURACY
SGT 6127.8 SGR 405.5 SG3 320.1
RRT -.0049 RRF -.0254 RTF .9741
SGB 6141.2 R23 .0206 R13 -.9741
SG1 6127.8 SG2 405.5 THA 179.98

ORBIT DETERMINATION ACCURACY
ST 3691.0 SR 337.5 SS 1335.3
CRT -.8922 CRS .8661 CST -.9984
LSA 3935.9 MSA 168.7 SSA 16.4
EL1 3703.3 EL2 152.0 ALF 175.33

LAUNCH DATE JUN 4 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 21 1967

HELIOCENTRIC CONIC DISTANCE 563.831

RL 151.76 LAL -.00 LOL 252.71 VL 26.360 GAL 6.45 AZL 93.37 HCA 265.02 SMA 125.90 ECC .23300 INC 3.3683 VI 29.357
RP 107.55 LAP 3.36 LOP 157.73 VP 37.601 GAP 10.59 AZP 89.71 TAL 157.62 TAP 62.65 RCA 96.57 APO 155.23 V2 35.234
RC 148.521 GL -20.11 GP -1.15 ZAL 52.66 ZAP 165.72 ETS 355.13 ZAE 126.21 ETE 181.38 ZAC 93.60 ETC 13.85 CLP-165.76

PLANETOCENTRIC CONIC

C3 20.031 VHL 4.476 DLA -27.46 RAL 192.97 RAD 6567.8 VEL 11.892 PTH 2.11 VHP 7.020 DPA 5.23 RAP 173.51 ECC 1.3297

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 23 43	1091.91	14.35	336.54	59.29	114.67	12 41 55	491.9	17.57	329.33
90.00	14 25 56	693.58	23.89	311.26	62.99	105.67	14 37 30	93.6	25.81	303.12
100.00	13 5 13	957.80	11.13	325.06	57.65	117.92	13 21 11	357.8	14.78	318.17
100.00	16 27 7	5590.96	27.39	261.40	63.96	102.48	18 0 18	4991.0	28.83	252.89
110.00	13 14 32	928.51	5.73	319.59	54.40	123.76	13 30 1	328.5	10.12	313.25
110.00	18 34 17	5193.01	33.58	232.40	65.18	96.79	20 0 50	4593.0	34.16	223.20

DIFFERENTIAL CORRECTIONS
TDE-2.7156 TRA 2.7488 TC3-3.5961 BAU .9639
RDE .2719 RRA .1142 RC3 -.1556 FAU .02937
FDE-1.5382 FRA 1.8385 FC3-1.2692 BSP 19716
BDE 2.7292 BRA 2.7512 BC3 3.5995 FSP -1017

MID-COURSE EXECUTION ACCURACY
SGT 6178.6 SGR 409.6 SG3 301.8
RRT -.0429 RRF -.0631 RTF .9739
SGB 6192.2 R23 .0211 R13 -.9739
SG1 6178.6 SG2 409.2 THA 179.84

ORBIT DETERMINATION ACCURACY
ST 3675.7 SR 351.7 SS 1288.3
CRT -.8905 CRS .8649 CST -.9985
LSA 3906.9 MSA 174.0 SSA 16.0
EL1 3689.1 EL2 159.4 ALF 175.12

LAUNCH DATE JUN 4 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 23 1967

HELIOCENTRIC CONIC DISTANCE 569.476

RL 151.76 LAL -.00 LOL 252.71 VL 26.328 GAL 6.96 AZL 93.38 HCA 268.27 SMA 125.70 ECC .23881 INC 3.3806 VI 29.357
RP 107.57 LAP 3.38 LOP 160.97 VP 37.572 GAP 11.09 AZP 89.90 TAL 156.47 TAP 64.74 RCA 95.68 APO 155.72 V2 35.228
RC 150.615 GL -19.31 GP -1.10 ZAL 50.83 ZAP 166.94 ETS 354.79 ZAE 125.87 ETE 181.34 ZAC 91.63 ETC 13.75 CLP-166.99

PLANETOCENTRIC CONIC

C3 21.711 VHL 4.659 DLA -27.42 RAL 195.05 RAD 6567.9 VEL 11.962 PTH 2.13 VHP 7.297 DPA 4.46 RAP 175.39 ECC 1.3573

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 30 34	1116.05	13.66	337.97	62.55	115.04	12 49 11	516.0	16.93	330.82
90.00	14 35 44	708.07	23.62	312.24	66.48	106.09	14 47 32	108.1	25.60	304.13
100.00	13 12 41	979.97	10.42	326.32	60.88	118.18	13 29 1	380.0	14.10	319.47
100.00	16 36 18	5607.42	27.14	262.56	67.49	103.04	18 9 46	5007.4	28.66	254.08
110.00	13 22 23	949.51	4.93	320.69	57.56	123.87	13 38 13	349.5	9.35	314.38
110.00	18 43 6	5210.64	33.43	233.75	68.82	97.57	20 9 56	4610.6	34.12	224.58

DIFFERENTIAL CORRECTIONS
TDE-2.7907 TRA 3.0013 TC3-3.3343 BAU .9686
RDE .2940 RRA .1108 RC3 -.1367 FAU .02654
FDE-1.4753 FRA 1.8548 FC3-1.0584 BSP 19911
BDE 2.8061 BRA 3.0034 BC3 3.3371 FSP -964

MID-COURSE EXECUTION ACCURACY
SGT 6222.3 SGR 412.9 SG3 284.8
RRT -.0804 RRF -.0998 RTF .9738
SGB 6236.0 R23 .0212 R13 -.9738
SG1 6222.4 SG2 411.6 THA 179.69

ORBIT DETERMINATION ACCURACY
ST 3652.4 SR 364.5 SS 1242.9
CRT -.8885 CRS .8633 CST -.9985
LSA 3871.1 MSA 179.4 SSA 15.6
EL1 3666.8 EL2 166.6 ALF 174.92

LAUNCH DATE JUN 4 1967 FLIGHT TIME 204.00 ARRIVAL DATE DEC 25 1967

HELIOCENTRIC CONIC DISTANCE 575.062

RL 151.76 LAL -.00 LOL 252.71 VL 26.297 GAL 7.50 AZL 93.39 HCA 271.51 SMA 125.50 ECC .24507 INC 3.3929 VI 29.357
RP 107.59 LAP 3.39 LOP 164.22 VP 37.544 GAP 11.61 AZP 90.09 TAL 155.32 TAP 66.83 RCA 94.75 APO 156.26 V2 35.221
RC 152.696 GL -18.51 GP -1.06 ZAL 49.04 ZAP 168.13 ETS 354.39 ZAE 125.56 ETE 181.30 ZAC 89.63 ETC 13.67 CLP-168.18

PLANETOCENTRIC CONIC

C3 23.615 VHL 4.859 DLA -27.34 RAL 197.09 RAD 6568.0 VEL 12.041 PTH 2.15 VHP 7.590 DPA 3.67 RAP 177.28 ECC 1.3886

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 36 4	1145.14	12.82	339.69	65.76	115.47	12 55 9	545.1	16.14	332.59
90.00	14 46 28	719.82	23.40	313.03	70.01	106.42	14 58 28	119.8	25.43	304.95
100.00	13 19 14	1005.64	9.59	327.78	64.09	118.45	13 36 0	405.6	13.31	320.97
100.00	16 45 59	5622.60	26.90	263.62	71.05	103.55	18 19 42	5022.6	28.50	255.18
110.00	13 29 37	973.06	4.04	321.93	60.70	123.97	13 45 50	373.1	8.47	315.64
110.00	18 52 6	5227.94	33.27	235.08	72.47	98.34	20 19 14	4627.9	34.07	225.93

DIFFERENTIAL CORRECTIONS
TDE-2.8664 TRA 3.2696 TC3-3.0745 BAU .9714
RDE .3168 RRA .1061 RC3 -.1190 FAU .02389
FDE-1.4172 FRA 1.8720 FC3 -.8758 BSP 20090
BDE 2.8839 BRA 3.2713 BC3 3.0768 FSP -914

MID-COURSE EXECUTION ACCURACY
SGT 6259.8 SGR 415.6 SG3 269.0
RRT -.1175 RRF -.1359 RTF .9737
SGB 6273.6 R23 .0211 R13 -.9737
SG1 6260.0 SG2 412.8 THA 179.55

ORBIT DETERMINATION ACCURACY
ST 3622.9 SR 376.0 SS 1199.9
CRT -.8863 CRS .8614 CST -.9986
LSA 3830.4 MSA 184.6 SSA 15.2
EL1 3638.2 EL2 173.4 ALF 174.73

LAUNCH DATE JUN 4 1967 FLIGHT TIME 206.00 ARRIVAL DATE DEC 27 1967

DISTANCE 580.584

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.265 GAL 8.07 AZL 93.41 HCA 274.75 SMA 125.31 ECC .25183 INC 3.4052 V1 29.357
RP 107.62 LAP 3.39 LOP 167.47 VP 37.515 GAP 12.16 AZP 90.28 TAL 154.18 TAP 68.93 RCA 93.75 APO 156.86 V2 35.214
RC 154.762 GL -17.71 GP -1.02 ZAL 47.31 ZAP 169.30 ETS 353.92 ZAE 125.26 ETE 181.26 ZAC 87.62 ETC 13.59 CLP-169.35

PLANETOCENTRIC CONIC
C3 25.775 VHL 5.077 DLA -27.23 RAL 199.06 RAD 6568.0 VEL 12.131 PTH 2.17 VHP 7.899 DPA 2.86 RAP 179.19 ECC 1.4242

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 40 21	1178.53	11.83	341.65	68.93	115.91	13 0 0	578.5	15.22	334.61
90.00	14 57 57	729.47	23.21	313.67	73.58	106.69	15 10 7	129.5	25.28	305.61
100.00	13 24 55	1034.56	8.64	329.41	67.26	118.73	13 42 9	434.6	12.41	322.65
100.00	16 56 4	5636.72	26.67	264.61	74.62	104.02	18 30 1	5036.7	28.34	256.20
110.00	13 36 14	999.03	3.05	323.29	63.83	124.06	13 52 53	399.0	7.50	317.03
110.00	19 1 15	5245.01	33.09	236.38	76.14	99.09	20 28 40	4645.0	34.00	227.26

DIFFERENTIAL CORRECTIONS
TDE-2.9430 TRA 3.5551 TC3-2.8180 BAU .9717
RDE .3403 RRA .0999 RC3 -.1026 FAU .02138
FDE-1.3635 FRA 1.8910 FC3 -.7181 BSP 20247
BDE 2.9626 BRA 3.5565 BC3 2.8198 FSP -867

MID-COURSE EXECUTION ACCURACY
SGT 6291.1 SGR 417.7 SG3 254.3
RRT -.1542 RRF -.1714 RTF .9737
SGB 6305.0 R23 .0208 R13 -.9737
SG1 6291.5 SG2 412.6 THA 179.41

ORBIT DETERMINATION ACCURACY
ST 3587.7 SR 385.9 SS 1159.5
CRT -.8839 CRS .8594 CST -.9987
LSA 3785.3 MSA 189.6 SSA 14.8
EL1 3603.9 EL2 179.7 ALF 174.55

LAUNCH DATE JUN 4 1967 FLIGHT TIME 208.00 ARRIVAL DATE DEC 29 1967

DISTANCE 586.033

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.234 GAL 8.69 AZL 93.42 HCA 277.99 SMA 125.11 ECC .25914 INC 3.4177 V1 29.357
RP 107.64 LAP 3.38 LOP 170.71 VP 37.485 GAP 12.74 AZP 90.48 TAL 153.04 TAP 71.03 RCA 92.69 APO 157.53 V2 35.205
RC 156.813 GL -16.92 GP -.98 ZAL 45.63 ZAP 170.45 ETS 353.35 ZAE 124.97 ETE 181.22 ZAC 85.59 ETC 13.54 CLP-170.50

PLANETOCENTRIC CONIC
C3 28.231 VHL 5.313 DLA -27.09 RAL 200.98 RAD 6568.1 VEL 12.231 PTH 2.20 VHP 8.226 DPA 2.04 RAP 181.12 ECC 1.4646

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 43 38	1215.56	10.72	343.80	72.06	116.37	13 3 53	615.6	14.18	336.83
90.00	15 9 56	737.67	23.05	314.22	77.16	106.92	15 22 14	137.7	25.15	306.18
100.00	13 29 47	1066.46	7.60	331.20	70.40	119.00	13 47 33	466.5	11.41	324.48
100.00	17 6 28	5650.03	26.45	265.53	78.21	104.46	18 40 38	5050.0	28.18	257.16
110.00	13 42 15	1027.32	1.97	324.77	66.93	124.13	13 59 22	427.3	6.43	318.53
110.00	19 10 29	5261.94	32.90	237.66	79.81	99.83	20 38 11	4661.9	33.91	228.57

DIFFERENTIAL CORRECTIONS
TDE-3.0175 TRA 3.8621 TC3-2.5619 BAU .9675
RDE .3644 RRA .0921 RC3 -.0877 FAU .01890
FDE-1.3117 FRA 1.9136 FC3 -.5797 BSP 20304
BDE 3.0394 BRA 3.8632 BC3 2.5634 FSP -818

MID-COURSE EXECUTION ACCURACY
SGT 6315.2 SGR 419.0 SG3 240.6
RRT -.1902 RRF -.2056 RTF .9737
SGB 6329.1 R23 .0200 R13 -.9738
SG1 6315.7 SG2 411.3 THA 179.27

ORBIT DETERMINATION ACCURACY
ST 3544.6 SR 394.4 SS 1120.3
CRT -.8809 CRS .8566 CST -.9987
LSA 3733.2 MSA 194.6 SSA 14.4
EL1 3561.6 EL2 185.8 ALF 174.39

LAUNCH DATE JUN 4 1967 FLIGHT TIME 210.00 ARRIVAL DATE DEC 31 1967

DISTANCE 591.397

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.202 GAL 9.34 AZL 93.43 HCA 281.23 SMA 124.92 ECC .26705 INC 3.4303 V1 29.357
RP 107.67 LAP 3.36 LOP 173.95 VP 37.455 GAP 13.34 AZP 90.67 TAL 151.91 TAP 73.14 RCA 91.56 APO 158.28 V2 35.197
RC 158.850 GL -16.12 GP -.95 ZAL 44.01 ZAP 171.59 ETS 352.66 ZAE 124.69 ETE 181.17 ZAC 83.54 ETC 13.50 CLP-171.64

PLANETOCENTRIC CONIC
C3 31.029 VHL 5.570 DLA -26.92 RAL 202.82 RAD 6568.2 VEL 12.345 PTH 2.23 VHP 8.575 DPA 1.21 RAP 183.05 ECC 1.5107

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 46 3	1255.60	9.50	346.11	75.15	116.80	13 6 59	655.6	13.03	339.20
90.00	15 22 14	744.95	22.90	314.71	80.76	107.12	15 34 39	145.0	25.03	306.68
100.00	13 33 54	1101.07	6.45	333.12	73.51	119.25	13 52 15	501.1	10.30	326.45
100.00	17 17 4	5662.76	26.23	266.42	81.81	104.88	18 51 27	5062.8	28.02	258.07
110.00	13 47 41	1057.78	.80	326.36	70.01	124.17	14 5 19	457.8	5.28	320.13
110.00	19 19 46	5278.81	32.70	238.94	83.48	100.56	20 47 45	4678.8	33.81	229.88

DIFFERENTIAL CORRECTIONS
TDE-3.0981 TRA 4.1848 TC3-2.3190 BAU .9625
RDE .3891 RRA .0826 RC3 -.0741 FAU .01666
FDE-1.2666 FRA 1.9360 FC3 -.4649 BSP 20437
BDE 3.1224 BRA 4.1857 BC3 2.3202 FSP -777

MID-COURSE EXECUTION ACCURACY
SGT 6335.1 SGR 419.6 SG3 227.8
RRT -.2265 RRF -.2403 RTF .9740
SGB 6348.9 R23 .0192 R13 -.9740
SG1 6335.8 SG2 408.7 THA 179.14

ORBIT DETERMINATION ACCURACY
ST 3501.1 SR 401.3 SS 1085.4
CRT -.8782 CRS .8543 CST -.9988
LSA 3682.0 MSA 198.8 SSA 14.0
EL1 3518.9 EL2 190.9 ALF 174.24

LAUNCH DATE JUN 4 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 2 1968

DISTANCE 596.666

HELIOCENTRIC CONIC
RL 151.76 LAL -.00 LOL 252.71 VL 26.171 GAL 10.04 AZL 93.44 HCA 284.46 SMA 124.72 ECC .27563 INC 3.4433 V1 29.357
RP 107.70 LAP 3.33 LOP 177.20 VP 37.424 GAP 13.99 AZP 90.86 TAL 150.80 TAP 75.26 RCA 90.35 APO 159.10 V2 35.187
RC 160.871 GL -15.34 GP -.92 ZAL 42.45 ZAP 172.71 ETS 351.78 ZAE 124.41 ETE 181.12 ZAC 81.49 ETC 13.48 CLP-172.76

PLANETOCENTRIC CONIC
C3 34.224 VHL 5.850 DLA -26.72 RAL 204.59 RAD 6568.3 VEL 12.474 PTH 2.26 VHP 8.947 DPA .36 RAP 184.98 ECC 1.5632

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 47 46	1298.14	8.19	348.55	78.19	117.20	13 9 24	698.1	11.77	341.70
90.00	15 34 39	751.80	22.77	315.16	84.36	107.31	15 47 11	151.8	24.92	307.15
100.00	13 37 19	1138.10	5.21	335.18	76.57	119.48	13 56 17	538.1	9.10	328.55
100.00	17 27 48	5675.10	26.01	267.27	85.40	105.28	19 2 23	5075.1	27.85	258.95
110.00	13 52 33	1090.27	-.44	328.05	73.06	124.18	14 10 43	490.3	4.05	321.84
110.00	19 29 3	5295.70	32.48	240.21	87.15	101.28	20 57 18	4695.7	33.70	231.18

DIFFERENTIAL CORRECTIONS
TDE-3.1814 TRA 4.5285 TC3-2.0845 BAU .9542
RDE .4144 RRA .0713 RC3 -.0619 FAU .01453
FDE-1.2255 FRA 1.9606 FC3 -.3676 BSP 20556
BDE 3.2082 BRA 4.5291 BC3 2.0854 FSP -739

MID-COURSE EXECUTION ACCURACY
SGT 6349.1 SGR 419.6 SG3 215.9
RRT -.2627 RRF -.2746 RTF .9744
SGB 6362.9 R23 .0182 R13 -.9744
SG1 6350.0 SG2 404.8 THA 179.00

ORBIT DETERMINATION ACCURACY
ST 3454.3 SR 406.5 SS 1053.3
CRT -.8755 CRS .8520 CST -.9988
LSA 3628.5 MSA 202.4 SSA 13.6
EL1 3472.7 EL2 195.4 ALF 174.10

LAUNCH DATE JUN 4 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 4 1968

HELIOCENTRIC CONIC DISTANCE 601.824

RL 151.76 LAL -.00 LOL 252.71 VL 26.139 GAL 10.79 AZL 93.46 HCA 287.69 SMA 124.53 ECC .28496 INC 3.4566 V1 29.357
RP 107.73 LAP 3.29 LOP 180.43 VP 37.393 GAP 14.67 AZP 91.05 TAL 149.71 TAP 77.41 RCA 89.05 APO 160.02 V2 35.178
RC 162.878 GL -14.57 GP -.89 ZAL 40.96 ZAP 173.82 ETS 350.62 ZAE 124.12 ETE 181.07 ZAC 79.44 ETC 13.48 CLP-173.88

PLANETOCENTRIC CONIC

C3 37.884 VHL 6.155 DLA -26.49 RAL 206.29 RAD 6568.5 VEL 12.620 PTH 2.29 VHP 9.346 DPA -.49 RAP 186.92 ECC 1.6235

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 48 53	1342.73	6.79	351.08	81.19	117.56	13 11 16	742.7	10.43	344.29
90.00	15 47 5	758.53	22.63	315.61	87.95	107.49	15 59 44	158.5	24.81	307.62
100.00	13 40 6	1177.30	3.90	337.34	79.60	119.66	13 59 43	577.3	7.82	330.75
100.00	17 38 33	5687.23	25.79	268.10	88.98	105.66	19 13 20	5087.2	27.69	259.82
110.00	13 56 52	1124.66	-1.75	329.84	76.08	124.14	14 15 37	524.7	2.74	323.64
110.00	19 38 16	5312.64	32.25	241.47	90.80	102.00	21 6 49	4712.6	33.57	232.49

DIFFERENTIAL CORRECTIONS
TDE-3.2678 TRA 4.8960 TC3-1.8583 BAU .9415
RDE .4402 RRA .0580 RC3 -.0512 FAU .01247
FDE-1.1882 FRA 1.9884 FC3 -.2850 BSP 20645
BDE 3.2974 BRA 4.8963 BC3 1.8590 FSP -702

MID-COURSE EXECUTION ACCURACY
SGT 6357.5 SGR 419.0 SG3 204.9
RRT -.2986 RRF -.3085 RTF .9750
SGB 6371.3 R23 .0170 R13 -.9750
SG1 6358.7 SG2 399.8 THA 178.87

ORBIT DETERMINATION ACCURACY
ST 3404.7 SR 410.2 SS 1024.1
CRT -.8727 CRS .8497 CST -.9989
LSA 3573.1 MSA 205.5 SSA 13.2
EL1 3423.6 EL2 199.2 ALF 173.98

LAUNCH DATE JUN 4 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 6 1968

HELIOCENTRIC CONIC DISTANCE 606.854

RL 151.76 LAL -.00 LOL 252.71 VL 26.109 GAL 11.60 AZL 93.47 HCA 290.93 SMA 124.34 ECC .29513 INC 3.4703 V1 29.357
RP 107.76 LAP 3.24 LOP 183.67 VP 37.361 GAP 15.41 AZP 91.24 TAL 148.65 TAP 79.57 RCA 87.65 APO 161.04 V2 35.167
RC 164.869 GL -13.81 GP -.86 ZAL 39.53 ZAP 174.93 ETS 348.97 ZAE 123.84 ETE 181.02 ZAC 77.38 ETC 13.50 CLP-175.00

PLANETOCENTRIC CONIC

C3 42.089 VHL 6.488 DLA -26.24 RAL 207.91 RAD 6568.6 VEL 12.785 PTH 2.33 VHP 9.775 DPA -1.34 RAP 188.85 ECC 1.6927

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 49 28	1389.03	5.33	353.69	84.14	117.85	13 12 37	789.0	9.01	346.95
90.00	15 59 25	765.39	22.49	316.06	91.52	107.68	16 12 10	165.4	24.70	308.08
100.00	13 42 18	1218.41	2.51	339.61	82.58	119.80	14 2 36	618.4	6.46	333.04
100.00	17 49 16	5699.28	25.57	268.93	92.54	106.04	19 24 15	5099.3	27.52	260.67
110.00	14 0 39	1160.79	-3.13	331.73	79.07	124.06	14 20 0	560.8	1.36	325.53
110.00	19 47 24	5329.67	32.00	242.74	94.42	102.71	21 16 13	4729.7	33.42	233.80

DIFFERENTIAL CORRECTIONS
TDE-3.3551 TRA 5.2921 TC3-1.6388 BAU .9224
RDE .4664 RRA .0424 RC3 -.0421 FAU .01041
FDE-1.1531 FRA 2.0206 FC3 -.2142 BSP 20622
BDE 3.3874 BRA 5.2923 BC3 1.6393 FSP -664

MID-COURSE EXECUTION ACCURACY
SGT 6360.4 SGR 417.6 SG3 194.6
RRT -.3339 RRF -.3415 RTF .9756
SGB 6374.1 R23 .0154 R13 -.9756
SG1 6361.9 SG2 393.6 THA 178.74

ORBIT DETERMINATION ACCURACY
ST 3350.8 SR 412.1 SS 996.9
CRT -.8696 CRS .8469 CST -.9989
LSA 3514.0 MSA 208.0 SSA 12.8
EL1 3370.0 EL2 202.3 ALF 173.87

LAUNCH DATE JUN 4 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 8 1968

HELIOCENTRIC CONIC DISTANCE 611.733

RL 151.76 LAL -.00 LOL 252.71 VL 26.078 GAL 12.47 AZL 93.48 HCA 294.16 SMA 124.16 ECC .30624 INC 3.4847 V1 29.357
RP 107.79 LAP 3.18 LOP 186.91 VP 37.330 GAP 16.19 AZP 91.43 TAL 147.62 TAP 81.78 RCA 86.14 APO 162.18 V2 35.156
RC 166.846 GL -13.06 GP -.84 ZAL 38.17 ZAP 176.03 ETS 346.45 ZAE 123.54 ETE 180.97 ZAC 75.34 ETC 13.54 CLP-176.12

PLANETOCENTRIC CONIC

C3 46.938 VHL 6.851 DLA -25.97 RAL 209.45 RAD 6568.8 VEL 12.973 PTH 2.37 VHP 10.238 DPA -2.19 RAP 190.79 ECC 1.7725

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 49 34	1436.78	3.80	356.37	87.04	118.08	13 13 31	836.8	7.53	349.67
90.00	16 11 34	772.49	22.34	316.53	95.06	107.87	16 24 27	172.5	24.58	308.57
100.00	13 43 56	1261.21	1.06	341.96	85.52	119.88	14 4 57	661.2	5.03	335.41
100.00	17 59 53	5711.32	25.34	269.75	96.07	106.42	19 35 5	5111.3	27.34	261.52
110.00	14 3 55	1198.51	-4.57	333.71	82.02	123.91	14 23 54	598.5	-.08	327.49
110.00	19 56 24	5346.79	31.74	244.01	98.01	103.41	21 25 31	4746.8	33.26	235.11

DIFFERENTIAL CORRECTIONS
TDE-3.4530 TRA 5.7110 TC3-1.4352 BAU .9009
RDE .4932 RRA .0247 RC3 -.0342 FAU .00853
FDE-1.1243 FRA 2.0544 FC3 -.1573 BSP 20707
BDE 3.4881 BRA 5.7110 BC3 1.4356 FSP -632

MID-COURSE EXECUTION ACCURACY
SGT 6358.4 SGR 415.7 SG3 185.0
RRT -.3696 RRF -.3751 RTF .9765
SGB 6372.0 R23 .0139 R13 -.9765
SG1 6360.3 SG2 386.2 THA 178.61

ORBIT DETERMINATION ACCURACY
ST 3298.9 SR 412.5 SS 974.1
CRT -.8671 CRS .8450 CST -.9990
LSA 3458.0 MSA 209.5 SSA 12.4
EL1 3318.3 EL2 204.3 ALF 173.79

LAUNCH DATE JUN 4 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 10 1968

HELIOCENTRIC CONIC DISTANCE 616.436

RL 151.76 LAL -.00 LOL 252.71 VL 26.048 GAL 13.42 AZL 93.50 HCA 297.38 SMA 123.98 ECC .31842 INC 3.4998 V1 29.357
RP 107.83 LAP 3.11 LOP 190.14 VP 37.298 GAP 17.04 AZP 91.61 TAL 146.63 TAP 84.02 RCA 84.50 APO 163.45 V2 35.145
RC 168.808 GL -12.32 GP -.82 ZAL 36.88 ZAP 177.13 ETS 341.99 ZAE 123.23 ETE 180.92 ZAC 73.31 ETC 13.61 CLP-177.25

PLANETOCENTRIC CONIC

C3 52.552 VHL 7.249 DLA -25.67 RAL 210.90 RAD 6568.9 VEL 13.188 PTH 2.41 VHP 10.740 DPA -3.04 RAP 192.71 ECC 1.8649

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 49 13	1485.73	2.23	359.11	89.90	118.24	13 13 59	885.7	5.99	352.45
90.00	16 23 29	779.88	22.19	317.01	98.57	108.06	16 36 29	179.9	24.45	309.07
100.00	13 45 2	1305.50	-.44	344.38	88.42	119.89	14 6 48	705.5	3.54	337.86
100.00	18 10 21	5723.39	25.10	270.57	99.57	106.79	19 45 45	5123.4	27.16	262.37
110.00	14 6 39	1237.68	-6.05	335.77	84.94	123.71	14 27 17	637.7	-1.58	329.54
110.00	20 5 14	5363.97	31.46	245.27	101.56	104.11	21 34 38	4764.0	33.08	236.42

DIFFERENTIAL CORRECTIONS
TDE-3.5572 TRA 6.1611 TC3-1.2420 BAU .8728
RDE .5204 RRA .0045 RC3 -.0276 FAU .00668
FDE-1.0994 FRA 2.0926 FC3 -.1100 BSP 20765
BDE 3.5951 BRA 6.1612 BC3 1.2423 FSP -602

MID-COURSE EXECUTION ACCURACY
SGT 6351.3 SGR 413.3 SG3 176.0
RRT -.4050 RRF -.4085 RTF .9776
SGB 6364.8 R23 .0122 R13 -.9776
SG1 6353.6 SG2 377.7 THA 178.48

ORBIT DETERMINATION ACCURACY
ST 3245.7 SR 411.3 SS 954.5
CRT -.8647 CRS .8432 CST -.9991
LSA 3401.6 MSA 210.0 SSA 12.0
EL1 3265.2 EL2 205.3 ALF 173.72

LAUNCH DATE JUN 5 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 14 1967

HELIOCENTRIC CONIC DISTANCE 150.627

RL 151.78 LAL -.00 LOL 253.67 VL 20.752 GAL 5.90 AZL 93.29 HCA 57.06 SMA 100.69 ECC .51515 INC 3.2859 V1 29.353
RP 108.94 LAP -2.76 LOP 310.68 VP 33.441 GAP -30.68 AZP 91.79 TAL 174.39 TAP 231.45 RCA 48.82 APO 152.56 V2 34.784
RC 48.377 GL -7.53 GP .31 ZAL 77.89 ZAP 19.45 ETS 181.82 ZAE 163.59 ETE 143.43 ZAC 114.32 ETC 16.74 CLP 19.44

PLANETOCENTRIC CONIC

C3 81.437 VHL 9.024 DLA -5.28 RAL 173.22 RAD 6569.6 VEL 14.240 PTH 2.59 VHP 18.099 DPA 14.76 RAP 153.52 ECC 2.3402

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 42 30	2395.35	-23.51	53.27	56.91	106.26	7 22 25	1795.3	-21.05	45.45
90.00	17 21 47	5367.79	27.81	245.23	61.56	84.44	18 51 15	4767.8	26.75	236.73
100.00	8 1 21	2140.97	-24.93	34.09	56.44	107.04	8 37 2	1541.0	-22.36	26.24
100.00	18 45 37	5097.40	29.29	225.17	61.38	83.76	20 10 35	4497.4	28.12	216.57
110.00	9 3 54	1945.17	-28.78	17.82	55.03	109.29	9 36 19	1345.2	-25.88	9.84
110.00	19 59 34	4865.97	33.31	207.01	60.79	81.85	21 20 40	4266.0	31.83	198.10

DIFFERENTIAL CORRECTIONS
TDE .4900 TRA-1.1411 TC3 -.0625 BAU .0849
RDE -.6151 RRA -.2998 RC3 .0466 FAU .01624
FDE -.3174 FRA .4686 FC3 -.1726 BSP 2118
BDE .7864 BRA 1.1798 BC3 .0780 FSP -87

MID-COURSE EXECUTION ACCURACY
SGT 799.3 SGR 442.9 SG3 41.2
RRT .0229 RRF -.0220 RTF -.6432
SGB 913.8 R23 -.0008 R13 -.6432
SG1 799.4 SG2 442.7 THA 1.05

ORBIT DETERMINATION ACCURACY
ST 380.0 SR 394.7 SS 345.2
CRT -.7265 CRS -.8439 CST .9801
LSA 612.4 MSA 210.2 SSA 14.1
EL1 509.2 EL2 202.5 ALF 133.50

LAUNCH DATE JUN 5 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 16 1967

HELIOCENTRIC CONIC DISTANCE 156.975

RL 151.78 LAL -.00 LOL 253.67 VL 21.271 GAL 5.63 AZL 93.30 HCA 60.22 SMA 102.38 ECC .49014 INC 3.2981 V1 29.353
RP 108.94 LAP -2.86 LOP 313.84 VP 33.766 GAP -29.14 AZP 91.64 TAL 174.09 TAP 234.30 RCA 52.20 APO 152.56 V2 34.784
RC 47.155 GL -8.23 GP .32 ZAL 77.47 ZAP 17.86 ETS 181.85 ZAE 164.91 ETE 137.35 ZAC 112.80 ETC 16.46 CLP 17.85

PLANETOCENTRIC CONIC

C3 72.444 VHL 8.511 DLA -6.09 RAL 173.36 RAD 6569.4 VEL 13.921 PTH 2.54 VHP 17.262 DPA 14.23 RAP 155.05 ECC 2.1922

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 49 13	2342.68	-22.46	49.76	54.87	107.72	7 28 15	1742.7	-19.82	42.08
90.00	17 16 8	5366.34	27.80	245.13	60.03	84.38	18 45 35	4766.3	26.73	236.62
100.00	8 7 40	2089.59	-23.86	30.65	54.37	108.56	8 42 29	1489.6	-21.11	22.94
100.00	18 40 22	5094.65	29.27	224.97	59.85	83.66	20 5 17	4494.7	28.09	216.37
110.00	9 9 18	1896.63	-27.65	14.50	52.86	110.95	9 40 54	1296.6	-24.54	6.70
110.00	19 55 14	4860.38	33.26	206.58	59.25	81.60	21 16 14	4260.4	31.74	197.68

DIFFERENTIAL CORRECTIONS
TDE .4896 TRA-1.1254 TC3 -.0560 BAU .0749
RDE -.5835 RRA -.2840 RC3 .0533 FAU .01676
FDE -.3341 FRA .4804 FC3 -.2003 BSP 2261
BDE .7617 BRA 1.1606 BC3 .0773 FSP -98

MID-COURSE EXECUTION ACCURACY
SGT 835.6 SGR 446.7 SG3 45.1
RRT .0224 RRF -.0220 RTF -.6634
SGB 947.4 R23 -.0013 R13 -.6634
SG1 835.6 SG2 446.5 THA .96

ORBIT DETERMINATION ACCURACY
ST 401.1 SR 397.0 SS 366.0
CRT -.7303 CRS -.8488 CST .9795
LSA 637.7 MSA 213.4 SSA 14.4
EL1 524.9 EL2 207.2 ALF 135.40

LAUNCH DATE JUN 5 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 18 1967

HELIOCENTRIC CONIC DISTANCE 163.380

RL 151.78 LAL -.00 LOL 253.67 VL 21.752 GAL 5.34 AZL 93.31 HCA 63.38 SMA 104.04 ECC .46627 INC 3.3095 V1 29.353
RP 108.94 LAP -2.96 LOP 317.01 VP 34.072 GAP -27.67 AZP 91.48 TAL 173.82 TAP 237.20 RCA 55.53 APO 152.56 V2 34.785
RC 46.068 GL -8.96 GP .33 ZAL 77.15 ZAP 16.27 ETS 181.90 ZAE 166.15 ETE 129.76 ZAC 111.28 ETC 16.19 CLP 16.27

PLANETOCENTRIC CONIC

C3 64.518 VHL 8.032 DLA -6.90 RAL 173.38 RAD 6569.2 VEL 13.634 PTH 2.49 VHP 16.458 DPA 13.69 RAP 156.57 ECC 2.0618

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 55 30	2289.61	-21.32	46.29	52.75	109.09	7 33 39	1689.6	-18.52	38.74
90.00	17 10 3	5364.35	27.79	244.98	58.35	84.31	18 39 28	4764.3	26.71	236.48
100.00	8 13 33	2037.82	-22.70	27.25	52.22	109.99	8 47 31	1437.8	-19.77	19.68
100.00	18 34 42	5091.37	29.25	224.73	58.18	83.53	19 59 33	4491.4	28.04	216.13
110.00	9 14 16	1847.72	-26.41	11.23	50.64	112.53	9 45 3	1247.7	-23.12	3.62
110.00	19 50 28	4854.23	33.20	206.11	57.56	81.33	21 11 22	4254.2	31.64	197.23

DIFFERENTIAL CORRECTIONS
TDE .4883 TRA-1.1105 TC3 -.0475 BAU .0665
RDE -.5528 RRA -.2684 RC3 .0608 FAU .01733
FDE -.3520 FRA .4921 FC3 -.2325 BSP 2365
BDE .7375 BRA 1.1425 BC3 .0771 FSP -109

MID-COURSE EXECUTION ACCURACY
SGT 874.0 SGR 449.7 SG3 49.5
RRT .0232 RRF -.0220 RTF -.6818
SGB 982.9 R23 -.0005 R13 -.6818
SG1 874.0 SG2 449.5 THA .93

ORBIT DETERMINATION ACCURACY
ST 422.6 SR 398.5 SS 387.9
CRT -.7332 CRS -.8539 CST .9785
LSA 664.0 MSA 216.3 SSA 14.7
EL1 540.9 EL2 211.8 ALF 137.29

LAUNCH DATE JUN 5 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 20 1967

HELIOCENTRIC CONIC DISTANCE 169.836

RL 151.78 LAL -.00 LOL 253.67 VL 22.198 GAL 5.05 AZL 93.32 HCA 66.54 SMA 105.67 ECC .44355 INC 3.3204 V1 29.353
RP 108.93 LAP -3.05 LOP 320.17 VP 34.361 GAP -26.28 AZP 91.32 TAL 173.60 TAP 240.14 RCA 58.80 APO 152.54 V2 34.787
RC 45.125 GL -9.72 GP .35 ZAL 76.93 ZAP 14.69 ETS 182.00 ZAE 167.20 ETE 120.37 ZAC 109.75 ETC 15.94 CLP 14.69

PLANETOCENTRIC CONIC

C3 57.530 VHL 7.585 DLA -7.69 RAL 173.30 RAD 6569.0 VEL 13.375 PTH 2.44 VHP 15.686 DPA 13.14 RAP 158.10 ECC 1.9468

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 1 21	2236.30	-20.09	42.86	50.57	110.39	7 38 37	1636.3	-17.13	35.43
90.00	17 3 31	5361.99	27.77	244.81	56.54	84.23	18 32 53	4762.0	26.68	236.32
100.00	8 18 59	1985.83	-21.45	23.89	50.01	111.33	8 52 5	1385.8	-18.36	16.46
100.00	18 28 35	5087.70	29.22	224.46	56.36	83.39	19 53 22	4487.7	28.00	215.87
110.00	9 18 47	1798.61	-25.09	8.03	48.36	114.01	9 48 45	1198.6	-21.63	.59
110.00	19 45 16	4847.67	33.13	205.61	55.73	81.04	21 6 4	4247.7	31.54	196.75

DIFFERENTIAL CORRECTIONS
TDE .4896 TRA-1.0924 TC3 -.0346 BAU .0594
RDE -.5229 RRA -.2532 RC3 .0690 FAU .01797
FDE -.3714 FRA .5030 FC3 -.2705 BSP 2523
BDE .7163 BRA 1.1213 BC3 .0772 FSP -122

MID-COURSE EXECUTION ACCURACY
SGT 912.6 SGR 451.9 SG3 54.2
RRT .0220 RRF -.0215 RTF -.7008
SGB 1018.4 R23 -.0010 R13 -.7008
SG1 912.7 SG2 451.8 THA .83

ORBIT DETERMINATION ACCURACY
ST 446.3 SR 399.2 SS 411.3
CRT -.7388 CRS -.8594 CST .9781
LSA 692.8 MSA 218.0 SSA 14.9
EL1 558.9 EL2 214.9 ALF 139.30

LAUNCH DATE JUN 5 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 22 1967

HELIOCENTRIC CONIC DISTANCE 176.337

RL	151.78	LAL	-.00	LOL	253.67	VL	22.613	GAL	4.75	AZL	93.35	HCA	69.70	SMA	107.25	ECC	.42197	INC	3.3307	V1	29.353
RP	108.93	LAP	-3.12	LOP	323.34	VP	34.632	GAP	-24.94	AZP	91.16	TAL	173.43	TAP	243.14	RCA	62.00	APO	152.51	V2	34.790
RC	44.335	GL	-10.53	GP	.36	ZAL	76.83	ZAP	13.11	ETS	182.14	ZAE	167.93	ETE	109.12	ZAC	108.22	ETC	15.70	CLP	13.10

PLANETOCENTRIC CONIC

C3	51.370	VHL	7.167	DLA	-8.49	RAL	173.10	RAD	6568.9	VEL	13.143	PTH	2.40	VHP	14.945	DPA	12.58	RAP	159.61	ECC	1.8454

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 6 45	2182.91	-18.79	39.49	48.32	111.58	7 43 8	1582.9	-15.69	32.18
90.00	16 56 32	5359.45	27.75	244.63	54.59	84.14	18 25 51	4759.5	26.65	236.14
100.00	8 23 59	1933.78	-20.13	20.59	47.75	112.58	8 56 13	1333.8	-16.89	13.29
100.00	18 21 59	5083.82	29.19	224.18	54.41	83.25	19 46 43	4483.8	27.95	215.59
110.00	9 22 50	1749.48	-23.69	4.90	46.04	115.39	9 52 0	1149.5	-20.08	357.62
110.00	19 39 37	4840.88	33.05	205.10	53.77	80.74	21 0 18	4240.9	31.42	196.25

DIFFERENTIAL CORRECTIONS

TDE	.4913	TRA	-1.0734	TC3	-.0178	BAU	.0549
RDE	-.4940	RRA	-.2382	RC3	.0780	FAU	.01869
FDE	-.3922	FRA	.5136	FC3	-.3150	BSP	2677
BDE	.6967	BRA	1.0995	BC3	.0800	FSP	-136

MID-COURSE EXECUTION ACCURACY

SGT	952.7	SGR	453.3	SG3	59.5		
RRT	.0211	RRF	-.0210	RTF	-.7189		
SGB	1055.0	R23	-.0014	R13	-.7189		
SG1	952.7	SG2	453.2	THA	.74		

ORBIT DETERMINATION ACCURACY

ST	471.1	SR	399.1	SS	436.0		
CRT	-.7448	CRS	-.8851	CST	.9778		
LSA	723.3	MSA	219.0	SSA	15.2		
EL1	578.1	EL2	217.1	ALF	141.31		

LAUNCH DATE JUN 5 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 24 1967

HELIOCENTRIC CONIC DISTANCE 182.880

RL	151.78	LAL	-.00	LOL	253.67	VL	22.997	GAL	4.45	AZL	93.34	HCA	72.86	SMA	108.79	ECC	.40153	INC	3.3406	V1	29.353
RP	108.92	LAP	-3.19	LOP	326.50	VP	34.887	GAP	-23.67	AZP	90.99	TAL	173.24	TAP	246.18	RCA	65.11	APO	152.48	V2	34.793
RC	43.707	GL	-11.37	GP	.38	ZAL	76.84	ZAP	11.52	ETS	182.36	ZAE	168.21	ETE	96.47	ZAC	106.70	ETC	15.48	CLP	11.52

PLANETOCENTRIC CONIC

C3	45.942	VHL	6.778	DLA	-9.27	RAL	172.78	RAD	6568.7	VEL	12.935	PTH	2.36	VHP	14.232	DPA	12.02	RAP	161.12	ECC	1.7561

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 11 43	2129.64	-17.42	36.17	46.03	112.68	7 47 12	1529.6	-14.20	28.98
90.00	16 49 4	5356.91	27.73	244.45	52.52	84.05	18 18 21	4756.9	26.62	235.96
100.00	8 28 31	1881.86	-18.74	17.36	45.44	113.73	8 59 53	1281.9	-15.37	10.19
100.00	18 14 57	5079.92	29.16	223.89	52.34	83.10	19 39 37	4479.9	27.90	215.32
110.00	9 26 26	1700.51	-22.23	1.85	43.69	116.66	9 54 46	1100.5	-18.47	354.73
110.00	19 33 31	4834.03	32.98	204.58	51.69	80.45	20 54 5	4234.0	31.31	195.75

DIFFERENTIAL CORRECTIONS

TDE	.4936	TRA	-1.0532	TC3	.0036	BAU	.0540
RDE	-.4660	RRA	-.2237	RC3	.0878	FAU	.01949
FDE	-.4149	FRA	.5236	FC3	-.3672	BSP	2837
BDE	.6789	BRA	1.0767	BC3	.0879	FSP	-152

MID-COURSE EXECUTION ACCURACY

SGT	993.9	SGR	453.9	SG3	65.3		
RRT	.0199	RRF	-.0203	RTF	-.7361		
SGB	1092.7	R23	-.0018	R13	-.7362		
SG1	993.9	SG2	453.8	THA	.66		

ORBIT DETERMINATION ACCURACY

ST	497.3	SR	398.1	SS	462.3		
CRT	-.7516	CRS	-.8711	CST	.9775		
LSA	755.8	MSA	219.1	SSA	15.4		
EL1	598.5	EL2	218.2	ALF	143.31		

LAUNCH DATE JUN 5 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 26 1967

HELIOCENTRIC CONIC DISTANCE 189.460

RL	151.78	LAL	-.00	LOL	253.67	VL	23.353	GAL	4.14	AZL	93.35	HCA	76.03	SMA	110.28	ECC	.38220	INC	3.3502	V1	29.353
RP	108.90	LAP	-3.25	LOP	329.67	VP	35.127	GAP	-22.46	AZP	90.81	TAL	173.25	TAP	249.27	RCA	68.13	APO	152.44	V2	34.797
RC	43.245	GL	-12.25	GP	.40	ZAL	76.96	ZAP	9.93	ETS	182.68	ZAE	167.94	ETE	83.44	ZAC	105.18	ETC	15.26	CLP	9.92

PLANETOCENTRIC CONIC

C3	41.160	VHL	6.416	DLA	-10.05	RAL	172.35	RAD	6568.6	VEL	12.749	PTH	2.32	VHP	13.547	DPA	11.46	RAP	162.61	ECC	1.6774

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 16 13	2076.67	-16.00	32.93	43.70	113.68	7 50 49	1476.7	-12.66	25.85
90.00	16 41 7	5354.53	27.72	244.27	50.35	83.96	18 10 22	4754.5	26.59	235.79
100.00	8 32 35	1830.27	-17.29	14.21	43.09	114.77	9 3 5	1230.3	-13.81	7.15
100.00	18 7 26	5076.16	29.13	223.62	50.16	82.96	19 32 2	4476.2	27.85	215.05
110.00	9 29 33	1651.91	-20.71	358.89	41.31	117.82	9 57 5	1051.9	-16.83	351.92
110.00	19 26 58	4827.29	32.90	204.07	49.51	80.15	20 47 25	4227.3	31.19	195.26

DIFFERENTIAL CORRECTIONS

TDE	.4965	TRA	-1.0317	TC3	.0301	BAU	.0566
RDE	-.4391	RRA	-.2096	RC3	.0984	FAU	.02037
FDE	-.4396	FRA	.5332	FC3	-.4285	BSP	2999
BDE	.6628	BRA	1.0528	BC3	.1029	FSP	-170

MID-COURSE EXECUTION ACCURACY

SGT	1036.2	SGR	453.7	SG3	71.8		
RRT	.0188	RRF	-.0197	RTF	-.7525		
SGB	1131.2	R23	-.0021	R13	-.7525		
SG1	1036.2	SG2	453.6	THA	.58		

ORBIT DETERMINATION ACCURACY

ST	524.8	SR	396.3	SS	490.2		
CRT	-.7591	CRS	-.8773	CST	.9773		
LSA	790.4	MSA	218.5	SSA	15.7		
EL1	620.3	EL2	218.2	ALF	145.27		

LAUNCH DATE JUN 5 1967 FLIGHT TIME 84.00 ARRIVAL DATE AUG 28 1967

HELIOCENTRIC CONIC DISTANCE 196.071

RL	151.78	LAL	-.00	LOL	253.67	VL	23.682	GAL	3.84	AZL	93.36	HCA	79.19	SMA	111.72	ECC	.36398	INC	3.3595	V1	29.353
RP	108.89	LAP	-3.30	LOP	332.84	VP	35.351	GAP	-21.30	AZP	90.63	TAL	173.23	TAP	252.42	RCA	71.06	APO	152.39	V2	34.801
RC	42.956	GL	-13.17	GP	.42	ZAL	77.19	ZAP	8.33	ETS	183.18	ZAE	167.13	ETE	71.28	ZAC	103.67	ETC	15.06	CLP	8.32

PLANETOCENTRIC CONIC

C3	36.951	VHL	6.079	DLA	-10.81	RAL	171.80	RAD	6568.4	VEL	12.583	PTH	2.28	VHP	12.888	DPA	10.89	RAP	164.09	ECC	1.6081

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 20 14	2024.23	-14.54	29.78	41.33	114.57	7 53 59	1424.2	-11.11	22.78
90.00	16 32 42	5352.46	27.70	244.12	48.08	83.89	18 1 54	4752.5	26.57	235.64
100.00	8 36 11	1779.24	-15.81	11.15	40.71	115.70	9 5 50	1179.2	-12.22	4.19
100.00	17 59 26	5072.69	29.10	223.36	47.89	82.83	19 23 59	4472.7	27.80	214.80
110.00	9 32 10	1603.89	-19.16	356.03	38.90	118.86	9 58 54	1003.9	-15.16	349.19
110.00	19 19 56	4820.80	32.82	203.58	47.23	79.87	20 40 17	4220.8	31.08	194.79

DIFFERENTIAL CORRECTIONS

TDE	.5006	TRA	-1.0086	TC3	.0628	BAU	.0625
RDE	-.4132	RRA	-.1959	RC3	.1099	FAU	.02136
FDE	-.4667	FRA	.5422	FC3	-.5005	BSP	3169
BDE	.6491	BRA	1.0275	BC3	.1265	FSP	-190

MID-COURSE EXECUTION ACCURACY

SGT	1079.5	SGR	452.7	SG3	78.9		
RRT	.0171	RRF	-.0187	RTF	-.7683		
SGB	1170.5	R23	-.0027	R13	-.7683		
SG1	1079.5	SG2	452.6	THA	.50		

ORBIT DETERMINATION ACCURACY

ST	554.0	SR	393.6	SS	520.2		
CRT	-.7677	CRS	-.8837	CST	.9773		
LSA	827.7	MSA	217.0	SSA	15.9		
EL1	644.0	EL2	217.0	ALF	147.21		

LAUNCH DATE JUN 5 1967 FLIGHT TIME 86.00 ARRIVAL DATE AUG 30 1967

DISTANCE 202.709

HELIOCENTRIC CONIC
RL 151.78 LAL -.00 LOL 253.67 VL 23.987 GAL 3.55 AZL 93.37 HCA 82.36 SMA 113.11 ECC .34683 INC 3.3687 V1 29.353
RP 108.87 LAP -3.34 LOP 336.01 VP 35.561 GAP -20.18 AZP 90.45 TAL 173.27 TAP 255.63 RCA 73.88 APO 152.34 V2 34.806
RC 42.841 GL -14.12 GP .44 ZAL 77.54 ZAP 6.71 ETS 184.00 ZAE 165.86 ETE 60.78 ZAC 102.17 ETC 14.88 CLP 6.70

PLANETOCENTRIC CONIC
C3 33.249 VHL 5.766 DLA -11.56 RAL 171.13 RAD 6568.3 VEL 12.435 PTH 2.25 VHP 12.254 DPA 10.33 RAP 165.56 ECC 1.5472

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 23 47	1972.53	-13.06	26.71	38.94	115.35	7 56 40	1372.5	-9.54	19.80
90.00	16 23 48	5350.86	27.69	244.01	45.73	83.83	17 52 59	4750.9	26.55	235.53
100.00	8 39 17	1728.97	-14.30	8.17	38.31	116.53	9 8 6	1129.0	-10.63	1.31
100.00	17 50 59	5069.66	29.07	223.14	45.54	82.71	19 15 29	4469.7	27.76	214.58
110.00	9 34 18	1556.68	-17.59	353.27	36.48	119.79	10 0 14	956.7	-13.49	346.56
110.00	19 12 28	4814.71	32.75	203.12	44.87	79.61	20 32 43	4214.7	30.97	194.35

DIFFERENTIAL CORRECTIONS
TDE .5051 TRA -.9845 TC3 .1020 BAU .0707
RDE -.3884 RRA -.1828 RC3 .1220 FAU .02247
FDE -.4966 FRA .5505 FC3 -.5850 BSP 3335
BDE .6372 BRA 1.0013 BC3 .1591 FSP -212

MID-COURSE EXECUTION ACCURACY
SGT 1123.7 SGR 450.7 SG3 86.8
RRT .0157 RRF -.0177 RTF -.7831
SGB 1210.7 R23 -.0031 R13 -.7831
SG1 1123.7 SG2 450.7 THA .43

ORBIT DETERMINATION ACCURACY
ST 584.5 SR 390.0 SS 552.1
CRT -.7767 CRS -.8903 CST .9773
LSA 867.3 MSA 214.8 SSA 16.2
EL1 669.1 EL2 214.6 ALF 149.08

LAUNCH DATE JUN 5 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 1 1967

DISTANCE 209.370

HELIOCENTRIC CONIC
RL 151.78 LAL -.00 LOL 253.67 VL 24.270 GAL 3.25 AZL 93.38 HCA 85.52 SMA 114.44 ECC .33074 INC 3.3777 V1 29.353
RP 108.86 LAP -3.37 LOP 339.18 VP 35.758 GAP -19.12 AZP 90.26 TAL 173.37 TAP 258.89 RCA 76.59 APO 152.29 V2 34.812
RC 42.900 GL -15.11 GP .47 ZAL 78.00 ZAP 5.08 ETS 185.43 ZAE 164.25 ETE 52.17 ZAC 100.68 ETC 14.70 CLP 5.06

PLANETOCENTRIC CONIC
C3 29.997 VHL 5.477 DLA -12.30 RAL 170.34 RAD 6568.2 VEL 12.303 PTH 2.22 VHP 11.645 DPA 9.76 RAP 167.00 ECC 1.4937

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 26 51	1921.79	-11.56	23.73	36.52	116.03	7 58 53	1321.8	-7.97	16.90
90.00	16 14 27	5349.82	27.68	243.93	43.30	83.79	17 43 37	4749.8	26.54	235.46
100.00	8 41 54	1679.68	-12.79	5.30	35.89	117.25	9 9 53	1079.7	-9.03	358.52
100.00	17 42 5	5067.16	29.05	222.96	43.12	82.62	19 6 33	4467.2	27.72	214.41
110.00	9 35 55	1510.49	-16.00	350.63	34.05	120.62	10 1 6	910.5	-11.82	344.02
110.00	19 4 33	4809.13	32.68	202.69	42.45	79.37	20 24 42	4209.1	30.87	193.94

DIFFERENTIAL CORRECTIONS
TDE .5107 TRA -.9588 TC3 .1484 BAU .0804
RDE -.3647 RRA -.1702 RC3 .1349 FAU .02370
FDE -.5297 FRA .5582 FC3 -.6841 BSP 3511
BDE .6276 BRA .9738 BC3 .2006 FSP -238

MID-COURSE EXECUTION ACCURACY
SGT 1168.7 SGR 447.9 SG3 95.7
RRT .0138 RRF -.0165 RTF -.7972
SGB 1251.6 R23 -.0036 R13 -.7972
SG1 1168.7 SG2 447.9 THA .35

ORBIT DETERMINATION ACCURACY
ST 616.7 SR 385.5 SS 586.5
CRT -.7866 CRS -.8970 CST .9776
LSA 909.8 MSA 211.7 SSA 16.4
EL1 696.0 EL2 210.9 ALF 150.89

LAUNCH DATE JUN 5 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 3 1967

DISTANCE 216.050

HELIOCENTRIC CONIC
RL 151.78 LAL -.00 LOL 253.67 VL 24.530 GAL 2.97 AZL 93.39 HCA 88.69 SMA 115.71 ECC .31567 INC 3.3866 V1 29.353
RP 108.84 LAP -3.39 LOP 342.35 VP 35.942 GAP -18.09 AZP 90.08 TAL 173.52 TAP 262.21 RCA 79.18 APO 152.23 V2 34.819
RC 43.133 GL -16.13 GP .50 ZAL 78.57 ZAP 3.43 ETS 188.41 ZAE 162.44 ETE 45.26 ZAC 99.22 ETC 14.54 CLP 3.39

PLANETOCENTRIC CONIC
C3 27.143 VHL 5.210 DLA -13.02 RAL 169.44 RAD 6568.1 VEL 12.187 PTH 2.19 VHP 11.059 DPA 9.21 RAP 168.41 ECC 1.4467

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 29 25	1872.25	-10.06	20.86	34.08	116.61	8 0 37	1272.2	-6.41	14.09
90.00	16 4 40	5349.44	27.68	243.91	40.82	83.78	17 33 49	4749.4	26.53	235.43
100.00	8 44 0	1631.62	-11.27	2.54	33.45	117.87	9 11 12	1031.6	-7.46	355.83
100.00	17 32 46	5065.31	29.03	222.82	40.64	82.55	18 57 11	4465.3	27.70	214.27
110.00	9 37 2	1465.53	-14.43	348.10	31.61	121.33	10 1 27	865.5	-10.18	341.58
110.00	18 56 14	4804.15	32.62	202.32	39.96	79.16	20 16 18	4204.2	30.78	193.58

DIFFERENTIAL CORRECTIONS
TDE .5167 TRA -.9319 TC3 .2025 BAU .0911
RDE -.3422 RRA -.1581 RC3 .1483 FAU .02509
FDE -.5663 FRA .5651 FC3 -.8003 BSP 3679
BDE .6197 BRA .9452 BC3 .2510 FSP -266

MID-COURSE EXECUTION ACCURACY
SGT 1214.1 SGR 444.2 SG3 105.5
RRT .0122 RRF -.0155 RTF -.8102
SGB 1292.8 R23 -.0041 R13 -.8103
SG1 1214.1 SG2 444.2 THA .29

ORBIT DETERMINATION ACCURACY
ST 650.0 SR 380.1 SS 623.0
CRT -.7969 CRS -.9038 CST .9779
LSA 954.8 MSA 208.1 SSA 16.7
EL1 724.2 EL2 206.1 ALF 152.61

LAUNCH DATE JUN 5 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 5 1967

DISTANCE 222.745

HELIOCENTRIC CONIC
RL 151.78 LAL -.00 LOL 253.67 VL 24.771 GAL 2.70 AZL 93.40 HCA 91.86 SMA 116.92 ECC .30158 INC 3.3955 V1 29.353
RP 108.81 LAP -3.39 LOP 345.53 VP 36.114 GAP -17.11 AZP 89.89 TAL 173.72 TAP 265.58 RCA 81.66 APO 152.18 V2 34.826
RC 43.534 GL -17.17 GP .53 ZAL 79.25 ZAP 1.78 ETS 197.35 ZAE 160.54 ETE 39.73 ZAC 97.79 ETC 14.39 CLP 1.70

PLANETOCENTRIC CONIC
C3 24.643 VHL 4.964 DLA -13.72 RAL 168.42 RAD 6568.0 VEL 12.084 PTH 2.16 VHP 10.496 DPA 8.66 RAP 169.80 ECC 1.4056

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 31 29	1824.13	-8.58	18.10	31.64	117.09	8 1 53	1224.1	-4.88	11.37
90.00	15 54 30	5349.77	27.68	243.93	38.30	83.79	17 23 39	4749.8	26.53	235.45
100.00	8 45 36	1584.99	-9.78	359.88	31.00	118.39	9 12 1	985.0	-5.91	353.23
100.00	17 23 4	5064.14	29.02	222.74	38.11	82.51	18 47 28	4464.1	27.68	214.19
110.00	9 37 38	1422.04	-12.88	345.69	29.17	121.94	10 1 20	822.0	-8.56	339.24
110.00	18 47 31	4799.85	32.56	202.00	37.44	78.97	20 7 31	4199.9	30.70	193.27

DIFFERENTIAL CORRECTIONS
TDE .5233 TRA -.9041 TC3 .2643 BAU .1022
RDE -.3207 RRA -.1467 RC3 .1621 FAU .02664
FDE -.6073 FRA .5715 FC3 -.9360 BSP 3846
BDE .6137 BRA .9160 BC3 .3101 FSP -297

MID-COURSE EXECUTION ACCURACY
SGT 1260.0 SGR 439.6 SG3 116.4
RRT .0107 RRF -.0143 RTF -.8225
SGB 1334.5 R23 -.0043 R13 -.8225
SG1 1260.0 SG2 439.6 THA .24

ORBIT DETERMINATION ACCURACY
ST 684.6 SR 373.8 SS 662.4
CRT -.8075 CRS -.9106 CST .9782
LSA 1002.7 MSA 204.0 SSA 16.9
EL1 753.9 EL2 200.3 ALF 154.26

LAUNCH DATE JUN 5 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 7 1967

HELIOCENTRIC CONIC DISTANCE 229.450
RL 151.78 LAL -.00 LOL 253.67 VL 24.993 GAL 2.43 AZL 93.40 HCA 95.03 SMA 118.07 ECC .28846 INC 3.4044 VI 29.353
RP 108.79 LAP -3.39 LOP 348.70 VP 36.274 GAP -16.17 AZP 89.70 TAL 173.98 TAP 269.00 RCA 84.01 APO 152.12 V2 34.834
RC 44.099 GL -18.24 GP .57 ZAL 80.03 ZAP .57 ETS 272.99 ZAE 158.61 ETE 35.29 ZAC 96.39 ETC 14.25 CLP -.03
PLANETOCENTRIC CONIC
C3 22.455 VHL 4.739 DLA -14.40 RAL 167.30 RAD 6567.9 VEL 11.993 PTH 2.14 VHP 9.955 DPA 8.12 RAP 171.15 ECC 1.3696

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 33 3	1777.64	-7.13	15.46	29.19	117.48	8 2 40	1177.6	-3.40	8.77
90.00	15 43 59	5350.83	27.69	244.01	35.74	83.83	17 13 9	4750.8	26.55	235.53
100.00	8 46 41	1540.03	-8.31	357.35	28.56	118.82	9 12 21	940.0	-4.40	350.74
100.00	17 13 1	5063.68	29.02	222.70	35.56	82.49	18 37 25	4463.7	27.68	214.16
110.00	9 37 43	1380.22	-11.36	343.40	26.72	122.46	10 0 43	780.2	-7.00	337.02
110.00	18 38 29	4796.25	32.51	201.73	34.89	78.82	19 58 25	4196.3	30.63	193.01

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TOE .5303 TRA -.8759 TC3 .3332 BAU .1132 SGT 1306.3 SGR 434.2 SG3 128.6 ST 720.3 SR 366.7 SS 704.2
RDE -.3003 RRA -.1358 RC3 .1762 FAU .02838 RRT .0093 RRF -.0134 RTF -.8334 CRT -.8181 CRS -.9173 CST .9786
FDE -.6527 FRA .5769 FC3-1.0941 BSP 3991 SGB 1376.6 R23 -.0047 R13 -.8334 LSA 1053.1 MSA 199.6 SSA 17.2
BDE .6094 BRA .8864 BC3 .3769 FSP -333 SG1 1306.3 SG2 434.1 THA .20 EL1 784.7 EL2 193.5 ALF 155.82

LAUNCH DATE JUN 5 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 9 1967

HELIOCENTRIC CONIC DISTANCE 236.163
RL 151.78 LAL -.00 LOL 253.67 VL 25.198 GAL 2.18 AZL 93.41 HCA 98.20 SMA 119.16 ECC .27627 INC 3.4135 VI 29.353
RP 108.76 LAP -3.38 LOP 351.88 VP 36.423 GAP -15.26 AZP 89.51 TAL 174.28 TAP 272.47 RCA 86.24 APO 152.07 V2 34.842
RC 44.820 GL -19.32 GP .61 ZAL 80.90 ZAP 1.91 ETS 341.19 ZAE 156.73 ETE 31.69 ZAC 95.02 ETC 14.12 CLP -1.81
PLANETOCENTRIC CONIC
C3 20.545 VHL 4.533 DLA -15.06 RAL 166.08 RAD 6567.8 VEL 11.913 PTH 2.12 VHP 9.434 DPA 7.61 RAP 172.46 ECC 1.3381

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 34 6	1733.02	-5.72	12.93	26.75	117.78	8 2 59	1133.0	-1.96	6.27
90.00	15 33 11	5352.60	27.70	244.13	33.17	83.89	17 2 23	4752.6	26.57	235.65
100.00	8 47 16	1496.93	-6.89	354.94	26.11	119.16	9 12 13	896.9	-2.95	348.37
100.00	17 2 41	5063.92	29.02	222.72	32.99	82.50	18 27 5	4463.9	27.68	214.18
110.00	9 37 18	1340.25	-9.89	341.23	24.29	122.89	9 59 38	740.3	-5.49	334.91
110.00	18 29 10	4793.37	32.48	201.51	32.32	78.70	19 49 3	4193.4	30.58	192.81

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TOE .5389 TRA -.8444 TC3 .4127 BAU .1248 SGT 1351.2 SGR 427.8 SG3 142.3 ST 757.7 SR 358.7 SS 749.3
RDE -.2811 RRA -.1256 RC3 .1903 FAU .03034 RRT .0073 RRF -.0127 RTF -.8450 CRT -.8300 CRS -.9239 CST .9795
FDE -.7038 FRA .5815 FC3-1.2785 BSP 4182 SGB 1417.3 R23 -.0058 R13 -.8450 LSA 1107.3 MSA 194.3 SSA 17.4
BDE .6078 BRA .8537 BC3 .4544 FSP -373 SG1 1351.3 SG2 427.8 THA .15 EL1 817.6 EL2 185.4 ALF 157.31

LAUNCH DATE JUN 5 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 11 1967

HELIOCENTRIC CONIC DISTANCE 242.880
RL 151.78 LAL -.00 LOL 253.67 VL 25.386 GAL 1.93 AZL 93.42 HCA 101.37 SMA 120.18 ECC .26496 INC 3.4227 VI 29.353
RP 108.74 LAP -3.36 LOP 355.06 VP 36.562 GAP -14.38 AZP 89.32 TAL 174.63 TAP 275.99 RCA 88.34 APO 152.03 V2 34.851
RC 45.690 GL -20.40 GP .65 ZAL 81.85 ZAP 3.69 ETS 349.51 ZAE 154.95 ETE 28.73 ZAC 93.70 ETC 14.00 CLP -3.63
PLANETOCENTRIC CONIC
C3 18.879 VHL 4.345 DLA -15.68 RAL 164.77 RAD 6567.8 VEL 11.843 PTH 2.10 VHP 8.935 DPA 7.11 RAP 173.72 ECC 1.3107

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 34 40	1690.46	-4.37	10.54	24.32	118.01	8 2 50	1090.5	-.59	3.90
90.00	15 22 10	5355.04	27.72	244.31	30.60	83.98	16 51 25	4755.0	26.60	235.82
100.00	8 47 22	1455.90	-5.52	352.66	23.68	119.42	9 11 38	855.9	-1.56	346.12
100.00	16 52 9	5064.83	29.03	222.79	30.42	82.53	18 16 34	4464.8	27.69	214.24
110.00	9 36 23	1302.32	-8.48	339.20	21.87	123.24	9 58 6	702.3	-4.05	332.92
110.00	18 19 37	4791.17	32.45	201.35	29.76	78.60	19 39 28	4191.2	30.54	192.65

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TOE .5465 TRA -.8134 TC3 .4973 BAU .1357 SGT 1395.3 SGR 420.5 SG3 157.7 ST 794.4 SR 349.9 SS 797.3
RDE -.2629 RRA -.1159 RC3 .2042 FAU .03254 RRT .0064 RRF -.0122 RTF -.8545 CRT -.8410 CRS -.9304 CST .9800
FDE -.7612 FRA .5849 FC3-1.4923 BSP 4339 SGB 1457.3 R23 -.0062 R13 -.8545 LSA 1163.2 MSA 189.4 SSA 17.5
BDE .6064 BRA .8216 BC3 .5376 FSP -418 SG1 1395.3 SG2 420.5 THA .12 EL1 849.8 EL2 177.0 ALF 158.71

LAUNCH DATE JUN 5 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 13 1967

HELIOCENTRIC CONIC DISTANCE 249.598
RL 151.78 LAL -.00 LOL 253.67 VL 25.559 GAL 1.70 AZL 93.43 HCA 104.54 SMA 121.15 ECC .25451 INC 3.4320 VI 29.353
RP 108.71 LAP -3.32 LOP 358.24 VP 36.691 GAP -13.54 AZP 89.14 TAL 175.01 TAP 279.56 RCA 90.31 APO 151.98 V2 34.860
RC 46.700 GL -21.49 GP .70 ZAL 82.88 ZAP 5.55 ETS 352.36 ZAE 153.30 ETE 26.28 ZAC 92.43 ETC 13.90 CLP -5.51
PLANETOCENTRIC CONIC
C3 17.431 VHL 4.175 DLA -16.28 RAL 163.38 RAD 6567.7 VEL 11.782 PTH 2.08 VHP 8.455 DPA 6.63 RAP 174.94 ECC 1.2869

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 34 45	1650.14	-3.07	8.28	21.91	118.16	8 2 15	1050.1	.72	1.65
90.00	15 11 2	5358.07	27.74	244.53	28.04	84.09	16 40 20	4758.1	26.63	236.04
100.00	8 46 58	1417.10	-4.22	350.52	21.28	119.62	9 10 35	817.1	-.24	343.99
100.00	16 41 30	5066.34	29.04	222.90	27.86	82.59	18 5 56	4466.3	27.71	214.35
110.00	9 35 1	1266.58	-7.14	337.30	19.47	123.52	9 56 8	666.6	-2.69	331.05
110.00	18 9 56	4789.63	32.43	201.23	27.21	78.54	19 29 46	4189.6	30.51	192.54

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TOE .5553 TRA -.7808 TC3 .5904 BAU .1466 SGT 1438.7 SGR 412.3 SG3 175.0 ST 832.5 SR 340.3 SS 848.9
RDE -.2456 RRA -.1069 RC3 .2177 FAU .03505 RRT .0055 RRF -.0123 RTF -.8639 CRT -.8524 CRS -.9367 CST .9808
FDE -.8260 FRA .5872 FC3-1.7406 BSP 4504 SGB 1496.6 R23 -.0071 R13 -.8639 LSA 1222.8 MSA 184.1 SSA 17.7
BDE .6072 BRA .7881 BC3 .6292 FSP -470 SG1 1438.7 SG2 412.3 THA .10 EL1 883.6 EL2 167.6 ALF 160.04

LAUNCH DATE JUN 5 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 15 1967

DISTANCE 256.315

HELIOCENTRIC CONIC
RL 151.78 LAL -.00 LOL 253.67 VL 25.717 GAL 1.48 AZL 93.44 HCA 107.72 SMA 122.05 ECC .24488 INC 3.4417 V1 29.353
RP 108.68 LAP -3.28 LOP 1.42 VP 36.811 GAP -12.73 AZP 88.95 TAL 175.44 TAP 283.16 RCA 92.17 APO 151.94 V2 34.870
RC 47.841 GL -22.57 GP .76 ZAL 83.96 ZAP 7.49 ETS 353.75 ZAE 151.82 ETE 24.23 ZAC 91.22 ETC 13.80 CLP -7.45

PLANETOCENTRIC CONIC
C3 16.174 VHL 4.022 DLA -16.83 RAL 161.94 RAD 6567.6 VEL 11.729 PTH 2.07 VHP 7.995 DPA 6.19 RAP 176.10 ECC 1.2662

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 34 22	1612.22	-1.85	6.16	19.54	118.26	8 1 14	1012.2	1.94	359.54
90.00	14 59 52	5361.61	27.77	244.79	25.51	84.21	16 29 13	4761.6	26.68	236.29
100.00	8 46 7	1380.67	-2.99	348.51	18.91	119.76	9 9 8	780.7	.99	341.99
100.00	16 30 47	5068.39	29.06	223.05	25.34	82.67	17 55 16	4468.4	27.74	214.49
110.00	9 33 13	1233.15	-5.88	335.53	17.11	123.73	9 53 46	633.2	-1.41	329.30
110.00	18 0 11	4788.67	32.41	201.16	24.69	78.50	19 20 0	4188.7	30.49	192.47

DIFFERENTIAL CORRECTIONS
TDE .5630 TRA -.7486 TC3 .6867 BAU .1566
RDE -.2294 RRA -.0984 RC3 .2305 FAU .03785
FDE -.8987 FRA .5890 FC3-2.0261 BSP 4638
BDE .6079 BRA .7550 BC3 .7244 FSP -528

MID-COURSE EXECUTION ACCURACY
SGT 1479.8 SGR 403.3 SG3 194.4
RRT .0059 RRF -.0134 RTF -.8720
SGB 1533.8 R23 -.0079 R13 -.8720
SG1 1479.8 SG2 403.3 THA .10

ORBIT DETERMINATION ACCURACY
ST 869.1 SR 329.8 SS 903.5
CRT -.8629 CRS -.9426 CST .9814
LSA 1283.7 MSA 179.4 SSA 17.7
EL1 916.0 EL2 158.1 ALF 161.29

LAUNCH DATE JUN 5 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 17 1967

DISTANCE 263.027

HELIOCENTRIC CONIC
RL 151.78 LAL -.00 LOL 253.67 VL 25.862 GAL 1.27 AZL 93.45 HCA 110.90 SMA 122.90 ECC .23603 INC 3.4518 V1 29.353
RP 108.64 LAP -3.22 LOP 4.60 VP 36.922 GAP -11.94 AZP 88.77 TAL 175.89 TAP 286.79 RCA 93.89 APO 151.91 V2 34.881
RC 49.103 GL -23.63 GP .83 ZAL 85.10 ZAP 9.50 ETS 354.54 ZAE 150.53 ETE 22.52 ZAC 90.08 ETC 13.71 CLP -9.47

PLANETOCENTRIC CONIC
C3 15.086 VHL 3.884 DLA -17.36 RAL 160.44 RAD 6567.6 VEL 11.682 PTH 2.05 VHP 7.554 DPA 5.78 RAP 177.19 ECC 1.2483

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 33 33	1576.79	-.71	4.19	17.21	118.31	7 59 50	976.8	3.08	357.56
90.00	14 48 45	5365.57	27.79	245.07	23.02	84.36	16 18 10	4765.6	26.72	236.57
100.00	8 44 51	1346.73	-1.84	346.65	16.58	119.84	9 7 18	746.7	2.14	340.13
100.00	16 20 8	5070.87	29.08	223.23	22.86	82.76	17 44 39	4470.9	27.77	214.67
110.00	9 31 1	1202.11	-4.71	333.90	14.80	123.90	9 51 3	602.1	-.22	327.68
110.00	17 50 28	4788.25	32.41	201.13	22.22	78.48	19 10 16	4188.2	30.48	192.44

DIFFERENTIAL CORRECTIONS
TDE .5715 TRA -.7149 TC3 .7883 BAU .1663
RDE -.2140 RRA -.0906 RC3 .2425 FAU .04104
FDE -.9816 FRA .5890 FC3-2.3552 BSP 4792
BDE .6103 BRA .7206 BC3 .8247 FSP -595

MID-COURSE EXECUTION ACCURACY
SGT 1518.7 SGR 393.3 SG3 216.4
RRT .0065 RRF -.0153 RTF -.8799
SGB 1568.8 R23 -.0091 R13 -.8799
SG1 1518.7 SG2 393.3 THA .10

ORBIT DETERMINATION ACCURACY
ST 906.1 SR 318.5 SS 962.4
CRT -.8736 CRS -.9482 CST .9822
LSA 1348.3 MSA 174.6 SSA 17.7
EL1 948.9 EL2 148.0 ALF 162.49

LAUNCH DATE JUN 5 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 19 1967

DISTANCE 269.732

HELIOCENTRIC CONIC
RL 151.78 LAL -.00 LOL 253.67 VL 25.995 GAL 1.07 AZL 93.46 HCA 114.08 SMA 123.68 ECC .22792 INC 3.4622 V1 29.353
RP 108.61 LAP -3.16 LOP 7.78 VP 37.025 GAP -11.19 AZP 88.59 TAL 176.37 TAP 290.45 RCA 95.49 APO 151.87 V2 34.891
RC 50.476 GL -24.66 GP .90 ZAL 86.26 ZAP 11.61 ETS 355.03 ZAE 149.45 ETE 21.09 ZAC 89.02 ETC 13.64 CLP -11.57

PLANETOCENTRIC CONIC
C3 14.147 VHL 3.761 DLA -17.84 RAL 158.92 RAD 6567.6 VEL 11.642 PTH 2.04 VHP 7.132 DPA 5.40 RAP 178.21 ECC 1.2328

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 32 22	1543.94	.35	2.36	14.95	118.32	7 58 6	943.9	4.13	355.72
90.00	14 37 47	5369.85	27.82	245.38	20.60	84.51	16 7 17	4769.8	26.77	236.87
100.00	8 43 13	1315.31	-.78	344.92	14.32	119.88	9 5 8	715.3	3.20	338.40
100.00	16 9 37	5073.71	29.11	223.44	20.44	82.87	17 34 11	4473.7	27.81	214.87
110.00	9 28 29	1173.49	-3.62	332.40	12.55	124.01	9 48 2	573.5	.87	326.19
110.00	17 40 51	4788.29	32.41	201.13	19.81	78.48	19 0 39	4188.3	30.48	192.44

DIFFERENTIAL CORRECTIONS
TDE .5784 TRA -.6815 TC3 .8904 BAU .1751
RDE -.1993 RRA -.0833 RC3 .2535 FAU .04466
FDE-1.0746 FRA .5877 FC3-2.7331 BSP 4908
BDE .6118 BRA .6866 BC3 .9258 FSP -669

MID-COURSE EXECUTION ACCURACY
SGT 1553.8 SGR 382.5 SG3 241.2
RRT .0094 RRF -.0192 RTF -.8866
SGB 1600.2 R23 -.0103 R13 -.8866
SG1 1553.8 SG2 382.5 THA .14

ORBIT DETERMINATION ACCURACY
ST 940.1 SR 306.3 SS 1024.2
CRT -.8832 CRS -.9533 CST .9829
LSA 1413.2 MSA 170.5 SSA 17.7
EL1 979.1 EL2 137.9 ALF 163.61

LAUNCH DATE JUN 5 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 21 1967

DISTANCE 276.429

HELIOCENTRIC CONIC
RL 151.78 LAL -.00 LOL 253.67 VL 26.115 GAL .88 AZL 93.47 HCA 117.26 SMA 124.41 ECC .22062 INC 3.4732 V1 29.353
RP 108.58 LAP -3.09 LOP 10.97 VP 37.121 GAP -10.46 AZP 88.41 TAL 176.87 TAP 294.13 RCA 96.98 APO 151.85 V2 34.903
RC 51.950 GL -25.67 GP .98 ZAL 87.43 ZAP 13.81 ETS 355.35 ZAE 148.60 ETE 19.90 ZAC 88.05 ETC 13.57 CLP -13.77

PLANETOCENTRIC CONIC
C3 13.339 VHL 3.652 DLA -18.29 RAL 157.38 RAD 6567.5 VEL 11.607 PTH 2.03 VHP 6.728 DPA 5.08 RAP 179.14 ECC 1.2195

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 30 50	1513.68	1.33	.67	12.75	118.29	7 56 4	913.7	5.10	354.02
90.00	14 27 4	5374.36	27.85	245.71	18.26	84.67	15 56 38	4774.4	26.82	237.19
100.00	8 41 16	1286.45	.20	343.34	12.12	119.89	9 2 42	686.4	4.18	336.81
100.00	15 59 20	5076.83	29.13	223.67	18.10	82.98	17 23 57	4476.8	27.85	215.10
110.00	9 25 40	1147.30	-2.62	331.03	10.36	124.09	9 44 48	547.3	1.87	324.82
110.00	17 31 25	4788.74	32.41	201.16	17.48	78.50	18 51 13	4188.7	30.49	192.48

DIFFERENTIAL CORRECTIONS
TDE .5862 TRA -.6460 TC3 .9942 BAU .1834
RDE -.1853 RRA -.0766 RC3 .2634 FAU .04875
FDE-1.1814 FRA .5840 FC3-3.1643 BSP 5071
BDE .6148 BRA .6505 BC3 1.0285 FSP -758

MID-COURSE EXECUTION ACCURACY
SGT 1585.0 SGR 370.9 SG3 269.2
RRT .0127 RRF -.0243 RTF -.8935
SGB 1627.8 R23 -.0123 R13 -.8935
SG1 1585.0 SG2 370.9 THA .18

ORBIT DETERMINATION ACCURACY
ST 974.0 SR 293.3 SS 1091.2
CRT -.8930 CRS -.9582 CST .9837
LSA 1482.4 MSA 166.2 SSA 17.5
EL1 1009.2 EL2 127.4 ALF 164.70

LAUNCH DATE JUN 5 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 23 1967

HELIOCENTRIC CONIC DISTANCE 283.115

RL 151.78 LAL -.00 LOL 253.67 VL 26.225 GAL .71 AZL 93.48 HCA 120.44 SMA 125.09 ECC .21379 INC 3.4849 V1 29.353
RP 108.54 LAP -3.00 LOP 14.15 VP 37.209 GAP -9.76 AZP 88.23 TAL 177.38 TAP 297.82 RCA 98.34 APO 151.83 V2 34.914
RC 53.515 GL -26.63 GP 1.08 ZAL 88.60 ZAP 16.12 ETS 355.57 ZAE 147.98 ETE 18.92 ZAC 87.18 ETC 13.50 CLP -16.08

PLANETOCENTRIC CONIC

C3 12.645 VHL 3.556 DLA -18.70 RAL 155.86 RAD 6567.5 VEL 11.577 PTH 2.02 VHP 6.342 DPA 4.81 RAP 179.98 ECC 1.2081

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 29 4	1485.97	2.22	359.12	10.64	118.24	7 53 50	886.0	5.98	352.46
90.00	14 16 40	5379.08	27.88	246.05	16.02	84.84	15 46 19	4779.1	26.87	237.53
100.00	8 39 4	1260.07	1.10	341.89	10.02	119.87	9 0 4	660.1	5.06	335.35
100.00	15 49 21	5080.21	29.16	223.91	15.86	83.11	17 14 1	4480.2	27.90	215.34
110.00	9 22 40	1123.47	-1.71	329.78	8.26	124.15	9 41 23	523.5	2.78	323.58
110.00	17 22 15	4789.57	32.43	201.23	15.25	78.53	18 42 4	4189.6	30.51	192.54

DIFFERENTIAL CORRECTIONS
TDE .5900 TRA -.6135 TC3 1.0866 BAU .1894
RDE -.1718 RRA -.0704 RC3 .2724 FAU .05333
FDE-1.3012 FRA .5803 FC3-3.6514 BSP 5093
BDE .6145 BRA .6176 BC3 1.1202 FSP -850

MID-COURSE EXECUTION ACCURACY
SGT 1609.3 SGR 358.5 SG3 300.7
RRT .0201 RRF -.0329 RTF -.8980
SGB 1648.8 R23 -.0139 R13 -.8980
SG1 1609.3 SG2 358.4 THA .27

ORBIT DETERMINATION ACCURACY
ST 1001.1 SR 279.2 SS 1161.0
CRT -.9007 CRS -.9623 CST .9841
LSA 1549.5 MSA 163.6 SSA 17.2
EL1 1032.6 EL2 117.6 ALF 165.71

LAUNCH DATE JUN 5 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 25 1967

HELIOCENTRIC CONIC DISTANCE 289.789

RL 151.78 LAL -.00 LOL 253.67 VL 26.324 GAL .55 AZL 93.50 HCA 123.63 SMA 125.70 ECC .20769 INC 3.4973 V1 29.353
RP 108.50 LAP -2.91 LOP 17.34 VP 37.290 GAP -9.07 AZP 88.06 TAL 177.89 TAP 301.52 RCA 99.60 APO 151.81 V2 34.926
RC 55.163 GL -27.55 GP 1.19 ZAL 89.76 ZAP 18.56 ETS 355.71 ZAE 147.61 ETE 18.14 ZAC 86.43 ETC 13.45 CLP -18.52

PLANETOCENTRIC CONIC

C3 12.053 VHL 3.472 DLA -19.07 RAL 154.36 RAD 6567.5 VEL 11.552 PTH 2.02 VHP 5.974 DPA 4.61 RAP 180.71 ECC 1.1984

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 27 6	1460.70	3.03	357.71	8.63	118.17	7 51 27	860.7	6.78	351.03
90.00	14 6 39	5383.95	27.91	246.41	13.88	85.01	15 36 23	4784.0	26.93	237.88
100.00	8 36 42	1236.09	1.91	340.58	8.01	119.84	8 57 19	636.1	5.87	334.02
100.00	15 39 44	5083.80	29.19	224.18	13.73	83.25	17 4 28	4483.8	27.95	215.59
110.00	9 19 32	1101.90	-.88	328.66	6.26	124.17	9 37 54	501.9	3.61	322.45
110.00	17 13 24	4790.76	32.44	201.31	13.13	78.58	18 33 15	4190.8	30.53	192.62

DIFFERENTIAL CORRECTIONS
TDE .5943 TRA -.5783 TC3 1.1809 BAU .1956
RDE -.1586 RRA -.0647 RC3 .2805 FAU .05866
FDE-1.4387 FRA .5732 FC3-4.2135 BSP 5209
BDE .6151 BRA .5820 BC3 1.2137 FSP -963

MID-COURSE EXECUTION ACCURACY
SGT 1629.1 SGR 345.3 SG3 336.8
RRT .0304 RRF -.0455 RTF -.9035
SGB 1665.3 R23 -.0168 R13 -.9035
SG1 1629.2 SG2 345.1 THA .39

ORBIT DETERMINATION ACCURACY
ST 1026.8 SR 264.0 SS 1236.2
CRT -.9086 CRS -.9661 CST .9849
LSA 1620.5 MSA 160.4 SSA 16.8
EL1 1054.7 EL2 107.4 ALF 166.71

LAUNCH DATE JUN 5 1967 FLIGHT TIME 114.00 ARRIVAL DATE SEP 27 1967

HELIOCENTRIC CONIC DISTANCE 296.450

RL 151.78 LAL -.00 LOL 253.67 VL 26.414 GAL .41 AZL 93.51 HCA 126.82 SMA 126.27 ECC .20218 INC 3.5108 V1 29.353
RP 108.46 LAP -2.81 LOP 20.53 VP 37.365 GAP -8.42 AZP 87.89 TAL 178.39 TAP 305.21 RCA 100.74 APO 151.80 V2 34.938
RC 56.885 GL -28.42 GP 1.32 ZAL 90.87 ZAP 21.14 ETS 355.81 ZAE 147.50 ETE 17.56 ZAC 85.81 ETC 13.40 CLP -21.10

PLANETOCENTRIC CONIC

C3 11.549 VHL 3.398 DLA -19.42 RAL 152.90 RAD 6567.4 VEL 11.530 PTH 2.01 VHP 5.625 DPA 4.48 RAP 181.32 ECC 1.1901

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 25 4	1437.70	3.77	356.42	6.74	118.09	7 49 1	837.7	7.50	349.73
90.00	13 57 5	5389.04	27.94	246.77	11.87	85.20	15 26 54	4789.0	26.98	238.24
100.00	8 34 17	1214.32	2.65	339.38	6.11	119.79	8 54 31	614.3	6.59	332.81
100.00	15 30 33	5087.66	29.22	224.46	11.73	83.39	16 55 20	4487.7	28.00	215.87
110.00	9 16 23	1082.41	-.14	327.64	4.37	124.18	9 34 25	482.4	4.35	321.43
110.00	17 4 56	4792.33	32.46	201.43	11.13	78.65	18 24 49	4192.3	30.56	192.73

DIFFERENTIAL CORRECTIONS
TDE .5939 TRA -.5451 TC3 1.2550 BAU .1988
RDE -.1456 RRA -.0595 RC3 .2880 FAU .06458
FDE-1.5934 FRA .5644 FC3-4.8415 BSP 5255
BDE .6115 BRA .5484 BC3 1.2877 FSP -1090

MID-COURSE EXECUTION ACCURACY
SGT 1637.1 SGR 331.5 SG3 377.2
RRT .0459 RRF -.0636 RTF -.9066
SGB 1670.3 R23 -.0202 R13 -.9067
SG1 1637.1 SG2 331.1 THA .55

ORBIT DETERMINATION ACCURACY
ST 1043.5 SR 247.6 SS 1314.7
CRT -.9146 CRS -.9692 CST .9852
LSA 1689.1 MSA 158.7 SSA 16.3
EL1 1068.0 EL2 97.8 ALF 167.65

LAUNCH DATE JUN 5 1967 FLIGHT TIME 116.00 ARRIVAL DATE SEP 29 1967

HELIOCENTRIC CONIC DISTANCE 303.095

RL 151.78 LAL -.00 LOL 253.67 VL 26.494 GAL .27 AZL 93.53 HCA 130.01 SMA 126.79 ECC .19724 INC 3.5254 V1 29.353
RP 108.43 LAP -2.70 LOP 23.73 VP 37.433 GAP -7.78 AZP 87.73 TAL 178.89 TAP 308.89 RCA 101.78 APO 151.79 V2 34.951
RC 58.673 GL -29.24 GP 1.47 ZAL 91.94 ZAP 23.88 ETS 355.87 ZAE 147.67 ETE 17.17 ZAC 85.33 ETC 13.36 CLP -23.84

PLANETOCENTRIC CONIC

C3 11.122 VHL 3.335 DLA -19.74 RAL 151.50 RAD 6567.4 VEL 11.511 PTH 2.01 VHP 5.293 DPA 4.43 RAP 181.79 ECC 1.1830

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 23 2	1416.76	4.44	355.25	4.97	118.00	7 46 38	816.8	8.15	348.54
90.00	13 47 58	5394.39	27.97	247.16	10.00	85.39	15 17 53	4794.4	27.04	238.62
100.00	8 31 53	1194.55	3.31	338.29	4.34	119.73	8 51 48	594.6	7.25	331.71
100.00	15 21 48	5091.83	29.25	224.76	9.86	83.55	16 46 40	4491.8	28.05	216.17
110.00	9 13 17	1064.83	.53	326.72	2.61	124.18	9 31 2	464.8	5.01	320.50
110.00	16 56 53	4794.32	32.49	201.58	9.27	78.74	18 16 48	4194.3	30.60	192.88

DIFFERENTIAL CORRECTIONS
TDE .5920 TRA -.5124 TC3 1.3210 BAU .2013
RDE -.1325 RRA -.0548 RC3 .2952 FAU .07137
FDE-1.7706 FRA .5546 FC3-5.5556 BSP 5304
BDE .6067 BRA .5154 BC3 1.3536 FSP -1238

MID-COURSE EXECUTION ACCURACY
SGT 1638.8 SGR 317.2 SG3 423.4
RRT .0683 RRF -.0890 RTF -.9098
SGB 1669.2 R23 -.0246 R13 -.9099
SG1 1639.0 SG2 316.4 THA .79

ORBIT DETERMINATION ACCURACY
ST 1055.4 SR 229.7 SS 1398.9
CRT -.9197 CRS -.9716 CST .9856
LSA 1760.3 MSA 157.1 SSA 15.7
EL1 1076.5 EL2 88.4 ALF 168.60

LAUNCH DATE JUN 5 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 1 1967

HELIOCENTRIC CONIC DISTANCE 309.724

RL	151.78	LAL	-.00	LOL	253.67	VL	26.567	GAL	.15	AZL	93.54	HCA	133.20	SMA	127.25	ECC	.19281	INC	3.5414	V1	29.353
RP	108.39	LAP	-2.58	LOP	26.92	VP	37.496	GAP	-7.16	AZP	87.57	TAL	179.36	TAP	312.56	RCA	102.72	APO	151.79	V2	34.964
RC	60.521	GL	-30.01	GP	1.65	ZAL	92.94	ZAP	26.80	ETS	355.92	ZAE	148.11	ETE	17.00	ZAC	85.02	ETC	13.33	CLP	-26.76

PLANETOCENTRIC CONIC

C3	10.764	VHL	3.281	DLA	-20.04	RAL	150.18	RAD	6567.4	VEL	11.496	PTH	2.00	VHP	4.979	DPA	4.48	RAP	182.12	ECC	1.1771

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 21 8	1397.57	5.05	354.17	3.33	117.90	7 44 26	797.6	8.75	347.44
90.00	13 39 20	5400.16	28.00	247.58	8.27	85.60	15 9 20	4800.2	27.10	239.03
100.00	8 29 38	1176.51	3.92	337.30	2.71	119.66	8 49 14	576.5	7.84	330.70
100.00	15 13 31	5096.45	29.29	225.10	8.14	83.73	16 38 27	4496.4	28.11	216.50
110.00	9 10 21	1048.89	1.14	325.89	.98	124.17	9 27 50	448.9	5.62	319.66
110.00	16 49 17	4796.83	32.52	201.77	7.56	78.84	18 9 13	4196.8	30.64	193.06

DIFFERENTIAL CORRECTIONS

TDE	.5856	TRA	-.4829	TC3	1.3663	BAU	.2014	SGT	1629.5	SGR	302.7	SG3	475.8	ST	1057.9	SR	210.1	SS	1489.1
RDE	-.1191	RRA	-.0505	RC3	.3030	FAU	.07909	RRT	.1007	RRF	-.1248	RTF	-.9112	CRT	-.9228	CRS	-.9733	CST	.9856
FDE	-1.9731	FRA	.5456	FC3	-6.3614	BSP	5130	SGB	1657.4	R23	-.0300	R13	-.9113	LSA	1831.9	MSA	156.8	SSA	15.0
BDE	.5976	BRA	.4855	BC3	1.3995	FSP	-1379	SG1	1629.8	SG2	301.1	THA	1.11	EL1	1075.6	EL2	79.6	ALF	169.56

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE JUN 5 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 3 1967

HELIOCENTRIC CONIC DISTANCE 316.337

RL	151.78	LAL	-.00	LOL	253.67	VL	26.631	GAL	.05	AZL	93.56	HCA	136.39	SMA	127.67	ECC	.18888	INC	3.5592	V1	29.353
RP	108.35	LAP	-2.45	LOP	30.12	VP	37.554	GAP	-6.56	AZP	87.42	TAL	179.80	TAP	316.19	RCA	103.56	APO	151.79	V2	34.977
RC	62.420	GL	-30.73	GP	1.86	ZAL	93.86	ZAP	29.93	ETS	355.95	ZAE	148.85	ETE	17.07	ZAC	84.90	ETC	13.31	CLP	-29.87

PLANETOCENTRIC CONIC

C3	10.465	VHL	3.235	DLA	-20.32	RAL	148.95	RAD	6567.4	VEL	11.483	PTH	2.00	VHP	4.684	DPA	4.63	RAP	182.28	ECC	1.1722

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 19 30	1379.76	5.62	353.17	1.85	117.80	7 42 30	779.8	9.30	346.42
90.00	13 31 8	5406.55	28.03	248.05	6.71	85.83	15 1 14	4806.5	27.16	239.49
100.00	8 27 39	1159.85	4.48	336.38	1.22	119.59	8 46 58	559.8	8.39	329.77
100.00	15 5 40	5101.69	29.32	225.49	6.58	83.92	16 30 42	4501.7	28.17	216.87
110.00	9 7 42	1034.29	1.70	325.13	359.49	124.15	9 24 57	434.3	6.17	318.90
110.00	16 42 6	4800.01	32.56	202.01	6.01	78.98	18 2 6	4200.0	30.70	193.28

DIFFERENTIAL CORRECTIONS

TDE	.5590	TRA	-.4622	TC3	1.3188	BAU	.1896	SGT	1571.6	SGR	288.3	SG3	524.9	ST	1024.3	SR	188.6	SS	1558.7
RDE	-.1054	RRA	-.0466	RC3	.3111	FAU	.08581	RRT	.1410	RRF	-.1717	RTF	-.9038	CRT	-.9198	CRS	-.9731	CST	.9843
FDE	-2.1660	FRA	.5538	FC3	-7.0986	BSP	4698	SGB	1597.9	R23	-.0404	R13	-.9041	LSA	1867.8	MSA	159.6	SSA	14.2
BDE	.5688	BRA	.4645	BC3	1.3550	FSP	-1481	SG1	1572.2	SG2	285.3	THA	1.53	EL1	1039.0	EL2	72.9	ALF	170.34

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE JUN 5 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 5 1967

HELIOCENTRIC CONIC DISTANCE 322.931

RL	151.78	LAL	-.00	LOL	253.67	VL	26.688	GAL	-.05	AZL	93.58	HCA	139.59	SMA	128.05	ECC	.18540	INC	3.5793	V1	29.353
RP	108.31	LAP	-2.32	LOP	33.31	VP	37.607	GAP	-5.98	AZP	87.27	TAL	180.21	TAP	319.80	RCA	104.31	APO	151.79	V2	34.990
RC	64.367	GL	-31.41	GP	2.11	ZAL	94.70	ZAP	33.27	ETS	355.98	ZAE	149.89	ETE	17.43	ZAC	84.97	ETC	13.30	CLP	-33.21

PLANETOCENTRIC CONIC

C3	10.220	VHL	3.197	DLA	-20.60	RAL	147.81	RAD	6567.4	VEL	11.472	PTH	1.99	VHP	4.408	DPA	4.92	RAP	182.25	ECC	1.1682

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 18 13	1363.02	6.15	352.22	.51	117.69	7 40 56	763.0	9.81	345.46
90.00	13 23 20	5413.72	28.07	248.57	5.31	86.09	14 53 33	4813.7	27.23	240.00
100.00	8 26. 0	1144.27	5.01	335.52	359.88	119.51	8 45 4	544.3	8.90	328.90
100.00	14 58 14	5107.70	29.37	225.93	5.18	84.15	16 23 22	4507.7	28.25	217.31
110.00	9 5 24	1020.80	2.22	324.43	358.15	124.12	9 22 24	420.8	6.68	318.18
110.00	16 35 19	4803.94	32.61	202.30	4.62	79.15	17 55 23	4203.9	30.77	193.57

DIFFERENTIAL CORRECTIONS

TDE	.5637	TRA	-.4241	TC3	1.4227	BAU	.1993	SGT	1583.4	SGR	275.4	SG3	604.9	ST	1039.5	SR	164.1	SS	1688.3
RDE	-.0905	RRA	-.0429	RC3	.3235	FAU	.09854	RRT	.2089	RRF	-.2432	RTF	-.9136	CRT	-.9238	CRS	-.9736	CST	.9857
FDE	-2.4665	FRA	.5191	FC3	-8.3477	BSP	5392	SGB	1607.2	R23	-.0477	R13	-.9139	LSA	1983.4	MSA	155.6	SSA	13.4
BDE	.5709	BRA	.4262	BC3	1.4590	FSP	-1874	SG1	1584.5	SG2	269.1	THA	2.14	EL1	1050.6	EL2	62.2	ALF	171.67

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE JUN 5 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 7 1967

HELIOCENTRIC CONIC DISTANCE 329.508

RL	151.78	LAL	-.00	LOL	253.67	VL	26.738	GAL	-.13	AZL	93.60	HCA	142.79	SMA	128.38	ECC	.18235	INC	3.6022	V1	29.353
RP	108.27	LAP	-2.18	LOP	36.51	VP	37.655	GAP	-5.42	AZP	87.13	TAL	180.58	TAP	323.37	RCA	104.97	APO	151.79	V2	35.003
RC	66.356	GL	-32.05	GP	2.41	ZAL	95.44	ZAP	36.86	ETS	356.00	ZAE	151.23	ETE	18.15	ZAC	85.27	ETC	13.30	CLP	-36.80

PLANETOCENTRIC CONIC

C3	10.022	VHL	3.166	DLA	-20.88	RAL	146.78	RAD	6567.4	VEL	11.463	PTH	1.99	VHP	4.151	DPA	5.35	RAP	182.02	ECC	1.1649

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 17 28	1346.81	6.66	351.31	359.34	117.59	7 39 55	746.8	10.31	344.52
90.00	13 15 52	5422.10	28.11	249.18	4.08	86.39	14 46 14	4822.1	27.31	240.60
100.00	8 24 52	1129.30	5.51	334.69	358.71	119.43	8 43 41	529.3	9.39	328.05
100.00	14 51 9	5114.85	29.42	226.46	3.96	84.43	16 16 24	4514.8	28.33	217.82
110.00	9 3 34	1007.99	2.71	323.76	356.97	124.09	9 20 22	408.0	7.16	317.50
110.00	16 28 56	4808.92	32.68	202.68	3.42	79.36	17 49 5	4208.9	30.87	193.93

DIFFERENTIAL CORRECTIONS

TDE	.5395	TRA	-.3939	TC3	1.3435	BAU	.1856	SGT	1503.0	SGR	263.7	SG3	674.0	ST	1003.2	SR	136.7	SS	1796.1
RDE	-.0744	RRA	-.0395	RC3	.3372	FAU	.10818	RRT	.2738	RRF	-.3218	RTF	-.9063	CRT	-.9189	CRS	-.9715	CST	.9848
FDE	-2.7612	FRA	.4830	FC3	-9.3448	BSP	5032	SGB	1526.0	R23	-.0691	R13	-.9069	LSA	2055.8	MSA	156.4	SSA	12.4
BDE	.5446	BRA	.3958	BC3	1.3851	FSP	-2080	SG1	1504.8	SG2	253.3	THA	2.83	EL1	1011.1	EL2	53.5	ALF	172.84

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE JUN 5 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 9 1967

HELIOCENTRIC CONIC DISTANCE 336.065

```
RL  151.78 LAL   -.00 LOL 253.67 VL  26.782 GAL  -.20 AZL  93.63 HCA 145.99 SMA 128.67 ECC .17968 INC 3.6287 V1  29.353
RP  108.22 LAP  -2.03 LOP  39.71 VP  37.698 GAP  -4.88 AZP  86.99 TAL 180.91 TAP 326.90 RCA 105.55 APO 151.79 V2  35.016
RC  68.382 GL  -32.66 GP    2.76 ZAL  96.07 ZAP  40.72 ETS 356.04 ZAE 152.89 ETE  19.36 ZAC  85.81 ETC  13.33 CLP -40.64
```

PLANETOCENTRIC CONIC

```
C3   9.867 VHL  3.141 DLA -21.18 RAL 145.86 RAD 6567.4 VEL 11.457 PTH   1.99 VHP  3.914 DPA   5.94 RAP 181.58 ECC 1.1624
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 17 23	1330.62	7.17	350.39	358.34	117.47	7 39 34	730.6	10.80	343.59
90.00	13 8 36	5432.08	28.15	249.91	3.03	86.75	14 39 8	4832.1	27.40	241.32
100.00	8 24 22	1114.46	6.00	333.87	357.70	119.34	8 42 57	514.5	9.87	327.21
100.00	14 44 18	5123.48	29.47	227.09	2.92	84.76	16 9 42	4523.5	28.43	218.44
110.00	9 2 19	995.50	3.18	323.10	355.95	124.05	9 18 55	395.5	7.63	316.84
110.00	16 22 50	4815.20	32.76	203.15	2.39	79.63	17 43 6	4215.2	30.98	194.38

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .5108 TRA -.3674 TC3 1.2589 BAU  .1726   SGT 1417.8 SGR  256.2 SG3  753.8      ST   956.7 SR   105.5 SS  1911.3
ROE -.0566 RRA -.0363 RC3  .3557 FAU .11963   RRT  .3626 RRF -.4272 RTF -.8985     CRT -.9048 CRS -.9638 CST  .9838
FDE-3.0935 FRA  .4558 FC-10.4966 BSP  4688   SGB 1440.8 R23 -.0987 R13 -.8996     LSA 2134.2 MSA  156.5 SSA   11.4
BDE  .5139 BRA  .3692 BC3 1.3082 FSP -2321   SG1 1421.0 SG2  238.2 THA   3.86     EL1  961.4 EL2   44.7 ALF 174.29
```

LAUNCH DATE JUN 5 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 11 1967

HELIOCENTRIC CONIC DISTANCE 342.603

```
RL  151.78 LAL   -.00 LOL 253.67 VL  26.820 GAL  -.25 AZL  93.66 HCA 149.20 SMA 128.92 ECC .17739 INC 3.6601 V1  29.353
RP  108.18 LAP  -1.87 LOP  42.91 VP  37.737 GAP  -4.34 AZP  86.85 TAL 181.18 TAP 330.38 RCA 106.05 APO 151.79 V2  35.029
RC  70.443 GL  -33.25 GP    3.20 ZAL  96.59 ZAP  44.86 ETS 356.08 ZAE 154.84 ETE  21.24 ZAC  86.60 ETC  13.38 CLP -44.77
```

PLANETOCENTRIC CONIC

```
C3   9.752 VHL  3.123 DLA -21.50 RAL 145.05 RAD 6567.4 VEL 11.452 PTH   1.99 VHP  3.697 DPA   6.71 RAP 180.92 ECC 1.1605
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 18 9	1313.86	7.70	349.44	357.50	117.33	7 40 3	713.9	11.30	342.61
90.00	13 1 24	5444.20	28.19	250.79	2.16	87.20	14 32 8	4844.2	27.50	242.19
100.00	8 24 39	1099.23	6.51	333.02	356.86	119.24	8 42 58	499.2	10.36	326.35
100.00	14 37 35	5134.07	29.53	227.87	2.06	85.16	16 3 9	4534.1	28.55	219.21
110.00	9 1 46	982.91	3.66	322.44	355.10	124.01	9 18 8	382.9	8.10	316.17
110.00	16 16 58	4823.15	32.85	203.75	1.55	79.97	17 37 21	4223.1	31.12	194.96

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .4712 TRA -.3465 TC3 1.1505 BAU  .1580   SGT 1315.5 SGR  256.0 SG3  842.8      ST   888.8 SR    70.2 SS  2028.3
ROE -.0365 RRA -.0336 RC3  .3813 FAU .13279   RRT  .4704 RRF -.5549 RTF -.8854     CRT -.8601 CRS -.9373 CST  .9816
FDE-3.4555 FRA  .4374 FC-11.7890 BSP  4356   SGB 1340.2 R23 -.1427 R13 -.8878     LSA 2209.9 MSA  157.7 SSA   10.5
BDE  .4726 BRA  .3481 BC3 1.2120 FSP -2621   SG1 1321.2 SG2  225.0 THA   5.39     EL1  890.8 EL2   35.7 ALF 176.11
```

LAUNCH DATE JUN 5 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 13 1967

HELIOCENTRIC CONIC DISTANCE 349.123

```
RL  151.78 LAL   -.00 LOL 253.67 VL  26.852 GAL  -.30 AZL  93.70 HCA 152.40 SMA 129.14 ECC .17543 INC 3.6980 V1  29.353
RP  108.14 LAP  -1.71 LOP  46.12 VP  37.772 GAP  -3.83 AZP  86.72 TAL 181.40 TAP 333.80 RCA 106.49 APO 151.79 V2  35.042
RC  72.534 GL  -33.83 GP    3.74 ZAL  97.00 ZAP  49.29 ETS 356.15 ZAE 157.05 ETE  24.09 ZAC  87.64 ETC  13.49 CLP -49.19
```

PLANETOCENTRIC CONIC

```
C3   9.676 VHL  3.111 DLA -21.86 RAL 144.36 RAD 6567.3 VEL 11.448 PTH   1.99 VHP  3.503 DPA   7.70 RAP 180.03 ECC 1.1592
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 19 59	1295.69	8.26	348.41	356.85	117.18	7 41 35	695.7	11.84	341.56
90.00	12 54 2	5459.29	28.23	251.89	1.48	87.75	14 25 1	4859.3	27.62	243.28
100.00	8 25 55	1082.90	7.05	332.11	356.20	119.12	8 43 58	482.9	10.88	325.42
100.00	14 30 47	5147.31	29.61	228.85	1.39	85.67	15 56 34	4547.3	28.69	220.17
110.00	9 2 2	969.68	4.17	321.75	354.42	123.96	9 18 12	369.7	8.60	315.46
110.00	16 11 9	4833.29	32.97	204.52	.90	80.41	17 31 42	4233.3	31.30	195.70

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .4206 TRA -.3295 TC3  .9720 BAU  .1366   SGT 1180.4 SGR  265.7 SG3  932.7      ST   799.4 SR    31.8 SS  2148.1
ROE -.0134 RRA -.0311 RC3  .4135 FAU .14548   RRT  .5638 RRF -.6835 RTF -.8584     CRT -.6029 CRS -.7454 CST  .9775
FDE-3.8481 FRA  .4239 FC-13.0166 BSP  3840   SGB 1210.0 R23 -.2209 R13 -.8639     LSA 2286.6 MSA  159.7 SSA    9.4
BDE  .4208 BRA  .3309 BC3 1.0563 FSP -2904   SG1 1190.2 SG2  217.7 THA   7.49     EL1  799.6 EL2   25.3 ALF 178.63
```

LAUNCH DATE JUN 5 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 15 1967

HELIOCENTRIC CONIC DISTANCE 355.622

```
RL  151.78 LAL   -.00 LOL 253.67 VL  26.879 GAL  -.33 AZL  93.75 HCA 155.61 SMA 129.32 ECC .17378 INC 3.7452 V1  29.353
RP  108.10 LAP  -1.55 LOP  49.33 VP  37.804 GAP  -3.33 AZP  86.59 TAL 181.56 TAP 337.18 RCA 106.85 APO 151.80 V2  35.056
RC  74.652 GL  -34.44 GP    4.42 ZAL  97.28 ZAP  54.02 ETS 356.25 ZAE 159.44 ETE  28.43 ZAC  88.93 ETC  13.65 CLP -53.90
```

PLANETOCENTRIC CONIC

```
C3   9.640 VHL  3.105 DLA -22.29 RAL 143.77 RAD 6567.3 VEL 11.447 PTH   1.99 VHP  3.332 DPA   8.94 RAP 178.93 ECC 1.1587
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 23 10	1275.09	8.90	347.23	356.39	116.99	7 44 25	675.1	12.45	340.35
90.00	12 46 9	5478.44	28.28	253.29	.98	88.45	14 17 27	4878.4	27.76	244.66
100.00	8 28 23	1064.60	7.66	331.09	355.72	118.98	8 46 8	464.6	11.47	324.37
100.00	14 23 37	5164.16	29.69	230.10	.91	86.32	15 49 41	4564.2	28.86	221.39
110.00	9 3 17	955.19	4.72	320.99	353.91	123.90	9 19 13	355.2	9.14	314.69
110.00	16 5 12	4846.34	33.11	205.51	.46	80.98	17 25 59	4246.3	31.51	196.65

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .3607 TRA -.3124 TC3  .7727 BAU  .1158   SGT 1030.3 SGR  291.4 SG3 1030.7      ST   691.5 SR    32.2 SS  2275.5
ROE  .0140 RRA -.0288 RC3  .4581 FAU .15972   RRT  .6313 RRF -.8009 RTF -.8158     CRT  .9225 CRS  .8268 CST  .9704
FDE-4.2785 FRA  .3998 FC-14.3437 BSP  3313   SGB 1070.7 R23 -.3360 R13 -.8298     LSA 2373.0 MSA  160.8 SSA    8.4
BDE  .3610 BRA  .3137 BC3  .8983 FSP -3227   SG1 1047.4 SG2  222.3 THA  10.61     EL1  692.2 EL2   12.4 ALF   2.46
```

LAUNCH DATE JUN 5 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 17 1967

HELIOCENTRIC CONIC DISTANCE 362.101

```
RL  151.78 LAL   -.00 LOL 253.67 VL  26.902 GAL   -.35 AZL  93.81 HCA 158.82 SMA 129.47 ECC .17242 INC 3.8055 V1  29.353
RP  108.06 LAP  -1.37 LOP  52.53 VP  37.832 GAP  -2.84 AZP  86.45 TAL 181.67 TAP 340.49 RCA 107.15 APO 151.80 V2  35.069
RC  76.795 GL  -35.08 GP    5.29 ZAL  97.44 ZAP  59.05 ETS 356.39 ZAE 161.87 ETE  35.07 ZAC  90.44 ETC  13.90 CLP -58.90
```

PLANETOCENTRIC CONIC

```
C3   9.651 VHL  3.107 DLA -22.80 RAL 143.28 RAD 6567.3 VEL 11.447 PTH   1.99 VHP  3.186 DPA  10.46 RAP 177.64 ECC 1.1588
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 28 10	1250.46	9.66	345.82	356.13	116.75	7 49 1	650.5	13.17	338.90
90.00	12 37 14	5503.48	28.31	255.12	.68	89.36	14 8 57	4903.5	27.92	246.48
100.00	8 32 27	1043.03	8.37	329.88	355.44	118.80	8 49 50	443.0	12.15	323.13
100.00	14 15 39	5186.15	29.77	231.73	.63	87.18	15 42 5	4586.2	29.06	222.99
110.00	9 5 47	938.51	5.35	320.11	353.59	123.81	9 21 25	338.5	9.75	313.79
110.00	15 58 48	4863.44	33.29	206.82	.23	81.74	17 19 51	4263.4	31.79	197.91

DIFFERENTIAL CORRECTIONS

```
TDE  .2881 TRA -.2979 TC3  .5149 BAU  .0940
RDE  .0473 RRA -.0267 RC3  .5156 FAU .17301
FDE-4.7313 FRA  .3734 FC-15.5201 BSP  2711
BDE  .2919 BRA  .2991 BC3  .7286 FSP  -3543
```

MID-COURSE EXECUTION ACCURACY

```
SGT  860.2 SGR  336.3 SG3 1125.5
RRT  .6247 RRF -.8881 RTF -.7288
SGB  923.6 R23 -.4969 R13 -.7691
SG1  887.9 SG2  254.4 THA  14.98
```

ORBIT DETERMINATION ACCURACY

```
ST   560.7 SR    89.2 SS  2404.1
CRT  .9858 CRS  .9851 CST  .9555
LSA 2464.9 MSA  161.8 SSA    7.4
EL1  567.6 EL2   14.8 ALF   8.92
```

LAUNCH DATE JUN 5 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 19 1967

HELIOCENTRIC CONIC DISTANCE 368.561

```
RL  151.78 LAL   -.00 LOL 253.67 VL  26.919 GAL   -.35 AZL  93.89 HCA 162.04 SMA 129.59 ECC .17134 INC 3.8865 V1  29.353
RP  108.02 LAP  -1.20 LOP  55.74 VP  37.856 GAP  -2.36 AZP  86.30 TAL 181.71 TAP 343.75 RCA 107.39 APO 151.80 V2  35.082
RC  78.958 GL  -35.82 GP    6.45 ZAL  97.47 ZAP  64.34 ETS 356.58 ZAE 164.00 ETE  45.21 ZAC  92.12 ETC  14.27 CLP -64.16
```

PLANETOCENTRIC CONIC

```
C3   9.718 VHL  3.117 DLA -23.44 RAL 142.87 RAD 6567.4 VEL 11.450 PTH   1.99 VHP  3.066 DPA  12.35 RAP 176.23 ECC 1.1599
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 35 48	1219.08	10.62	344.01	356.10	116.41	7 56 7	619.1	14.08	337.04
90.00	12 26 20	5537.63	28.31	257.62	.59	90.62	13 58 37	4937.6	28.10	248.96
100.00	8 38 43	1016.00	9.25	328.36	355.38	118.55	8 55 39	416.0	12.99	321.57
100.00	14 6 6	5215.94	29.85	233.94	.57	88.34	15 33 2	4615.9	29.30	225.18
110.00	9 9 54	918.20	6.12	319.04	353.47	123.70	9 25 12	318.2	10.50	312.70
110.00	15 51 24	4886.51	33.50	208.58	.24	82.76	17 12 50	4286.5	32.14	199.62

DIFFERENTIAL CORRECTIONS

```
TDE  .1984 TRA -.2886 TC3  .2078 BAU  .0814
RDE  .0890 RRA -.0252 RC3  .5908 FAU .18476
FDE-5.1818 FRA  .3583 FC-16.4588 BSP  2042
BDE  .2175 BRA  .2897 BC3  .6263 FSP  -3790
```

MID-COURSE EXECUTION ACCURACY

```
SGT  695.6 SGR  406.2 SG3 1211.2
RRT  .4835 RRF -.9438 RTF -.5350
SGB  805.6 R23 -.6812 R13 -.6594
SG1  731.1 SG2  338.4 THA  20.30
```

ORBIT DETERMINATION ACCURACY

```
ST   403.8 SR   164.7 SS  2524.7
CRT  .9374 CRS  .9970 CST  .9124
LSA 2556.8 MSA  163.9 SSA    6.3
EL1  432.8 EL2   53.5 ALF  21.26
```

LAUNCH DATE JUN 5 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 21 1967

HELIOCENTRIC CONIC DISTANCE 375.001

```
RL  151.78 LAL   -.00 LOL 253.67 VL  26.933 GAL   -.35 AZL  94.00 HCA 165.25 SMA 129.69 ECC .17050 INC 4.0013 V1  29.353
RP  107.98 LAP  -1.02 LOP  58.96 VP  37.878 GAP  -1.89 AZP  86.13 TAL 181.69 TAP 346.94 RCA 107.58 APO 151.80 V2  35.094
RC  81.139 GL  -36.74 GP    8.07 ZAL  97.36 ZAP  69.86 ETS 356.84 ZAE 165.25 ETE  59.86 ZAC  93.88 ETC  14.80 CLP -69.65
```

PLANETOCENTRIC CONIC

```
C3   9.870 VHL  3.142 DLA -24.30 RAL 142.50 RAD 6567.4 VEL 11.457 PTH   1.99 VHP  2.975 DPA  14.75 RAP 174.80 ECC 1.1624
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 47 36	1175.69	11.92	341.48	356.35	115.88	8 7 12	575.7	15.30	334.44
90.00	12 11 34	5587.15	28.22	261.24	.71	92.43	13 44 41	4987.2	28.26	252.58
100.00	8 48 21	979.57	10.43	326.30	355.58	118.17	9 4 41	379.6	14.12	319.45
100.00	13 53 30	5258.51	29.89	237.10	.75	90.00	15 21 8	4658.5	29.57	228.31
110.00	9 16 20	891.79	7.11	317.65	353.58	123.52	9 31 12	291.8	11.47	311.26
110.00	15 42 0	4919.05	33.75	211.09	.53	84.23	17 3 59	4319.1	32.58	202.05

DIFFERENTIAL CORRECTIONS

```
TDE  .0961 TRA -.2812 TC3 -.1226 BAU  .0931
RDE  .1454 RRA -.0242 RC3  .6947 FAU .19508
FDE-5.6533 FRA  .3374 FC-17.1108 BSP  1768
BDE  .1743 BRA  .2822 BC3  .7055 FSP  -4088
```

MID-COURSE EXECUTION ACCURACY

```
SGT  594.3 SGR  513.1 SG3 1288.3
RRT  .1314 RRF -.9751 RTF -.1533
SGB  785.1 R23 -.8738 R13 -.4337
SG1  607.0 SG2  498.0 THA  20.85
```

ORBIT DETERMINATION ACCURACY

```
ST   243.3 SR   265.9 SS  2651.6
CRT  .7557 CRS  .9992 CST  .7331
LSA 2670.8 MSA  165.3 SSA    5.2
EL1  337.9 EL2  125.4 ALF  48.36
```

LAUNCH DATE JUN 5 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 23 1967

HELIOCENTRIC CONIC DISTANCE 381.421

```
RL  151.78 LAL   -.00 LOL 253.67 VL  26.943 GAL   -.33 AZL  94.18 HCA 168.47 SMA 129.75 ECC .16989 INC 4.1791 V1  29.353
RP  107.94 LAP   -.83 LOP  62.17 VP  37.896 GAP  -1.44 AZP  85.90 TAL 181.60 TAP 350.08 RCA 107.71 APO 151.80 V2  35.107
RC  83.336 GL  -38.01 GP   10.51 ZAL  97.09 ZAP  75.54 ETS 357.23 ZAE 164.67 ETE  77.57 ZAC  95.55 ETC  15.58 CLP -75.29
```

PLANETOCENTRIC CONIC

```
C3  10.167 VHL  3.189 DLA -25.51 RAL 142.09 RAD 6567.4 VEL 11.470 PTH   1.99 VHP  2.917 DPA  17.96 RAP 173.55 ECC 1.1673
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 7 40	1107.02	13.92	337.44	357.05	114.91	8 26 7	507.0	17.17	330.26
90.00	11 48 16	5667.65	27.85	267.10	1.07	95.34	13 22 44	5067.7	28.30	258.46
100.00	9 4 11	924.51	12.18	323.15	356.17	117.51	9 19 36	324.5	15.77	316.20
100.00	13 34 25	5325.40	29.79	242.07	1.22	92.62	15 3 11	4725.4	29.83	233.27
110.00	9 26 38	854.07	8.52	315.64	353.99	123.23	9 40 52	254.1	12.84	309.20
110.00	15 28 28	4968.61	34.02	214.93	1.18	86.49	16 51 16	4368.6	33.16	205.80

DIFFERENTIAL CORRECTIONS

```
TDE -.0237 TRA -.2775 TC3 -.4686 BAU  .1312
RDE  .2292 RRA -.0224 RC3  .8438 FAU .20245
FDE-6.1403 FRA  .2775 FC-17.2381 BSP  2156
BDE  .2304 BRA  .2784 BC3  .9652 FSP  -4272
```

MID-COURSE EXECUTION ACCURACY

```
SGT  629.6 SGR  679.1 SG3 1346.5
RRT -.3595 RRF -.9906 RTF  .3516
SGB  926.0 R23  .4832 R13 -.8648
SG1  765.4 SG2  521.2 THA 129.04
```

ORBIT DETERMINATION ACCURACY

```
ST   171.4 SR   412.4 SS  2782.7
CRT -.2189 CRS  .9998 CST -.2355
LSA 2813.4 MSA  166.7 SSA    4.1
EL1  414.4 EL2  166.4 ALF  96.20
```

LAUNCH DATE JUN 5 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 25 1967

HELIOCENTRIC CONIC DISTANCE 387.821
RL 151.78 LAL -.00 LOL 253.67 VL 26.949 GAL -.30 AZL 94.49 HCA 171.69 SMA 129.79 ECC .16950 INC 4.4916 V1 29.353
RP 107.91 LAP -.65 LOP 65.39 VP 37.912 GAP -.99 AZP 85.55 TAL 181.46 TAP 353.15 RCA 107.79 APO 151.79 V2 35.119
RC 85.546 GL -40.00 GP 14.66 ZAL 96.63 ZAP 81.32 ETS 357.84 ZAE 161.10 ETE 93.01 ZAC 96.75 ETC 16.79 CLP -81.02

PLANETOCENTRIC CONIC
C3 10.781 VHL 3.283 DLA -27.45 RAL 141.47 RAD 6567.4 VEL 11.497 PTH 2.00 VHP 2.910 DPA 22.75 RAP 172.99 ECC 1.1774

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 54 0	955.50	18.06	328.24	358.83	112.19	9 9 56	355.5	20.91	320.72
90.00	10 56 56	5842.88	26.11	279.62	1.45	101.38	12 34 19	5242.9	27.41	271.19
100.00	9 35 39	820.91	15.36	317.10	357.57	115.97	9 49 20	220.9	18.72	309.92
100.00	12 57 59	5452.70	29.02	251.45	2.00	97.49	14 28 51	4852.7	29.76	242.72
110.00	9 45 4	791.34	10.85	312.27	354.98	122.62	9 58 16	191.3	15.07	305.71
110.00	15 5 3	5055.03	34.18	221.68	2.42	90.47	16 29 18	4455.0	33.87	212.45

DIFFERENTIAL CORRECTIONS
TDE -.1668 TRA -.2816 TC3 -.7966 BAU .1907
RDE .3739 RRA -.0216 RC3 1.0564 FAU .20121
FDE-6.6271 FRA .2220 FC-16.1573 BSP 3315
BDE .4094 BRA .2825 BC3 1.3231 FSP -4296

MID-COURSE EXECUTION ACCURACY
SGT 815.5 SGR 953.2 SG3 1356.5
RRT -.6808 RRF -.9972 RTF .6775
SGB 1254.5 R23 .3235 R13 -.9432
SG1 1153.2 SG2 493.7 THA 128.52

ORBIT DETERMINATION ACCURACY
ST 335.5 SR 652.9 SS 2908.7
CRT -.8587 CRS 1.0000 CST -.8628
LSA 2995.2 MSA 169.0 SSA 3.0
EL1 717.1 EL2 156.5 ALF 115.09

LAUNCH DATE JUN 5 1967 FLIGHT TIME 144.00 ARRIVAL DATE OCT 27 1967

HELIOCENTRIC CONIC DISTANCE 394.201
RL 151.78 LAL -.00 LOL 253.67 VL 26.951 GAL -.25 AZL 95.20 HCA 174.92 SMA 129.81 ECC .16931 INC 5.1970 V1 29.353
RP 107.87 LAP -.46 LOP 68.60 VP 37.925 GAP -.96 AZP 84.82 TAL 181.25 TAP 356.16 RCA 107.83 APO 151.79 V2 35.131
RC 87.767 GL -43.91 GP 23.39 ZAL 95.85 ZAP 87.03 ETS 359.02 ZAE 152.19 ETE 101.47 ZAC 96.39 ETC 18.83 CLP -86.77

PLANETOCENTRIC CONIC
C3 12.401 VHL 3.522 DLA -31.17 RAL 140.03 RAD 6567.5 VEL 11.567 PTH 2.02 VHP 3.027 DPA 31.65 RAP 174.74 ECC 1.2041

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.40	8 1 52	1130.86	24.22	343.70	1.96	110.24	8 20 43	530.9	26.75	335.71
103.60	11 37 36	5725.86	24.23	270.43	1.97	110.23	13 13 2	5125.9	26.76	262.44
76.40	8 1 52	1130.86	24.22	343.70	1.96	110.24	8 20 43	530.9	26.75	335.71
103.60	11 37 36	5725.86	24.23	270.43	1.97	110.23	13 13 2	5125.9	26.76	262.44
110.00	10 31 24	644.79	16.08	304.14	357.85	120.58	10 42 8	44.8	20.02	297.23
110.00	14 7 15	5259.93	32.93	237.51	4.62	99.74	15 34 55	4659.9	33.92	228.42

DIFFERENTIAL CORRECTIONS
TDE -.3563 TRA -.3036 TC3 -.9981 BAU .2812
RDE .7086 RRA -.0085 RC3 1.3717 FAU .18309
FDE-7.0664 FRA .0221 FC-12.7818 BSP 5355
BDE .7932 BRA .3037 BC3 1.6964 FSP -3973

MID-COURSE EXECUTION ACCURACY
SGT 1078.6 SGR 1504.3 SG3 1261.6
RRT -.8247 RRF -.9994 RTF .8234
SGB 1851.0 R23 .1924 R13 -.9807
SG1 1777.6 SG2 516.3 THA 123.83

ORBIT DETERMINATION ACCURACY
ST 605.3 SR 1153.4 SS 3007.6
CRT -.9569 CRS 1.0000 CST -.9578
LSA 3273.1 MSA 171.5 SSA 1.9
EL1 1293.1 EL2 156.8 ALF 117.10

LAUNCH DATE JUN 5 1967 FLIGHT TIME 146.00 ARRIVAL DATE OCT 29 1967

HELIOCENTRIC CONIC DISTANCE 400.557
RL 151.78 LAL -.00 LOL 253.67 VL 26.951 GAL -.20 AZL 98.34 HCA 178.14 SMA 129.81 ECC .16932 INC 8.3359 V1 29.353
RP 107.83 LAP -.27 LOP 71.82 VP 37.936 GAP -.13 AZP 81.66 TAL 180.97 TAP 359.11 RCA 107.83 APO 151.79 V2 35.143
RC 89.996 GL -55.31 GP 50.98 ZAL 94.01 ZAP 91.62 ETS 2.72 ZAE 124.69 ETE 102.35 ZAC 88.79 ETC 22.09 CLP -92.57

PLANETOCENTRIC CONIC
C3 22.615 VHL 4.755 DLA -41.64 RAL 134.34 RAD 6567.9 VEL 12.000 PTH 2.14 VHP 4.217 DPA 56.08 RAP 193.34 ECC 1.3722

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.09	5 56 45	1575.06	26.99	20.64	9.39	123.01	6 23 0	975.1	31.13	13.22
121.91	12 57 20	5556.85	27.00	258.58	9.40	123.00	14 29 57	4956.8	31.14	251.16
58.09	5 56 45	1575.06	26.99	20.64	9.39	123.01	6 23 0	975.1	31.13	13.22
121.91	12 57 20	5556.85	27.00	258.58	9.40	123.00	14 29 57	4956.8	31.14	251.16
58.09	5 56 45	1575.06	26.99	20.64	9.39	123.01	6 23 0	975.1	31.13	13.22
121.91	12 57 20	5556.85	27.00	258.58	9.40	123.00	14 29 57	4956.8	31.14	251.16

DIFFERENTIAL CORRECTIONS
TDE -.7499 TRA -.4334 TC3 -.6362 BAU .4232
RDE 2.1911 RRA .1346 RC3 1.2466 FAU .08521
FDE-5.8854 FRA -.3830 FC3-3.2620 BSP 8857
BDE 2.3159 BRA .4538 BC3 1.3996 FSP -1909

MID-COURSE EXECUTION ACCURACY
SGT 1292.6 SGR 2902.1 SG3 670.9
RRT -.8675 RRF -.9999 RTF .8684
SGB 3176.9 R23 .0753 R13 -.9971
SG1 3120.1 SG2 597.9 THA 111.98

ORBIT DETERMINATION ACCURACY
ST 927.7 SR 2641.0 SS 2584.5
CRT -.9794 CRS 1.0000 CST -.9797
LSA 3805.5 MSA 181.3 SSA .9
EL1 2793.5 EL2 177.1 ALF 109.06

LAUNCH DATE JUN 5 1967 FLIGHT TIME 148.00 ARRIVAL DATE OCT 31 1967

HELIOCENTRIC CONIC DISTANCE 406.923
RL 151.78 LAL -.00 LOL 253.67 VL 26.948 GAL -.13 AZL 86.70 HCA 181.38 SMA 129.79 ECC .16950 INC 3.2545 V1 29.353
RP 107.80 LAP -.08 LOP 75.05 VP 37.944 GAP .29 AZP 93.30 TAL 180.65 TAP 2.03 RCA 107.79 APO 151.79 V2 35.154
RC 92.232 GL 32.16 GP -59.90 ZAL 95.95 ZAP 94.40 ETS 353.45 ZAE 122.50 ETE 253.97 ZAC 111.85 ETC 351.66 CLP -98.81

PLANETOCENTRIC CONIC
C3 8.487 VHL 2.913 DLA 38.45 RAL 172.94 RAD 6567.3 VEL 11.396 PTH 1.97 VHP 5.110 DPA -42.87 RAP 133.88 ECC 1.1397

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.82	20 50 32	3943.82	-31.69	169.22	31.92	66.98	21 56 16	3343.8	-34.51	160.69
117.18	3 11 27	2760.57	-31.68	79.65	31.92	66.96	3 57 28	2160.6	-34.50	71.13
62.82	20 50 32	3943.82	-31.69	169.22	31.92	66.98	21 56 16	3343.8	-34.51	160.69
117.18	3 11 27	2760.57	-31.68	79.65	31.92	66.96	3 57 28	2160.6	-34.50	71.13
62.82	20 50 32	3943.82	-31.69	169.22	31.92	66.98	21 56 16	3343.8	-34.51	160.69
117.18	3 11 27	2760.57	-31.68	79.65	31.92	66.96	3 57 28	2160.6	-34.50	71.13

DIFFERENTIAL CORRECTIONS
TDE .6259 TRA .3518 TC3-1.9979 BAU .4395
RDE .7352 RRA .9425 RC3-3.3189 FAU .05552
FDE 1.2376 FRA 1.5936 FC3-5.6632 BSP 5820
BDE .9655 BRA 1.0061 BC3 3.8738 FSP -787

MID-COURSE EXECUTION ACCURACY
SGT 1910.7 SGR 3381.3 SG3 495.1
RRT .9476 RRF 1.0000 RTF .9475
SGB 3883.8 R23 .0767 R13 .9970
SG1 3846.6 SG2 536.5 THA 61.22

ORBIT DETERMINATION ACCURACY
ST 1259.6 SR 1611.9 SS 1199.2
CRT .9703 CRS-1.0000 CST -.9699
LSA 2356.9 MSA 260.5 SSA .6
EL1 2031.4 EL2 241.9 ALF 52.20

LAUNCH DATE JUN 5 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 2 1967

DISTANCE 413.232

HELIOCENTRIC CONIC
RL 151.78 LAL -.00 LOL 253.67 VL 26.942 GAL -.05 AZL 91.39 HCA 184.60 SMA 129.75 ECC .16986 INC 1.3842 V1 29.353
RP 107.77 LAP .11 LOP 78.27 VP 37.950 GAP .71 AZP 88.61 TAL 180.27 TAP 4.87 RCA 107.71 APO 151.79 V2 35.165
RC 94.474 GL -15.06 GP -25.08 ZAL 96.04 ZAP 102.12 ETS 354.96 ZAE 152.35 ETE 230.07 ZAC 114.33 ETC 5.67 CLP-103.40

PLANETOCENTRIC CONIC
C3 6.346 VHL 2.519 DLA -5.21 RAL 153.55 RAD 6567.2 VEL 11.302 PTH 1.94 VHP 3.132 DPA -10.65 RAP 149.05 ECC 1.1044

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 23 31	1815.91	-8.33	17.63	359.06	117.16	5 53 47	1215.9	-4.62	10.91
90.00	16 3 47	4784.28	17.70	205.78	.12	67.53	17 23 31	4184.3	14.50	198.57
100.00	6 42 24	1561.43	-9.01	358.55	358.69	118.62	7 8 25	961.4	-5.12	351.93
100.00	17 27 35	4513.99	18.41	185.58	359.80	66.02	18 42 49	3914.0	15.01	178.44
110.00	7 45 1	1365.41	-10.82	342.59	357.60	122.63	8 7 46	765.4	-6.44	336.24
110.00	18 41 28	4282.78	20.29	167.05	358.82	61.88	19 52 51	3682.8	16.38	160.12

DIFFERENTIAL CORRECTIONS
TDE -.2658 TRA -.0373 TC3-4.0187 BAU .4225
RDE -.2591 RRA .1635 RC3-2.9419 FAU .18492
FDE-2.3298 FRA 1.3649 FC-25.2280 BSP 8065
BDE .3712 BRA .1677 BC3 4.9804 FSP -3978

MID-COURSE EXECUTION ACCURACY
SGT 2114.7 SGR 1638.2 SG3 1219.9
RRT .9599 RRF .9998 RTF .9603
SGB 2675.0 R23 .1756 R13 .9843
SG1 2649.8 SG2 366.5 THA 37.48

ORBIT DETERMINATION ACCURACY
ST 608.1 SR 601.6 SS 1459.5
CRT .9735 CRS -.9999 CST -.9763
LSA 1687.2 MSA 124.3 SSA 2.8
EL1 849.7 EL2 98.4 ALF 44.68

LAUNCH DATE JUN 5 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 4 1967

DISTANCE 419.537

HELIOCENTRIC CONIC
RL 151.78 LAL -.00 LOL 253.67 VL 26.933 GAL .04 AZL 92.22 HCA 187.83 SMA 129.69 ECC .17037 INC 2.2202 V1 29.353
RP 107.73 LAP .30 LOP 81.50 VP 37.953 GAP 1.11 AZP 87.80 TAL 179.82 TAP 7.65 RCA 107.59 APO 151.79 V2 35.175
RC 96.719 GL -23.08 GP -15.03 ZAL 94.78 ZAP 107.72 ETS 355.87 ZAE 155.84 ETE 208.52 ZAC 114.73 ETC 9.79 CLP-108.37

PLANETOCENTRIC CONIC
C3 7.087 VHL 2.662 DLA -13.03 RAL 151.45 RAD 6567.2 VEL 11.335 PTH 1.95 VHP 3.015 DPA -.66 RAP 151.04 ECC 1.1166

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 17 43	1580.40	-.83	4.39	358.42	118.31	6 44 3	980.4	2.96	357.76
90.00	14 52 50	5058.08	23.86	223.48	1.17	74.28	16 17 8	4458.1	21.47	215.62
100.00	7 32 17	1339.78	-1.61	346.27	357.98	119.85	7 54 37	739.8	2.38	339.74
100.00	16 20 57	4773.93	24.71	202.30	.89	72.62	17 40 31	4173.9	22.10	194.48
110.00	8 25 18	1173.73	-3.63	332.41	356.72	124.01	8 44 52	573.7	.86	326.20
110.00	17 44 25	4512.75	26.95	181.58	.00	68.13	18 59 38	3912.7	23.74	173.89

DIFFERENTIAL CORRECTIONS
TDE -.4938 TRA -.0531 TC3-4.1082 BAU .4159
RDE -.2091 RRA .1015 RC3-1.5460 FAU .18822
FDE-3.4803 FRA 1.4370 FC-22.9931 BSP 7643
BDE .5362 BRA .1146 BC3 4.3895 FSP -3935

MID-COURSE EXECUTION ACCURACY
SGT 2434.7 SGR 964.6 SG3 1270.0
RRT .9592 RRF .9987 RTF .9603
SGB 2618.8 R23 .2383 R13 .9699
SG1 2606.3 SG2 254.9 THA 21.02

ORBIT DETERMINATION ACCURACY
ST 1065.4 SR 455.8 SS 1969.0
CRT .9836 CRS -.9997 CST -.9872
LSA 2279.6 MSA 151.7 SSA 3.3
EL1 1156.3 EL2 75.7 ALF 22.92

LAUNCH DATE JUN 5 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 6 1967

DISTANCE 425.821

HELIOCENTRIC CONIC
RL 151.78 LAL -.00 LOL 253.67 VL 26.922 GAL .14 AZL 92.57 HCA 191.07 SMA 129.62 ECC .17105 INC 2.5669 V1 29.353
RP 107.70 LAP .49 LOP 84.72 VP 37.955 GAP 1.51 AZP 87.48 TAL 179.32 TAP 10.38 RCA 107.45 APO 151.79 V2 35.185
RC 98.967 GL -26.10 GP -10.51 ZAL 93.62 ZAP 112.68 ETS 356.42 ZAE 154.31 ETE 196.58 ZAC 115.38 ETC 11.74 CLP-113.09

PLANETOCENTRIC CONIC
C3 7.519 VHL 2.742 DLA -16.22 RAL 151.26 RAD 6567.2 VEL 11.354 PTH 1.96 VHP 3.043 DPA 4.08 RAP 151.21 ECC 1.1237

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 45 49	1478.07	2.47	358.68	359.33	118.22	7 10 27	878.1	6.23	352.01
90.00	14 23 15	5181.60	25.87	231.96	2.75	78.07	15 49 36	4581.6	23.97	223.81
100.00	7 58 5	1244.87	1.61	341.06	358.85	119.85	8 18 50	644.9	5.57	334.51
100.00	15 53 39	4890.03	26.83	210.27	2.51	76.31	17 15 10	4290.0	24.68	202.13
110.00	8 46 14	1094.04	-.58	328.25	357.47	124.18	9 4 28	494.0	3.90	322.04
110.00	17 22 0	4613.62	29.32	188.47	1.70	71.59	18 38 54	4013.6	26.53	180.40

DIFFERENTIAL CORRECTIONS
TDE -.6556 TRA -.0437 TC3-4.3751 BAU .4527
RDE -.1557 RRA .0747 RC3-1.0659 FAU .18659
FDE-3.9205 FRA 1.3858 FC-21.4834 BSP 8425
BDE .6739 BRA .0866 BC3 4.5031 FSP -3968

MID-COURSE EXECUTION ACCURACY
SGT 2764.6 SGR 688.5 SG3 1266.9
RRT .9630 RRF .9948 RTF .9671
SGB 2849.0 R23 .2206 R13 .9706
SG1 2843.3 SG2 180.5 THA 13.54

ORBIT DETERMINATION ACCURACY
ST 1372.1 SR 329.5 SS 2169.0
CRT .9857 CRS -.9992 CST -.9914
LSA 2583.1 MSA 153.7 SSA 4.3
EL1 1410.1 EL2 54.1 ALF 13.34

LAUNCH DATE JUN 5 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 8 1967

DISTANCE 432.086

HELIOCENTRIC CONIC
RL 151.78 LAL -.00 LOL 253.67 VL 26.910 GAL .26 AZL 92.76 HCA 194.30 SMA 129.53 ECC .17188 INC 2.7590 V1 29.353
RP 107.67 LAP .68 LOP 87.95 VP 37.954 GAP 1.91 AZP 87.33 TAL 178.76 TAP 13.07 RCA 107.26 APO 151.79 V2 35.195
RC 101.218 GL -27.61 GP -7.96 ZAL 92.44 ZAP 117.22 ETS 356.81 ZAE 151.76 ETE 190.35 ZAC 116.02 ETC 12.93 CLP-117.51

PLANETOCENTRIC CONIC
C3 7.812 VHL 2.795 DLA -18.06 RAL 151.74 RAD 6567.3 VEL 11.367 PTH 1.96 VHP 3.115 DPA 6.88 RAP 150.96 ECC 1.1286

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 5 57	1415.37	4.49	355.17	.60	117.99	7 29 33	815.4	8.20	348.46
90.00	14 6 55	5258.18	26.84	237.36	4.38	80.61	15 34 33	4658.2	25.26	229.05
100.00	8 16 36	1187.42	3.56	337.90	.09	119.70	8 36 23	587.4	7.48	331.31
100.00	15 38 57	4961.37	27.88	215.31	4.16	78.76	17 1 39	4361.4	26.05	206.99
110.00	9 1 27	1046.89	1.22	325.79	358.63	124.16	9 18 54	446.9	5.69	319.56
110.00	17 10 35	4674.66	30.56	192.79	3.42	73.87	18 28 30	4074.7	28.04	184.50

DIFFERENTIAL CORRECTIONS
TDE -.7963 TRA -.0232 TC3-4.6704 BAU .4952
RDE -.1145 RRA .0632 RC3 -.8203 FAU .17902
FDE-4.0637 FRA 1.3565 FC-19.8407 BSP 9407
BDE .8045 BRA .0673 BC3 4.7419 FSP -3895

MID-COURSE EXECUTION ACCURACY
SGT 3079.4 SGR 532.8 SG3 1224.8
RRT .9589 RRF .9849 RTF .9714
SGB 3125.1 R23 .1804 R13 .9729
SG1 3121.6 SG2 149.1 THA 9.44

ORBIT DETERMINATION ACCURACY
ST 1634.3 SR 238.7 SS 2256.5
CRT .9835 CRS -.9976 CST -.9935
LSA 2792.2 MSA 153.3 SSA 5.4
EL1 1651.1 EL2 42.7 ALF 8.18

LAUNCH DATE JUN 5 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 10 1967

HELIOCENTRIC CONIC DISTANCE 438.333

```
RL  151.78 LAL   -.00 LOL 253.67 VL  26.895 GAL    .38 AZL  92.88 HCA 197.54 SMA 129.43 ECC .17286 INC 2.8812 V1  29.353
RP  107.65 LAP    .87 LOP  91.19 VP  37.952 GAP   2.30 AZP  87.25 TAL 178.16 TAP  15.70 RCA 107.05 APO 151.80 V2  35.204
RC 103.470 GL  -28.48 GP   -6.32 ZAL  91.19 ZAP 121.41 ETS 357.10 ZAE 149.10 ETE 186.92 ZAC 116.53 ETC  13.75 CLP-121.63
```

PLANETOCENTRIC CONIC

```
C3   8.040 VHL  2.835 DLA -19.34 RAL 152.57 RAD 6567.3 VEL 11.377 PTH   1.96 VHP  3.210 DPA   8.71 RAP 150.68 ECC 1.1323
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 22 53	1369.58	5.94	352.60	2.08	117.74	7 45 42	769.6	9.61	345.84
90.00	13 56 36	5314.56	27.40	241.39	6.06	82.55	15 25 11	4714.6	26.08	232.97
100.00	8 32 11	1145.91	4.95	335.61	1.53	119.52	8 51 17	545.9	8.85	328.99
100.00	15 29 59	5013.47	28.52	219.06	5.87	80.63	16 53 32	4413.5	26.93	210.61
110.00	9 14 27	1013.49	2.50	324.04	.01	124.10	9 31 20	413.5	6.95	317.80
110.00	17 4 13	4718.65	31.34	195.98	5.19	75.60	18 22 51	4118.7	29.05	187.53

DIFFERENTIAL CORRECTIONS

```
TDE -.9214 TRA  .0109 TC3-4.9448 BAU  .5364
RDE -.0818 RRA  .0593 RC3 -.6766 FAU .16866
FDE-4.0393 FRA 1.3787 FC-18.1623 BSP  10299
BDE  .9250 BRA  .0603 BC3 4.9909 FSP  -3707
```

MID-COURSE EXECUTION ACCURACY

```
SGT 3366.0 SGR  436.6 SG3 1163.7
RRT  .9434 RRF  .9650 RTF  .9737
SGB 3394.2 R23  .1349 R13  .9744
SG1 3391.2 SG2  143.7 THA   6.99
```

ORBIT DETERMINATION ACCURACY

```
ST  1863.7 SR   170.0 SS  2278.7
CRT  .9751 CRS -.9926 CST -.9945
LSA 2944.7 MSA  153.0 SSA    6.5
EL1 1871.1 EL2   37.5 ALF   5.08
```

LAUNCH DATE JUN 5 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 12 1967

HELIOCENTRIC CONIC DISTANCE 444.560

```
RL  151.78 LAL   -.00 LOL 253.67 VL  26.878 GAL    .52 AZL  92.97 HCA 200.78 SMA 129.32 ECC .17399 INC 2.9662 V1  29.353
RP  107.62 LAP   1.05 LOP  94.42 VP  37.948 GAP   2.68 AZP  87.23 TAL 177.51 TAP  18.29 RCA 106.82 APO 151.82 V2  35.212
RC 105.723 GL  -28.98 GP   -5.19 ZAL  89.87 ZAP 125.28 ETS 357.33 ZAE 146.58 ETE 184.91 ZAC 116.84 ETC  14.35 CLP-125.45
```

PLANETOCENTRIC CONIC

```
C3   8.239 VHL  2.870 DLA -20.34 RAL 153.63 RAD 6567.3 VEL 11.385 PTH   1.97 VHP  3.320 DPA   9.97 RAP 150.50 ECC 1.1356
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 38 24	1332.45	7.11	350.50	3.71	117.48	8 0 36	732.4	10.74	343.69
90.00	13 49 36	5360.80	27.76	244.73	7.83	84.19	15 18 57	4760.8	26.67	236.23
100.00	8 46 31	1112.62	6.06	333.77	3.14	119.33	9 5 4	512.6	9.93	327.11
100.00	15 24 10	5055.87	28.95	222.13	7.67	82.20	16 48 26	4455.9	27.57	213.60
110.00	9 26 32	987.20	3.50	322.67	1.55	124.03	9 42 59	387.2	7.94	316.40
110.00	17 0 38	4754.05	31.91	198.58	7.04	77.05	18 19 52	4154.0	29.80	190.01

DIFFERENTIAL CORRECTIONS

```
TDE-1.0378 TRA  .0523 TC3-5.1876 BAU  .5750
RDE -.0556 RRA  .0582 RC3 -.5867 FAU .15732
FDE-3.9430 FRA 1.3981 FC-16.5308 BSP  11147
BDE 1.0393 BRA  .0782 BC3 5.2207 FSP  -3501
```

MID-COURSE EXECUTION ACCURACY

```
SGT 3629.4 SGR  375.6 SG3 1095.8
RRT  .9145 RRF  .9317 RTF  .9753
SGB 3648.8 R23  .0942 R13  .9757
SG1 3645.6 SG2  151.3 THA   5.42
```

ORBIT DETERMINATION ACCURACY

```
ST  2073.7 SR   117.5 SS  2273.9
CRT  .9526 CRS -.9769 CST -.9953
LSA 3076.0 MSA  151.4 SSA    7.7
EL1 2076.8 EL2   35.7 ALF   3.09
```

LAUNCH DATE JUN 5 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 14 1967

HELIOCENTRIC CONIC DISTANCE 450.769

```
RL  151.78 LAL   -.00 LOL 253.67 VL  26.860 GAL    .68 AZL  93.03 HCA 204.02 SMA 129.19 ECC .17527 INC 3.0292 V1  29.353
RP  107.60 LAP   1.23 LOP  97.66 VP  37.942 GAP   3.07 AZP  87.23 TAL 176.81 TAP  20.83 RCA 106.55 APO 151.83 V2  35.220
RC 107.975 GL  -29.27 GP   -4.36 ZAL  88.46 ZAP 128.86 ETS 357.51 ZAE 144.27 ETE 183.67 ZAC 116.93 ETC  14.78 CLP-128.99
```

PLANETOCENTRIC CONIC

```
C3   8.428 VHL  2.903 DLA -21.18 RAL 154.88 RAD 6567.3 VEL 11.394 PTH   1.97 VHP  3.442 DPA  10.86 RAP 150.49 ECC 1.1387
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 53 22	1300.21	8.12	348.66	5.50	117.22	8 15 2	700.2	11.71	341.82
90.00	13 44 36	5401.57	28.01	247.69	9.71	85.65	15 14 38	4801.6	27.11	239.13
100.00	9 0 21	1084.04	7.01	332.18	4.90	119.13	9 18 25	484.0	10.85	325.48
100.00	15 20 18	5092.98	29.26	224.85	9.57	83.59	16 45 11	4493.0	28.06	216.25
110.00	9 38 18	965.07	4.34	321.51	3.25	123.94	9 54 23	365.1	8.77	315.22
110.00	16 58 50	4784.71	32.36	200.86	9.00	78.33	18 18 35	4184.7	30.41	192.19

DIFFERENTIAL CORRECTIONS

```
TDE-1.1454 TRA  .1037 TC3-5.3962 BAU  .6109
RDE -.0335 RRA  .0592 RC3 -.5278 FAU .14585
FDE-3.7929 FRA 1.4341 FC-14.9808 BSP  11913
BDE 1.1459 BRA  .1194 BC3 5.4220 FSP  -3276
```

MID-COURSE EXECUTION ACCURACY

```
SGT 3869.8 SGR  337.6 SG3 1025.6
RRT  .8703 RRF  .8835 RTF  .9762
SGB 3884.5 R23  .0657 R13  .9764
SG1 3881.0 SG2  165.8 THA   4.35
```

ORBIT DETERMINATION ACCURACY

```
ST  2263.5 SR    76.6 SS  2244.1
CRT  .8811 CRS -.9195 CST -.9958
LSA 3184.7 MSA  150.2 SSA    8.8
EL1 2264.5 EL2   36.2 ALF   1.71
```

LAUNCH DATE JUN 5 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 16 1967

HELIOCENTRIC CONIC DISTANCE 456.958

```
RL  151.78 LAL   -.00 LOL 253.67 VL  26.840 GAL    .84 AZL  93.08 HCA 207.26 SMA 129.06 ECC .17669 INC 3.0780 V1  29.353
RP  107.58 LAP   1.41 LOP 100.89 VP  37.935 GAP   3.45 AZP  87.26 TAL 176.07 TAP  23.33 RCA 106.26 APO 151.86 V2  35.227
RC 110.226 GL  -29.40 GP   -3.73 ZAL  86.97 ZAP 132.16 ETS 357.65 ZAE 142.17 ETE 182.88 ZAC 116.82 ETC  15.10 CLP-132.27
```

PLANETOCENTRIC CONIC

```
C3   8.620 VHL  2.936 DLA -21.91 RAL 156.29 RAD 6567.3 VEL 11.402 PTH   1.97 VHP  3.574 DPA  11.46 RAP 150.67 ECC 1.1419
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 8 13	1270.99	9.03	346.99	7.43	116.95	8 29 24	671.0	12.57	340.11
90.00	13 40 57	5439.31	28.17	250.43	11.70	87.02	15 11 36	4839.3	27.46	241.84
100.00	9 14 4	1058.47	7.86	330.75	6.80	118.93	9 31 42	458.5	11.66	324.02
100.00	15 17 47	5127.06	29.49	227.36	11.59	84.89	16 43 14	4527.1	28.47	218.70
110.00	9 50 2	945.70	5.08	320.49	5.09	123.85	10 5 48	345.7	9.49	314.18
110.00	16 58 18	4812.60	32.72	202.96	11.07	79.52	18 18 31	4212.6	30.93	194.19

DIFFERENTIAL CORRECTIONS

```
TDE-1.2490 TRA  .1598 TC3-5.5753 BAU  .6450
RDE -.0146 RRA  .0611 RC3 -.4882 FAU .13497
FDE-3.6307 FRA 1.4572 FC-13.5547 BSP  12651
BDE 1.2491 BRA  .1711 BC3 5.5966 FSP  -3066
```

MID-COURSE EXECUTION ACCURACY

```
SGT 4095.3 SGR  315.5 SG3  958.0
RRT  .8135 RRF  .8226 RTF  .9768
SGB 4107.4 R23  .0452 R13  .9770
SG1 4103.4 SG2  183.1 THA   3.59
```

ORBIT DETERMINATION ACCURACY

```
ST  2441.4 SR    48.7 SS  2207.3
CRT  .6230 CRS -.6867 CST -.9961
LSA 3288.4 MSA  148.2 SSA    9.9
EL1 2441.6 EL2   38.1 ALF    .71
```

LAUNCH DATE JUN 5 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 18 1967

HELIOCENTRIC CONIC DISTANCE 463.127

```
RL  151.78 LAL   -.00 LOL 253.67 VL  26.819 GAL   1.02 AZL  93.12 HCA 210.50 SMA 128.92 ECC .17826 INC 3.1172 V1  29.353
RP  107.56 LAP   1.58 LOP 104.13 VP  37.926 GAP   3.82 AZP  87.31 TAL 175.29 TAP  25.79 RCA 105.94 APO 151.90 V2  35.233
RC 112.475 GL  -29.40 GP   -3.24 ZAL  85.40 ZAP 135.22 ETS 357.75 ZAE 140.27 ETE 182.37 ZAC 116.50 ETC  15.31 CLP-135.31
```

PLANETOCENTRIC CONIC

```
C3   8.823 VHL  2.970 DLA -22.58 RAL 157.83 RAD 6567.3 VEL 11.411 PTH   1.98 VHP  3.714 DPA  11.86 RAP 151.03 ECC 1.1452
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 23 12	1243.74	9.87	345.43	9.51	116.68	8 43 55	643.7	13.37	338.50
90.00	13 38 15	5475.41	28.27	253.07	13.81	88.34	15 9 30	4875.4	27.74	244.44
100.00	9 27 53	1034.97	8.63	329.43	8.85	118.73	9 45 8	435.0	12.40	322.67
100.00	15 16 15	5159.41	29.67	229.75	13.73	86.14	16 42 14	4559.4	28.81	221.04
110.00	10 1 54	928.32	5.73	319.58	7.08	123.76	10 17 22	328.3	10.13	313.24
110.00	16 58 43	4838.82	33.03	204.94	13.27	80.65	18 19 22	4238.8	31.39	196.10

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE-1.3497 TRA  .2244 TC3-5.7216 BAU  .6771   SGT 4307.1 SGR  304.4 SG3  895.1    ST  2609.2 SR    41.1 SS  2169.3
 RDE  .0021 RRA  .0640 RC3 -.4603 FAU .12481   RRT  .7486 RRF  .7536 RTF  .9772    CRT -.0388 CRS -.0422 CST -.9964
 FDE-3.4693 FRA 1.4838 FC-12.2469 BSP  13345   SGB 4317.9 R23  .0308 R13  .9773    LSA 3390.3 MSA  146.1 SSA   11.2
 BDE 1.3497 BRA  .2333 BC3 5.7401 FSP  -2870   SG1 4313.2 SG2  201.5 THA   3.04    EL1 2609.2 EL2   41.1 ALF 179.96
```

LAUNCH DATE JUN 5 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 20 1967

HELIOCENTRIC CONIC DISTANCE 469.277

```
RL  151.78 LAL   -.00 LOL 253.67 VL  26.796 GAL   1.21 AZL  93.15 HCA 213.75 SMA 128.77 ECC .17998 INC 3.1495 V1  29.353
RP  107.54 LAP   1.75 LOP 107.37 VP  37.915 GAP   4.20 AZP  87.38 TAL 174.46 TAP  28.21 RCA 105.59 APO 151.94 V2  35.239
RC 114.720 GL  -29.31 GP   -2.84 ZAL  83.75 ZAP 138.05 ETS 357.83 ZAE 138.57 ETE 182.02 ZAC 115.99 ETC  15.45 CLP-138.13
```

PLANETOCENTRIC CONIC

```
C3   9.043 VHL  3.007 DLA -23.19 RAL 159.49 RAD 6567.3 VEL 11.421 PTH   1.98 VHP  3.862 DPA  12.09 RAP 151.57 ECC 1.1488
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 38 26	1217.89	10.65	343.94	11.73	116.39	8 58 44	617.9	14.11	336.97
90.00	13 36 15	5510.73	28.31	255.65	16.04	89.63	15 8 6	4910.7	27.96	247.00
100.00	9 41 53	1013.05	9.35	328.20	11.04	118.52	9 58 46	413.0	13.08	321.40
100.00	15 15 28	5190.80	29.79	232.07	15.99	87.36	16 41 59	4590.8	29.10	223.33
110.00	10 13 56	912.57	6.33	318.75	9.20	123.66	10 29 9	312.6	10.71	312.39
110.00	16 59 55	4864.04	33.29	206.86	15.60	81.76	18 20 59	4264.0	31.80	197.95

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE-1.4447 TRA  .2969 TC3-5.8250 BAU  .7062   SGT 4497.7 SGR  300.4 SG3  833.5    ST  2760.8 SR    54.3 SS  2120.3
 RDE  .0176 RRA  .0674 RC3 -.4387 FAU .11497   RRT  .6792 RRF  .6805 RTF  .9774    CRT -.5599 CRS  .4932 CST -.9967
 FDE-3.2971 FRA 1.5090 FC-11.0067 BSP  13967   SGB 4507.7 R23  .0206 R13  .9774    LSA 3478.4 MSA  144.1 SSA   12.1
 BDE 1.4448 BRA  .3044 BC3 5.8415 FSP  -2676   SG1 4502.3 SG2  220.3 THA   2.60    EL1 2760.9 EL2   45.0 ALF 179.37
```

LAUNCH DATE JUN 5 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 22 1967

HELIOCENTRIC CONIC DISTANCE 475.407

```
RL  151.78 LAL   -.00 LOL 253.67 VL  26.773 GAL   1.42 AZL  93.18 HCA 216.99 SMA 128.61 ECC .18185 INC 3.1767 V1  29.353
RP  107.52 LAP   1.91 LOP 110.62 VP  37.903 GAP   4.58 AZP  87.46 TAL 173.61 TAP  30.60 RCA 105.22 APO 151.99 V2  35.244
RC 116.961 GL  -29.13 GP   -2.52 ZAL  82.03 ZAP 140.68 ETS 357.88 ZAE 137.05 ETE 181.79 ZAC 115.31 ETC  15.51 CLP-140.75
```

PLANETOCENTRIC CONIC

```
C3   9.286 VHL  3.047 DLA -23.76 RAL 161.25 RAD 6567.3 VEL 11.431 PTH   1.98 VHP  4.016 DPA  12.19 RAP 152.28 ECC 1.1528
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 53 59	1193.12	11.40	342.50	14.08	116.10	9 13 52	593.1	14.82	335.49
90.00	13 34 48	5545.77	28.30	258.22	18.38	90.92	15 7 14	4945.8	28.13	249.55
100.00	9 56 8	992.48	10.01	327.03	13.36	118.31	10 12 41	392.5	13.72	320.20
100.00	15 15 20	5221.65	29.86	234.36	18.37	88.56	16 42 22	4621.6	29.34	225.60
110.00	10 26 10	898.28	6.87	317.99	11.45	123.57	10 41 9	298.3	11.23	311.62
110.00	17 1 47	4888.60	33.52	208.74	18.05	82.86	18 23 16	4288.6	32.17	199.77

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE-1.5384 TRA  .3756 TC3-5.9018 BAU  .7346   SGT 4679.8 SGR  301.8 SG3  777.4    ST  2903.7 SR    75.1 SS  2071.7
 RDE  .0321 RRA  .0712 RC3 -.4217 FAU .10615   RRT  .6107 RRF  .6087 RTF  .9776    CRT -.7514 CRS  .6992 CST -.9969
 FDE-3.1347 FRA 1.5281 FC3-9.8961 BSP  14591   SGB 4689.5 R23  .0128 R13  .9776    LSA 3565.0 MSA  141.8 SSA   13.1
 BDE 1.5387 BRA  .3823 BC3 5.9169 FSP  -2508   SG1 4683.4 SG2  238.8 THA   2.26    EL1 2904.3 EL2   49.5 ALF 178.89
```

LAUNCH DATE JUN 5 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 24 1967

HELIOCENTRIC CONIC DISTANCE 481.516

```
RL  151.78 LAL   -.00 LOL 253.67 VL  26.748 GAL   1.63 AZL  93.20 HCA 220.24 SMA 128.44 ECC .18389 INC 3.2002 V1  29.353
RP  107.51 LAP   2.07 LOP 113.86 VP  37.890 GAP   4.95 AZP  87.56 TAL 172.71 TAP  32.95 RCA 104.82 APO 152.06 V2  35.248
RC 119.197 GL  -28.87 GP   -2.26 ZAL  80.25 ZAP 143.13 ETS 357.90 ZAE 135.68 ETE 181.63 ZAC 114.47 ETC  15.53 CLP-143.19
```

PLANETOCENTRIC CONIC

```
C3   9.558 VHL  3.092 DLA -24.30 RAL 163.12 RAD 6567.3 VEL 11.443 PTH   1.98 VHP  4.176 DPA  12.16 RAP 153.15 ECC 1.1573
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 9 53	1169.28	12.11	341.11	16.58	115.79	9 29 22	569.3	15.48	334.06
90.00	13 33 48	5580.88	28.24	260.78	20.85	92.20	15 6 49	4980.9	28.25	252.12
100.00	10 10 38	973.16	10.63	325.94	15.81	118.10	10 26 51	373.2	14.31	319.07
100.00	15 15 44	5252.23	29.89	236.63	20.88	89.76	16 43 17	4652.2	29.54	227.85
110.00	10 38 37	885.40	7.35	317.31	13.83	123.48	10 53 22	285.4	11.70	310.92
110.00	17 4 15	4912.75	33.71	210.60	20.63	83.94	18 26 8	4312.8	32.50	201.58

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE-1.6287 TRA  .4641 TC3-5.9371 BAU  .7604   SGT 4845.5 SGR  306.5 SG3  724.5    ST  3033.7 SR    97.4 SS  2019.2
 RDE  .0462 RRA  .0754 RC3 -.4064 FAU .09774   RRT  .5446 RRF  .5397 RTF  .9774    CRT -.8270 CRS  .7831 CST -.9971
 FDE-2.9750 FRA 1.5519 FC3-8.8534 BSP  15139   SGB 4855.1 R23  .0071 R13  .9774    LSA 3642.8 MSA  140.2 SSA   14.0
 BDE 1.6294 BRA  .4702 BC3 5.9510 FSP  -2340   SG1 4848.3 SG2  257.0 THA   1.98    EL1 3034.8 EL2   54.8 ALF 178.48
```

LAUNCH DATE JUN 5 1967 FLIGHT TIME 174.00 ARRIVAL DATE NOV 26 1967

HELIOCENTRIC CONIC DISTANCE 487.605

RL	151.78	LAL	-.00	LOL	253.67	VL	26.722	GAL	1.87	AZL	93.22	HCA	223.48	SMA	128.27	ECC	.18608	INC	3.2207
RP	107.50	LAP	2.22	LOP	117.10	VP	37.875	GAP	5.33	AZP	87.66	TAL	171.78	TAP	35.27	RCA	104.40	APO	152.14
RC	121.426	GL	-28.54	GP	-2.04	ZAL	78.40	ZAP	145.42	ETS	357.90	ZAE	134.46	ETE	181.53	ZAC	113.48	ETC	15.49

V1	29.353	V2	35.252	CLP	-145.47														

PLANETOCENTRIC CONIC

C3	9.863	VHL	3.141	DLA	-24.80	RAL	165.08	RAD	6567.4	VEL	11.457	PTH	1.99	VHP	4.342	DPA	12.04	RAP	154.15
ECC	1.1623																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 26 7	1146.33	12.78	339.76	19.20	115.48	9 45 13	546.3	16.11	332.67
90.00	13 33 11	5616.24	28.12	263.36	23.42	93.49	15 6 48	5016.2	28.31	254.70
100.00	10 25 20	955.13	11.21	324.91	18.40	117.89	10 41 15	355.1	14.86	318.01
100.00	15 16 39	5282.68	29.88	238.90	23.50	90.95	16 44 42	4682.7	29.69	230.10
110.00	10 51 12	873.97	7.78	316.70	16.34	123.39	11 5 46	274.0	12.12	310.29
110.00	17 7 16	4936.60	33.86	212.45	23.33	85.02	18 29 32	4336.6	32.80	203.37

DIFFERENTIAL CORRECTIONS

TDE	-1.7145	TRA	.5636	TC3	-5.9280	BAU	.7834
RDE	.0600	RRA	.0798	RC3	-.3916	FAU	.08978
FDE	-2.8186	FRA	1.5780	FC3	-7.8806	BSP	15604
BDE	1.7156	BRA	.5692	BC3	5.9409	FSP	-2181

MID-COURSE EXECUTION ACCURACY

SGT	4993.1	SGR	313.4	SG3	674.8		
RRT	.4824	RRF	.4751	RTF	.9772		
SGB	5002.9	R23	.0026	R13	.9772		
SG1	4995.4	SG2	274.4	THA	1.74		

ORBIT DETERMINATION ACCURACY

ST	3148.3	SR	119.9	SS	1962.4		
CRT	-.8624	CRS	.8234	CST	-.9972		
LSA	3709.1	MSA	139.0	SSA	14.9		
EL1	3150.0	EL2	60.7	ALF	178.12		

LAUNCH DATE JUN 5 1967 FLIGHT TIME 176.00 ARRIVAL DATE NOV 28 1967

HELIOCENTRIC CONIC DISTANCE 493.672

RL	151.78	LAL	-.00	LOL	253.67	VL	26.696	GAL	2.11	AZL	93.24	HCA	226.73	SMA	128.10	ECC	.18845	INC	3.2389
RP	107.49	LAP	2.36	LOP	120.35	VP	37.859	GAP	5.71	AZP	87.78	TAL	170.83	TAP	37.56	RCA	103.96	APO	152.24
RC	123.648	GL	-28.15	GP	-1.85	ZAL	76.51	ZAP	147.56	ETS	357.88	ZAE	133.36	ETE	181.45	ZAC	112.35	ETC	15.43

V1	29.353	V2	35.255	CLP	-147.61														

PLANETOCENTRIC CONIC

C3	10.208	VHL	3.195	DLA	-25.26	RAL	167.11	RAD	6567.4	VEL	11.472	PTH	1.99	VHP	4.513	DPA	11.83	RAP	155.28
ECC	1.1680																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 42 38	1124.35	13.42	338.47	21.96	115.17	10 1 22	524.4	16.71	331.33
90.00	13 32 55	5651.92	27.94	265.96	26.09	94.78	15 7 7	5051.9	28.31	257.31
100.00	10 40 11	938.51	11.74	323.95	21.10	117.69	10 55 50	338.5	15.35	317.03
100.00	15 18 2	5313.00	29.82	241.15	26.22	92.13	16 46 35	4713.0	29.80	232.35
110.00	11 3 54	864.11	8.15	316.17	18.95	123.31	11 18 18	264.1	12.48	309.75
110.00	17 10 49	4960.17	33.99	214.28	26.15	86.10	18 33 29	4360.2	33.07	205.16

DIFFERENTIAL CORRECTIONS

TDE	-1.8004	TRA	.6694	TC3	-5.8944	BAU	.8061
RDE	.0738	RRA	.0843	RC3	-.3771	FAU	.08267
FDE	-2.6748	FRA	1.5981	FC3	-7.0109	BSP	16087
BDE	1.8019	BRA	.6747	BC3	5.9065	FSP	-2042

MID-COURSE EXECUTION ACCURACY

SGT	5135.5	SGR	321.7	SG3	629.7		
RRT	.4249	RRF	.4154	RTF	.9770		
SGB	5145.5	R23	-.0012	R13	.9770		
SG1	5137.3	SG2	291.1	THA	1.53		

ORBIT DETERMINATION ACCURACY

ST	3255.0	SR	141.7	SS	1907.4		
CRT	-.8814	CRS	.8457	CST	-.9973		
LSA	3772.8	MSA	138.1	SSA	15.7		
EL1	3257.4	EL2	66.9	ALF	177.80		

LAUNCH DATE JUN 5 1967 FLIGHT TIME 178.00 ARRIVAL DATE NOV 30 1967

HELIOCENTRIC CONIC DISTANCE 499.716

RL	151.78	LAL	-.00	LOL	253.67	VL	26.669	GAL	2.38	AZL	93.26	HCA	229.98	SMA	127.92	ECC	.19099	INC	3.2552
RP	107.48	LAP	2.49	LOP	123.60	VP	37.842	GAP	6.09	AZP	87.91	TAL	169.84	TAP	39.82	RCA	103.49	APO	152.35
RC	125.861	GL	-27.70	GP	-1.69	ZAL	74.57	ZAP	149.57	ETS	357.84	ZAE	132.38	ETE	181.40	ZAC	111.11	ETC	15.33

V1	29.353	V2	35.257	CLP	-149.62														

PLANETOCENTRIC CONIC

C3	10.598	VHL	3.255	DLA	-25.69	RAL	169.22	RAD	6567.4	VEL	11.489	PTH	2.00	VHP	4.690	DPA	11.54	RAP	156.53
ECC	1.1744																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 59 23	1103.46	14.03	337.23	24.83	114.85	10 17 46	503.5	17.26	330.05
90.00	13 32 58	5687.94	27.71	268.57	28.87	96.07	15 7 46	5087.9	28.26	259.95
100.00	10 55 7	923.48	12.21	323.09	23.91	117.50	11 10 30	323.5	15.80	316.14
100.00	15 19 55	5343.16	29.73	243.39	29.06	93.31	16 48 58	4743.2	29.87	234.59
110.00	11 16 39	855.93	8.46	315.74	21.68	123.24	11 30 54	255.9	12.77	309.30
110.00	17 14 53	4983.46	34.08	216.09	29.08	87.17	18 37 56	4383.5	33.31	206.93

DIFFERENTIAL CORRECTIONS

TDE	-1.8854	TRA	.7832	TC3	-5.8299	BAU	.8276
RDE	.0877	RRA	.0886	RC3	-.3620	FAU	.07614
FDE	-2.5411	FRA	1.6148	FC3	-6.2195	BSP	16547
BDE	1.8874	BRA	.7882	BC3	5.8412	FSP	-1915

MID-COURSE EXECUTION ACCURACY

SGT	5268.7	SGR	330.7	SG3	588.2		
RRT	.3714	RRF	.3597	RTF	.9768		
SGB	5279.1	R23	-.0046	R13	.9768		
SG1	5270.1	SG2	307.0	THA	1.34		

ORBIT DETERMINATION ACCURACY

ST	3351.8	SR	163.1	SS	1853.0		
CRT	-.8924	CRS	.8590	CST	-.9975		
LSA	3830.9	MSA	137.4	SSA	16.4		
EL1	3355.0	EL2	73.5	ALF	177.51		

LAUNCH DATE JUN 5 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 2 1967

HELIOCENTRIC CONIC DISTANCE 505.737

RL	151.78	LAL	-.00	LOL	253.67	VL	26.640	GAL	2.65	AZL	93.27	HCA	233.22	SMA	127.73	ECC	.19372	INC	3.2701
RP	107.48	LAP	2.62	LOP	126.85	VP	37.823	GAP	6.47	AZP	88.04	TAL	168.83	TAP	42.05	RCA	102.99	APO	152.48
RC	128.066	GL	-27.19	GP	-1.56	ZAL	72.59	ZAP	151.47	ETS	357.78	ZAE	131.50	ETE	181.36	ZAC	109.77	ETC	15.21

V1	29.353	V2	35.258	CLP	-151.51														

PLANETOCENTRIC CONIC

C3	11.039	VHL	3.323	DLA	-26.08	RAL	171.39	RAD	6567.4	VEL	11.508	PTH	2.00	VHP	4.873	DPA	11.19	RAP	157.87
ECC	1.1817																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 16 16	1083.83	14.58	336.06	27.81	114.54	10 34 20	483.8	17.78	328.83
90.00	13 33 21	5724.23	27.42	271.18	31.73	97.35	15 8 45	5124.2	28.16	262.59
100.00	11 10 1	910.24	12.63	322.33	26.83	117.32	11 25 12	310.2	16.19	315.35
100.00	15 22 17	5373.05	29.59	245.60	31.99	94.46	16 51 50	4773.0	29.89	236.81
110.00	11 29 21	849.61	8.69	315.40	24.50	123.19	11 43 30	249.6	13.00	308.95
110.00	17 19 27	5006.45	34.14	217.88	32.11	88.23	18 42 53	4406.4	33.52	208.70

DIFFERENTIAL CORRECTIONS

TDE	-1.9680	TRA	.9077	TC3	-5.7307	BAU	.8473
RDE	.1020	RRA	.0929	RC3	-.3459	FAU	.07004
FDE	-2.4135	FRA	1.6334	FC3	-5.4928	BSP	16959
BDE	1.9707	BRA	.9125	BC3	5.7412	FSP	-1795

MID-COURSE EXECUTION ACCURACY

SGT	5390.4	SGR	340.0	SG3	549.7		
RRT	.3216	RRF	.3081	RTF	.9765		
SGB	5401.2	R23	-.0074	R13	.9765		
SG1	5391.6	SG2	321.9	THA	1.17		

ORBIT DETERMINATION ACCURACY

ST	3435.7	SR	184.0	SS	1797.0		
CRT	-.8988	CRS	.8671	CST	-.9976		
LSA	3879.2	MSA	137.7	SSA	16.9		
EL1	3439.7	EL2	80.6	ALF	177.24		

LAUNCH DATE JUN 5 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 4 1967

HELIOCENTRIC CONIC DISTANCE 511.733
RL 151.78 LAL -.00 LOL 253.67 VL 26.612 GAL 2.95 AZL 93.28 HCA 236.47 SMA 127.54 ECC .19665 INC 3.2837 VI 29.353
RP 107.48 LAP 2.74 LOP 130.10 VP 37.804 GAP 6.86 AZP 88.18 TAL 167.79 TAP 44.26 RCA 102.46 APO 152.63 V2 35.259
RC 130.261 GL -26.63 GP -1.44 ZAL 70.59 ZAP 153.26 ETS 357.71 ZAE 130.71 ETE 181.34 ZAC 108.32 ETC 15.08 CLP-153.29

PLANETOCENTRIC CONIC
C3 11.538 VHL 3.397 DLA -26.44 RAL 173.60 RAD 6567.4 VEL 11.529 PTH 2.01 VHP 5.061 OPA 10.77 RAP 159.30 ECC 1.1899

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 33 13	1065.71	15.09	334.97	30.90	114.25	10 50 58	465.7	18.24	327.71
90.00	13 34 4	5760.65	27.08	273.79	34.67	98.61	15 10 5	5160.7	27.99	265.25
100.00	11 24 48	899.08	12.98	321.68	29.84	117.17	11 39 47	299.1	16.51	314.68
100.00	15 25 10	5402.52	29.41	247.77	35.00	95.59	16 55 12	4802.5	29.88	239.00
110.00	11 41 56	845.31	8.85	315.17	27.40	123.15	11 56 1	245.3	13.15	308.72
110.00	17 24 31	5029.06	34.18	219.65	35.24	89.27	18 48 20	4429.1	33.70	210.44

DIFFERENTIAL CORRECTIONS
TDE-2.0469 TRA 1.0444 TC3-5.5944 BAU .8645
RDE .1167 RRA .0971 RC3 -.3285 FAU .06424
FDE-2.2902 FRA 1.6543 FC3-4.8199 BSP 17288
BDE 2.0502 BRA 1.0489 BC3 5.6041 FSP -1678

MID-COURSE EXECUTION ACCURACY
SGT 5498.7 SGR 349.3 SG3 513.7
RRT .2750 RRF .2600 RTF .9761
SGB 5509.8 R23 -.0098 R13 .9761
SG1 5499.6 SG2 335.8 THA 1.00

ORBIT DETERMINATION ACCURACY
ST 3504.6 SR 204.5 SS 1738.5
CRT -.9023 CRS .8716 CST -.9977
LSA 3914.9 MSA 138.8 SSA 17.3
EL1 3509.4 EL2 88.1 ALF 176.98

LAUNCH DATE JUN 5 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 6 1967

HELIOCENTRIC CONIC DISTANCE 517.704
RL 151.78 LAL -.00 LOL 253.67 VL 26.582 GAL 3.26 AZL 93.30 HCA 239.72 SMA 127.35 ECC .19978 INC 3.2964 VI 29.353
RP 107.48 LAP 2.85 LOP 133.35 VP 37.783 GAP 7.25 AZP 88.34 TAL 166.73 TAP 46.45 RCA 101.91 APO 152.80 V2 35.259
RC 132.447 GL -26.02 GP -1.33 ZAL 68.57 ZAP 154.95 ETS 357.61 ZAE 130.00 ETE 181.31 ZAC 106.79 ETC 14.93 CLP-154.99

PLANETOCENTRIC CONIC
C3 12.104 VHL 3.479 DLA -26.75 RAL 175.85 RAD 6567.5 VEL 11.554 PTH 2.02 VHP 5.255 OPA 10.30 RAP 160.81 ECC 1.1992

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 50 3	1049.46	15.55	333.99	34.07	113.97	11 7 32	449.5	18.65	326.69
90.00	13 35 11	5796.97	26.68	276.38	37.69	99.85	15 11 48	5197.0	27.77	267.88
100.00	11 39 19	890.30	13.25	321.17	32.94	117.04	11 54 10	290.3	16.77	314.15
100.00	15 28 36	5431.37	29.20	249.89	38.11	96.69	16 59 7	4831.4	29.82	241.14
110.00	11 54 20	843.20	8.93	315.06	30.39	123.13	12 8 23	243.2	13.23	308.60
110.00	17 30 5	5051.22	34.18	221.38	38.46	90.30	18 54 16	4451.2	33.85	212.15

DIFFERENTIAL CORRECTIONS
TDE-2.1272 TRA 1.1880 TC3-5.4411 BAU .8819
RDE .1320 RRA .1009 RC3 -.3103 FAU .05908
FDE-2.1790 FRA 1.6702 FC3-4.2256 BSP 17668
BDE 2.1313 BRA 1.1923 BC3 5.4499 FSP -1579

MID-COURSE EXECUTION ACCURACY
SGT 5604.2 SGR 358.4 SG3 481.1
RRT .2308 RRF .2143 RTF .9758
SGB 5615.7 R23 -.0120 R13 .9758
SG1 5604.8 SG2 348.7 THA .85

ORBIT DETERMINATION ACCURACY
ST 3566.2 SR 224.5 SS 1683.1
CRT -.9044 CRS .8747 CST -.9978
LSA 3947.3 MSA 140.4 SSA 17.5
EL1 3572.0 EL2 95.7 ALF 176.74

LAUNCH DATE JUN 5 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 8 1967

HELIOCENTRIC CONIC DISTANCE 523.647
RL 151.78 LAL -.00 LOL 253.67 VL 26.553 GAL 3.59 AZL 93.31 HCA 242.97 SMA 127.16 ECC .20314 INC 3.3083 VI 29.353
RP 107.48 LAP 2.95 LOP 136.60 VP 37.761 GAP 7.65 AZP 88.50 TAL 165.65 TAP 48.62 RCA 101.33 APO 152.99 V2 35.258
RC 134.624 GL -25.37 GP -1.24 ZAL 66.53 ZAP 156.57 ETS 357.50 ZAE 129.35 ETE 181.30 ZAC 105.19 ETC 14.78 CLP-156.60

PLANETOCENTRIC CONIC
C3 12.743 VHL 3.570 DLA -27.02 RAL 178.13 RAD 6567.5 VEL 11.581 PTH 2.03 VHP 5.456 OPA 9.78 RAP 162.39 ECC 1.2097

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 6 38	1035.48	15.93	333.14	37.32	113.72	11 23 53	435.5	19.00	325.82
90.00	13 36 47	5832.86	26.24	278.91	40.77	101.05	15 14 0	5232.9	27.50	270.47
100.00	11 53 27	884.22	13.44	320.82	36.10	116.96	12 8 11	284.2	16.94	313.78
100.00	15 32 39	5459.35	28.96	251.94	41.28	97.74	17 3 38	4859.4	29.73	243.22
110.00	12 6 26	843.46	8.92	315.07	33.44	123.14	12 20 29	243.5	13.22	308.61
110.00	17 36 9	5072.88	34.16	223.07	41.76	91.30	19 0 42	4472.9	33.96	213.83

DIFFERENTIAL CORRECTIONS
TDE-2.2060 TRA 1.3423 TC3-5.2640 BAU .8982
RDE .1479 RRA .1042 RC3 -.2912 FAU .05432
FDE-2.0745 FRA 1.6862 FC3-3.6902 BSP 18016
BDE 2.2110 BRA 1.3464 BC3 5.2720 FSP -1487

MID-COURSE EXECUTION ACCURACY
SGT 5701.8 SGR 367.2 SG3 451.1
RRT .1887 RRF .1711 RTF .9755
SGB 5713.6 R23 -.0140 R13 .9755
SG1 5702.2 SG2 360.5 THA .70

ORBIT DETERMINATION ACCURACY
ST 3616.1 SR 244.0 SS 1627.9
CRT -.9053 CRS .8764 CST -.9979
LSA 3970.5 MSA 142.7 SSA 17.7
EL1 3622.8 EL2 103.5 ALF 176.50

LAUNCH DATE JUN 5 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 10 1967

HELIOCENTRIC CONIC DISTANCE 529.561
RL 151.78 LAL -.00 LOL 253.67 VL 26.522 GAL 3.93 AZL 93.32 HCA 246.22 SMA 126.96 ECC .20674 INC 3.3195 VI 29.353
RP 107.48 LAP 3.04 LOP 139.85 VP 37.738 GAP 8.06 AZP 88.66 TAL 164.56 TAP 50.77 RCA 100.72 APO 153.21 V2 35.256
RC 136.791 GL -24.68 GP -1.17 ZAL 64.50 ZAP 158.11 ETS 357.37 ZAE 128.78 ETE 181.28 ZAC 103.51 ETC 14.63 CLP-158.14

PLANETOCENTRIC CONIC
C3 13.466 VHL 3.670 DLA -27.25 RAL 180.42 RAD 6567.5 VEL 11.613 PTH 2.03 VHP 5.664 OPA 9.21 RAP 164.02 ECC 1.2216

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 22 45	1024.30	16.24	332.46	40.64	113.52	11 39 49	424.3	19.28	325.11
90.00	13 38 57	5867.89	25.76	281.36	43.92	102.19	15 16 45	5267.9	27.18	272.99
100.00	12 7 3	881.17	13.53	320.64	39.32	116.91	12 21 44	281.2	17.03	313.60
100.00	15 37 20	5486.24	28.70	253.89	44.53	98.74	17 8 47	4886.2	29.61	245.21
110.00	12 18 11	846.22	8.82	315.22	36.54	123.16	12 32 17	246.2	13.12	308.77
110.00	17 42 42	5093.96	34.12	224.72	45.14	92.27	19 7 36	4494.0	34.05	215.47

DIFFERENTIAL CORRECTIONS
TDE-2.2837 TRA 1.5075 TC3-5.0645 BAU .9131
RDE .1644 RRA .1071 RC3 -.2712 FAU .04989
FDE-1.9765 FRA 1.7019 FC3-3.2071 BSP 18340
BDE 2.2896 BRA 1.5113 BC3 5.0717 FSP -1402

MID-COURSE EXECUTION ACCURACY
SGT 5791.2 SGR 375.4 SG3 423.2
RRT .1483 RRF .1296 RTF .9752
SGB 5803.4 R23 -.0158 R13 .9752
SG1 5791.5 SG2 371.2 THA .55

ORBIT DETERMINATION ACCURACY
ST 3654.7 SR 262.9 SS 1573.1
CRT -.9053 CRS .8771 CST -.9979
LSA 3984.8 MSA 145.7 SSA 17.7
EL1 3662.4 EL2 111.5 ALF 176.27

LAUNCH DATE JUN 5 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 12 1967

HELIOCENTRIC CONIC DISTANCE 535.445

RL 151.78 LAL -.00 LOL 253.67 VL 26.492 GAL 4.30 AZL 93.33 HCA 249.46 SMA 126.77 ECC .21060 INC 3.3301 V1 29.353
RP 107.49 LAP 3.12 LOP 143.10 VP 37.715 GAP 8.48 AZP 88.83 TAL 163.44 TAP 52.91 RCA 100.07 APO 153.46 V2 35.254
RC 138.949 GL -23.96 GP -1.10 ZAL 62.46 ZAP 159.58 ETS 357.22 ZAE 128.25 ETE 181.26 ZAC 101.77 ETC 14.47 CLP-159.61

PLANETOCENTRIC CONIC

C3 14.284 VHL 3.779 DLA -27.44 RAL 182.72 RAD 6567.6 VEL 11.648 PTH 2.04 VHP 5.880 DPA 8.60 RAP 165.71 ECC 1.2351

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 38 10	1016.58	16.44	331.99	44.00	113.38	11 55 7	416.6	19.47	324.63
90.00	13 41 52	613.42	25.26	305.79	47.12	103.25	13 52 5	13.4	26.83	297.48
100.00	12 19 59	881.48	13.52	320.66	42.58	116.92	12 34 40	281.5	17.02	313.62
100.00	15 42 44	5511.80	28.42	255.74	47.84	99.67	17 14 36	4911.8	29.47	247.09
110.00	12 29 29	851.61	8.62	315.51	39.69	123.21	12 43 41	251.6	12.93	309.06
110.00	17 49 43	5114.43	34.05	226.31	48.58	93.21	19 14 57	4514.4	34.12	217.07

DIFFERENTIAL CORRECTIONS
TDE-2.3562 TRA 1.6876 TC3-4.8361 BAU .9248
RDE .1818 RRA .1094 RC3 -.2506 FAU .04556
FDE-1.8798 FRA 1.7213 FC3-2.7614 BSP 18553
BDE 2.3632 BRA 1.6912 BC3 4.8426 FSP -1314

MID-COURSE EXECUTION ACCURACY
SGT 5867.9 SGR 383.1 SG3 397.1
RRT .1097 RRF .0905 RTF .9747
SGB 5880.4 R23 -.0170 R13 .9747
SGI 5868.0 SG2 380.8 THA .41

ORBIT DETERMINATION ACCURACY
ST 3676.8 SR 281.3 SS 1515.8
CRT -.9043 CRS .8764 CST -.9980
LSA 3984.1 MSA 149.8 SSA 17.6
EL1 3685.6 EL2 119.8 ALF 176.04

LAUNCH DATE JUN 5 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 14 1967

HELIOCENTRIC CONIC DISTANCE 541.294

RL 151.78 LAL -.00 LOL 253.67 VL 26.461 GAL 4.69 AZL 93.34 HCA 252.71 SMA 126.57 ECC .21473 INC 3.3403 V1 29.353
RP 107.50 LAP 3.19 LOP 146.35 VP 37.690 GAP 8.90 AZP 89.01 TAL 162.31 TAP 55.02 RCA 99.39 APO 153.75 V2 35.251
RC 141.095 GL -23.20 GP -1.03 ZAL 60.45 ZAP 160.99 ETS 357.06 ZAE 127.77 ETE 181.25 ZAC 99.98 ETC 14.32 CLP-161.02

PLANETOCENTRIC CONIC

C3 15.209 VHL 3.900 DLA -27.58 RAL 185.01 RAD 6567.6 VEL 11.687 PTH 2.06 VHP 6.104 DPA 7.95 RAP 167.45 ECC 1.2503

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 52 35	1013.18	16.54	331.79	47.39	113.32	12 9 29	413.2	19.55	324.41
90.00	13 45 43	644.77	24.75	307.95	50.37	104.22	13 56 28	44.8	26.46	299.70
100.00	12 32 7	885.44	13.40	320.89	45.87	116.97	12 46 52	285.4	16.91	313.86
100.00	15 48 53	5535.78	28.14	257.47	51.20	100.54	17 21 9	4935.8	29.30	248.86
110.00	12 40 18	859.73	8.31	315.94	42.87	123.28	12 54 38	259.7	12.64	309.51
110.00	17 57 11	5134.26	33.96	227.85	52.08	94.12	19 22 45	4534.3	34.16	218.61

DIFFERENTIAL CORRECTIONS
TDE-2.4321 TRA 1.8752 TC3-4.6052 BAU .9375
RDE .1999 RRA .1109 RC3 -.2298 FAU .04178
FDE-1.7948 FRA 1.7363 FC3-2.3784 BSP 18851
BDE 2.4403 BRA 1.8785 BC3 4.6110 FSP -1242

MID-COURSE EXECUTION ACCURACY
SGT 5944.1 SGR 390.1 SG3 373.4
RRT .0715 RRF .0517 RTF .9744
SGB 5956.9 R23 -.0183 R13 .9744
SGI 5944.1 SG2 389.1 THA .27

ORBIT DETERMINATION ACCURACY
ST 3694.5 SR 298.9 SS 1463.5
CRT -.9033 CRS .8759 CST -.9981
LSA 3982.0 MSA 153.9 SSA 17.4
EL1 3704.4 EL2 127.9 ALF 175.82

LAUNCH DATE JUN 5 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 16 1967

HELIOCENTRIC CONIC DISTANCE 547.108

RL 151.78 LAL -.00 LOL 253.67 VL 26.429 GAL 5.10 AZL 93.35 HCA 255.96 SMA 126.37 ECC .21915 INC 3.3501 V1 29.353
RP 107.51 LAP 3.25 LOP 149.60 VP 37.664 GAP 9.34 AZP 89.19 TAL 161.18 TAP 57.13 RCA 98.68 APO 154.06 V2 35.247
RC 143.232 GL -22.43 GP -.98 ZAL 58.45 ZAP 162.35 ETS 356.87 ZAE 127.34 ETE 181.23 ZAC 98.14 ETC 14.18 CLP-162.38

PLANETOCENTRIC CONIC

C3 16.254 VHL 4.032 DLA -27.68 RAL 187.28 RAD 6567.7 VEL 11.732 PTH 2.07 VHP 6.336 DPA 7.26 RAP 169.22 ECC 1.2675

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 5 41	1014.99	16.49	331.90	50.80	113.35	12 22 36	415.0	19.51	324.53
90.00	13 50 46	673.03	24.26	309.87	53.68	105.07	14 1 59	73.0	26.10	301.68
100.00	12 43 21	893.28	13.16	321.34	49.17	117.09	12 58 14	293.3	16.68	314.33
100.00	15 55 48	5558.02	27.85	259.06	54.62	101.33	17 28 26	4958.0	29.13	250.49
110.00	12 50 34	870.62	7.91	316.52	46.06	123.36	13 5 4	270.6	12.24	310.11
110.00	18 5 4	5153.44	33.86	229.34	55.62	95.00	19 30 58	4553.4	34.18	220.11

DIFFERENTIAL CORRECTIONS
TDE-2.5062 TRA 2.0761 TC3-4.3597 BAU .9484
RDE .2188 RRA .1116 RC3 -.2090 FAU .03820
FDE-1.7137 FRA 1.7526 FC3-2.0345 BSP 19111
BDE 2.5157 BRA 2.0791 BC3 4.3647 FSP -1174

MID-COURSE EXECUTION ACCURACY
SGT 6012.1 SGR 396.5 SG3 351.3
RRT .0344 RRF .0143 RTF .9741
SGB 6025.1 R23 -.0193 R13 .9741
SGI 6012.1 SG2 396.3 THA .13

ORBIT DETERMINATION ACCURACY
ST 3700.8 SR 315.6 SS 1411.4
CRT -.9018 CRS .8748 CST -.9982
LSA 3970.1 MSA 158.7 SSA 17.1
EL1 3711.7 EL2 136.0 ALF 175.60

LAUNCH DATE JUN 5 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 18 1967

HELIOCENTRIC CONIC DISTANCE 552.881

RL 151.78 LAL -.00 LOL 253.67 VL 26.398 GAL 5.53 AZL 93.36 HCA 259.20 SMA 126.17 ECC .22390 INC 3.3597 V1 29.353
RP 107.53 LAP 3.30 LOP 152.85 VP 37.638 GAP 9.79 AZP 89.37 TAL 160.03 TAP 59.23 RCA 97.92 APO 154.42 V2 35.243
RC 145.356 GL -21.64 GP -.93 ZAL 56.48 ZAP 163.67 ETS 356.66 ZAE 126.94 ETE 181.20 ZAC 96.25 ETC 14.04 CLP-163.69

PLANETOCENTRIC CONIC

C3 17.436 VHL 4.176 DLA -27.74 RAL 189.53 RAD 6567.7 VEL 11.782 PTH 2.08 VHP 6.579 DPA 6.55 RAP 171.03 ECC 1.2869

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 17 10	1022.92	16.27	332.38	54.19	113.50	12 34 13	422.9	19.31	325.03
90.00	13 57 14	697.37	23.82	311.52	57.05	105.78	14 8 51	97.4	25.76	303.39
100.00	12 53 36	905.13	12.79	322.03	52.48	117.25	13 8 41	305.1	16.34	315.04
100.00	16 3 29	5578.44	27.57	260.51	58.08	102.04	17 36 27	4978.4	28.95	251.98
110.00	13 0 14	884.32	7.39	317.25	49.27	123.47	13 14 58	284.3	11.74	310.86
110.00	18 13 21	5172.01	33.74	230.78	59.21	95.84	19 39 33	4572.0	34.18	221.56

DIFFERENTIAL CORRECTIONS
TDE-2.5792 TRA 2.2896 TC3-4.1050 BAU .9579
RDE .2385 RRA .1114 RC3 -.1885 FAU .03487
FDE-1.6379 FRA 1.7687 FC3-1.7312 BSP 19348
BDE 2.5902 BRA 2.2923 BC3 4.1093 FSP -1111

MID-COURSE EXECUTION ACCURACY
SGT 6072.8 SGR 402.2 SG3 330.8
RRT -.0022 RRF -.0223 RTF .9739
SGB 6086.1 R23 .0201 R13 -.9739
SGI 6072.8 SG2 402.2 THA 179.99

ORBIT DETERMINATION ACCURACY
ST 3697.2 SR 331.4 SS 1360.7
CRT -.8999 CRS .8733 CST -.9982
LSA 3950.2 MSA 163.8 SSA 16.7
EL1 3709.3 EL2 144.1 ALF 175.38

LAUNCH DATE JUN 5 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 20 1967

HELIOCENTRIC CONIC DISTANCE 558.612
RL 151.78 LAL -.00 LOL 253.67 VL 26.366 GAL 5.99 AZL 93.37 HCA 262.45 SMA 125.97 ECC .22900 INC 3.3690 V1 29.353
RP 107.54 LAP 3.34 LOP 156.10 VP 37.611 GAP 10.26 AZP 89.56 TAL 158.87 TAP 61.32 RCA 97.12 APO 154.82 V2 35.237
RC 147.469 GL -20.83 GP -.88 ZAL 54.54 ZAP 164.94 ETS 356.43 ZAE 126.57 ETE 181.18 ZAC 94.33 ETC 13.92 CLP-164.97

PLANETOCENTRIC CONIC
C3 18.772 VHL 4.333 DLA -27.76 RAL 191.75 RAD 6567.8 VEL 11.839 PTH 2.10 VHP 6.833 DPA 5.80 RAP 172.87 ECC 1.3089

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 26 48	1037.53	15.87	333.27	57.55	113.76	12 44 5	437.5	18.95	325.95
90.00	14 5 16	717.25	23.45	312.86	60.48	106.35	14 17 13	117.2	25.47	304.77
100.00	13 2 50	921.03	12.29	322.95	55.78	117.46	13 18 11	321.0	15.87	315.99
100.00	16 11 54	5597.02	27.30	261.82	61.59	102.68	17 45 11	4997.0	28.77	253.33
110.00	13 9 16	900.81	6.77	318.12	52.48	123.59	13 24 17	300.8	11.14	311.76
110.00	18 21 57	5190.01	33.61	232.17	62.83	96.65	19 48 27	4590.0	34.16	222.97

DIFFERENTIAL CORRECTIONS
TDE-2.6484 TRA 2.5201 TC3-3.8371 BAU .9639
RDE .2590 RRA .1102 RC3 -.1685 FAU .03159
FDE-1.5642 FRA 1.7883 FC3-1.4568 BSP 19490
BDE 2.6610 BRA 2.5225 BC3 3.8408 FSP -1046

MID-COURSE EXECUTION ACCURACY
SGT 6124.2 SGR 407.1 SG3 311.7
RRT -.0377 RRF -.0573 RTF .9735
SGB 6137.7 R23 .0204 R13 -.9735
SG1 6124.2 SG2 406.8 THA 179.86

ORBIT DETERMINATION ACCURACY
ST 3681.3 SR 346.1 SS 1309.9
CRT -.8974 CRS .8709 CST -.9983
LSA 3919.0 MSA 169.5 SSA 16.4
EL1 3694.4 EL2 152.2 ALF 175.17

LAUNCH DATE JUN 5 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 22 1967

HELIOCENTRIC CONIC DISTANCE 564.295
RL 151.78 LAL -.00 LOL 253.67 VL 26.334 GAL 6.48 AZL 93.38 HCA 265.69 SMA 125.77 ECC .23448 INC 3.3782 V1 29.353
RP 107.56 LAP 3.37 LOP 159.35 VP 37.583 GAP 10.74 AZP 89.75 TAL 157.71 TAP 63.40 RCA 96.28 APO 155.26 V2 35.231
RC 149.570 GL -20.02 GP -.84 ZAL 52.65 ZAP 166.18 ETS 356.17 ZAE 126.22 ETE 181.15 ZAC 92.38 ETC 13.80 CLP-166.20

PLANETOCENTRIC CONIC
C3 20.285 VHL 4.504 DLA -27.74 RAL 193.92 RAD 6567.8 VEL 11.902 PTH 2.11 VHP 7.099 DPA 5.03 RAP 174.73 ECC 1.3338

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 34 32	1058.92	15.28	334.56	60.87	114.13	12 52 11	458.9	18.42	327.29
90.00	14 14 50	732.59	23.15	313.88	63.98	106.78	14 27 3	132.6	25.23	305.83
100.00	13 11 2	940.94	11.66	324.09	59.06	117.72	13 26 43	340.9	15.28	317.17
100.00	16 21 2	5613.84	27.04	263.01	65.13	103.26	17 54 35	5013.8	28.59	254.55
110.00	13 17 41	920.04	6.05	319.14	55.69	123.71	13 33 1	320.0	10.44	312.80
110.00	18 30 52	5207.50	33.46	233.51	66.48	97.43	19 57 39	4607.5	34.13	224.33

DIFFERENTIAL CORRECTIONS
TDE-2.7213 TRA 2.7611 TC3-3.5748 BAU .9703
RDE .2803 RRA .1078 RC3 -.1493 FAU .02867
FDE-1.4988 FRA 1.8057 FC3-1.2236 BSP 19705
BDE 2.7357 BRA 2.7632 BC3 3.5779 FSP -991

MID-COURSE EXECUTION ACCURACY
SGT 6172.8 SGR 411.4 SG3 294.1
RRT -.0736 RRF -.0926 RTF .9733
SGB 6186.5 R23 .0208 R13 -.9733
SG1 6172.9 SG2 410.3 THA 179.72

ORBIT DETERMINATION ACCURACY
ST 3662.2 SR 359.6 SS 1263.4
CRT -.8950 CRS .8688 CST -.9984
LSA 3886.7 MSA 174.9 SSA 16.0
EL1 3676.3 EL2 159.8 ALF 174.97

LAUNCH DATE JUN 5 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 24 1967

HELIOCENTRIC CONIC DISTANCE 569.925
RL 151.78 LAL -.00 LOL 253.67 VL 26.302 GAL 7.00 AZL 93.39 HCA 268.93 SMA 125.57 ECC .24037 INC 3.3873 V1 29.353
RP 107.58 LAP 3.39 LOP 162.60 VP 37.554 GAP 11.25 AZP 89.94 TAL 156.55 TAP 65.48 RCA 95.39 APO 155.75 V2 35.225
RC 151.657 GL -19.20 GP -.81 ZAL 50.80 ZAP 167.38 ETS 355.87 ZAE 125.90 ETE 181.12 ZAC 90.39 ETC 13.70 CLP-167.41

PLANETOCENTRIC CONIC
C3 21.999 VHL 4.690 DLA -27.68 RAL 196.04 RAD 6567.9 VEL 11.974 PTH 2.13 VHP 7.379 DPA 4.24 RAP 176.61 ECC 1.3620

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 40 31	1086.53	14.51	336.22	64.14	114.59	12 58 37	486.5	17.71	329.00
90.00	14 25 47	743.96	22.92	314.64	67.52	107.09	14 38 11	144.0	25.05	306.61
100.00	13 18 13	964.67	10.91	325.45	62.32	118.00	13 34 18	364.7	14.57	318.58
100.00	16 30 46	5629.09	26.80	264.08	68.70	103.77	18 4 35	5029.1	28.42	255.65
110.00	13 25 27	941.95	5.22	320.29	58.88	123.83	13 41 9	341.9	9.63	313.98
110.00	18 40 1	5224.58	33.30	234.82	70.16	98.19	20 7 6	4624.6	34.08	225.67

DIFFERENTIAL CORRECTIONS
TDE-2.7940 TRA 3.0171 TC3-3.3120 BAU .9748
RDE .3023 RRA .1041 RC3 -.1310 FAU .02592
FDE-1.4378 FRA 1.8239 FC3-1.0202 BSP 19899
BDE 2.8103 BRA 3.0189 BC3 3.3146 FSP -940

MID-COURSE EXECUTION ACCURACY
SGT 6214.9 SGR 414.9 SG3 277.7
RRT -.1090 RRF -.1273 RTF .9732
SGB 6228.7 R23 .0209 R13 -.9732
SG1 6215.0 SG2 412.4 THA 179.58

ORBIT DETERMINATION ACCURACY
ST 3635.5 SR 371.9 SS 1218.9
CRT -.8924 CRS .8665 CST -.9984
LSA 3848.2 MSA 180.3 SSA 15.6
EL1 3650.7 EL2 167.1 ALF 174.77

LAUNCH DATE JUN 5 1967 FLIGHT TIME 204.00 ARRIVAL DATE DEC 26 1967

HELIOCENTRIC CONIC DISTANCE 575.495
RL 151.78 LAL -.00 LOL 253.67 VL 26.270 GAL 7.55 AZL 93.40 HCA 272.17 SMA 125.37 ECC .24673 INC 3.3964 V1 29.353
RP 107.60 LAP 3.39 LOP 165.84 VP 37.525 GAP 11.77 AZP 90.13 TAL 155.39 TAP 67.56 RCA 94.44 APO 156.30 V2 35.217
RC 153.730 GL -18.38 GP -.78 ZAL 48.99 ZAP 168.56 ETS 355.53 ZAE 125.60 ETE 181.09 ZAC 88.38 ETC 13.61 CLP-168.59

PLANETOCENTRIC CONIC
C3 23.943 VHL 4.893 DLA -27.59 RAL 198.10 RAD 6568.0 VEL 12.055 PTH 2.15 VHP 7.673 DPA 3.43 RAP 178.51 ECC 1.3940

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 45 0	1119.45	13.57	338.18	67.36	115.10	13 3 39	519.4	16.84	331.03
90.00	14 37 45	752.27	22.76	315.19	71.11	107.32	14 50 18	152.3	24.91	307.19
100.00	13 24 26	991.98	10.03	327.00	65.55	118.31	13 40 58	392.0	13.74	320.18
100.00	16 41 0	5643.00	26.57	265.05	72.30	104.23	18 15 3	5043.0	28.26	256.65
110.00	13 32 35	966.41	4.29	321.58	62.06	123.95	13 48 41	366.4	8.72	315.29
110.00	18 49 21	5241.34	33.13	236.10	73.85	98.93	20 16 42	4641.3	34.01	226.97

DIFFERENTIAL CORRECTIONS
TDE-2.8667 TRA 3.2895 TC3-3.0504 BAU .9771
RDE .3251 RRA .0991 RC3 -.1138 FAU .02333
FDE-1.3809 FRA 1.8435 FC3 -.8436 BSP 20068
BDE 2.8851 BRA 3.2910 BC3 3.0526 FSP -892

MID-COURSE EXECUTION ACCURACY
SGT 6250.4 SGR 417.7 SG3 262.5
RRT -.1442 RRF -.1614 RTF .9731
SGB 6264.3 R23 .0207 R13 -.9732
SG1 6250.7 SG2 413.3 THA 179.45

ORBIT DETERMINATION ACCURACY
ST 3602.2 SR 382.7 SS 1176.5
CRT -.8896 CRS .8640 CST -.9985
LSA 3804.2 MSA 185.7 SSA 15.2
EL1 3618.3 EL2 174.1 ALF 174.59

LAUNCH DATE JUN 5 1967 FLIGHT TIME 206.00 ARRIVAL DATE DEC 28 1967

HELIOCENTRIC CONIC DISTANCE 580.999
RL 151.78 LAL -.00 LOL 253.67 VL 26.239 GAL 8.13 AZL 93.41 HCA 275.41 SMA 125.17 ECC .25359 INC 3.4056 V1 29.353
RP 107.63 LAP 3.39 LOP 169.09 VP 37.495 GAP 12.32 AZP 90.32 TAL 154.23 TAP 69.64 RCA 93.43 APO 156.91 V2 35.210
RC 155.789 GL -17.56 GP -.75 ZAL 47.24 ZAP 169.71 ETS 355.13 ZAE 125.31 ETE 181.06 ZAC 86.36 ETC 13.54 CLP-169.74
PLANETOCENTRIC CONIC
C3 26.151 VHL 5.114 DLA -27.46 RAL 200.10 RAD 6568.1 VEL 12.146 PTH 2.18 VHP 7.985 DPA 2.61 RAP 180.43 ECC 1.4304

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 48 17	1156.67	12.48	340.37	70.54	115.63	13 7 33	556.7	15.83	333.29
90.00	14 50 27	758.50	22.63	315.60	74.73	107.49	15 3 6	158.5	24.81	307.61
100.00	13 29 46	1022.59	9.04	328.73	68.74	118.62	13 46 49	422.6	12.79	321.95
100.00	16 51 39	5655.85	26.35	265.94	75.91	104.65	18 25 55	5055.9	28.10	257.58
110.00	13 39 5	993.32	3.26	322.99	65.21	124.05	13 55 38	393.3	7.71	316.72
110.00	18 58 49	5257.88	32.95	237.36	77.55	99.65	20 26 27	4657.9	33.93	228.26

DIFFERENTIAL CORRECTIONS
TOE-2.9403 TRA 3.5796 TC3-2.7920 BAU .9767
ROE .3485 RRA .0925 RC3 -.0979 FAU .02086
FOE-1.3282 FRA 1.8648 FC3 -.6905 BSP 20212
BOE 2.9609 BRA 3.5808 BC3 2.7937 FSP -846

MID-COURSE EXECUTION ACCURACY
SGT 6279.9 SGR 419.7 SG3 248.3
RRT -.1792 RRF -.1951 RTF .9732
SGB 6293.9 R23 .0202 R13 -.9732
SG1 6280.3 SG2 412.9 THA 179.31

ORBIT DETERMINATION ACCURACY
ST 3563.6 SR 392.1 SS 1136.6
CRT -.8865 CRS .8612 CST -.9985
LSA 3756.1 MSA 190.8 SSA 14.8
EL1 3580.5 EL2 180.5 ALF 174.41

LAUNCH DATE JUN 5 1967 FLIGHT TIME 208.00 ARRIVAL DATE DEC 30 1967

HELIOCENTRIC CONIC DISTANCE 586.427
RL 151.78 LAL -.00 LOL 253.67 VL 26.207 GAL 8.75 AZL 93.41 HCA 278.65 SMA 124.97 ECC .26100 INC 3.4148 V1 29.353
RP 107.65 LAP 3.38 LOP 172.33 VP 37.465 GAP 12.90 AZP 90.51 TAL 153.08 TAP 71.73 RCA 92.36 APO 157.59 V2 35.201
RC 157.834 GL -16.75 GP -.72 ZAL 45.55 ZAP 170.85 ETS 354.65 ZAE 125.03 ETE 181.02 ZAC 84.32 ETC 13.49 CLP-170.88
PLANETOCENTRIC CONIC
C3 28.663 VHL 5.354 DLA -27.30 RAL 202.04 RAD 6568.2 VEL 12.249 PTH 2.20 VHP 8.316 DPA 1.77 RAP 182.36 ECC 1.4717

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 50 36	1197.28	11.27	342.74	73.66	116.15	13 10 33	597.3	14.70	335.74
90.00	15 3 34	763.53	22.53	315.94	78.37	107.63	15 16 17	163.5	24.73	307.96
100.00	13 34 16	1056.16	7.94	330.62	71.90	118.91	13 51 53	456.2	11.73	323.89
100.00	17 2 35	5667.92	26.14	266.77	79.54	105.04	18 37 2	5067.9	27.95	258.44
110.00	13 44 59	1022.54	2.15	324.52	68.34	124.12	14 2 1	422.5	6.61	318.27
110.00	19 8 21	5274.30	32.76	238.60	81.25	100.37	20 36 16	4674.3	33.84	229.53

DIFFERENTIAL CORRECTIONS
TOE-3.0121 TRA 3.8909 TC3-2.5355 BAU .9721
ROE .3726 RRA .0843 RC3 -.0834 FAU .01844
FOE-1.2779 FRA 1.8893 FC3 -.5568 BSP 20268
BOE 3.0350 BRA 3.8918 BC3 2.5368 FSP -800

MID-COURSE EXECUTION ACCURACY
SGT 6302.4 SGR 421.0 SG3 235.1
RRT -.2136 RRF -.2277 RTF .9733
SGB 6316.4 R23 .0194 R13 -.9733
SG1 6303.0 SG2 411.3 THA 179.18

ORBIT DETERMINATION ACCURACY
ST 3517.6 SR 399.9 SS 1098.3
CRT -.8831 CRS .8579 CST -.9986
LSA 3701.5 MSA 195.8 SSA 14.4
EL1 3535.4 EL2 186.7 ALF 174.25

LAUNCH DATE JUN 5 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 1 1968

HELIOCENTRIC CONIC DISTANCE 591.770
RL 151.78 LAL -.00 LOL 253.67 VL 26.175 GAL 9.42 AZL 93.42 HCA 281.89 SMA 124.78 ECC .26903 INC 3.4242 V1 29.353
RP 107.68 LAP 3.35 LOP 175.58 VP 37.434 GAP 13.52 AZP 90.71 TAL 151.95 TAP 73.84 RCA 91.21 APO 158.35 V2 35.192
RC 159.863 GL -15.94 GP -.69 ZAL 43.92 ZAP 171.97 ETS 354.07 ZAE 124.75 ETE 180.98 ZAC 82.27 ETC 13.45 CLP-172.00
PLANETOCENTRIC CONIC
C3 31.528 VHL 5.615 DLA -27.11 RAL 203.90 RAD 6568.3 VEL 12.365 PTH 2.23 VHP 8.668 DPA .92 RAP 184.29 ECC 1.5189

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 52 10	1240.57	9.96	345.25	76.74	116.64	13 12 50	640.6	13.46	338.32
90.00	15 16 52	768.00	22.43	316.23	82.02	107.75	15 29 40	168.0	24.65	308.26
100.00	13 38 2	1092.40	6.74	332.64	75.01	119.19	13 56 14	492.4	10.58	325.96
100.00	17 13 41	5679.45	25.93	267.57	83.16	105.41	18 48 21	5079.4	27.80	259.26
110.00	13 50 17	1053.92	.95	326.15	71.43	124.17	14 7 51	453.9	5.43	319.93
110.00	19 17 55	5290.69	32.55	239.83	84.95	101.07	20 46 6	4690.7	33.73	230.80

DIFFERENTIAL CORRECTIONS
TOE-3.0898 TRA 4.2182 TC3-2.2921 BAU .9665
ROE .3972 RRA .0744 RC3 -.0703 FAU .01624
FOE-1.2339 FRA 1.9137 FC3 -.4458 BSP 20399
BOE 3.1152 BRA 4.2188 BC3 2.2931 FSP -760

MID-COURSE EXECUTION ACCURACY
SGT 6320.6 SGR 421.7 SG3 222.8
RRT -.2484 RRF -.2608 RTF .9736
SGB 6334.7 R23 .0185 R13 -.9736
SG1 6321.5 SG2 408.4 THA 179.05

ORBIT DETERMINATION ACCURACY
ST 3471.5 SR 406.1 SS 1064.1
CRT -.8799 CRS .8551 CST -.9987
LSA 3648.0 MSA 200.1 SSA 14.0
EL1 3489.9 EL2 191.9 ALF 174.10

LAUNCH DATE JUN 5 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 3 1968

HELIOCENTRIC CONIC DISTANCE 597.014
RL 151.78 LAL -.00 LOL 253.67 VL 26.143 GAL 10.13 AZL 93.43 HCA 285.12 SMA 124.58 ECC .27775 INC 3.4338 V1 29.353
RP 107.71 LAP 3.31 LOP 178.82 VP 37.403 GAP 14.17 AZP 90.90 TAL 150.83 TAP 75.95 RCA 89.98 APO 159.19 V2 35.183
RC 161.876 GL -15.15 GP -.67 ZAL 42.35 ZAP 173.09 ETS 353.33 ZAE 124.48 ETE 180.94 ZAC 80.21 ETC 13.44 CLP-173.12
PLANETOCENTRIC CONIC
C3 34.802 VHL 5.899 DLA -26.90 RAL 205.69 RAD 6568.4 VEL 12.497 PTH 2.26 VHP 9.044 DPA .06 RAP 186.23 ECC 1.5728

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 53 7	1285.98	8.57	347.85	79.77	117.09	13 14 33	686.0	12.13	340.99
90.00	15 30 10	772.40	22.34	316.52	85.67	107.86	15 43 3	172.4	24.58	308.56
100.00	13 41 6	1130.98	5.45	334.78	78.09	119.44	13 59 57	531.0	9.33	328.15
100.00	17 24 52	5690.68	25.73	268.34	86.79	105.77	18 59 43	5090.7	27.64	260.06
110.00	13 55 1	1087.32	-.33	327.90	74.50	124.18	14 13 8	487.3	4.16	321.68
110.00	19 27 27	5307.11	32.33	241.06	88.64	101.76	20 55 54	4707.1	33.61	232.06

DIFFERENTIAL CORRECTIONS
TOE-3.1703 TRA 4.5671 TC3-2.0571 BAU .9575
ROE .4224 RRA .0627 RC3 -.0586 FAU .01414
FOE-1.1940 FRA 1.9403 FC3 -.3517 BSP 20508
BOE 3.1983 BRA 4.5675 BC3 2.0579 FSP -723

MID-COURSE EXECUTION ACCURACY
SGT 6333.3 SGR 421.6 SG3 211.3
RRT -.2831 RRF -.2937 RTF .9740
SGB 6347.3 R23 .0175 R13 -.9741
SG1 6334.4 SG2 404.3 THA 178.92

ORBIT DETERMINATION ACCURACY
ST 3422.3 SR 410.8 SS 1032.8
CRT -.8767 CRS .8524 CST -.9987
LSA 3592.5 MSA 203.8 SSA 13.6
EL1 3441.3 EL2 196.5 ALF 173.97

LAUNCH DATE JUN 5 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 5 1968

DISTANCE 602.144

HELIOCENTRIC CONIC
RL 151.78 LAL -.00 LOL 253.67 VL 26.112 GAL 10.90 AZL 93.44 HCA 288.36 SMA 124.39 ECC .28723 INC 3.4437 V1 29.353
RP 107.74 LAP 3.27 LOP 182.05 VP 37.372 GAP 14.86 AZP 91.09 TAL 149.73 TAP 78.09 RCA 88.66 APO 160.12 V2 35.172
RC 163.875 GL -14.36 GP -.65 ZAL 40.84 ZAP 174.19 ETS 352.35 ZAE 124.20 ETE 180.89 ZAC 78.15 ETC 13.44 CLP-174.23

PLANETOCENTRIC CONIC
C3 38.556 VHL 6.209 DLA -26.66 RAL 207.40 RAD 6568.5 VEL 12.646 PTH 2.30 VHP 9.448 DPA -.80 RAP 188.17 ECC 1.6345

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 53 34	1333.10	7.09	350.53	82.76	117.49	13 15 47	733.1	10.72	343.73
90.00	15 43 22	777.05	22.24	316.83	89.30	107.99	15 56 19	177.1	24.50	308.88
100.00	13 43 34	1171.64	4.09	337.03	81.12	119.64	14 3 5	571.6	8.00	330.43
100.00	17 36 4	5701.78	25.52	269.10	90.40	106.12	19 11 5	5101.8	27.48	260.85
110.00	13 59 11	1122.58	-1.67	329.73	77.53	124.15	14 17 54	522.6	2.82	323.53
110.00	19 36 55	5323.61	32.09	242.29	92.31	102.46	21 5 39	4723.6	33.47	233.33

DIFFERENTIAL CORRECTIONS
TDE-3.2538 TRA 4.9398 TC3-1.8311 BAU .9442
RDE .4481 RRA .0489 RC3 -.0483 FAU .01212
FDE-1.1577 FRA 1.9699 FC3 -.2720 BSP 20589
BDE 3.2846 BRA 4.9400 BC3 1.8317 FSP -687

MID-COURSE EXECUTION ACCURACY
SGT 6340.3 SGR 420.9 SG3 200.6
RRT -.3177 RRF -.3262 RTF .9746
SGB 6354.2 R23 .0162 R13 -.9747
SG1 6341.7 SG2 399.0 THA 178.79

ORBIT DETERMINATION ACCURACY
ST 3370.5 SR 413.8 SS 1004.3
CRT -.8735 CRS .8495 CST -.9988
LSA 3535.2 MSA 206.8 SSA 13.2
EL1 3389.9 EL2 200.3 ALF 173.86

LAUNCH DATE JUN 5 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 7 1968

DISTANCE 607.143

HELIOCENTRIC CONIC
RL 151.78 LAL -.00 LOL 253.67 VL 26.081 GAL 11.72 AZL 93.45 HCA 291.59 SMA 124.20 ECC .29758 INC 3.4540 V1 29.353
RP 107.78 LAP 3.21 LOP 185.29 VP 37.340 GAP 15.60 AZP 91.27 TAL 148.67 TAP 80.25 RCA 87.24 APO 161.16 V2 35.162
RC 165.860 GL -13.59 GP -.63 ZAL 39.41 ZAP 175.30 ETS 350.94 ZAE 123.92 ETE 180.85 ZAC 76.09 ETC 13.47 CLP-175.34

PLANETOCENTRIC CONIC
C3 42.874 VHL 6.548 DLA -26.40 RAL 209.03 RAD 6568.6 VEL 12.816 PTH 2.33 VHP 9.883 DPA -1.66 RAP 190.11 ECC 1.7056

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 53 35	1381.61	5.56	353.27	85.71	117.81	13 16 36	781.6	9.24	346.53
90.00	15 56 21	782.13	22.14	317.16	92.91	108.12	16 9 23	182.1	24.41	309.23
100.00	13 45 26	1214.12	2.65	339.37	84.10	119.79	14 5 41	614.1	6.60	332.80
100.00	17 47 10	5712.89	25.31	269.86	93.98	106.46	19 22 23	5112.9	27.32	261.63
110.00	14 2 50	1159.54	-3.09	331.67	80.53	124.06	14 22 9	559.5	1.41	325.46
110.00	19 46 16	5340.23	31.84	243.52	95.95	103.14	21 15 16	4740.2	33.32	234.61

DIFFERENTIAL CORRECTIONS
TDE-3.3387 TRA 5.3414 TC3-1.6124 BAU .9245
RDE .4742 RRA .0328 RC3 -.0396 FAU .01010
FDE-1.1239 FRA 2.0040 FC3 -.2039 BSP 20577
BDE 3.3722 BRA 5.3415 BC3 1.6129 FSP -650

MID-COURSE EXECUTION ACCURACY
SGT 6342.0 SGR 419.4 SG3 190.7
RRT -.3517 RRF -.3581 RTF .9754
SGB 6355.9 R23 .0147 R13 -.9754
SG1 6343.7 SG2 392.5 THA 178.66

ORBIT DETERMINATION ACCURACY
ST 3315.1 SR 415.1 SS 978.1
CRT -.8700 CRS .8464 CST -.9988
LSA 3474.9 MSA 209.4 SSA 12.8
EL1 3334.8 EL2 203.4 ALF 173.76

LAUNCH DATE JUN 5 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 9 1968

DISTANCE 611.986

HELIOCENTRIC CONIC
RL 151.78 LAL -.00 LOL 253.67 VL 26.050 GAL 12.61 AZL 93.46 HCA 294.82 SMA 124.02 ECC .30888 INC 3.4647 V1 29.353
RP 107.81 LAP 3.14 LOP 188.52 VP 37.308 GAP 16.40 AZP 91.46 TAL 147.63 TAP 82.45 RCA 85.71 APO 162.32 V2 35.151
RC 167.829 GL -12.83 GP -.62 ZAL 38.05 ZAP 176.40 ETS 348.70 ZAE 123.62 ETE 180.80 ZAC 74.05 ETC 13.52 CLP-176.45

PLANETOCENTRIC CONIC
C3 47.857 VHL 6.918 DLA -26.11 RAL 210.57 RAD 6568.8 VEL 13.008 PTH 2.37 VHP 10.352 DPA -2.52 RAP 192.04 ECC 1.7876

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 53 11	1431.28	3.98	356.06	88.60	118.06	13 17 2	831.3	7.70	349.36
90.00	16 9 3	787.71	22.02	317.53	96.48	108.27	16 22 11	187.7	24.31	309.61
100.00	13 46 47	1258.18	1.16	341.79	87.04	119.87	14 7 45	658.2	5.13	335.25
100.00	17 58 8	5724.07	25.09	270.62	97.54	106.81	19 33 32	5124.1	27.15	262.42
110.00	14 5 56	1198.06	-4.55	333.68	83.49	123.92	14 25 54	598.1	-.07	327.47
110.00	19 55 28	5356.96	31.58	244.75	99.56	103.83	21 24 45	4757.0	33.15	235.88

DIFFERENTIAL CORRECTIONS
TDE-3.4335 TRA 5.7667 TC3-1.4090 BAU .9017
RDE .5009 RRA .0146 RC3 -.0321 FAU .00823
FDE-1.0961 FRA 2.0398 FC3 -.1489 BSP 20653
BDE 3.4698 BRA 5.7667 BC3 1.4093 FSP -620

MID-COURSE EXECUTION ACCURACY
SGT 6338.6 SGR 417.4 SG3 181.4
RRT -.3861 RRF -.3905 RTF .9763
SGB 6352.4 R23 .0131 R13 -.9763
SG1 6340.7 SG2 384.9 THA 178.54

ORBIT DETERMINATION ACCURACY
ST 3261.3 SR 414.9 SS 956.2
CRT -.8671 CRS .8440 CST -.9989
LSA 3417.3 MSA 210.8 SSA 12.4
EL1 3281.2 EL2 205.4 ALF 173.68

LAUNCH DATE JUN 5 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 11 1968

DISTANCE 616.646

HELIOCENTRIC CONIC
RL 151.78 LAL -.00 LOL 253.67 VL 26.019 GAL 13.57 AZL 93.48 HCA 298.04 SMA 123.83 ECC .32128 INC 3.4760 V1 29.353
RP 107.84 LAP 3.07 LOP 191.75 VP 37.276 GAP 17.26 AZP 91.64 TAL 146.65 TAP 84.69 RCA 84.05 APO 163.62 V2 35.139
RC 169.783 GL -12.09 GP -.60 ZAL 36.76 ZAP 177.50 ETS 344.52 ZAE 123.31 ETE 180.75 ZAC 72.01 ETC 13.59 CLP-177.58

PLANETOCENTRIC CONIC
C3 53.633 VHL 7.323 DLA -25.80 RAL 212.02 RAD 6568.9 VEL 13.229 PTH 2.42 VHP 10.862 DPA -3.37 RAP 193.97 ECC 1.8827

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 52 24	1481.91	2.35	358.90	91.45	118.23	13 17 6	881.9	6.11	352.23
90.00	16 21 26	793.80	21.89	317.93	100.01	108.43	16 34 40	193.8	24.20	310.02
100.00	13 47 37	1303.62	-.38	344.28	89.93	119.89	14 9 20	703.6	3.60	337.76
100.00	18 8 54	5735.36	24.86	271.38	101.05	107.15	19 44 30	5135.4	26.98	263.22
110.00	14 8 32	1237.97	-6.06	335.78	86.41	123.71	14 29 10	638.0	-1.59	329.55
110.00	20 4 29	5373.77	31.30	245.98	103.12	104.51	21 34 2	4773.8	32.97	237.16

DIFFERENTIAL CORRECTIONS
TDE-3.5354 TRA 6.2233 TC3-1.2165 BAU .8724
RDE .5279 RRA -.0061 RC3 -.0259 FAU .00640
FDE-1.0722 FRA 2.0800 FC3 -.1033 BSP 20708
BDE 3.5746 BRA 6.2233 BC3 1.2167 FSP -591

MID-COURSE EXECUTION ACCURACY
SGT 6330.2 SGR 414.8 SG3 172.7
RRT -.4204 RRF -.4227 RTF .9774
SGB 6343.8 R23 .0114 R13 -.9774
SG1 6332.6 SG2 376.2 THA 178.42

ORBIT DETERMINATION ACCURACY
ST 3207.1 SR 413.0 SS 937.5
CRT -.8644 CRS .8419 CST -.9990
LSA 3360.1 MSA 211.3 SSA 12.0
EL1 3227.0 EL2 206.4 ALF 173.62

LAUNCH DATE JUN 6 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 15 1967

HELIOCENTRIC CONIC DISTANCE 151.382

RL 151.81 LAL -.00 LOL 254.62 VL 20.910 GAL 5.41 AZL 93.33 HCA 57.68 SMA 101.21 ECC .50654 INC 3.3264 VI 29.349
RP 108.94 LAP -2.81 LOP 312.26 VP 33.543 GAP -30.15 AZP 91.78 TAL 174.68 TAP 232.36 RCA 49.94 APO 152.48 V2 34.784
RC 47.750 GL -7.87 GP .20 ZAL 78.62 ZAP 18.94 ETS 181.48 ZAE 164.55 ETE 140.16 ZAC 113.31 ETC 16.50 CLP 18.94

PLANETOCENTRIC CONIC

C3 77.877 VHL 8.825 DLA -5.67 RAL 173.30 RAD 6569.5 VEL 14.115 PTH 2.57 VHP 17.804 DPA 14.29 RAP 154.53 ECC 2.2817

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 41 53	2372.63	-23.06	51.75	56.13	106.90	7 21 26	1772.6	-20.53	43.99
90.00	17 15 9	5370.03	27.82	245.40	61.05	84.52	18 44 39	4770.0	26.77	236.89
100.00	8 0 33	2118.88	-24.49	32.61	55.65	107.71	8 35 52	1518.9	-21.83	24.81
100.00	18 39 11	5099.01	29.31	225.29	60.88	83.82	20 4 10	4499.0	28.14	216.68
110.00	9 2 39	1924.46	-28.31	16.39	54.19	110.01	9 34 43	1324.5	-25.32	8.49
110.00	19 53 34	4866.20	33.31	207.03	60.29	81.86	21 14 41	4266.2	31.83	198.11

DIFFERENTIAL CORRECTIONS
TOE .4824 TRA-1.1145 TC3 -.0566 BAU .0778
RDE -.6009 RRA -.2905 RC3 .0488 FAU .01644
FDE -.3170 FRA .4589 FC3 -.1827 BSP 2132
BDE .7706 BRA 1.1518 BC3 .0747 FSP -89

MID-COURSE EXECUTION ACCURACY
SGT 798.0 SGR 442.2 SG3 42.0
RRT .0200 RRF -.0196 RTF -.6447
SGB 912.4 R23 -.0011 R13 -.6447
SG1 798.1 SG2 442.1 THA .92

ORBIT DETERMINATION ACCURACY
ST 381.7 SR 394.3 SS 345.8
CRT -.7296 CRS -.8482 CST .9794
LSA 613.9 MSA 208.8 SSA 14.2
EL1 510.4 EL2 201.7 ALF 133.73

LAUNCH DATE JUN 6 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 17 1967

HELIOCENTRIC CONIC DISTANCE 157.751

RL 151.81 LAL -.00 LOL 254.62 VL 21.419 GAL 5.16 AZL 93.33 HCA 60.84 SMA 102.90 ECC .48176 INC 3.3342 VI 29.349
RP 108.94 LAP -2.91 LOP 315.42 VP 33.864 GAP -28.62 AZP 91.63 TAL 174.40 TAP 235.24 RCA 53.33 APO 152.48 V2 34.785
RC 46.594 GL -8.58 GP .21 ZAL 78.25 ZAP 17.34 ETS 181.47 ZAE 165.82 ETE 133.24 ZAC 111.80 ETC 16.23 CLP 17.34

PLANETOCENTRIC CONIC

C3 69.236 VHL 8.321 DLA -6.48 RAL 173.38 RAD 6569.3 VEL 13.805 PTH 2.52 VHP 16.974 DPA 13.76 RAP 156.04 ECC 2.1395

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 48 21	2319.66	-21.97	48.25	54.03	108.33	7 27 1	1719.7	-19.26	40.62
90.00	17 9 18	5367.99	27.81	245.25	59.43	84.44	18 38 46	4768.0	26.75	236.74
100.00	8 6 36	2067.20	-23.37	29.17	53.52	109.19	8 41 4	1467.2	-20.54	21.52
100.00	18 33 44	5095.69	29.28	225.05	59.26	83.70	19 58 40	4495.7	28.10	216.44
110.00	9 7 48	1875.62	-27.13	13.09	51.97	111.64	9 39 3	1275.6	-23.94	5.37
110.00	19 49 2	4860.03	33.25	206.56	58.66	81.59	21 10 2	4260.0	31.73	197.66

DIFFERENTIAL CORRECTIONS
TOE .4804 TRA-1.1001 TC3 -.0497 BAU .0691
RDE -.5698 RRA -.2749 RC3 .0557 FAU .01698
FDE -.3338 FRA .4703 FC3 -.2123 BSP 2226
BDE .7453 BRA 1.1340 BC3 .0747 FSP -100

MID-COURSE EXECUTION ACCURACY
SGT 835.2 SGR 445.9 SG3 46.0
RRT .0209 RRF -.0196 RTF -.6636
SGB 946.8 R23 -.0002 R13 -.6636
SG1 835.3 SG2 445.8 THA .90

ORBIT DETERMINATION ACCURACY
ST 402.2 SR 396.5 SS 366.6
CRT -.7319 CRS -.8531 CST .9784
LSA 638.8 MSA 212.3 SSA 14.4
EL1 525.6 EL2 206.7 ALF 135.55

LAUNCH DATE JUN 6 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 19 1967

HELIOCENTRIC CONIC DISTANCE 164.173

RL 151.81 LAL -.00 LOL 254.62 VL 21.892 GAL 4.89 AZL 93.34 HCA 64.00 SMA 104.56 ECC .45815 INC 3.3416 VI 29.349
RP 108.94 LAP -3.00 LOP 318.59 VP 34.166 GAP -27.17 AZP 91.47 TAL 174.17 TAP 238.17 RCA 56.66 APO 152.47 V2 34.786
RC 45.578 GL -9.32 GP .22 ZAL 77.99 ZAP 15.75 ETS 181.49 ZAE 166.96 ETE 124.62 ZAC 110.29 ETC 15.98 CLP 15.75

PLANETOCENTRIC CONIC

C3 61.629 VHL 7.850 DLA -7.28 RAL 173.34 RAD 6569.1 VEL 13.527 PTH 2.47 VHP 16.178 DPA 13.21 RAP 157.55 ECC 2.0143

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 54 22	2266.39	-20.79	44.79	51.86	109.67	7 32 8	1666.4	-17.92	37.29
90.00	17 3 1	5365.45	27.79	245.06	57.66	84.35	18 32 27	4765.4	26.72	236.56
100.00	8 12 13	2015.23	-22.17	25.78	51.31	110.58	8 45 48	1415.2	-19.17	18.27
100.00	18 27 51	5091.84	29.25	224.77	57.48	83.55	19 52 43	4491.8	28.05	216.17
110.00	9 12 30	1826.51	-25.85	9.84	49.70	113.19	9 42 56	1226.5	-22.49	2.30
110.00	19 44 4	4853.33	33.19	206.04	56.87	81.29	21 4 57	4253.3	31.63	197.16

DIFFERENTIAL CORRECTIONS
TOE .4811 TRA-1.0823 TC3 -.0386 BAU .0612
RDE -.5396 RRA -.2595 RC3 .0634 FAU .01759
FDE -.3520 FRA .4809 FC3 -.2470 BSP 2377
BDE .7229 BRA 1.1130 BC3 .0742 FSP -112

MID-COURSE EXECUTION ACCURACY
SGT 872.4 SGR 448.8 SG3 50.5
RRT .0198 RRF -.0191 RTF -.6833
SGB 981.1 R23 -.0007 R13 -.6834
SG1 872.5 SG2 448.7 THA .79

ORBIT DETERMINATION ACCURACY
ST 424.7 SR 398.0 SS 388.8
CRT -.7372 CRS -.8585 CST .9779
LSA 666.1 MSA 214.6 SSA 14.7
EL1 542.6 EL2 210.5 ALF 137.52

LAUNCH DATE JUN 6 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 21 1967

HELIOCENTRIC CONIC DISTANCE 170.645

RL 151.81 LAL -.00 LOL 254.62 VL 22.330 GAL 4.61 AZL 93.35 HCA 67.16 SMA 106.19 ECC .43570 INC 3.3485 VI 29.349
RP 108.93 LAP -3.09 LOP 321.75 VP 34.451 GAP -25.79 AZP 91.30 TAL 173.98 TAP 241.15 RCA 59.92 APO 152.45 V2 34.788
RC 44.711 GL -10.10 GP .23 ZAL 77.83 ZAP 14.16 ETS 181.53 ZAE 167.84 ETE 114.09 ZAC 108.77 ETC 15.74 CLP 14.16

PLANETOCENTRIC CONIC

C3 54.932 VHL 7.412 DLA -8.07 RAL 173.20 RAD 6569.0 VEL 13.277 PTH 2.43 VHP 15.413 DPA 12.65 RAP 159.06 ECC 1.9040

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 59 55	2212.99	-19.53	41.38	49.62	110.92	7 36 48	1613.0	-16.51	34.01
90.00	16 56 17	5362.57	27.77	244.86	55.75	84.25	18 25 39	4762.6	26.69	236.36
100.00	8 17 22	1963.14	-20.88	22.44	49.05	111.89	8 50 5	1363.1	-17.73	15.07
100.00	18 21 31	5087.65	29.22	224.46	55.57	83.39	19 46 19	4487.7	28.00	215.87
110.00	9 16 43	1777.30	-24.49	6.66	47.37	114.63	9 46 21	1177.3	-20.96	359.29
110.00	19 38 39	4846.26	33.11	205.51	54.95	80.98	20 59 25	4246.3	31.51	196.65

DIFFERENTIAL CORRECTIONS
TOE .4823 TRA-1.0639 TC3 -.0240 BAU .0557
RDE -.5103 RRA -.2445 RC3 .0719 FAU .01826
FDE -.3716 FRA .4911 FC3 -.2877 BSP 2527
BDE .7021 BRA 1.0916 BC3 .0758 FSP -125

MID-COURSE EXECUTION ACCURACY
SGT 911.2 SGR 451.0 SG3 55.4
RRT .0187 RRF -.0184 RTF -.7022
SGB 1016.7 R23 -.0010 R13 -.7022
SG1 911.2 SG2 450.9 THA .70

ORBIT DETERMINATION ACCURACY
ST 448.4 SR 398.6 SS 412.4
CRT -.7429 CRS -.8642 CST .9774
LSA 695.1 MSA 216.1 SSA 15.0
EL1 560.8 EL2 213.4 ALF 139.51

LAUNCH DATE JUN 6 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 23 1967

HELIOCENTRIC CONIC DISTANCE 177.162

RL 151.81 LAL -.00 LOL 254.62 VL 22.737 GAL 4.32 AZL 93.36 HCA 70.33 SMA 107.77 ECC .41441 INC 3.3552 V1 29.349
RP 108.92 LAP -3.16 LOP 324.92 VP 34.718 GAP -24.48 AZP 91.13 TAL 173.85 TAP 244.17 RCA 63.11 APO 152.42 V2 34.791
RC 44.000 GL -10.92 GP .24 ZAL 77.79 ZAP 12.56 ETS 181.60 ZAE 168.32 ETE 101.85 ZAC 107.25 ETC 15.51 CLP 12.56

PLANETOCENTRIC CONIC

C3 49.036 VHL 7.003 DLA -8.85 RAL 172.93 RAD 6568.8 VEL 13.054 PTH 2.38 VHP 14.678 DPA 12.09 RAP 160.56 ECC 1.8070

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 5 1	2159.64	-18.20	38.03	47.32	112.08	7 41 1	1559.6	-15.05	30.78
90.00	16 49 5	5359.55	27.75	244.64	53.71	84.14	18 18 24	4759.5	26.65	236.14
100.00	8 22 3	1911.13	-19.53	19.18	46.74	113.09	8 53 54	1311.1	-16.23	11.93
100.00	18 14 44	5083.29	29.18	224.14	53.53	83.23	19 39 27	4483.3	27.94	215.56
110.00	9 20 28	1728.19	-23.06	3.56	45.01	115.96	9 49 17	1128.2	-19.38	356.36
110.00	19 32 48	4839.00	33.03	204.95	52.90	80.66	20 53 27	4239.0	31.39	196.11

DIFFERENTIAL CORRECTIONS
TDE .4842 TRA-1.0440 TC3 -.0049 BAU .0533
RDE -.4819 RRA -.2297 RC3 .0812 FAU .01901
FDE -.3928 FRA .5008 FC3 -.3357 BSP 2684
BDE .6831 BRA 1.0690 BC3 .0813 FSP -140

MID-COURSE EXECUTION ACCURACY
SGT 951.0 SGR 452.3 SG3 60.9
RRT .0174 RRF -.0175 RTF -.7203
SGB 1053.1 R23 -.0014 R13 -.7204
SG1 951.0 SG2 452.2 THA .61

ORBIT DETERMINATION ACCURACY
ST 473.5 SR 398.4 SS 437.4
CRT -.7495 CRS -.8701 CST .9771
LSA 726.0 MSA 216.8 SSA 15.2
EL1 580.2 EL2 215.2 ALF 141.52

LAUNCH DATE JUN 6 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 25 1967

HELIOCENTRIC CONIC DISTANCE 183.719

RL 151.81 LAL -.00 LOL 254.62 VL 23.114 GAL 4.03 AZL 93.36 HCA 73.49 SMA 109.30 ECC .39427 INC 3.3616 V1 29.349
RP 108.91 LAP -3.22 LOP 328.09 VP 34.970 GAP -23.22 AZP 90.96 TAL 173.76 TAP 247.25 RCA 66.21 APO 152.39 V2 34.795
RC 43.455 GL -11.78 GP .25 ZAL 77.87 ZAP 10.97 ETS 181.73 ZAE 168.28 ETE 88.73 ZAC 105.74 ETC 15.30 CLP 10.96

PLANETOCENTRIC CONIC

C3 43.848 VHL 6.622 DLA -9.62 RAL 172.55 RAD 6568.7 VEL 12.854 PTH 2.34 VHP 13.973 DPA 11.52 RAP 162.05 ECC 1.7216

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 9 38	2106.55	-16.81	34.76	44.98	113.13	7 44 45	1506.6	-13.53	27.61
90.00	16 41 24	5356.54	27.73	244.42	51.56	84.03	18 10 41	4756.5	26.62	235.93
100.00	8 26 15	1859.39	-18.11	15.98	44.38	114.19	8 57 14	1259.4	-14.70	8.86
100.00	18 7 29	5078.93	-29.15	223.82	51.38	83.06	19 32 7	4478.9	27.88	215.25
110.00	9 23 44	1679.38	-21.58	.55	42.61	117.18	9 51 43	1079.4	-17.76	353.50
110.00	19 26 29	4831.71	32.95	204.40	50.73	80.34	20 47 0	4231.7	31.27	195.58

DIFFERENTIAL CORRECTIONS
TDE .4867 TRA-1.0230 TC3 .0190 BAU .0546
RDE -.4546 RRA -.2154 RC3 .0912 FAU .01985
FDE -.4158 FRA .5098 FC3 -.3919 BSP 2842
BDE .6659 BRA 1.0454 BC3 .0932 FSP -156

MID-COURSE EXECUTION ACCURACY
SGT 991.9 SGR 452.8 SG3 66.9
RRT .0160 RRF -.0166 RTF -.7376
SGB 1090.4 R23 -.0017 R13 -.7376
SG1 992.0 SG2 452.8 THA .53

ORBIT DETERMINATION ACCURACY
ST 499.8 SR 397.4 SS 463.9
CRT -.7568 CRS -.8763 CST .9769
LSA 758.8 MSA 216.8 SSA 15.5
EL1 600.9 EL2 216.1 ALF 143.50

LAUNCH DATE JUN 6 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 27 1967

HELIOCENTRIC CONIC DISTANCE 190.310

RL 151.81 LAL -.00 LOL 254.62 VL 23.462 GAL 3.74 AZL 93.37 HCA 76.65 SMA 110.78 ECC .37525 INC 3.3677 V1 29.349
RP 108.90 LAP -3.28 LOP 331.26 VP 35.205 GAP -22.02 AZP 90.78 TAL 173.73 TAP 250.39 RCA 69.21 APO 152.35 V2 34.799
RC 43.079 GL -12.68 GP .26 ZAL 78.05 ZAP 9.36 ETS 181.95 ZAE 167.68 ETE 75.97 ZAC 104.23 ETC 15.10 CLP 9.36

PLANETOCENTRIC CONIC

C3 39.284 VHL 6.268 DLA -10.38 RAL 172.05 RAD 6568.5 VEL 12.675 PTH 2.30 VHP 13.294 DPA 10.95 RAP 163.52 ECC 1.6465

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 13 46	2053.93	-15.37	31.56	42.60	114.08	7 48 0	1453.9	-11.99	24.51
90.00	16 33 16	5353.71	27.71	244.21	49.30	83.93	18 2 29	4753.7	26.58	235.73
100.00	8 29 57	1808.14	-16.66	12.88	41.99	115.19	9 0 5	1208.1	-13.13	5.86
100.00	17 59 45	5074.74	29.11	223.51	49.12	82.90	19 24 20	4474.7	27.83	214.95
110.00	9 26 29	1631.09	-20.05	357.64	40.19	118.28	9 53 41	1031.1	-16.11	350.73
110.00	19 19 42	4824.55	32.87	203.86	48.46	80.03	20 40 7	4224.6	31.14	195.06

DIFFERENTIAL CORRECTIONS
TDE .4903 TRA-1.0004 TC3 .0488 BAU .0594
RDE -.4283 RRA -.2016 RC3 .1021 FAU .02079
FDE -.4411 FRA .5182 FC3 -.4581 BSP 3015
BDE .6510 BRA 1.0205 BC3 .1132 FSP -175

MID-COURSE EXECUTION ACCURACY
SGT 1033.9 SGR 452.5 SG3 73.5
RRT .0140 RRF -.0152 RTF -.7542
SGB 1128.6 R23 -.0022 R13 -.7542
SG1 1034.0 SG2 452.4 THA .43

ORBIT DETERMINATION ACCURACY
ST 527.9 SR 395.5 SS 492.4
CRT -.7653 CRS -.8828 CST .9768
LSA 794.2 MSA 215.8 SSA 15.8
EL1 623.4 EL2 215.6 ALF 145.47

LAUNCH DATE JUN 6 1967 FLIGHT TIME 84.00 ARRIVAL DATE AUG 29 1967

HELIOCENTRIC CONIC DISTANCE 196.931

RL 151.81 LAL -.00 LOL 254.62 VL 23.785 GAL 3.45 AZL 93.37 HCA 79.82 SMA 112.21 ECC .35734 INC 3.3738 V1 29.349
RP 108.88 LAP -3.32 LOP 334.42 VP 35.426 GAP -20.87 AZP 90.60 TAL 173.76 TAP 253.58 RCA 72.11 APO 152.31 V2 34.804
RC 42.876 GL -13.61 GP .28 ZAL 78.36 ZAP 7.74 ETS 182.31 ZAE 166.58 ETE 64.65 ZAC 102.73 ETC 14.91 CLP 7.74

PLANETOCENTRIC CONIC

C3 35.273 VHL 5.939 DLA -11.13 RAL 171.42 RAD 6568.4 VEL 12.516 PTH 2.27 VHP 12.642 DPA 10.38 RAP 164.98 ECC 1.5805

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 17 24	2002.01	-13.91	28.45	40.19	114.92	7 50 46	1402.0	-10.43	21.50
90.00	16 24 39	5351.21	27.69	244.03	46.95	83.84	17 53 50	4751.2	26.55	235.55
100.00	8 33 9	1757.61	-15.17	9.86	39.57	116.07	9 2 27	1157.6	-11.54	2.95
100.00	17 51 35	5070.84	29.08	223.23	46.77	82.76	19 16 6	4470.8	27.77	214.67
110.00	9 28 44	1583.54	-18.49	354.84	37.75	119.28	9 55 8	983.5	-14.45	348.05
110.00	19 12 29	4817.68	32.79	203.34	46.10	79.74	20 32 47	4217.7	31.02	194.56

DIFFERENTIAL CORRECTIONS
TDE .4941 TRA -.9768 TC3 .0846 BAU .0668
RDE -.4031 RRA -.1883 RC3 .1137 FAU .02182
FDE -.4686 FRA .5261 FC3 -.5355 BSP 3175
BDE .6377 BRA .9948 BC3 .1417 FSP -195

MID-COURSE EXECUTION ACCURACY
SGT 1076.9 SGR 451.3 SG3 80.9
RRT .0123 RRF -.0139 RTF -.7698
SGB 1167.7 R23 -.0024 R13 -.7699
SG1 1076.9 SG2 451.3 THA .36

ORBIT DETERMINATION ACCURACY
ST 557.0 SR 392.8 SS 522.3
CRT -.7740 CRS -.8893 CST .9768
LSA 831.6 MSA 214.1 SSA 16.0
EL1 647.1 EL2 214.1 ALF 147.36

LAUNCH DATE JUN 6 1967 FLIGHT TIME 86.00 ARRIVAL DATE AUG 31 1967

HELIOCENTRIC CONIC DISTANCE 203.578

```
RL  151.81 LAL   -.00 LOL 254.62 VL  24.084 GAL   3.16 AZL  93.38 HCA  82.98 SMA 113.58 ECC .34050 INC 3.3797 V1  29.349
RP  108.87 LAP  -3.35 LOP 337.60 VP  35.633 GAP -19.77 AZP  90.41 TAL 173.84 TAP 256.82 RCA  74.91 APO 152.26 V2  34.809
RC  42.849 GL  -14.57 GP     .30 ZAL  78.78 ZAP   6.11 ETS 182.92 ZAE 165.10 ETE  55.21 ZAC 101.25 ETC  14.73 CLP   6.10
```

PLANETOCENTRIC CONIC

```
C3  31.752 VHL  5.635 DLA -11.86 RAL 170.68 RAD 6568.3 VEL 12.374 PTH   2.23 VHP 12.015 DPA   9.81 RAP 166.42 ECC 1.5226
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 20 31	1951.02	-12.43	25.44	37.75	115.65	7 53 2	1351.0	-8.87	18.56
90.00	16 15 35	5349.15	27.68	243.89	44.52	83.77	17 44 44	4749.2	26.53	235.41
100.00	8 35 50	1708.03	-13.66	6.95	37.12	116.85	9 4 18	1108.0	-9.95	.12
100.00	17 42 57	5067.38	29.05	222.97	44.34	82.63	19 7 25	4467.4	27.73	214.42
110.00	9 30 27	1536.97	-16.92	352.14	35.29	120.16	9 56 4	937.0	-12.78	345.47
110.00	19 4 49	4811.20	32.71	202.85	43.66	79.46	20 25 1	4211.2	30.91	194.09

DIFFERENTIAL CORRECTIONS

```
TDE  .4989 TRA -.9519 TC3  .1272 BAU  .0760
RDE -.3789 RRA -.1754 RC3  .1261 FAU .02299
FDE -.4992 FRA  .5331 FC3 -.6267 BSP   3337
BDE  .6265 BRA  .9679 BC3  .1791 FSP   -219
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1120.8 SGR  449.3 SG3   89.1
RRT  .0102 RRF -.0123 RTF -.7845
SGB 1207.5 R23 -.0028 R13 -.7845
SG1 1120.8 SG2  449.3 THA    .28
```

ORBIT DETERMINATION ACCURACY

```
ST   587.7 SR   389.2 SS   554.9
CRT -.7836 CRS -.8960 CST  .9769
LSA  871.6 MSA  211.6 SSA   16.3
EL1  672.5 EL2  211.3 ALF 149.21
```

LAUNCH DATE JUN 6 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 2 1967

HELIOCENTRIC CONIC DISTANCE 210.247

```
RL  151.81 LAL   -.00 LOL 254.62 VL  24.360 GAL   2.88 AZL  93.39 HCA  86.15 SMA 114.90 ECC .32473 INC 3.3855 V1  29.349
RP  108.85 LAP  -3.38 LOP 340.77 VP  35.826 GAP -18.72 AZP  90.23 TAL 173.97 TAP 260.12 RCA  77.59 APO 152.21 V2  34.815
RC  42.995 GL  -15.57 GP     .31 ZAL  79.31 ZAP   4.45 ETS 184.09 ZAE 163.35 ETE  47.59 ZAC  99.79 ETC  14.57 CLP   4.44
```

PLANETOCENTRIC CONIC

```
C3  28.663 VHL  5.354 DLA -12.57 RAL 169.81 RAD 6568.2 VEL 12.249 PTH   2.20 VHP 11.412 DPA   9.24 RAP 167.84 ECC 1.4717
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 23 7	1901.20	-10.94	22.54	35.28	116.28	7 54 48	1301.2	-7.32	15.73
90.00	16 6 6	5347.65	27.67	243.78	42.03	83.72	17 35 14	4747.6	26.51	235.30
100.00	8 37 59	1659.64	-12.16	4.14	34.65	117.52	9 5 39	1059.6	-8.38	357.40
100.00	17 33 55	5064.44	29.03	222.76	41.84	82.52	18 58 19	4464.4	27.69	214.21
110.00	9 31 39	1491.60	-15.35	349.56	32.82	120.93	9 56 30	891.6	-11.13	342.99
110.00	18 56 45	4805.24	32.63	202.40	41.17	79.20	20 16 50	4205.2	30.80	193.66

DIFFERENTIAL CORRECTIONS

```
TDE  .5023 TRA -.9280 TC3  .1745 BAU  .0855
RDE -.3560 RRA -.1631 RC3  .1390 FAU .02426
FDE -.5323 FRA  .5400 FC3 -.7328 BSP   3457
BDE  .6156 BRA  .9422 BC3  .2231 FSP   -244
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1165.9 SGR  446.4 SG3   98.2
RRT  .0097 RRF -.0111 RTF -.7967
SGB 1248.4 R23 -.0021 R13 -.7967
SG1 1165.9 SG2  446.4 THA    .25
```

ORBIT DETERMINATION ACCURACY

```
ST   618.2 SR   384.7 SS   588.9
CRT -.7920 CRS -.9026 CST  .9767
LSA  912.7 MSA  209.2 SSA   16.6
EL1  697.8 EL2  208.1 ALF 150.93
```

LAUNCH DATE JUN 6 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 4 1967

HELIOCENTRIC CONIC DISTANCE 216.933

```
RL  151.81 LAL   -.00 LOL 254.62 VL  24.615 GAL   2.61 AZL  93.39 HCA  89.32 SMA 116.15 ECC .30997 INC 3.3913 V1  29.349
RP  108.83 LAP  -3.39 LOP 343.94 VP  36.007 GAP -17.70 AZP  90.04 TAL 174.16 TAP 263.48 RCA  80.15 APO 152.16 V2  34.822
RC  43.312 GL  -16.59 GP     .33 ZAL  79.95 ZAP   2.77 ETS 186.86 ZAE 161.47 ETE  41.51 ZAC  98.35 ETC  14.41 CLP   2.75
```

PLANETOCENTRIC CONIC

```
C3  25.957 VHL  5.095 DLA -13.27 RAL 168.83 RAD 6568.0 VEL 12.138 PTH   2.18 VHP 10.833 DPA   8.68 RAP 169.23 ECC 1.4272
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 25 11	1852.80	-9.47	19.74	32.81	116.81	7 56 4	1252.8	-5.79	12.99
90.00	15 56 13	5346.73	27.66	243.71	39.48	83.69	17 25 20	4746.7	26.50	235.24
100.00	8 39 37	1612.68	-10.67	1.46	32.17	118.09	9 6 29	1012.7	-6.83	354.77
100.00	17 24 28	5062.09	29.00	222.59	39.29	82.43	18 48 51	4462.1	27.65	214.05
110.00	9 32 18	1447.67	-13.79	347.10	30.34	121.59	9 56 25	847.7	-9.52	340.62
110.00	18 48 17	4799.86	32.56	202.00	38.62	78.97	20 8 17	4199.9	30.70	193.27

DIFFERENTIAL CORRECTIONS

```
TDE  .5107 TRA -.8983 TC3  .2356 BAU  .0974
RDE -.3341 RRA -.1514 RC3  .1523 FAU .02574
FDE -.5704 FRA  .5450 FC3 -.8586 BSP   3666
BDE  .6103 BRA  .9110 BC3  .2805 FSP   -273
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1210.3 SGR  442.6 SG3  108.4
RRT  .0056 RRF -.0089 RTF -.8115
SGB 1288.7 R23 -.0036 R13 -.8115
SG1 1210.3 SG2  442.6 THA    .14
```

ORBIT DETERMINATION ACCURACY

```
ST   653.4 SR   379.4 SS   626.-
CRT -.8045 CRS -.9097 CST  .9776
LSA  959.7 MSA  204.7 SSA   16.8
EL1  728.0 EL2  202.3 ALF 152.67
```

LAUNCH DATE JUN 6 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 6 1967

HELIOCENTRIC CONIC DISTANCE 223.632

```
RL  151.81 LAL   -.00 LOL 254.62 VL  24.851 GAL   2.35 AZL  93.40 HCA  92.48 SMA 117.35 ECC .29621 INC 3.3970 V1  29.349
RP  108.80 LAP  -3.39 LOP 347.11 VP  36.175 GAP -16.73 AZP  89.85 TAL 174.40 TAP 266.89 RCA  82.59 APO 152.11 V2  34.830
RC  43.796 GL  -17.63 GP     .35 ZAL  80.70 ZAP   1.10 ETS 198.77 ZAE 159.53 ETE  36.64 ZAC  96.94 ETC  14.27 CLP   1.04
```

PLANETOCENTRIC CONIC

```
C3  23.590 VHL  4.857 DLA -13.94 RAL 167.74 RAD 6568.0 VEL 12.040 PTH   2.15 VHP 10.276 DPA   8.13 RAP 170.58 ECC 1.3882
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 26 43	1806.04	-8.02	17.07	30.32	117.25	7 56 49	1206.0	-4.30	10.36
90.00	15 45 59	5346.46	27.66	243.69	36.90	83.68	17 15 5	4746.5	26.49	235.22
100.00	8 40 42	1567.37	-9.20	358.89	29.69	118.57	9 6 49	967.4	-5.32	352.26
100.00	17 14 42	5060.36	28.99	222.46	36.71	82.37	18 39 2	4460.4	27.63	213.92
110.00	9 32 24	1405.39	-12.27	344.77	27.86	122.16	9 55 50	805.4	-7.94	338.36
110.00	18 39 28	4795.10	32.50	201.64	36.03	78.77	19 59 23	4195.1	30.61	192.93

DIFFERENTIAL CORRECTIONS

```
TDE  .5168 TRA -.8702 TC3  .3015 BAU  .1085
RDE -.3134 RRA -.1403 RC3  .1659 FAU .02738
FDE -.6120 FRA  .5496 FC3-1.0048 BSP   3824
BDE  .6044 BRA  .8814 BC3  .3442 FSP   -306
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1255.4 SGR  437.9 SG3  119.7
RRT  .0039 RRF -.0071 RTF -.8235
SGB 1329.6 R23 -.0035 R13 -.8235
SG1 1255.4 SG2  437.9 THA    .09
```

ORBIT DETERMINATION ACCURACY

```
ST   687.3 SR   373.3 SS   665.7
CRT -.8151 CRS -.9165 CST  .9779
LSA 1007.1 MSA  200.6 SSA   17.1
EL1  757.1 EL2  196.3 ALF 154.27
```

LAUNCH DATE JUN 6 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 8 1967

HELIOCENTRIC CONIC DISTANCE 230.341

```
RL  151.81 LAL   -.00 LOL 254.62 VL  25.067 GAL   2.09 AZL  93.40 HCA  95.65 SMA 118.48 ECC .28341 INC 3.4028 VI  29.349
RP  108.78 LAP  -3.39 LOP 350.29 VP  36.332 GAP -15.80 AZP  89.66 TAL 174.70 TAP 270.35 RCA  84.90 APO 152.06 V2  34.838
RC  44.440 GL  -18.69 GP     .38 ZAL  81.55 ZAP    .81 ETS 332.07 ZAE 157.61 ETE  32.70 ZAC  95.56 ETC  14.14 CLP   -.72
```

PLANETOCENTRIC CONIC

```
C3  21.523 VHL  4.639 DLA -14.58 RAL 166.55 RAD 6567.9 VEL 11.954 PTH   2.13 VHP  9.741 DPA   7.59 RAP 171.90 ECC 1.3542
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 27 43	1761.16	-6.61	14.52	27.84	117.60	7 57 4	1161.2	-2.87	7.85
90.00	15 35 28	5346.81	27.66	243.72	34.29	83.69	17 4 35	4746.8	26.50	235.24
100.00	8 41 14	1523.95	-7.78	356.45	27.21	118.95	9 6 38	923.9	-3.86	349.86
100.00	17 4 38	5059.26	28.98	222.38	34.10	82.32	18 28 57	4459.3	27.61	213.84
110.00	9 31 59	1364.97	-10.80	342.57	25.38	122.63	9 54 44	765.0	-6.42	336.21
110.00	18 30 22	4791.00	32.44	201.33	33.42	78.59	19 50 13	4191.0	30.53	192.64

DIFFERENTIAL CORRECTIONS

```
TDE  .5249 TRA -.8366 TC3  .3798 BAU  .1209
RDE -.2938 RRA -.1297 RC3  .1796 FAU .02923
FDE -.6586 FRA  .5530 FC3-1.1755 BSP  4044
BDE  .6016 BRA  .8466 BC3  .4201 FSP  -343
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1297.8 SGR  432.3 SG3  132.4
RRT  .0004 RRF -.0052 RTF -.8371
SGB 1367.9 R23 -.0048 R13 -.8371
SG1 1297.8 SG2  432.3 THA    .01
```

ORBIT DETERMINATION ACCURACY

```
ST   723.1 SR   366.3 SS   708.0
CRT -.8278 CRS -.9233 CST  .9789
LSA 1058.3 MSA  195.0 SSA   17.3
EL1  788.4 EL2  188.5 ALF 155.78
```

LAUNCH DATE JUN 6 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 10 1967

HELIOCENTRIC CONIC DISTANCE 237.056

```
RL  151.81 LAL   -.00 LOL 254.62 VL  25.267 GAL   1.84 AZL  93.41 HCA  98.83 SMA 119.56 ECC .27153 INC 3.4087 VI  29.349
RP  108.75 LAP  -3.37 LOP 353.47 VP  36.478 GAP -14.90 AZP  89.48 TAL 175.04 TAP 273.87 RCA  87.09 APO 152.02 V2  34.846
RC  45.237 GL  -19.76 GP     .41 ZAL  82.48 ZAP   2.55 ETS 350.59 ZAE 155.77 ETE  29.48 ZAC  94.23 ETC  14.03 CLP  -2.52
```

PLANETOCENTRIC CONIC

```
C3  19.722 VHL  4.441 DLA -15.19 RAL 165.26 RAD 6567.8 VEL 11.879 PTH   2.11 VHP  9.228 DPA   7.07 RAP 173.18 ECC 1.3246
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 28 10	1718.38	-5.26	12.11	25.36	117.86	7 56 49	1118.4	-1.49	5.46
90.00	15 24 44	5347.75	27.67	243.78	31.67	83.72	16 53 52	4747.8	26.51	235.31
100.00	8 41 15	1482.62	-6.41	354.15	24.73	119.26	9 5 57	882.6	-2.46	347.58
100.00	16 54 21	5058.75	28.97	222.34	31.49	82.31	18 18 40	4458.8	27.61	213.81
110.00	9 31 3	1326.61	-9.38	340.50	22.92	123.02	9 53 9	726.6	-4.97	334.19
110.00	18 21 2	4787.52	32.40	201.07	30.81	78.45	19 40 50	4187.5	30.47	192.39

DIFFERENTIAL CORRECTIONS

```
TDE  .5320 TRA -.8093 TC3  .4583 BAU  .1311
RDE -.2754 RRA -.1198 RC3  .1932 FAU .03129
FDE -.7110 FRA  .5555 FC3-1.3737 BSP  4163
BDE  .5991 BRA  .8181 BC3  .4973 FSP  -385
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1344.4 SGR  425.8 SG3  146.7
RRT -.0014 RRF -.0032 RTF -.8456
SGB 1410.2 R23  .0045 R13  .8456
SG1 1344.4 SG2  425.8 THA 179.97
```

ORBIT DETERMINATION ACCURACY

```
ST   759.4 SR   358.5 SS   753.2
CRT -.8382 CRS -.9300 CST  .9791
LSA 1111.7 MSA  190.9 SSA   17.5
EL1  820.0 EL2  181.1 ALF 157.24
```

LAUNCH DATE JUN 6 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 12 1967

HELIOCENTRIC CONIC DISTANCE 243.774

```
RL  151.81 LAL   -.00 LOL 254.62 VL  25.450 GAL   1.61 AZL  93.41 HCA 102.00 SMA 120.56 ECC .26053 INC 3.4147 VI  29.349
RP  108.72 LAP  -3.34 LOP 356.65 VP  36.614 GAP -14.03 AZP  89.29 TAL 175.42 TAP 277.42 RCA  89.15 APO 151.98 V2  34.856
RC  46.178 GL  -20.83 GP     .44 ZAL  83.50 ZAP   4.40 ETS 353.97 ZAE 154.05 ETE  26.82 ZAC  92.94 ETC  13.92 CLP  -4.37
```

PLANETOCENTRIC CONIC

```
C3  18.154 VHL  4.261 DLA -15.77 RAL 163.89 RAD 6567.7 VEL 11.813 PTH   2.09 VHP  8.734 DPA   6.57 RAP 174.41 ECC 1.2988
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 28 6	1677.90	-3.96	9.84	22.90	118.06	7 56 4	1077.9	-.18	3.20
90.00	15 13 52	5349.22	27.68	243.89	29.05	83.77	16 43 1	4749.2	26.53	235.41
100.00	8 40 44	1443.57	-5.11	351.98	22.27	119.49	9 4 47	843.6	-1.14	345.44
100.00	16 43 56	5058.78	28.97	222.35	28.88	82.31	18 8 14	4458.8	27.61	213.81
110.00	9 29 36	1290.47	-8.04	338.57	20.47	123.34	9 51 7	690.5	-3.60	332.29
110.00	18 11 33	4784.65	32.36	200.86	28.20	78.33	19 31 17	4184.6	30.41	192.18

DIFFERENTIAL CORRECTIONS

```
TDE  .5406 TRA -.7774 TC3  .5488 BAU  .1423
RDE -.2580 RRA -.1104 RC3  .2063 FAU .03365
FDE -.7703 FRA  .5565 FC3-1.6048 BSP  4336
BDE  .5989 BRA  .7852 BC3  .5863 FSP  -434
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1388.2 SGR  418.4 SG3  162.7
RRT -.0040 RRF -.0013 RTF -.8556
SGB 1449.8 R23  .0051 R13  .8556
SG1 1388.2 SG2  418.4 THA 179.92
```

ORBIT DETERMINATION ACCURACY

```
ST   796.7 SR   350.0 SS   801.9
CRT -.8499 CRS -.9365 CST  .9799
LSA 1168.5 MSA  185.7 SSA   17.7
EL1  853.0 EL2  172.3 ALF 158.61
```

LAUNCH DATE JUN 6 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 14 1967

HELIOCENTRIC CONIC DISTANCE 250.492

```
RL  151.81 LAL   -.00 LOL 254.62 VL  25.618 GAL   1.38 AZL  93.42 HCA 105.17 SMA 121.51 ECC .25039 INC 3.4208 VI  29.349
RP  108.69 LAP  -3.30 LOP 359.83 VP  36.740 GAP -13.20 AZP  89.10 TAL 175.85 TAP 281.02 RCA  91.09 APO 151.94 V2  34.865
RC  47.255 GL  -21.90 GP     .47 ZAL  84.58 ZAP   6.31 ETS 355.32 ZAE 152.49 ETE  24.60 ZAC  91.71 ETC  13.83 CLP  -6.29
```

PLANETOCENTRIC CONIC

```
C3  16.793 VHL  4.098 DLA -16.32 RAL 162.45 RAD 6567.7 VEL 11.755 PTH   2.07 VHP  8.261 DPA   6.09 RAP 175.59 ECC 1.2764
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 27 32	1639.89	-2.74	7.71	20.47	118.19	7 54 51	1039.9	1.05	1.08
90.00	15 2 58	5351.11	27.69	244.03	26.47	83.84	16 32 9	4751.1	26.55	235.55
100.00	8 39 43	1406.97	-3.88	349.96	19.84	119.66	9 3 10	807.0	.10	343.43
100.00	16 33 27	5059.27	28.98	222.38	26.29	82.32	17 57 47	4459.3	27.61	213.85
110.00	9 27 41	1256.69	-6.77	336.77	18.06	123.59	9 48 38	656.7	-2.31	330.53
110.00	18 1 58	4782.32	32.33	200.68	25.62	78.23	19 21 41	4182.3	30.37	192.02

DIFFERENTIAL CORRECTIONS

```
TDE  .5485 TRA -.7449 TC3  .6438 BAU  .1527
RDE -.2416 RRA -.1017 RC3  .2187 FAU .03628
FDE -.8366 FRA  .5565 FC3-1.8703 BSP  4481
BDE  .5993 BRA  .7518 BC3  .6799 FSP  -487
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1429.8 SGR  410.1 SG3  180.7
RRT -.0062 RRF  .0002 RTF -.8646
SGB 1487.4 R23  .0056 R13  .8646
SG1 1429.8 SG2  410.1 THA 179.89
```

ORBIT DETERMINATION ACCURACY

```
ST   833.3 SR   340.7 SS   853.9
CRT -.8611 CRS -.9427 CST  .9806
LSA 1227.1 MSA  180.8 SSA   17.8
EL1  885.4 EL2  163.1 ALF 159.89
```

LAUNCH DATE JUN 6 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 16 1967

HELIOCENTRIC CONIC DISTANCE 257.208
RL 151.81 LAL -.00 LOL 254.62 VL 25.772 GAL 1.17 AZL 93.43 HCA 108.35 SMA 122.40 ECC .24106 INC 3.4271 V1 29.349
RP 108.66 LAP -3.25 LOP 3.01 VP 36.858 GAP -12.40 AZP 88.92 TAL 176.30 TAP 284.66 RCA 92.89 APO 151.91 V2 34.875
RC 48.458 GL -22.94 GP .51 ZAL 85.72 ZAP 8.29 ETS 356.01 ZAE 151.10 ETE 22.73 ZAC 90.54 ETC 13.74 CLP -8.27
PLANETOCENTRIC CONIC
C3 15.614 VHL 3.951 DLA -16.83 RAL 160.96 RAD 6567.6 VEL 11.705 PTH 2.06 VHP 7.807 DPA 5.65 RAP 176.70 ECC 1.2570

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 26 28	1604.49	-1.60	5.73	18.08	118.28	7 53 12	1004.5	2.19	359.11
90.00	14 52 6	5353.35	27.71	244.19	23.91	83.92	16 21 20	4753.3	26.58	235.70
100.00	8 38 14	1372.93	-2.73	348.09	17.46	119.78	9 1 7	772.9	1.25	341.56
100.00	16 23 2	5060.14	28.99	222.45	23.74	82.36	17 47 22	4460.1	27.63	213.91
110.00	9 25 20	1225.37	-5.59	335.12	15.68	123.78	9 45 45	625.4	-1.11	328.89
110.00	17 52 25	4780.47	32.30	200.55	23.08	78.15	19 12 5	4180.5	30.33	191.88

DIFFERENTIAL CORRECTIONS
TDE .5559 TRA -.7119 TC3 .7441 BAU .1626
RDE -.2261 RRA -.0935 RC3 .2302 FAU .03928
FDE -.9109 FRA .5548 FC3-2.1778 BSP 4616
BDE .6001 BRA .7180 BC3 .7789 FSP -547

MID-COURSE EXECUTION ACCURACY
SGT 1469.2 SGR 400.9 SG3 201.0
RRT -.0077 RRF .0009 RTF -.8727
SGB 1522.9 R23 .0063 R13 .8727
SG1 1469.2 SG2 400.8 THA 179.87

ORBIT DETERMINATION ACCURACY
ST 868.7 SR 330.7 SS 907.7
CRT -.8718 CRS -.9485 CST .9813
LSA 1287.1 MSA 176.1 SSA 17.9
EL1 916.8 EL2 153.5 ALF 161.09

LAUNCH DATE JUN 6 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 18 1967

HELIOCENTRIC CONIC DISTANCE 263.918
RL 151.81 LAL -.00 LOL 254.62 VL 25.913 GAL .97 AZL 93.43 HCA 111.53 SMA 123.23 ECC .23250 INC 3.4337 V1 29.349
RP 108.63 LAP -3.19 LOP 6.19 VP 36.966 GAP -11.62 AZP 88.74 TAL 176.79 TAP 288.32 RCA 94.58 APO 151.88 V2 34.886
RC 49.776 GL -23.97 GP .55 ZAL 86.89 ZAP 10.35 ETS 356.41 ZAE 149.92 ETE 21.15 ZAC 89.45 ETC 13.66 CLP -10.34
PLANETOCENTRIC CONIC
C3 14.595 VHL 3.820 DLA -17.29 RAL 159.43 RAD 6567.6 VEL 11.661 PTH 2.05 VHP 7.373 DPA 5.23 RAP 177.74 ECC 1.2402

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 24 58	1571.79	-.55	3.91	15.74	118.31	7 51 9	971.8	3.24	357.28
90.00	14 41 24	5355.81	27.73	244.37	21.42	84.01	16 10 40	4755.8	26.61	235.88
100.00	8 36 19	1341.54	-1.67	346.36	15.12	119.85	8 58 41	741.5	2.32	339.84
100.00	16 12 44	5061.29	29.00	222.53	21.25	82.40	17 37 5	4461.3	27.64	213.99
110.00	9 22 35	1196.57	-4.50	333.61	13.36	123.92	9 42 32	596.6	-.01	327.39
110.00	17 42 57	4779.03	32.28	200.44	20.59	78.09	19 2 36	4179.0	30.30	191.78

DIFFERENTIAL CORRECTIONS
TDE .5624 TRA -.6799 TC3 .8457 BAU .1716
RDE -.2116 RRA -.0859 RC3 .2406 FAU .04264
FDE -.9948 FRA .5531 FC3-2.5291 BSP 4737
BDE .6009 BRA .6853 BC3 .8792 FSP -616

MID-COURSE EXECUTION ACCURACY
SGT 1506.5 SGR 390.8 SG3 223.9
RRT -.0080 RRF .0008 RTF -.8799
SGB 1556.3 R23 .0067 R13 .8799
SG1 1506.5 SG2 390.8 THA 179.87

ORBIT DETERMINATION ACCURACY
ST 902.5 SR 319.9 SS 965.4
CRT -.8817 CRS -.9539 CST .9819
LSA 1348.7 MSA 172.0 SSA 17.9
EL1 946.6 EL2 143.9 ALF 162.22

LAUNCH DATE JUN 6 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 20 1967

HELIOCENTRIC CONIC DISTANCE 270.620
RL 151.81 LAL -.00 LOL 254.62 VL 26.042 GAL .78 AZL 93.44 HCA 114.71 SMA 124.00 ECC .22468 INC 3.4405 V1 29.349
RP 108.59 LAP -3.13 LOP 9.37 VP 37.067 GAP -10.88 AZP 88.56 TAL 177.30 TAP 292.01 RCA 96.14 APO 151.85 V2 34.897
RC 51.201 GL -24.96 GP .60 ZAL 88.08 ZAP 12.50 ETS 356.66 ZAE 148.96 ETE 19.83 ZAC 88.44 ETC 13.60 CLP -12.49
PLANETOCENTRIC CONIC
C3 13.717 VHL 3.704 DLA -17.72 RAL 157.88 RAD 6567.5 VEL 11.623 PTH 2.04 VHP 6.957 DPA 4.86 RAP 178.70 ECC 1.2258

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 23 4	1541.83	.42	2.24	13.47	118.31	7 48 46	941.8	4.20	355.60
90.00	14 30 57	5358.41	27.75	244.56	19.00	84.10	16 0 15	4758.4	26.64	236.06
100.00	8 34 2	1312.84	-.69	344.79	12.85	119.89	8 55 55	712.8	3.29	338.26
100.00	16 2 40	5062.64	29.01	222.63	18.83	82.45	17 27 2	4462.6	27.66	214.09
110.00	9 19 31	1170.31	-3.50	332.23	11.10	124.03	9 39 2	570.3	.99	326.02
110.00	17 33 40	4777.93	32.26	200.36	18.18	78.04	18 53 18	4177.9	30.28	191.70

DIFFERENTIAL CORRECTIONS
TDE .5700 TRA -.6453 TC3 .9522 BAU .1805
RDE -.1978 RRA -.0789 RC3 .2497 FAU .04654
FDE-1.0913 FRA .5477 FC3-2.9374 BSP 4887
BDE .6033 BRA .6501 BC3 .9844 FSP -697

MID-COURSE EXECUTION ACCURACY
SGT 1540.5 SGR 379.8 SG3 250.0
RRT -.0085 RRF .0001 RTF -.8872
SGB 1586.7 R23 .0080 R13 .8872
SG1 1540.5 SG2 379.8 THA 179.87

ORBIT DETERMINATION ACCURACY
ST 936.4 SR 308.4 SS 1028.1
CRT -.8919 CRS -.9590 CST .9827
LSA 1414.4 MSA 167.7 SSA 17.8
EL1 976.7 EL2 133.7 ALF 163.31

LAUNCH DATE JUN 6 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 22 1967

HELIOCENTRIC CONIC DISTANCE 277.314
RL 151.81 LAL -.00 LOL 254.62 VL 26.158 GAL .61 AZL 93.45 HCA 117.89 SMA 124.71 ECC .21756 INC 3.4477 V1 29.349
RP 108.56 LAP -3.05 LOP 12.56 VP 37.160 GAP -10.15 AZP 88.39 TAL 177.82 TAP 295.71 RCA 97.58 APO 151.84 V2 34.908
RC 52.722 GL -25.91 GP .66 ZAL 89.28 ZAP 14.76 ETS 356.82 ZAE 148.22 ETE 18.72 ZAC 87.53 ETC 13.54 CLP -14.75
PLANETOCENTRIC CONIC
C3 12.963 VHL 3.600 DLA -18.11 RAL 156.33 RAD 6567.5 VEL 11.591 PTH 2.03 VHP 6.559 DPA 4.53 RAP 179.57 ECC 1.2133

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 20 51	1514.58	1.30	.72	11.28	118.29	7 46 5	914.6	5.07	354.07
90.00	14 20 49	5361.10	27.76	244.75	16.67	84.20	15 50 10	4761.1	26.67	236.25
100.00	8 31 27	1286.77	.19	343.36	10.67	119.89	8 52 53	686.8	4.17	336.83
100.00	15 52 55	5064.14	29.02	222.74	16.50	82.51	17 17 19	4464.1	27.68	214.19
110.00	9 16 12	1146.53	-2.59	330.99	8.93	124.10	9 35 19	546.5	1.90	324.78
110.00	17 24 38	4777.14	32.25	200.30	15.85	78.01	18 44 15	4177.1	30.27	191.65

DIFFERENTIAL CORRECTIONS
TDE .5729 TRA -.6137 TC3 1.0426 BAU .1861
RDE -.1846 RRA -.0724 RC3 .2575 FAU .05071
FDE-1.1973 FRA .5433 FC3-3.3869 BSP 4922
BDE .6019 BRA .6179 BC3 1.0739 FSP -779

MID-COURSE EXECUTION ACCURACY
SGT 1565.4 SGR 368.0 SG3 278.7
RRT -.0071 RRF -.0022 RTF -.8917
SGB 1608.0 R23 .0089 R13 .8917
SG1 1565.4 SG2 368.0 THA 179.90

ORBIT DETERMINATION ACCURACY
ST 962.6 SR 296.1 SS 1091.6
CRT -.8999 CRS -.9634 CST .9831
LSA 1476.0 MSA 165.0 SSA 17.6
EL1 999.5 EL2 124.4 ALF 164.28

LAUNCH DATE JUN 6 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 24 1967

DISTANCE 283.995

HELIOCENTRIC CONIC
RL 151.81 LAL -.00 LOL 254.62 VL 26.264 GAL .44 AZL 93.46 HCA 121.08 SMA 125.36 ECC .21109 INC 3.4554 V1 29.349
RP 108.52 LAP -2.96 LOP 15.75 VP 37.245 GAP -9.46 AZP 88.21 TAL 178.34 TAP 299.42 RCA 98.90 APO 151.82 V2 34.920
RC 54.330 GL -26.81 GP .73 ZAL 90.47 ZAP 17.14 ETS 356.92 ZAE 147.74 ETE 17.80 ZAC 86.73 ETC 13.49 CLP -17.12

PLANETOCENTRIC CONIC
C3 12.316 VHL 3.509 DLA -18.45 RAL 154.81 RAD 6567.5 VEL 11.563 PTH 2.02 VHP 6.180 DPA 4.26 RAP 180.34 ECC 1.2027

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 18 22	1489.99	2.09	359.35	9.19	118.25	7 43 12	890.0	5.85	352.69
90.00	14 11 6	5363.80	27.78	244.94	14.44	84.29	15 40 30	4763.8	26.70	236.44
100.00	8 28 37	1263.29	.99	342.07	8.57	119.88	8 49 40	663.3	4.96	335.53
100.00	15 43 32	5065.73	29.04	222.85	14.27	82.57	17 7 58	4465.7	27.70	214.30
110.00	9 12 42	1125.17	-1.77	329.87	6.85	124.14	9 31 27	525.2	2.72	323.67
110.00	17 15 57	4776.61	32.25	200.26	13.63	77.99	18 35 33	4176.6	30.26	191.61

DIFFERENTIAL CORRECTIONS
TOE .5780 TRA -.5775 TC3 1.1428 BAU .1931
RDE -.1720 RRA -.0665 RC3 .2638 FAU .05570
FDE-1.3213 FRA .5319 FC3-3.9152 BSP 5067
BDE .6031 BRA .5813 BC3 1.1729 FSP -888

MID-COURSE EXECUTION ACCURACY
SGT 1588.0 SGR 355.4 SG3 312.0
RRT -.0050 RRF -.0060 RTF -.8979
SGB 1627.3 R23 .0107 R13 .8979
SGI 1588.0 SG2 355.4 THA 179.93

ORBIT DETERMINATION ACCURACY
ST 989.9 SR 283.0 SS 1162.0
CRT -.9090 CRS -.9677 CST .9839
LSA 1544.0 MSA 161.4 SSA 17.3
EL1 1023.3 EL2 114.1 ALF 165.24

LAUNCH DATE JUN 6 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 26 1967

DISTANCE 290.664

HELIOCENTRIC CONIC
RL 151.81 LAL -.00 LOL 254.62 VL 26.360 GAL .29 AZL 93.46 HCA 124.26 SMA 125.96 ECC .20525 INC 3.4636 V1 29.349
RP 108.48 LAP -2.86 LOP 18.94 VP 37.324 GAP -8.78 AZP 88.05 TAL 178.87 TAP 303.13 RCA 100.11 APO 151.81 V2 34.932
RC 56.016 GL -27.67 GP .80 ZAL 91.63 ZAP 19.65 ETS 356.99 ZAE 147.51 ETE 17.06 ZAC 86.06 ETC 13.45 CLP -19.63

PLANETOCENTRIC CONIC
C3 11.763 VHL 3.430 DLA -18.77 RAL 153.32 RAD 6567.4 VEL 11.539 PTH 2.01 VHP 5.819 DPA 4.05 RAP 180.99 ECC 1.1936

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 15 44	1467.91	2.80	358.11	7.20	118.19	7 40 12	867.9	6.55	351.44
90.00	14 1 52	5366.53	27.80	245.14	12.33	84.39	15 31 18	4766.5	26.73	236.64
100.00	8 25 40	1242.24	1.70	340.91	6.59	119.85	8 46 22	642.2	5.66	334.36
100.00	15 34 37	5067.43	29.05	222.98	12.17	82.63	16 59 4	4467.4	27.73	214.43
110.00	9 9 7	1106.08	-1.04	328.87	4.87	124.17	9 27 33	506.1	3.45	322.67
110.00	17 7 39	4776.36	32.24	200.24	11.53	77.98	18 27 15	4176.4	30.25	191.59

DIFFERENTIAL CORRECTIONS
TOE .5780 TRA -.5431 TC3 1.2301 BAU .1980
RDE -.1598 RRA -.0610 RC3 .2690 FAU .06135
FDE-1.4584 FRA .5188 FC3-4.5154 BSP 5136
BDE .5997 BRA .5465 BC3 1.2592 FSP -1005

MID-COURSE EXECUTION ACCURACY
SGT 1600.8 SGR 341.9 SG3 349.5
RRT .0019 RRF -.0142 RTF -.9022
SGB 1636.9 R23 -.0124 R13 -.9022
SGI 1600.8 SG2 341.9 THA .02

ORBIT DETERMINATION ACCURACY
ST 1007.7 SR 269.0 SS 1233.5
CRT -.9162 CRS -.9714 CST .9843
LSA 1607.4 MSA 159.1 SSA 16.9
EL1 1037.8 EL2 104.6 ALF 166.11

LAUNCH DATE JUN 6 1967 FLIGHT TIME 114.00 ARRIVAL DATE SEP 28 1967

DISTANCE 297.319

HELIOCENTRIC CONIC
RL 151.81 LAL -.00 LOL 254.62 VL 26.447 GAL .15 AZL 93.47 HCA 127.45 SMA 126.51 ECC .19999 INC 3.4724 V1 29.349
RP 108.45 LAP -2.76 LOP 22.13 VP 37.397 GAP -8.13 AZP 87.89 TAL 179.38 TAP 306.84 RCA 101.21 APO 151.81 V2 34.945
RC 57.772 GL -28.47 GP .89 ZAL 92.74 ZAP 22.30 ETS 357.04 ZAE 147.55 ETE 16.49 ZAC 85.52 ETC 13.41 CLP -22.29

PLANETOCENTRIC CONIC
C3 11.294 VHL 3.361 DLA -19.05 RAL 151.88 RAD 6567.4 VEL 11.519 PTH 2.01 VHP 5.476 DPA 3.91 RAP 181.51 ECC 1.1859

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 13 2	1448.11	3.44	357.01	5.33	118.12	7 37 10	848.1	7.17	350.32
90.00	13 53 8	5369.35	27.82	245.35	10.36	84.49	15 22 37	4769.4	26.76	236.84
100.00	8 22 40	1223.41	2.34	339.88	4.73	119.81	8 43 4	623.4	6.29	333.32
100.00	15 26 11	5069.29	29.07	223.11	10.20	82.70	16 50 40	4469.3	27.75	214.56
110.00	9 5 33	1089.06	-.39	327.99	3.02	124.18	9 23 42	489.1	4.09	321.78
110.00	16 59 48	4776.40	32.24	200.24	9.57	77.98	18 19 24	4176.4	30.25	191.59

DIFFERENTIAL CORRECTIONS
TOE .5723 TRA -.5184 TC3 1.2833 BAU .1981
RDE -.1478 RRA -.0559 RC3 .2733 FAU .06733
FDE-1.6111 FRA .5169 FC3-5.1617 BSP 5075
BDE .5911 BRA .5214 BC3 1.3120 FSP -1125

MID-COURSE EXECUTION ACCURACY
SGT 1603.2 SGR 327.7 SG3 390.7
RRT .0130 RRF -.0264 RTF -.9027
SGB 1636.3 R23 -.0141 R13 -.9027
SGI 1603.2 SG2 327.7 THA .16

ORBIT DETERMINATION ACCURACY
ST 1015.6 SR 253.8 SS 1307.3
CRT -.9202 CRS -.9740 CST .9841
LSA 1667.1 MSA 159.7 SSA 16.4
EL1 1042.3 EL2 96.8 ALF 166.93

LAUNCH DATE JUN 6 1967 FLIGHT TIME 116.00 ARRIVAL DATE SEP 30 1967

DISTANCE 303.958

HELIOCENTRIC CONIC
RL 151.81 LAL -.00 LOL 254.62 VL 26.524 GAL .03 AZL 93.48 HCA 130.65 SMA 127.01 ECC .19527 INC 3.4821 V1 29.349
RP 108.41 LAP -2.64 LOP 25.32 VP 37.464 GAP -7.50 AZP 87.73 TAL 179.88 TAP 310.53 RCA 102.20 APO 151.81 V2 34.957
RC 59.590 GL -29.21 GP .99 ZAL 93.79 ZAP 25.13 ETS 357.07 ZAE 147.87 ETE 16.11 ZAC 85.14 ETC 13.38 CLP -25.11

PLANETOCENTRIC CONIC
C3 10.895 VHL 3.301 DLA -19.30 RAL 150.52 RAD 6567.4 VEL 11.501 PTH 2.00 VHP 5.151 DPA 3.86 RAP 181.89 ECC 1.1793

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 10 23	1430.38	4.01	356.01	3.60	118.06	7 34 13	830.4	7.73	349.31
90.00	13 44 56	5372.31	27.84	245.56	8.53	84.60	15 14 28	4772.3	26.80	237.05
100.00	8 19 44	1206.58	2.91	338.95	2.99	119.76	8 39 50	606.6	6.85	332.38
100.00	15 18 15	5071.34	29.09	223.26	8.37	82.78	16 42 47	4471.3	27.78	214.70
110.00	9 2 4	1073.90	.19	327.20	1.29	124.18	9 19 58	473.9	4.67	320.98
110.00	16 52 24	4776.78	32.25	200.27	7.75	77.99	18 12 1	4176.8	30.26	191.62

DIFFERENTIAL CORRECTIONS
TOE .5724 TRA -.4853 TC3 1.3581 BAU .2019
RDE -.1359 RRA -.0512 RC3 .2767 FAU .07483
FDE-1.7929 FRA .4964 FC3-5.9462 BSP 4629
BDE .5883 BRA .4880 BC3 1.3860 FSP -1184

MID-COURSE EXECUTION ACCURACY
SGT 1608.7 SGR 312.9 SG3 439.9
RRT .0269 RRF -.0433 RTF -.9066
SGB 1638.8 R23 -.0180 R13 -.9067
SGI 1608.7 SG2 312.8 THA .31

ORBIT DETERMINATION ACCURACY
ST 1029.4 SR 237.7 SS 1391.5
CRT -.9265 CRS -.9768 CST .9846
LSA 1739.9 MSA 157.9 SSA 15.7
EL1 1052.8 EL2 87.4 ALF 167.84

LAUNCH DATE JUN 6 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 2 1967

HELIOCENTRIC CONIC DISTANCE 310.580

RL 151.81 LAL -.00 LOL 254.62 VL 26.593 GAL -.08 AZL 93.49 HCA 133.84 SMA 127.45 ECC .19107 INC 3.4927 VI 29.349
RP 108.37 LAP -2.52 LOP 28.52 VP 37.525 GAP -6.89 AZP 87.58 TAL 180.35 TAP 314.19 RCA 103.10 APO 151.81 V2 34.970
RC 61.464 GL -29.90 GP 1.11 ZAL 94.78 ZAP 28.15 ETS 357.10 ZAE 148.48 ETE 15.92 ZAC 84.94 ETC 13.36 CLP -28.13

PLANETOCENTRIC CONIC

C3 10.560 VHL 3.250 DLA -19.54 RAL 149.24 RAD 6567.4 VEL 11.487 PTH 2.00 VHP 4.845 DPA 3.89 RAP 182.10 ECC 1.1738

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 7 51	1414.44	4.52	355.12	2.01	117.98	7 31 25	814.4	8.23	348.40
90.00	13 37 15	5375.50	27.86	245.79	6.85	84.71	15 6 51	4775.5	26.83	237.28
100.00	8 16 56	1191.49	3.42	338.12	1.40	119.71	8 36 48	591.5	7.35	331.54
100.00	15 10 51	5073.69	29.11	223.44	6.69	82.87	16 35 25	4473.7	27.81	214.87
110.00	8 58 46	1060.39	.70	326.49	359.71	124.18	9 16 27	460.4	5.18	320.27
110.00	16 45 30	4777.55	32.26	200.33	6.08	78.03	18 5 8	4177.6	30.27	191.68

DIFFERENTIAL CORRECTIONS
TDE .5716 TRA -.4383 TC3 1.4276 BAU .2054
RDE -.1238 RRA -.0470 RC3 .2802 FAU .08393
FDE-2.0176 FRA .4463 FC3-6.8807 BSP 5406
BDE .5849 BRA .4408 BC3 1.4548 FSP -1511

MID-COURSE EXECUTION ACCURACY
SGT 1596.6 SGR 297.6 SG3 499.0
RRT .0443 RRF -.0647 RTF -.9131
SGB 1624.1 R23 -.0228 R13 -.9132
SG1 1596.6 SG2 297.3 THA .49

ORBIT DETERMINATION ACCURACY
ST 1037.8 SR 220.0 SS 1493.8
CRT -.9347 CRS -.9800 CST .9857
LSA 1825.7 MSA 153.4 SSA 15.0
EL1 1058.1 EL2 76.7 ALF 168.73

LAUNCH DATE JUN 6 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 4 1967

HELIOCENTRIC CONIC DISTANCE 317.185

RL 151.81 LAL -.00 LOL 254.62 VL 26.655 GAL -.18 AZL 93.50 HCA 137.04 SMA 127.86 ECC .18735 INC 3.5045 VI 29.349
RP 108.33 LAP -2.39 LOP 31.71 VP 37.580 GAP -6.30 AZP 87.43 TAL 180.79 TAP 317.83 RCA 103.90 APO 151.81 V2 34.983
RC 63.388 GL -30.54 GP 1.26 ZAL 95.68 ZAP 31.38 ETS 357.12 ZAE 149.39 ETE 15.95 ZAC 84.93 ETC 13.35 CLP -31.35

PLANETOCENTRIC CONIC

C3 10.279 VHL 3.206 DLA -19.76 RAL 148.07 RAD 6567.4 VEL 11.475 PTH 1.99 VHP 4.557 DPA 4.04 RAP 182.13 ECC 1.1692

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 5 36	1399.88	4.98	354.30	.57	117.91	7 28 56	799.9	8.68	347.57
90.00	13 30 6	5379.18	27.88	246.06	5.33	84.84	14 59 45	4779.2	26.87	237.54
100.00	8 14 26	1177.75	3.88	337.37	359.96	119.66	8 34 4	577.7	7.80	330.77
100.00	15 3 57	5076.55	29.13	223.65	5.18	82.97	16 28 33	4476.5	27.85	215.08
110.00	8 55 47	1048.16	1.17	325.85	358.27	124.17	9 13 15	448.2	5.65	319.63
110.00	16 39 5	4778.90	32.28	200.43	4.57	78.08	17 58 44	4178.9	30.30	191.77

DIFFERENTIAL CORRECTIONS
TDE .5555 TRA -.4156 TC3 1.4163 BAU .1985
RDE -.1114 RRA -.0430 RC3 .2842 FAU .09265
FDE-2.2455 FRA .4336 FC3-7.8028 BSP 5049
BDE .5666 BRA .4178 BC3 1.4445 FSP -1662

MID-COURSE EXECUTION ACCURACY
SGT 1559.9 SGR 281.9 SG3 558.7
RRT .0736 RRF -.0989 RTF -.9099
SGB 1585.2 R23 -.0297 R13 -.9099
SG1 1560.0 SG2 281.2 THA .79

ORBIT DETERMINATION ACCURACY
ST 1021.0 SR 200.6 SS 1584.2
CRT -.9357 CRS -.9810 CST .9851
LSA 1888.9 MSA 155.0 SSA 14.2
EL1 1038.2 EL2 69.6 ALF 169.54

LAUNCH DATE JUN 6 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 6 1967

HELIOCENTRIC CONIC DISTANCE 323.772

RL 151.81 LAL -.00 LOL 254.62 VL 26.709 GAL -.27 AZL 93.52 HCA 140.23 SMA 128.21 ECC .18406 INC 3.5179 VI 29.349
RP 108.29 LAP -2.25 LOP 34.91 VP 37.631 GAP -5.73 AZP 87.29 TAL 181.20 TAP 321.43 RCA 104.61 APO 151.81 V2 34.996
RC 65.357 GL -31.14 GP 1.43 ZAL 96.48 ZAP 34.84 ETS 357.15 ZAE 150.62 ETE 16.25 ZAC 85.14 ETC 13.35 CLP -34.81

PLANETOCENTRIC CONIC

C3 10.046 VHL 3.170 DLA -19.97 RAL 146.99 RAD 6567.4 VEL 11.465 PTH 1.99 VHP 4.289 DPA 4.30 RAP 181.97 ECC 1.1653

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 3 44	1386.36	5.41	353.54	359.28	117.84	7 26 51	786.4	9.10	346.80
90.00	13 23 24	5383.52	27.91	246.37	3.99	85.00	14 53 8	4783.5	26.92	237.85
100.00	8 12 19	1165.05	4.31	336.67	358.67	119.61	8 31 44	565.1	8.22	330.06
100.00	14 57 30	5080.06	29.16	223.90	3.84	83.11	16 22 11	4480.1	27.90	215.33
110.00	8 53 11	1036.97	1.60	325.27	356.99	124.15	9 10 28	437.0	6.07	319.04
110.00	16 33 8	4780.91	32.31	200.58	3.24	78.17	17 52 49	4180.9	30.34	191.92

DIFFERENTIAL CORRECTIONS
TDE .5360 TRA -.3918 TC3 1.3929 BAU .1911
RDE -.0984 RRA -.0394 RC3 .2893 FAU .10277
FDE-2.5065 FRA .4189 FC3-8.8559 BSP 5013
BDE .5450 BRA .3938 BC3 1.4227 FSP -1911

MID-COURSE EXECUTION ACCURACY
SGT 1512.1 SGR 266.4 SG3 627.2
RRT .1161 RRF -.1473 RTF -.9069
SGB 1535.4 R23 -.0390 R13 -.9071
SG1 1512.4 SG2 264.6 THA 1.21

ORBIT DETERMINATION ACCURACY
ST 995.3 SR 179.3 SS 1682.4
CRT -.9356 CRS -.9815 CST .9845
LSA 1956.7 MSA 155.6 SSA 13.3
EL1 1009.4 EL2 62.4 ALF 170.40

LAUNCH DATE JUN 6 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 8 1967

HELIOCENTRIC CONIC DISTANCE 330.340

RL 151.81 LAL -.00 LOL 254.62 VL 26.757 GAL -.34 AZL 93.53 HCA 143.43 SMA 128.53 ECC .18119 INC 3.5331 VI 29.349
RP 108.25 LAP -2.10 LOP 38.11 VP 37.677 GAP -5.17 AZP 87.16 TAL 181.56 TAP 324.99 RCA 105.24 APO 151.82 V2 35.009
RC 67.365 GL -31.68 GP 1.63 ZAL 97.19 ZAP 38.55 ETS 357.18 ZAE 152.17 ETE 16.88 ZAC 85.58 ETC 13.37 CLP -38.52

PLANETOCENTRIC CONIC

C3 9.856 VHL 3.139 DLA -20.19 RAL 146.03 RAD 6567.4 VEL 11.456 PTH 1.99 VHP 4.040 DPA 4.69 RAP 181.59 ECC 1.1622

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 2 25	1373.45	5.82	352.81	358.16	117.76	7 25 16	773.5	9.49	346.06
90.00	13 17 7	5388.80	27.94	246.76	2.82	85.19	14 46 56	4788.8	26.98	238.22
100.00	8 10 42	1153.00	4.71	336.00	357.55	119.55	8 29 55	553.0	8.61	329.39
100.00	14 51 29	5084.49	29.19	224.23	2.67	83.27	16 16 14	4484.5	27.96	215.64
110.00	8 51 4	1026.46	2.00	324.72	355.86	124.13	9 8 11	426.5	6.47	318.48
110.00	16 27 36	4783.79	32.35	200.79	2.08	78.29	17 47 20	4183.8	30.40	192.12

DIFFERENTIAL CORRECTIONS
TDE .5067 TRA -.3680 TC3 1.3336 BAU .1800
RDE -.0845 RRA -.0360 RC3 .2965 FAU .11400
FDE-2.7906 FRA .3930 FC-10.0142 BSP 4675
BDE .5137 BRA .3697 BC3 1.3662 FSP -2131

MID-COURSE EXECUTION ACCURACY
SGT 1438.2 SGR 251.7 SG3 702.2
RRT .1750 RRF -.2143 RTF -.9002
SGB 1460.0 R23 -.0528 R13 -.9005
SG1 1438.9 SG2 247.7 THA 1.81

ORBIT DETERMINATION ACCURACY
ST 949.7 SR 155.8 SS 1780.7
CRT -.9328 CRS -.9812 CST .9832
LSA 2018.0 MSA 156.8 SSA 12.4
EL1 960.8 EL2 55.5 ALF 171.27

LAUNCH DATE JUN 6 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 10 1967

DISTANCE 336.889

HELIOCENTRIC CONIC
RL 151.81 LAL -.00 LOL 254.62 VL 26.798 GAL -.41 AZL 93.55 HCA 146.64 SMA 128.81 ECC .17870 INC 3.5509 VI 29.349
RP 108.20 LAP -1.95 LOP 41.31 VP 37.719 GAP -4.63 AZP 87.03 TAL 181.87 TAP 328.50 RCA 105.79 APO 151.82 V2 35.023
RC 69.409 GL -32.20 GP 1.87 ZAL 97.78 ZAP 42.53 ETS 357.23 ZAE 154.04 ETE 17.96 ZAC 86.28 ETC 13.41 CLP -42.50

PLANETOCENTRIC CONIC
C3 9.703 VHL 3.115 DLA -20.41 RAL 145.19 RAD 6567.3 VEL 11.450 PTH 1.99 VHP 3.811 DPA 5.23 RAP 180.98 ECC 1.1597

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 1 38	1360.74	6.22	352.10	357.20	117.68	7 24 19	760.7	9.88	345.33
90.00	13 11 9	5395.33	27.98	247.23	1.82	85.42	14 41 4	4795.3	27.05	238.69
100.00	8 9 40	1141.21	5.11	335.35	356.59	119.49	8 28 41	541.2	9.00	328.72
100.00	14 45 48	5090.09	29.24	224.64	1.68	83.48	16 10 38	4490.1	28.03	216.04
110.00	8 49 31	1016.33	2.39	324.19	354.90	124.11	9 6 27	416.3	6.85	317.95
110.00	16 22 27	4787.74	32.40	201.09	1.10	78.46	17 42 15	4187.7	30.47	192.40

DIFFERENTIAL CORRECTIONS
TDE .4744 TRA -.3472 TC3 1.2354 BAU .1651
RDE -.0695 RRA -.0328 RC3 .3067 FAU .12625
FDE-3.1210 FRA .3692 FC-11.2647 BSP 4397
BDE .4794 BRA .3488 BC3 1.2729 FSP -2414

MID-COURSE EXECUTION ACCURACY
SGT 1348.4 SGR 238.7 SG3 785.9
RRT .2469 RRF -.3012 RTF -.8891
SGB 1369.3 R23 -.0774 R13 -.8897
SG1 1349.7 SG2 231.1 THA 2.58

ORBIT DETERMINATION ACCURACY
ST 896.5 SR 129.4 SS 1892.9
CRT -.9262 CRS -.9791 CST .9815
LSA 2092.5 MSA 157.9 SSA 11.4
EL1 904.5 EL2 48.4 ALF 172.37

LAUNCH DATE JUN 6 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 12 1967

DISTANCE 343.419

HELIOCENTRIC CONIC
RL 151.81 LAL -.00 LOL 254.62 VL 26.833 GAL -.45 AZL 93.57 HCA 149.84 SMA 129.04 ECC .17657 INC 3.5720 VI 29.349
RP 108.16 LAP -1.79 LOP 44.52 VP 37.756 GAP -4.11 AZP 86.91 TAL 182.12 TAP 331.97 RCA 106.26 APO 151.83 V2 35.036
RC 71.485 GL -32.68 GP 2.17 ZAL 98.26 ZAP 46.81 ETS 357.29 ZAE 156.23 ETE 19.67 ZAC 87.23 ETC 13.48 CLP -46.77

PLANETOCENTRIC CONIC
C3 9.584 VHL 3.096 DLA -20.66 RAL 144.47 RAD 6567.3 VEL 11.444 PTH 1.99 VHP 3.604 DPA 5.94 RAP 180.13 ECC 1.1577

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 1 40	1347.71	6.63	351.36	356.42	117.59	7 24 7	747.7	10.28	344.58
90.00	13 5 23	5403.52	28.02	247.83	1.01	85.72	14 35 26	4803.5	27.13	239.27
100.00	8 9 22	1129.22	5.51	334.69	355.80	119.43	8 28 11	529.2	9.39	328.05
100.00	14 40 22	5097.24	29.29	225.16	.87	83.76	16 5 19	4497.2	28.12	216.56
110.00	8 48 37	1006.19	2.77	323.66	354.11	124.08	9 5 23	406.2	7.23	317.41
110.00	16 17 36	4793.04	32.47	201.49	.30	78.68	17 37 29	4193.0	30.57	192.78

DIFFERENTIAL CORRECTIONS
TDE .4316 TRA -.3271 TC3 1.0967 BAU .1464
RDE -.0529 RRA -.0298 RC3 .3212 FAU .13942
FDE-3.4775 FRA .3374 FC-12.5936 BSP 3995
BDE .4348 BRA .3285 BC3 1.1428 FSP -2706

MID-COURSE EXECUTION ACCURACY
SGT 1232.0 SGR 229.4 SG3 875.4
RRT .3361 RRF -.4129 RTF -.8706
SGB 1253.2 R23 -.1179 R13 -.8720
SG1 1234.5 SG2 215.6 THA 3.69

ORBIT DETERMINATION ACCURACY
ST 822.3 SR 99.7 SS 2006.2
CRT -.9108 CRS -.9735 CST .9786
LSA 2164.7 MSA 158.8 SSA 10.4
EL1 827.3 EL2 40.9 ALF 173.68

LAUNCH DATE JUN 6 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 14 1967

DISTANCE 349.929

HELIOCENTRIC CONIC
RL 151.81 LAL -.00 LOL 254.62 VL 26.863 GAL -.49 AZL 93.60 HCA 153.05 SMA 129.25 ECC .17475 INC 3.5977 VI 29.349
RP 108.12 LAP -1.63 LOP 47.72 VP 37.790 GAP -3.60 AZP 86.79 TAL 182.32 TAP 335.37 RCA 106.66 APO 151.83 V2 35.049
RC 73.590 GL -33.16 GP 2.54 ZAL 98.63 ZAP 51.38 ETS 357.38 ZAE 158.71 ETE 22.34 ZAC 88.45 ETC 13.58 CLP -51.33

PLANETOCENTRIC CONIC
C3 9.498 VHL 3.082 DLA -20.94 RAL 143.87 RAD 6567.3 VEL 11.441 PTH 1.98 VHP 3.419 DPA 6.83 RAP 179.04 ECC 1.1563

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 2 37	1333.73	7.07	350.57	355.81	117.49	7 24 50	733.7	10.70	343.77
90.00	12 59 39	5413.96	28.07	248.59	.37	86.10	14 29 53	4814.0	27.23	240.02
100.00	8 9 56	1116.47	5.94	333.98	355.19	119.35	8 28 32	516.5	9.80	327.33
100.00	14 35 1	5106.45	29.36	225.84	.25	84.11	16 0 7	4506.4	28.23	217.22
110.00	8 48 30	995.60	3.18	323.11	353.48	124.05	9 5 5	395.6	7.63	316.85
110.00	16 12 56	4800.08	32.56	202.01	359.69	78.98	17 32 56	4200.1	30.70	193.29

DIFFERENTIAL CORRECTIONS
TDE .3766 TRA -.3123 TC3 .9084 BAU .1232
RDE -.0344 RRA -.0271 RC3 .3413 FAU .15317
FDE-3.8545 FRA .3157 FC-13.9612 BSP 3482
BDE .3782 BRA .3135 BC3 .9704 FSP -3016

MID-COURSE EXECUTION ACCURACY
SGT 1091.0 SGR 226.4 SG3 969.1
RRT .4313 RRF -.5458 RTF -.8357
SGB 1114.2 R23 -.1910 R13 -.8391
SG1 1095.5 SG2 203.4 THA 5.30

ORBIT DETERMINATION ACCURACY
ST 724.8 SR 66.3 SS 2118.8
CRT -.8673 CRS -.9543 CST .9727
LSA 2234.5 MSA 160.7 SSA 9.4
EL1 727.1 EL2 32.9 ALF 175.46

LAUNCH DATE JUN 6 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 16 1967

DISTANCE 356.420

HELIOCENTRIC CONIC
RL 151.81 LAL -.00 LOL 254.62 VL 26.888 GAL -.52 AZL 93.63 HCA 156.26 SMA 129.41 ECC .17325 INC 3.6296 VI 29.349
RP 108.08 LAP -1.46 LOP 50.93 VP 37.820 GAP -3.10 AZP 86.68 TAL 182.46 TAP 338.72 RCA 106.99 APO 151.84 V2 35.062
RC 75.721 GL -33.63 GP 3.00 ZAL 98.87 ZAP 56.24 ETS 357.49 ZAE 161.41 ETE 26.51 ZAC 89.93 ETC 13.75 CLP -56.19

PLANETOCENTRIC CONIC
C3 9.444 VHL 3.073 DLA -21.27 RAL 143.39 RAD 6567.3 VEL 11.438 PTH 1.98 VHP 3.257 DPA 7.93 RAP 177.72 ECC 1.1554

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 4 41	1318.07	7.57	349.68	355.37	117.37	7 26 39	718.1	11.17	342.86
90.00	12 53 43	5427.40	28.13	249.57	359.93	86.58	14 24 11	4827.4	27.36	240.98
100.00	8 11 32	1102.32	6.41	333.19	354.74	119.26	8 29 54	502.3	10.26	326.52
100.00	14 29 33	5118.38	29.44	226.72	359.81	84.56	15 54 52	4518.4	28.37	218.07
110.00	8 49 15	984.08	3.62	322.51	353.02	124.01	9 5 39	384.1	8.06	316.23
110.00	16 8 19	4809.39	32.68	202.71	359.27	79.38	17 28 29	4209.4	30.87	193.96

DIFFERENTIAL CORRECTIONS
TDE .3120 TRA -.2993 TC3 .6738 BAU .0970
RDE -.0132 RRA -.0245 RC3 .3688 FAU .16709
FDE-4.2591 FRA .2955 FC-15.3165 BSP 2866
BDE .3123 BRA .3003 BC3 .7682 FSP -3328

MID-COURSE EXECUTION ACCURACY
SGT 931.9 SGR 233.2 SG3 1065.3
RRT .5016 RRF -.6845 RTF -.7721
SGB 960.6 R23 -.3217 R13 -.7815
SG1 939.5 SG2 200.1 THA 7.50

ORBIT DETERMINATION ACCURACY
ST 608.9 SR 29.4 SS 2236.5
CRT -.6442 CRS -.8139 CST .9618
LSA 2312.5 MSA 162.1 SSA 8.4
EL1 609.2 EL2 22.5 ALF 178.22

LAUNCH DATE JUN 6 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 18 1967

HELIOCENTRIC CONIC DISTANCE 362.891

RL 151.81 LAL -.00 LOL 254.62 VL 26.909 GAL -.53 AZL 93.67 HCA 159.48 SMA 129.55 ECC .17202 INC 3.6710 V1 29.349
RP 108.04 LAP -1.29 LOP 54.14 VP 37.846 GAP -2.61 AZP 86.56 TAL 182.54 TAP 342.01 RCA 107.27 APO 151.84 V2 35.075
RC 77.874 GL -34.14 GP 3.61 ZAL 98.98 ZAP 61.38 ETS 357.65 ZAE 164.19 ETE 33.18 ZAC 91.64 ETC 13.99 CLP -61.32

PLANETOCENTRIC CONIC

C3 9.426 VHL 3.070 DLA -21.67 RAL 143.02 RAD 6567.3 VEL 11.437 PTH 1.98 VHP 3.120 DPA 9.25 RAP 176.20 ECC 1.1551

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 8 10	1299.63	8.14	348.63	355.12	117.21	7 29 50	699.6	11.73	341.79
90.00	12 47 15	5445.09	28.19	250.86	359.66	87.23	14 18 0	4845.1	27.51	242.26
100.00	8 14 25	1085.83	6.96	332.28	354.48	119.14	8 32 31	485.8	10.79	325.59
100.00	14 23 41	5134.12	29.53	227.88	359.56	85.16	15 49 15	4534.1	28.55	219.21
110.00	8 51 5	970.91	4.12	321.82	352.73	123.96	9 7 16	370.9	8.55	315.53
110.00	16 3 31	4821.80	32.84	203.65	359.06	79.91	17 23 52	4221.8	31.10	194.86

DIFFERENTIAL CORRECTIONS
TDE .2341 TRA -.2894 TC3 .3900 BAU .0710
RDE .0118 RRA -.0223 RC3 .4062 FAU .18052
FDE-4.6701 FRA .2795 FC-16.5797 BSP 2159
BDE .2344 BRA .2902 BC3 .5631 FSP -3629

MID-COURSE EXECUTION ACCURACY
SGT 765.4 SGR 254.3 SG3 1158.9
RRT .4895 RRF -.8078 RTF -.6401
SGB 806.5 R23 -.5344 R13 -.6676
SG1 776.3 SG2 218.7 THA 10.05

ORBIT DETERMINATION ACCURACY
ST 470.4 SR 26.8 SS 2351.2
CRT .9508 CRS .8384 CST .9356
LSA 2392.3 MSA 163.7 SSA 7.3
EL1 471.1 EL2 8.3 ALF 3.10

LAUNCH DATE JUN 6 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 20 1967

HELIOCENTRIC CONIC DISTANCE 369.341

RL 151.81 LAL -.00 LOL 254.62 VL 26.924 GAL -.53 AZL 93.73 HCA 162.69 SMA 129.66 ECC .17104 INC 3.7270 V1 29.349
RP 108.00 LAP -1.11 LOP 57.35 VP 37.869 GAP -2.14 AZP 86.44 TAL 182.55 TAP 345.24 RCA 107.48 APO 151.84 V2 35.088
RC 80.046 GL -34.70 GP 4.41 ZAL 98.97 ZAP 66.77 ETS 357.85 ZAE 166.74 ETE 44.11 ZAC 93.52 ETC 14.32 CLP -66.69

PLANETOCENTRIC CONIC

C3 9.451 VHL 3.074 DLA -22.17 RAL 142.74 RAD 6567.3 VEL 11.439 PTH 1.98 VHP 3.008 DPA 10.86 RAP 174.53 ECC 1.1555

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 13 35	1276.64	8.85	347.32	355.07	117.01	7 34 52	676.6	12.41	340.44
90.00	12 39 36	5469.10	28.26	252.61	359.60	88.10	14 10 45	4869.1	27.70	243.99
100.00	8 19 0	1065.51	7.63	331.14	354.41	118.99	8 36 45	465.5	11.44	324.43
100.00	14 16 52	5155.46	29.65	229.45	359.52	85.99	15 42 47	4555.5	28.77	220.76
110.00	8 54 14	955.04	4.72	320.98	352.62	123.89	9 10 9	355.0	9.14	314.68
110.00	15 58 7	4838.69	33.03	204.93	359.06	80.65	17 18 46	4238.7	31.39	196.09

DIFFERENTIAL CORRECTIONS
TDE .1431 TRA -.2823 TC3 .0620 BAU .0583
RDE .0422 RRA -.0203 RC3 .4575 FAU .19266
FDE-5.0812 FRA .2709 FC-17.6486 BSP 1460
BDE .1492 BRA .2831 BC3 .4617 FSP -3919

MID-COURSE EXECUTION ACCURACY
SGT 628.9 SGR 294.9 SG3 1245.3
RRT .2963 RRF -.8986 RTF -.3586
SGB 694.6 R23 -.8002 R13 -.4201
SG1 636.4 SG2 278.4 THA 9.81

ORBIT DETERMINATION ACCURACY
ST 316.6 SR 80.1 SS 2463.3
CRT .9109 CRS .9881 CST .8514
LSA 2479.3 MSA 165.3 SSA 6.2
EL1 325.0 EL2 32.2 ALF 13.11

LAUNCH DATE JUN 6 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 22 1967

HELIOCENTRIC CONIC DISTANCE 375.772

RL 151.81 LAL -.00 LOL 254.62 VL 26.936 GAL -.51 AZL 93.81 HCA 165.91 SMA 129.74 ECC .17031 INC 3.8076 V1 29.349
RP 107.96 LAP -.93 LOP 60.56 VP 37.889 GAP -1.68 AZP 86.31 TAL 182.50 TAP 348.41 RCA 107.64 APO 151.84 V2 35.101
RC 82.236 GL -35.40 GP 5.55 ZAL 98.81 ZAP 72.35 ETS 358.11 ZAE 168.45 ETE 61.34 ZAC 95.50 ETC 14.80 CLP -72.26

PLANETOCENTRIC CONIC

C3 9.536 VHL 3.088 DLA -22.84 RAL 142.52 RAD 6567.3 VEL 11.442 PTH 1.98 VHP 2.924 DPA 12.85 RAP 172.81 ECC 1.1569

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 21 51	1245.80	9.80	345.55	355.24	116.70	7 42 37	645.8	13.31	338.63
90.00	12 29 36	5503.46	28.31	255.12	359.75	89.36	14 1 20	4903.5	27.92	246.48
100.00	8 26 2	1038.66	8.51	329.64	354.55	118.76	8 43 20	438.7	12.29	322.88
100.00	14 8 7	5185.83	29.77	231.70	359.70	87.16	15 34 33	4585.8	29.06	222.97
110.00	8 59 13	934.61	5.50	319.91	352.71	123.79	9 14 48	334.6	9.90	313.58
110.00	15 51 25	4862.65	33.28	206.76	359.30	81.70	17 12 28	4262.7	31.78	197.85

DIFFERENTIAL CORRECTIONS
TDE .0399 TRA -.2764 TC3 -.2972 BAU .0776
RDE .0820 RRA -.0185 RC3 .5308 FAU .20285
FDE-5.4941 FRA .2485 FC-18.4154 BSP 1126
BDE .0912 BRA .2770 BC3 .6083 FSP -4175

MID-COURSE EXECUTION ACCURACY
SGT 590.6 SGR 363.3 SG3 1320.3
RRT -.1314 RRF -.9543 RTF .1168
SGB 693.4 R23 .9354 R13 -.1894
SG1 593.6 SG2 358.3 THA 172.71

ORBIT DETERMINATION ACCURACY
ST 182.7 SR 153.0 SS 2576.9
CRT .4682 CRS .9978 CST .4176
LSA 2582.5 MSA 166.2 SSA 5.1
EL1 205.9 EL2 119.9 ALF 34.55

LAUNCH DATE JUN 6 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 24 1967

HELIOCENTRIC CONIC DISTANCE 382.183

RL 151.81 LAL -.00 LOL 254.62 VL 26.944 GAL -.49 AZL 93.94 HCA 169.13 SMA 129.79 ECC .16981 INC 3.9351 V1 29.349
RP 107.92 LAP -.74 LOP 63.78 VP 37.906 GAP -1.23 AZP 86.13 TAL 182.39 TAP 351.52 RCA 107.75 APO 151.83 V2 35.113
RC 84.440 GL -36.37 GP 7.32 ZAL 98.51 ZAP 78.06 ETS 358.48 ZAE 168.26 ETE 83.31 ZAC 97.41 ETC 15.50 CLP -77.96

PLANETOCENTRIC CONIC

C3 9.725 VHL 3.119 DLA -23.81 RAL 142.31 RAD 6567.4 VEL 11.451 PTH 1.99 VHP 2.869 DPA 15.46 RAP 171.21 ECC 1.1601

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 35 14	1199.54	11.21	342.87	355.73	116.18	7 55 13	599.5	14.64	335.87
90.00	12 14 33	5557.46	28.29	259.07	.15	91.34	13 47 10	4957.5	28.17	250.41
100.00	8 37 16	999.28	9.79	327.42	354.99	118.38	8 53 55	399.3	13.51	320.60
100.00	13 55 12	5232.95	29.88	235.20	.16	89.00	15 22 25	4632.9	29.42	226.43
110.00	9 7 7	905.66	6.59	318.38	353.04	123.62	9 22 13	305.7	10.96	312.02
110.00	15 41 50	4899.34	33.61	209.57	359.87	83.34	17 3 29	4299.3	32.32	200.57

DIFFERENTIAL CORRECTIONS
TDE -.0789 TRA -.2750 TC3 -.6756 BAU .1211
RDE .1398 RRA -.0172 RC3 .6414 FAU .20969
FDE-5.9043 FRA .2320 FC-18.6658 BSP 1695
BDE .1605 BRA .2755 BC3 .9316 FSP -4360

MID-COURSE EXECUTION ACCURACY
SGT 709.6 SGR 476.7 SG3 1375.4
RRT -.5519 RRF -.9831 RTF .5507
SGB 854.8 R23 .6649 R13 -.7242
SG1 773.1 SG2 364.8 THA 153.25

ORBIT DETERMINATION ACCURACY
ST 220.5 SR 257.3 SS 2690.8
CRT -.6285 CRS .9995 CST -.6492
LSA 2706.9 MSA 167.7 SSA 4.1
EL1 306.8 EL2 143.8 ALF 128.07

LAUNCH DATE JUN 6 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 26 1967

DISTANCE 388.574

HELIOCENTRIC CONIC

```
RL  151.81 LAL   -.00 LOL 254.62 VL  26.948 GAL   -.45 AZL  94.17 HCA 172.35 SMA 129.82 ECC .16951 INC 4.1688 VI  29.349
RP  107.89 LAP   -.55 LOP  66.99 VP  37.921 GAP   -.79 AZP  85.87 TAL 182.21 TAP 354.56 RCA 107.82 APO 151.83 V2  35.125
RC  86.655 GL  -37.96 GP   10.46 ZAL  98.01 ZAP  83.81 ETS 359.04 ZAE 165.17 ETE 101.45 ZAC  98.95 ETC  16.57 CLP -83.71
```

PLANETOCENTRIC CONIC

```
C3  10.144 VHL  3.185 DLA -25.40 RAL 141.95 RAD 6567.4 VEL 11.469 PTH   1.99 VHP  2.853 DPA  19.34 RAP 170.13 ECC 1.1669
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 0 57	1114.02	13.72	337.85	356.80	115.01	8 19 31	514.0	16.98	330.69
90.00	11 45 56	5659.73	27.90	266.52	.86	95.06	13 20 16	5059.7	28.31	257.88
100.00	8 57 57	929.98	12.01	323.46	355.93	117.58	9 13 27	330.0	15.61	316.52
100.00	13 31 37	5319.00	29.81	241.60	1.00	92.37	15 0 16	4719.0	29.82	232.79
110.00	9 20 59	857.74	8.39	315.84	353.77	123.26	9 35 16	257.7	12.71	309.40
110.00	15 25 5	4964.01	34.00	214.58	.94	86.27	16 47 49	4364.0	33.11	205.45

DIFFERENTIAL CORRECTIONS

```
TDE -.2188 TRA -.2800 TC3-1.0389 BAU  .1801
RDE  .2408 RRA -.0154 RC3  .8279 FAU .21166
FDE-6.3465 FRA  .1726 FC-18.0638 BSP  2924
BDE  .3254 BRA  .2804 BC3 1.3284 FSP  -4470
```

MID-COURSE EXECUTION ACCURACY

```
SGT  950.6 SGR  683.2 SG3 1400.8
RRT -.7736 RRF -.9953 RTF  .7732
SGB 1170.7 R23  .4471 R13 -.8893
SG1 1110.5 SG2  370.6 THA 146.75
```

ORBIT DETERMINATION ACCURACY

```
ST   428.2 SR   433.6 SS  2815.9
CRT -.9120 CRS  .9999 CST -.9168
LSA 2876.1 MSA  169.6 SSA    2.9
ELI  595.8 EL2  127.8 ALF 134.60
```

LAUNCH DATE JUN 6 1967 FLIGHT TIME 144.00 ARRIVAL DATE OCT 28 1967

DISTANCE 394.945

HELIOCENTRIC CONIC

```
RL  151.81 LAL   -.00 LOL 254.62 VL  26.949 GAL   -.40 AZL  94.74 HCA 175.57 SMA 129.83 ECC .16940 INC 4.7391 VI  29.349
RP  107.85 LAP   -.37 LOP  70.21 VP  37.932 GAP   -.36 AZP  85.27 TAL 181.97 TAP 357.54 RCA 107.84 APO 151.82 V2  35.137
RC  88.880 GL  -41.39 GP   17.80 ZAL  97.18 ZAP  89.45 ETS    .18 ZAE 157.25 ETE 109.03 ZAC  99.08 ETC  18.58 CLP -89.42
```

PLANETOCENTRIC CONIC

```
C3  11.342 VHL  3.368 DLA -28.73 RAL 140.86 RAD 6567.4 VEL 11.521 PTH   2.01 VHP  2.925 DPA  27.02 RAP 170.99 ECC 1.1867
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.95	9 6 53	902.26	22.79	326.19	.78	107.98	9 21 56	302.3	25.04	318.21
95.05	10 31 19	628.93	22.81	306.17	.79	107.96	10 41 48	28.9	25.05	298.19
100.00	10 0 27	728.37	18.03	311.53	358.82	114.25	10 12 36	128.4	21.16	304.13
100.00	12 20 26	5566.09	27.74	259.63	2.23	101.61	13 53 12	4966.1	29.06	251.08
110.00	9 54 19	747.70	12.44	309.88	355.72	122.10	10 6 46	147.7	16.59	303.24
110.00	14 43 4	5119.53	34.03	226.71	3.19	93.45	16 8 24	4519.5	34.13	217.47

DIFFERENTIAL CORRECTIONS

```
TDE -.4023 TRA -.3018 TC3-1.2796 BAU  .2638
RDE  .4927 RRA -.0073 RC3 1.1789 FAU .19985
FDE-6.8706 FRA  .0144 FC-15.2545 BSP  4829
BDE  .6361 BRA  .3019 BC3 1.7399 FSP  -4287
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1246.6 SGR 1154.7 SG3 1344.6
RRT -.8682 RRF -.9993 RTF  .8679
SGB 1699.3 R23  .2768 R13 -.9602
SG1 1642.7 SG2  434.9 THA 137.52
```

ORBIT DETERMINATION ACCURACY

```
ST   707.1 SR   838.6 SS  2954.9
CRT -.9673 CRS 1.0000 CST -.9684
LSA 3147.2 MSA  172.3 SSA    1.8
ELI 1088.1 EL2  138.1 ALF 129.98
```

LAUNCH DATE JUN 6 1967 FLIGHT TIME 146.00 ARRIVAL DATE OCT 30 1967

DISTANCE 401.292

HELIOCENTRIC CONIC

```
RL  151.81 LAL   -.00 LOL 254.62 VL  26.947 GAL   -.34 AZL  98.36 HCA 178.80 SMA 129.82 ECC .16948 INC 8.3619 VI  29.349
RP  107.82 LAP   -.17 LOP  73.43 VP  37.942 GAP    .07 AZP  81.64 TAL 181.67 TAP    .46 RCA 107.82 APO 151.82 V2  35.149
RC  91.113 GL  -55.29 GP   51.01 ZAL  94.71 ZAP  93.32 ETS   4.95 ZAE 124.50 ETE 104.89 ZAC  89.42 ETC  23.05 CLP -95.28
```

PLANETOCENTRIC CONIC

```
C3  22.741 VHL  4.769 DLA -41.54 RAL 134.18 RAD 6567.9 VEL 12.005 PTH   2.14 VHP  4.231 DPA  56.56 RAP 192.43 ECC 1.3743
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.23	5 52 47	1574.68	26.88	20.53	9.27	122.95	6 19 1	974.7	31.01	13.12
121.77	12 52 7	5559.94	26.89	258.77	9.28	122.94	14 24 47	4959.9	31.02	251.35
58.23	5 52 47	1574.68	26.88	20.53	9.27	122.95	6 19 1	974.7	31.01	13.12
121.77	12 52 7	5559.94	26.89	258.77	9.28	122.94	14 24 47	4959.9	31.02	251.35
58.23	5 52 47	1574.68	26.88	20.53	9.27	122.95	6 19 1	974.7	31.01	13.12
121.77	12 52 7	5559.94	26.89	258.77	9.28	122.94	14 24 47	4959.9	31.02	251.35

DIFFERENTIAL CORRECTIONS

```
TDE -.8919 TRA -.4878 TC3 -.7495 BAU  .4565
RDE 2.2045 RRA  .1996 RC3 1.3011 FAU .08997
FDE-5.9022 FRA -.5626 FC3-3.4249 BSP  10069
BDE 2.3781 BRA  .5270 BC3 1.5015 FSP  -2107
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1507.5 SGR 2942.5 SG3  679.1
RRT -.8964 RRF-1.0000 RTF  .8982
SGB 3306.2 R23  .0849 R13 -.9964
SG1 3250.4 SG2  604.8 THA 115.62
```

ORBIT DETERMINATION ACCURACY

```
ST  1097.3 SR  2650.7 SS  2594.6
CRT -.9839 CRS 1.0000 CST -.9843
LSA 3863.6 MSA  187.2 SSA     .7
ELI 2863.1 EL2  181.5 ALF 112.26
```

LAUNCH DATE JUN 6 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 1 1967

DISTANCE 407.640

HELIOCENTRIC CONIC

```
RL  151.81 LAL   -.00 LOL 254.62 VL  26.943 GAL   -.27 AZL  90.45 HCA 182.03 SMA 129.78 ECC .16974 INC  .2748 VI  29.349
RP  107.78 LAP    .02 LOP  76.66 VP  37.948 GAP    .48 AZP  89.55 TAL 181.30 TAP   3.34 RCA 107.76 APO 151.81 V2  35.160
RC  93.352 GL   -5.02 GP  -34.94 ZAL  98.41 ZAP  98.69 ETS 354.58 ZAE 145.29 ETE 242.72 ZAC 113.84 ETC   1.80 CLP-100.63
```

PLANETOCENTRIC CONIC

```
C3   5.961 VHL  2.441 DLA   4.58 RAL 156.10 RAD 6567.2 VEL 11.285 PTH   1.94 VHP  3.399 DPA -20.19 RAP 146.28 ECC 1.0981
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 16 45	2109.98	-16.90	34.97	1.87	113.06	4 51 55	1510.0	-13.63	27.81
90.00	17 23 1	4469.22	8.62	187.12	.98	62.92	18 37 30	3869.2	4.92	180.39
100.00	5 40 15	1840.67	-17.59	14.84	1.55	114.57	6 10 56	1240.7	-14.13	7.76
100.00	18 42 12	4213.76	9.28	167.98	.62	61.46	19 52 26	3613.8	5.40	161.34
110.00	6 53 26	1611.64	-19.42	356.49	.58	118.70	7 20 17	1011.6	-15.44	349.63
110.00	19 45 31	4015.56	11.04	151.88	359.57	57.44	20 52 27	3415.6	6.67	145.51

DIFFERENTIAL CORRECTIONS

```
TDE -.0141 TRA  .0467 TC3-3.5550 BAU  .4042
RDE -.0982 RRA  .3363 RC3-3.6181 FAU .13537
FDE -.5659 FRA 1.8111 FC-19.6609 BSP  6365
BDE  .0993 BRA  .3396 BC3 5.0723 FSP  -2322
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1739.7 SGR 1949.7 SG3  914.8
RRT  .9321 RRF 1.0000 RTF  .9326
SGB 2613.0 R23  .1612 R13  .9869
SG1 2568.9 SG2  478.3 THA  48.49
```

ORBIT DETERMINATION ACCURACY

```
ST    70.0 SR   335.3 SS   548.[illegible]
CRT  .7770 CRS -.9994 CST -.7746
LSA  644.8 MSA   44.0 SSA    9.5
ELI  339.7 EL2   43.5 ALF  80.63
```

LAUNCH DATE JUN 6 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 3 1967

HELIOCENTRIC CONIC DISTANCE 413.948

RL 151.81 LAL -.00 LOL 254.62 VL 26.935 GAL .18 AZL 92.26 HCA 185.26 SMA 129.73 ECC .17016 INC 2.2582 V1 29.349
RP 107.75 LAP .21 LOP 79.88 VP 37.953 GAP .89 AZP 87.75 TAL 180.89 TAP 6.15 RCA 107.66 APO 151.81 V2 35.170
RC 95.596 GL -23.41 GP -14.67 ZAL 96.82 ZAP 105.14 ETS 356.67 ZAE 157.81 ETE 210.20 ZAC 113.63 ETC 10.10 CLP-105.66

PLANETOCENTRIC CONIC

C3 7.152 VHL 2.674 DLA -12.88 RAL 150.20 RAD 6567.2 VEL 11.338 PTH 1.95 VHP 2.975 DPA -.68 RAP 152.16 ECC 1.1177

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 7 32	1587.11	-1.04	4.76	357.25	118.30	6 33 59	987.1	2.75	358.13
90.00	14 45 13	5054.60	23.79	223.25	360.00	74.17	16 9 28	4454.6	21.39	215.39
100.00	7 22 12	1346.18	-1.82	346.62	356.82	119.84	7 44 38	746.2	2.16	340.10
100.00	16 13 14	4770.76	24.65	202.09	359.72	72.53	17 32 45	4170.8	22.02	194.27
110.00	8 15 26	1179.48	-3.85	332.71	355.56	123.99	8 35 5	579.5	.64	326.50
110.00	17 36 30	4510.23	26.89	181.41	358.83	68.05	18 51 40	3910.2	23.67	173.73

DIFFERENTIAL CORRECTIONS
TDE -.4440 TRA -.1037 TC3-3.7946 BAU .3911
RDE -.2098 RRA .0809 RC3-1.5261 FAU .19711
FDE-3.5192 FRA 1.2165 FC-23.8606 BSP 7131
BDE .4911 BRA .1316 BC3 4.0900 FSP -4106

MID-COURSE EXECUTION ACCURACY
SGT 2253.0 SGR 948.7 SG3 1301.4
RRT .9562 RRF .9995 RTF .9567
SGB 2444.6 R23 .2480 R13 .9683
SG1 2431.0 SG2 257.4 THA 22.19

ORBIT DETERMINATION ACCURACY
ST 955.6 SR 453.3 SS 1951.5
CRT .9820 CRS -.9999 CST -.9842
LSA 2214.4 MSA 153.7 SSA 2.0
EL1 1054.9 EL2 77.5 ALF 25.12

LAUNCH DATE JUN 6 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 5 1967

HELIOCENTRIC CONIC DISTANCE 420.240

RL 151.81 LAL -.00 LOL 254.62 VL 26.926 GAL -.09 AZL 92.69 HCA 188.49 SMA 129.67 ECC .17074 INC 2.6939 V1 29.349
RP 107.72 LAP .40 LOP 83.11 VP 37.956 GAP 1.30 AZP 87.34 TAL 180.41 TAP 8.91 RCA 107.53 APO 151.81 V2 35.180
RC 97.843 GL -27.16 GP -9.01 ZAL 95.63 ZAP 110.27 ETS 357.46 ZAE 156.54 ETE 194.46 ZAC 114.18 ETC 12.44 CLP-110.53

PLANETOCENTRIC CONIC

C3 7.689 VHL 2.773 DLA -16.73 RAL 149.68 RAD 6567.3 VEL 11.361 PTH 1.96 VHP 2.987 DPA 5.18 RAP 152.59 ECC 1.1265

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 40 33	1462.98	2.96	357.84	358.08	118.17	7 4 56	863.0	6.71	351.16
90.00	14 8 2	5204.78	26.19	233.59	1.64	78.82	15 34 46	4604.8	24.38	225.38
100.00	7 52 24	1231.16	2.08	340.31	357.59	119.83	8 12 55	631.2	6.03	333.75
100.00	15 38 52	4911.83	27.17	211.80	1.41	77.04	17 0 44	4311.8	25.12	203.61
110.00	8 39 40	1083.08	-.16	327.67	356.19	124.18	8 57 43	483.1	4.32	321.46
110.00	17 8 6	4632.67	29.72	189.81	.61	72.28	18 25 18	4032.7	27.01	181.67

DIFFERENTIAL CORRECTIONS
TDE -.6282 TRA -.1170 TC3-4.0646 BAU .4286
RDE -.1458 RRA .0479 RC3 -.9289 FAU .19914
FDE-4.2197 FRA 1.0454 FC-22.4223 BSP 8037
BDE .6449 BRA .1264 BC3 4.1694 FSP -4312

MID-COURSE EXECUTION ACCURACY
SGT 2613.4 SGR 605.7 SG3 1326.6
RRT .9642 RRF .9964 RTF .9664
SGB 2682.7 R23 .2308 R13 .9695
SG1 2678.1 SG2 156.8 THA 12.64

ORBIT DETERMINATION ACCURACY
ST 1302.1 SR 303.3 SS 2259.2
CRT .9871 CRS -.9996 CST -.9908
LSA 2620.7 MSA 154.1 SSA 3.0
EL1 1336.1 EL2 47.3 ALF 12.97

LAUNCH DATE JUN 6 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 7 1967

HELIOCENTRIC CONIC DISTANCE 426.516

RL 151.81 LAL -.00 LOL 254.62 VL 26.914 GAL .02 AZL 92.89 HCA 191.73 SMA 129.59 ECC .17147 INC 2.8900 V1 29.349
RP 107.69 LAP .59 LOP 86.34 VP 37.956 GAP 1.69 AZP 87.17 TAL 179.88 TAP 11.61 RCA 107.37 APO 151.81 V2 35.190
RC 100.092 GL -28.70 GP -6.39 ZAL 94.47 ZAP 114.95 ETS 357.90 ZAE 153.74 ETE 187.77 ZAC 114.93 ETC 13.63 CLP-115.11

PLANETOCENTRIC CONIC

C3 7.984 VHL 2.826 DLA -18.58 RAL 150.09 RAD 6567.3 VEL 11.374 PTH 1.96 VHP 3.054 DPA 8.10 RAP 152.23 ECC 1.1314

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 0 51	1399.06	5.01	354.25	359.32	117.91	7 24 10	799.1	8.70	347.53
90.00	13 51 2	5282.52	27.09	239.10	3.22	81.44	15 19 4	4682.5	25.63	230.74
100.00	8 10 59	1172.76	4.05	337.09	358.80	119.64	8 30 32	572.8	7.97	330.49
100.00	15 23 35	4984.06	28.17	216.94	3.01	79.57	16 46 39	4384.1	26.44	208.56
110.00	8 54 49	1035.40	1.66	325.19	357.31	124.15	9 12 5	435.4	6.13	318.95
110.00	16 56 14	4694.18	30.92	194.20	2.29	74.63	18 14 28	4094.2	28.50	185.84

DIFFERENTIAL CORRECTIONS
TDE -.7614 TRA -.0778 TC3-4.2465 BAU .4584
RDE -.0968 RRA .0471 RC3 -.6393 FAU .17745
FDE-4.2662 FRA 1.2754 FC-19.2415 BSP 8691
BDE .7676 BRA .0909 BC3 4.2943 FSP -3933

MID-COURSE EXECUTION ACCURACY
SGT 2858.4 SGR 423.4 SG3 1223.5
RRT .9531 RRF .9845 RTF .9635
SGB 2889.6 R23 .2128 R13 .9648
SG1 2886.8 SG2 126.9 THA 8.05

ORBIT DETERMINATION ACCURACY
ST 1546.4 SR 198.9 SS 2294.5
CRT .9829 CRS -.9982 CST -.9920
LSA 2769.3 MSA 163.6 SSA 4.2
EL1 1558.8 EL2 36.3 ALF 7.21

LAUNCH DATE JUN 6 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 9 1967

HELIOCENTRIC CONIC DISTANCE 432.772

RL 151.81 LAL -.00 LOL 254.62 VL 26.899 GAL .15 AZL 93.00 HCA 194.96 SMA 129.49 ECC .17235 INC 3.0022 V1 29.349
RP 107.66 LAP .78 LOP 89.57 VP 37.955 GAP 2.08 AZP 87.10 TAL 179.30 TAP 14.26 RCA 107.17 APO 151.81 V2 35.199
RC 102.344 GL -29.50 GP -4.88 ZAL 93.27 ZAP 119.28 ETS 358.20 ZAE 150.84 ETE 184.59 ZAC 115.60 ETC 14.39 CLP-119.39

PLANETOCENTRIC CONIC

C3 8.189 VHL 2.862 DLA -19.77 RAL 150.90 RAD 6567.3 VEL 11.383 PTH 1.97 VHP 3.144 DPA 9.87 RAP 151.75 ECC 1.1348

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 17 1	1355.47	6.39	351.80	.74	117.64	7 39 36	755.5	10.04	345.02
90.00	13 41 18	5335.52	27.57	242.90	4.80	83.29	15 10 13	4735.5	26.36	234.45
100.00	8 25 50	1133.37	5.37	334.92	.18	119.45	8 44 43	533.4	9.25	328.28
100.00	15 15 10	5032.85	28.72	220.46	4.63	81.34	16 39 3	4432.8	27.23	211.98
110.00	9 7 10	1003.85	2.86	323.54	358.62	124.08	9 23 54	403.8	7.32	317.28
110.00	16 50 19	4735.14	31.62	197.19	3.97	76.27	18 9 14	4135.1	29.41	188.68

DIFFERENTIAL CORRECTIONS
TDE -.8845 TRA -.0663 TC3-4.6476 BAU .5123
RDE -.0649 RRA .0407 RC3 -.5468 FAU .17691
FDE-4.2273 FRA 1.1556 FC-18.7029 BSP 9704
BDE .8869 BRA .0777 BC3 4.6797 FSP -3802

MID-COURSE EXECUTION ACCURACY
SGT 3198.7 SGR 349.7 SG3 1198.0
RRT .9389 RRF .9614 RTF .9721
SGB 3217.8 R23 .1378 R13 .9726
SG1 3215.6 SG2 119.8 THA 5.87

ORBIT DETERMINATION ACCURACY
ST 1773.3 SR 132.8 SS 2309.7
CRT .9754 CRS -.9934 CST -.9939
LSA 2910.8 MSA 157.2 SSA 5.4
EL1 1778.1 EL2 29.2 ALF 4.18

LAUNCH DATE JUN 6 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 11 1967

DISTANCE 439.010

HELIOCENTRIC CONIC
RL 151.81 LAL -.00 LOL 254.62 VL 26.884 GAL .28 AZL 93.08 HCA 198.20 SMA 129.38 ECC .17338 INC 3.0753 V1 29.349
RP 107.63 LAP .96 LOP 92.80 VP 37.951 GAP 2.47 AZP 87.08 TAL 178.67 TAP 16.87 RCA 106.95 APO 151.81 V2 35.208
RC 104.596 GL -29.93 GP -3.90 ZAL 92.00 ZAP 123.28 ETS 358.42 ZAE 148.13 ETE 182.93 ZAC 116.08 ETC 14.92 CLP-123.37

PLANETOCENTRIC CONIC
C3 8.357 VHL 2.891 DLA -20.67 RAL 151.95 RAD 6567.3 VEL 11.391 PTH 1.97 VHP 3.250 DPA 11.04 RAP 151.38 ECC 1.1375

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 31 39	1320.81	7.48	349.84	2.30	117.39	7 53 40	720.8	11.09	343.02
90.00	13 35 3	5377.78	27.87	245.96	6.47	84.79	15 4 41	4777.8	26.86	237.44
100.00	8 39 20	1102.38	6.41	333.20	1.71	119.26	8 57 42	502.4	10.26	326.53
100.00	15 10 3	5071.45	29.09	223.27	6.32	82.78	16 34 35	4471.4	27.78	214.71
110.00	9 18 33	979.45	3.79	322.26	.10	124.00	9 34 53	379.4	8.23	315.99
110.00	16 47 19	4767.14	32.11	199.55	5.71	77.59	18 6 46	4167.1	30.07	190.93

DIFFERENTIAL CORRECTIONS
TDE -.9974 TRA -.0258 TC3-4.9127 BAU .5515
RDE -.0404 RRA .0419 RC3 -.4761 FAU .16406
FDE-4.0973 FRA 1.2266 FC-16.9956 BSP 10548
BDE .9983 BRA .0492 BC3 4.9357 FSP -3568

MID-COURSE EXECUTION ACCURACY
SGT 3461.1 SGR 300.1 SG3 1124.1
RRT .9006 RRF .9185 RTF .9732
SGB 3474.1 R23 .0938 R13 .9735
SG1 3471.6 SG2 130.0 THA 4.47

ORBIT DETERMINATION ACCURACY
ST 1978.8 SR 84.8 SS 2292.1
CRT .9452 CRS -.9731 CST -.9946
LSA 3025.2 MSA 157.5 SSA 6.5
EL1 1980.4 EL2 27.7 ALF 2.32

LAUNCH DATE JUN 6 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 13 1967

DISTANCE 445.229

HELIOCENTRIC CONIC
RL 151.81 LAL -.00 LOL 254.62 VL 26.866 GAL .43 AZL 93.13 HCA 201.44 SMA 129.26 ECC .17456 INC 3.1270 V1 29.349
RP 107.61 LAP 1.14 LOP 96.04 VP 37.946 GAP 2.85 AZP 87.09 TAL 177.99 TAP 19.43 RCA 106.70 APO 151.83 V2 35.216
RC 106.849 GL -30.15 GP -3.22 ZAL 90.64 ZAP 126.99 ETS 358.59 ZAE 145.66 ETE 182.01 ZAC 116.35 ETC 15.30 CLP-127.06

PLANETOCENTRIC CONIC
C3 8.513 VHL 2.918 DLA -21.43 RAL 153.18 RAD 6567.3 VEL 11.398 PTH 1.97 VHP 3.367 DPA 11.83 RAP 151.18 ECC 1.1401

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 45 46	1290.79	8.42	348.13	4.00	117.14	8 7 16	690.8	11.99	341.27
90.00	13 30 46	5414.76	28.07	248.65	8.24	86.13	15 1 1	4814.8	27.24	240.08
100.00	8 52 22	1075.81	7.29	331.72	3.39	119.07	9 10 18	475.8	11.11	325.01
100.00	15 6 51	5104.97	29.35	225.73	8.11	84.05	16 31 56	4505.0	28.21	217.11
110.00	9 29 40	958.91	4.57	321.19	1.72	123.91	9 45 39	358.9	9.00	314.89
110.00	16 46 2	4794.64	32.49	201.61	7.56	78.75	18 5 57	4194.6	30.60	192.90

DIFFERENTIAL CORRECTIONS
TDE-1.1073 TRA .0158 TC3-5.1666 BAU .5901
RDE -.0212 RRA .0436 RC3 -.4372 FAU .15277
FDE-3.9575 FRA 1.2550 FC-15.5362 BSP 11424
BDE 1.1075 BRA .0463 BC3 5.1851 FSP -3382

MID-COURSE EXECUTION ACCURACY
SGT 3717.4 SGR 274.4 SG3 1056.8
RRT .8461 RRF .8583 RTF .9748
SGB 3727.5 R23 .0606 R13 .9749
SG1 3724.7 SG2 146.0 THA 3.58

ORBIT DETERMINATION ACCURACY
ST 2176.4 SR 50.6 SS 2274.1
CRT .8326 CRS -.8804 CST -.9953
LSA 3144.3 MSA 155.1 SSA 7.7
EL1 2176.8 EL2 28.0 ALF 1.11

LAUNCH DATE JUN 6 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 15 1967

DISTANCE 451.428

HELIOCENTRIC CONIC
RL 151.81 LAL -.00 LOL 254.62 VL 26.847 GAL .58 AZL 93.17 HCA 204.68 SMA 129.13 ECC .17588 INC 3.1656 V1 29.349
RP 107.59 LAP 1.32 LOP 99.27 VP 37.939 GAP 3.23 AZP 87.12 TAL 177.26 TAP 21.94 RCA 106.42 APO 151.84 V2 35.223
RC 109.101 GL -30.23 GP -2.71 ZAL 89.19 ZAP 130.41 ETS 358.71 ZAE 143.42 ETE 181.48 ZAC 116.39 ETC 15.57 CLP-130.47

PLANETOCENTRIC CONIC
C3 8.670 VHL 2.944 DLA -22.10 RAL 154.57 RAD 6567.3 VEL 11.404 PTH 1.97 VHP 3.495 DPA 12.36 RAP 151.19 ECC 1.1427

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 59 51	1263.30	9.27	346.55	5.85	116.88	8 20 54	663.3	12.80	339.66
90.00	13 27 42	5449.16	28.21	251.15	10.12	87.38	14 58 32	4849.2	27.54	242.55
100.00	9 5 23	1051.79	8.08	330.37	5.21	118.88	9 22 55	451.8	11.87	323.64
100.00	15 4 52	5135.91	29.54	228.01	10.02	85.23	16 30 27	4535.9	28.57	219.34
110.00	9 40 50	940.69	5.27	320.23	3.49	123.82	9 56 30	340.7	9.67	313.91
110.00	16 45 54	4819.77	32.81	203.50	9.52	79.83	18 6 14	4219.8	31.06	194.71

DIFFERENTIAL CORRECTIONS
TDE-1.2104 TRA .0649 TC3-5.3971 BAU .6274
RDE -.0047 RRA .0463 RC3 -.4148 FAU .14236
FDE-3.7854 FRA 1.2868 FC-14.2156 BSP 12231
BDE 1.2104 BRA .0798 BC3 5.4130 FSP -3185

MID-COURSE EXECUTION ACCURACY
SGT 3958.3 SGR 263.1 SG3 991.3
RRT .7789 RRF .7868 RTF .9760
SGB 3967.0 R23 .0403 R13 .9761
SG1 3963.6 SG2 164.8 THA 2.97

ORBIT DETERMINATION ACCURACY
ST 2357.6 SR 31.4 SS 2238.7
CRT .3152 CRS -.3974 CST -.9957
LSA 3247.8 MSA 152.6 SSA 8.7
EL1 2357.7 EL2 29.8 ALF .24

LAUNCH DATE JUN 6 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 17 1967

DISTANCE 457.608

HELIOCENTRIC CONIC
RL 151.81 LAL -.00 LOL 254.62 VL 26.826 GAL .76 AZL 93.20 HCA 207.92 SMA 128.99 ECC .17734 INC 3.1959 V1 29.349
RP 107.57 LAP 1.50 LOP 102.51 VP 37.931 GAP 3.61 AZP 87.18 TAL 176.49 TAP 24.42 RCA 106.12 APO 151.87 V2 35.230
RC 111.351 GL -30.20 GP -2.33 ZAL 87.65 ZAP 133.59 ETS 358.80 ZAE 141.40 ETE 181.18 ZAC 116.22 ETC 15.74 CLP-133.63

PLANETOCENTRIC CONIC
C3 8.836 VHL 2.973 DLA -22.72 RAL 156.08 RAD 6567.3 VEL 11.412 PTH 1.98 VHP 3.630 DPA 12.70 RAP 151.40 ECC 1.1454

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 14 12	1237.27	10.06	345.06	7.84	116.61	8 34 50	637.3	13.56	338.12
90.00	13 25 28	5482.43	28.28	253.58	12.13	88.59	14 56 51	4882.4	27.79	244.95
100.00	9 18 38	1029.34	8.82	329.11	7.18	118.68	9 35 47	429.3	12.58	322.34
100.00	15 3 44	5165.60	29.69	230.20	12.06	86.38	16 29 50	4565.6	28.87	221.49
110.00	9 52 13	924.03	5.90	319.35	5.39	123.73	10 7 37	324.0	10.29	313.01
110.00	16 46 38	4843.67	33.08	205.31	11.62	80.87	18 7 22	4243.7	31.47	196.46

DIFFERENTIAL CORRECTIONS
TDE-1.3066 TRA .1248 TC3-5.5668 BAU .6593
RDE .0102 RRA .0500 RC3 -.3992 FAU .13105
FDE-3.5956 FRA 1.3314 FC-12.8406 BSP 12873
BDE 1.3067 BRA .1344 BC3 5.5811 FSP -2951

MID-COURSE EXECUTION ACCURACY
SGT 4167.0 SGR 260.0 SG3 922.7
RRT .7045 RRF .7081 RTF .9763
SGB 4175.1 R23 .0268 R13 .9763
SG1 4171.0 SG2 184.4 THA 2.52

ORBIT DETERMINATION ACCURACY
ST 2521.7 SR 37.6 SS 2190.7
CRT -.4869 CRS .4111 CST -.9960
LSA 3337.2 MSA 150.5 SSA 9.9
EL1 2521.8 EL2 32.9 ALF 179.58

LAUNCH DATE JUN 6 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 19 1967

HELIOCENTRIC CONIC DISTANCE 463.769

RL 151.81 LAL -.00 LOL 254.62 VL 26.804 GAL .94 AZL 93.22 HCA 211.17 SMA 128.84 ECC .17895 INC 3.2202 V1 29.349
RP 107.55 LAP 1.67 LOP 105.75 VP 37.921 GAP 3.99 AZP 87.24 TAL 175.68 TAP 26.85 RCA 105.79 APO 151.90 V2 35.236
RC 113.598 GL -30.09 GP -2.03 ZAL 86.04 ZAP 136.52 ETS 358.86 ZAE 139.59 ETE 181.00 ZAC 115.84 ETC 15.84 CLP-136.56

PLANETOCENTRIC CONIC

C3 9.018 VHL 3.003 DLA -23.29 RAL 157.72 RAD 6567.3 VEL 11.420 PTH 1.98 VHP 3.773 DPA 12.88 RAP 151.80 ECC 1.1484

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 28 56	1212.17	10.83	343.61	9.98	116.33	8 49 8	612.2	14.28	336.63
90.00	13 23 50	5515.36	28.32	255.99	14.26	89.80	14 55 45	4915.4	27.99	247.34
100.00	9 32 11	1008.03	9.51	327.91	9.28	118.47	9 48 59	408.0	13.24	321.11
100.00	15 3 16	5194.73	29.80	232.36	14.23	87.51	16 29 51	4594.7	29.13	223.62
110.00	10 3 53	908.63	6.48	318.54	7.44	123.64	10 19 1	308.6	10.85	312.18
110.00	16 48 3	4866.90	33.32	207.08	13.84	81.89	18 9 10	4266.9	31.84	198.16

DIFFERENTIAL CORRECTIONS
TDE-1.4005 TRA .1915 TC3-5.7135 BAU .6904
RDE .0237 RRA .0541 RC3 -.3896 FAU .12108
FDE-3.4121 FRA 1.3711 FC-11.6234 BSP 13548
BDE 1.4007 BRA .1990 BC3 5.7268 FSP -2763

MID-COURSE EXECUTION ACCURACY
SGT 4367.3 SGR 263.5 SG3 860.7
RRT .6316 RRF .6320 RTF .9765
SGB 4375.2 R23 .0179 R13 .9766
SG1 4370.5 SG2 204.1 THA 2.19

ORBIT DETERMINATION ACCURACY
ST 2676.7 SR 56.9 SS 2141.8
CRT -.7636 CRS .7079 CST -.9963
LSA 3425.3 MSA 148.4 SSA 11.0
EL1 2677.0 EL2 36.7 ALF 179.07

LAUNCH DATE JUN 6 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 21 1967

HELIOCENTRIC CONIC DISTANCE 469.909

RL 151.81 LAL -.00 LOL 254.62 VL 26.780 GAL 1.14 AZL 93.24 HCA 214.41 SMA 128.69 ECC .18071 INC 3.2403 V1 29.349
RP 107.53 LAP 1.83 LOP 108.99 VP 37.909 GAP 4.36 AZP 87.33 TAL 174.84 TAP 29.25 RCA 105.43 APO 151.94 V2 35.241
RC 115.842 GL -29.89 GP -1.78 ZAL 84.35 ZAP 139.25 ETS 358.90 ZAE 137.98 ETE 180.91 ZAC 115.27 ETC 15.87 CLP-139.28

PLANETOCENTRIC CONIC

C3 9.221 VHL 3.037 DLA -23.84 RAL 159.48 RAD 6567.3 VEL 11.429 PTH 1.98 VHP 3.923 DPA 12.93 RAP 152.39 ECC 1.1518

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 44 7	1187.68	11.56	342.18	12.26	116.03	9 3 55	587.7	14.97	335.16
90.00	13 22 37	5548.47	28.30	258.41	16.52	91.01	14 55 6	4948.5	28.14	249.75
100.00	9 46 5	987.64	10.17	326.76	11.53	118.26	10 2 33	387.6	13.87	319.92
100.00	15 3 20	5223.75	29.86	234.52	16.52	88.64	16 30 24	4623.7	29.36	225.75
110.00	10 15 51	894.32	7.02	317.78	9.62	123.54	10 30 45	294.3	11.38	311.40
110.00	16 50 4	4889.83	33.53	208.84	16.20	82.91	18 11 34	4289.8	32.18	199.87

DIFFERENTIAL CORRECTIONS
TDE-1.4911 TRA .2661 TC3-5.8194 BAU .7190
RDE .0366 RRA .0585 RC3 -.3821 FAU .11155
FDE-3.2335 FRA 1.4072 FC-10.4731 BSP 14144
BDE 1.4915 BRA .2724 BC3 5.8319 FSP -2576

MID-COURSE EXECUTION ACCURACY
SGT 4550.6 SGR 270.5 SG3 801.7
RRT .5625 RRF .5599 RTF .9766
SGB 4558.6 R23 .0112 R13 .9766
SG1 4553.1 SG2 223.5 THA 1.92

ORBIT DETERMINATION ACCURACY
ST 2820.2 SR 78.2 SS 2090.1
CRT -.8495 CRS .8046 CST -.9965
LSA 3508.0 MSA 146.2 SSA 12.1
EL1 2820.9 EL2 41.2 ALF 178.65

LAUNCH DATE JUN 6 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 23 1967

HELIOCENTRIC CONIC DISTANCE 476.030

RL 151.81 LAL -.00 LOL 254.62 VL 26.756 GAL 1.35 AZL 93.26 HCA 217.66 SMA 128.52 ECC .18262 INC 3.2575 V1 29.349
RP 107.52 LAP 1.99 LOP 112.24 VP 37.897 GAP 4.74 AZP 87.42 TAL 173.95 TAP 31.61 RCA 105.05 APO 151.99 V2 35.246
RC 118.080 GL -29.63 GP -1.59 ZAL 82.58 ZAP 141.79 ETS 358.91 ZAE 136.53 ETE 180.86 ZAC 114.53 ETC 15.86 CLP-141.81

PLANETOCENTRIC CONIC

C3 9.451 VHL 3.074 DLA -24.36 RAL 161.33 RAD 6567.3 VEL 11.439 PTH 1.98 VHP 4.079 DPA 12.88 RAP 153.15 ECC 1.1555

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 59 47	1163.68	12.27	340.78	14.68	115.72	9 19 10	563.7	15.64	333.72
90.00	13 21 45	5582.07	28.24	260.87	18.90	92.24	14 54 47	4982.1	28.25	252.20
100.00	10 0 22	968.11	10.80	325.65	13.92	118.04	10 16 30	368.1	14.46	318.78
100.00	15 3 51	5252.87	29.89	236.68	18.93	89.78	16 31 24	4652.9	29.54	227.89
110.00	10 28 6	881.11	7.51	317.08	11.94	123.45	10 42 47	281.1	11.86	310.68
110.00	16 52 36	4912.64	33.71	210.60	18.69	83.94	18 14 29	4312.6	32.50	201.57

DIFFERENTIAL CORRECTIONS
TDE-1.5803 TRA .3478 TC3-5.8928 BAU .7461
RDE .0489 RRA .0631 RC3 -.3756 FAU .10286
FDE-3.0673 FRA 1.4379 FC3-9.4224 BSP 14728
BDE 1.5811 BRA .3535 BC3 5.9048 FSP -2410

MID-COURSE EXECUTION ACCURACY
SGT 4723.2 SGR 279.9 SG3 747.7
RRT .4993 RRF .4939 RTF .9766
SGB 4731.5 R23 .0058 R13 .9766
SG1 4725.3 SG2 242.4 THA 1.70

ORBIT DETERMINATION ACCURACY
ST 2955.1 SR 99.3 SS 2039.6
CRT -.8844 CRS .8455 CST -.9967
LSA 3589.1 MSA 143.8 SSA 13.1
EL1 2956.4 EL2 46.3 ALF 178.30

LAUNCH DATE JUN 6 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 25 1967

HELIOCENTRIC CONIC DISTANCE 482.131

RL 151.81 LAL -.00 LOL 254.62 VL 26.730 GAL 1.57 AZL 93.27 HCA 220.90 SMA 128.35 ECC .18469 INC 3.2722 V1 29.349
RP 107.50 LAP 2.14 LOP 115.48 VP 37.882 GAP 5.11 AZP 87.53 TAL 173.04 TAP 33.94 RCA 104.65 APO 152.06 V2 35.250
RC 120.312 GL -29.30 GP -1.42 ZAL 80.75 ZAP 144.15 ETS 358.91 ZAE 135.23 ETE 180.85 ZAC 113.63 ETC 15.80 CLP-144.18

PLANETOCENTRIC CONIC

C3 9.712 VHL 3.116 DLA -24.85 RAL 163.28 RAD 6567.4 VEL 11.450 PTH 1.99 VHP 4.241 DPA 12.73 RAP 154.06 ECC 1.1598

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 15 55	1140.11	12.97	339.40	17.24	115.40	9 34 55	540.1	16.28	332.29
90.00	13 21 10	5616.34	28.12	263.37	21.40	93.49	14 54 46	5016.3	28.31	254.71
100.00	10 14 58	949.47	11.39	324.58	16.44	117.82	10 30 48	349.5	15.03	317.68
100.00	15 4 48	5282.21	29.88	238.86	21.48	90.93	16 32 50	4682.2	29.69	230.06
110.00	10 40 37	869.04	7.97	316.44	14.38	123.35	10 55 6	269.0	12.30	310.02
110.00	16 55 39	4935.40	33.86	212.36	21.31	84.97	18 17 54	4335.4	32.79	203.28

DIFFERENTIAL CORRECTIONS
TDE-1.6649 TRA .4404 TC3-5.9199 BAU .7701
RDE .0613 RRA .0680 RC3 -.3684 FAU .09454
FDE-2.9016 FRA 1.4723 FC3-8.4271 BSP 15203
BDE 1.6660 BRA .4456 BC3 5.9314 FSP -2241

MID-COURSE EXECUTION ACCURACY
SGT 4876.5 SGR 290.5 SG3 696.3
RRT .4413 RRF .4339 RTF .9764
SGB 4885.1 R23 .0019 R13 .9764
SG1 4878.2 SG2 260.6 THA 1.51

ORBIT DETERMINATION ACCURACY
ST 3074.6 SR 120.2 SS 1982.8
CRT -.9012 CRS .8655 CST -.9969
LSA 3657.7 MSA 142.1 SSA 14.0
EL1 3076.5 EL2 52.1 ALF 177.98

LAUNCH DATE JUN 6 1967 FLIGHT TIME 174.00 ARRIVAL DATE NOV 27 1967

DISTANCE 488.210

HELIOCENTRIC CONIC
RL 151.81 LAL -.00 LOL 254.62 VL 26.704 GAL 1.81 AZL 93.29 HCA 224.15 SMA 128.18 ECC .18692 INC 3.2852 V1 29.349
RP 107.49 LAP 2.29 LOP 118.73 VP 37.867 GAP 5.48 AZP 87.64 TAL 172.09 TAP 36.24 RCA 104.22 APO 152.14 V2 35.253
RC 122.538 GL -28.91 GP -1.29 ZAL 78.86 ZAP 146.36 ETS 358.89 ZAE 134.07 ETE 180.85 ZAC 112.60 ETC 15.71 CLP-146.38

PLANETOCENTRIC CONIC
C3 10.009 VHL 3.164 DLA -25.31 RAL 165.31 RAD 6567.4 VEL 11.463 PTH 1.99 VHP 4.408 DPA 12.50 RAP 155.10 ECC 1.1647

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 32 30	1117.03	13.64	338.03	19.94	115.06	9 51 7	517.0	16.90	330.88
90.00	13 20 49	5651.37	27.95	265.92	24.00	94.76	14 55 0	5051.4	28.31	257.27
100.00	10 29 51	931.86	11.95	323.57	19.08	117.61	10 45 23	331.9	15.55	316.64
100.00	15 6 9	5311.77	29.83	241.06	24.13	92.09	16 34 40	4711.8	29.80	232.25
110.00	10 53 19	858.25	8.37	315.86	16.95	123.26	11 7 37	258.3	12.69	309.43
110.00	16 59 10	4958.14	33.98	214.12	24.05	86.01	18 21 49	4358.1	33.05	205.00

DIFFERENTIAL CORRECTIONS
TOE-1.7503 TRA .5393 TC3-5.9238 BAU .7941
RDE .0737 RRA .0729 RC3 -.3606 FAU .08717
FDE-2.7521 FRA 1.4996 FC3-7.5395 BSP 15720
BDE 1.7518 BRA .5442 BC3 5.9348 FSP -2102

MID-COURSE EXECUTION ACCURACY
SGT 5026.4 SGR 301.9 SG3 650.2
RRT .3889 RRF .3795 RTF .9763
SGB 5035.4 R23 -.0014 R13 .9763
SG1 5027.7 SG2 278.1 THA 1.34

ORBIT DETERMINATION ACCURACY
ST 3188.4 SR 140.6 SS 1929.7
CRT -.9101 CRS .8767 CST -.9970
LSA 3726.9 MSA 140.5 SSA 14.9
EL1 3190.9 EL2 58.2 ALF 177.70

LAUNCH DATE JUN 6 1967 FLIGHT TIME 176.00 ARRIVAL DATE NOV 29 1967

DISTANCE 494.267

HELIOCENTRIC CONIC
RL 151.81 LAL -.00 LOL 254.62 VL 26.677 GAL 2.06 AZL 93.30 HCA 227.40 SMA 128.00 ECC .18932 INC 3.2967 V1 29.349
RP 107.49 LAP 2.43 LOP 121.97 VP 37.850 GAP 5.86 AZP 87.77 TAL 171.11 TAP 38.50 RCA 103.77 APO 152.23 V2 35.256
RC 124.755 GL -28.46 GP -1.17 ZAL 76.92 ZAP 148.44 ETS 358.85 ZAE 133.03 ETE 180.86 ZAC 111.43 ETC 15.59 CLP-148.46

PLANETOCENTRIC CONIC
C3 10.347 VHL 3.217 DLA -25.75 RAL 167.43 RAD 6567.4 VEL 11.478 PTH 2.00 VHP 4.580 DPA 12.20 RAP 156.27 ECC 1.1703

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 49 29	1094.53	14.28	336.69	22.77	114.71	10 7 44	494.5	17.50	329.50
90.00	13 20 40	5687.19	27.72	268.51	26.71	96.04	14 55 27	5087.2	28.26	259.89
100.00	10 44 57	915.44	12.46	322.63	21.85	117.39	11 0 12	315.4	16.04	315.66
100.00	15 7 53	5341.52	29.73	243.27	26.90	93.24	16 36 55	4741.5	29.86	234.46
110.00	11 6 9	848.90	8.72	315.36	19.63	123.18	11 20 18	248.9	13.03	308.91
110.00	17 3 10	4980.82	34.07	215.89	26.91	87.05	18 26 11	4380.8	33.29	206.73

DIFFERENTIAL CORRECTIONS
TOE-1.8336 TRA .6467 TC3-5.8916 BAU .8165
RDE .0863 RRA .0777 RC3 -.3513 FAU .08034
FDE-2.6110 FRA 1.5239 FC3-6.7216 BSP 16181
BDE 1.8357 BRA .6514 BC3 5.9020 FSP -1969

MID-COURSE EXECUTION ACCURACY
SGT 5164.2 SGR 313.5 SG3 607.3
RRT .3405 RRF .3294 RTF .9761
SGB 5173.7 R23 -.0044 R13 .9761
SG1 5165.3 SG2 294.7 THA 1.19

ORBIT DETERMINATION ACCURACY
ST 3290.5 SR 160.5 SS 1875.6
CRT -.9149 CRS .8831 CST -.9972
LSA 3788.3 MSA 139.2 SSA 15.7
EL1 3293.8 EL2 64.7 ALF 177.44

LAUNCH DATE JUN 6 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 1 1967

DISTANCE 500.302

HELIOCENTRIC CONIC
RL 151.81 LAL -.00 LOL 254.62 VL 26.649 GAL 2.33 AZL 93.31 HCA 230.64 SMA 127.81 ECC .19191 INC 3.3070 V1 29.349
RP 107.48 LAP 2.56 LOP 125.22 VP 37.832 GAP 6.24 AZP 87.90 TAL 170.10 TAP 40.74 RCA 103.29 APO 152.34 V2 35.258
RC 126.964 GL -27.96 GP -1.07 ZAL 74.94 ZAP 150.39 ETS 358.79 ZAE 132.10 ETE 180.88 ZAC 110.15 ETC 15.45 CLP-150.40

PLANETOCENTRIC CONIC
C3 10.733 VHL 3.276 DLA -26.15 RAL 169.60 RAD 6567.4 VEL 11.494 PTH 2.00 VHP 4.758 DPA 11.83 RAP 157.55 ECC 1.1766

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 6 48	1072.76	14.90	335.39	25.71	114.36	10 24 41	472.8	18.06	328.15
90.00	13 20 43	5723.80	27.43	271.15	29.52	97.33	14 56 7	5123.8	28.16	262.56
100.00	11 0 9	900.47	12.93	321.76	24.74	117.19	11 15 10	300.5	16.47	314.76
100.00	15 10 3	5371.32	29.60	245.47	29.77	94.40	16 39 35	4771.3	29.89	236.68
110.00	11 19 3	841.17	9.01	314.95	22.41	123.12	11 33 4	241.2	13.30	308.49
110.00	17 7 39	5003.39	34.14	217.65	29.89	88.09	18 31 2	4403.4	33.49	208.46

DIFFERENTIAL CORRECTIONS
TOE-1.9157 TRA .7639 TC3-5.8237 BAU .8371
RDE .0992 RRA .0825 RC3 -.3402 FAU .07395
FDE-2.4789 FRA 1.5482 FC3-5.9646 BSP 16622
BDE 1.9183 BRA .7684 BC3 5.8337 FSP -1847

MID-COURSE EXECUTION ACCURACY
SGT 5291.6 SGR 325.0 SG3 567.7
RRT .2955 RRF .2825 RTF .9759
SGB 5301.6 R23 -.0071 R13 .9759
SG1 5292.5 SG2 310.4 THA 1.04

ORBIT DETERMINATION ACCURACY
ST 3382.0 SR 180.3 SS 1821.4
CRT -.9173 CRS .8866 CST -.9973
LSA 3842.9 MSA 138.5 SSA 16.4
EL1 3386.0 EL2 71.7 ALF 177.20

LAUNCH DATE JUN 6 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 3 1967

DISTANCE 506.313

HELIOCENTRIC CONIC
RL 151.81 LAL -.00 LOL 254.62 VL 26.620 GAL 2.61 AZL 93.32 HCA 233.89 SMA 127.63 ECC .19467 INC 3.3165 V1 29.349
RP 107.48 LAP 2.68 LOP 128.47 VP 37.812 GAP 6.62 AZP 88.04 TAL 169.07 TAP 42.96 RCA 102.78 APO 152.47 V2 35.259
RC 129.165 GL -27.40 GP -.99 ZAL 72.92 ZAP 152.23 ETS 358.72 ZAE 131.27 ETE 180.90 ZAC 108.77 ETC 15.29 CLP-152.24

PLANETOCENTRIC CONIC
C3 11.172 VHL 3.342 DLA -26.52 RAL 171.84 RAD 6567.4 VEL 11.513 PTH 2.01 VHP 4.942 DPA 11.40 RAP 158.92 ECC 1.1839

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 24 22	1051.90	15.48	334.14	28.78	114.01	10 41 54	451.9	18.59	326.85
90.00	13 20 59	5761.10	27.07	273.83	32.41	98.63	14 57 0	5161.1	27.99	265.28
100.00	11 15 22	887.21	13.34	320.99	27.72	117.00	11 30 9	287.2	16.86	313.96
100.00	15 12 40	5401.02	29.42	247.66	32.74	95.54	16 42 41	4801.0	29.88	238.89
110.00	11 31 55	835.25	9.23	314.63	25.30	123.06	11 45 50	235.2	13.52	308.16
110.00	17 12 36	5025.75	34.17	219.39	32.97	89.12	18 36 22	4425.7	33.67	210.18

DIFFERENTIAL CORRECTIONS
TOE-1.9964 TRA .8902 TC3-5.7274 BAU .8569
RDE .1127 RRA .0870 RC3 -.3274 FAU .06815
FDE-2.3546 FRA 1.5701 FC3-5.2809 BSP 17033
BDE 1.9995 BRA .8945 BC3 5.7368 FSP -1735

MID-COURSE EXECUTION ACCURACY
SGT 5411.0 SGR 336.2 SG3 531.2
RRT .2534 RRF .2391 RTF .9757
SGB 5421.4 R23 -.0094 R13 .9757
SG1 5411.7 SG2 325.2 THA .91

ORBIT DETERMINATION ACCURACY
ST 3462.0 SR 199.7 SS 1766.2
CRT -.9183 CRS .8885 CST -.9974
LSA 3889.2 MSA 138.4 SSA 16.9
EL1 3466.9 EL2 79.0 ALF 176.97

LAUNCH DATE JUN 6 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 5 1967

HELIOCENTRIC CONIC DISTANCE 512.299

RL 151.81 LAL -.00 LOL 254.62 VL 26.590 GAL 2.91 AZL 93.33 HCA 237.14 SMA 127.43 ECC .19764 INC 3.3252 V1 29.349
RP 107.48 LAP 2.79 LOP 131.72 VP 37.792 GAP 7.01 AZP 88.19 TAL 168.01 TAP 45.15 RCA 102.25 APO 152.62 V2 35.259
RC 131.355 GL -26.80 GP -.91 ZAL 70.87 ZAP 153.97 ETS 358.64 ZAE 130.52 ETE 180.92 ZAC 107.29 ETC 15.13 CLP-153.98

PLANETOCENTRIC CONIC

C3 11.672 VHL 3.416 DLA -26.86 RAL 174.12 RAD 6567.4 VEL 11.535 PTH 2.01 VHP 5.131 DPA 10.92 RAP 160.38 ECC 1.1921

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 42 5	1032.19	16.02	332.94	31.94	113.67	10 59 18	432.2	19.09	325.61
90.00	13 21 27	5798.97	26.66	276.52	35.38	99.92	14 58 6	5199.0	27.76	268.03
100.00	11 30 27	875.98	13.69	320.34	30.80	116.84	11 45 3	276.0	17.18	313.29
100.00	15 15 46	5430.41	29.21	249.82	35.80	96.65	16 46 17	4830.4	29.82	241.07
110.00	11 44 40	831.34	9.37	314.42	28.27	123.02	11 58 31	231.3	13.65	307.94
110.00	17 18 3	5047.82	34.18	221.12	36.15	90.14	18 42 10	4447.8	33.82	211.89

DIFFERENTIAL CORRECTIONS
TDE-2.0727 TRA 1.0295 TC3-5.5897 BAU .8736
RDE .1269 RRA .0914 RC3 -.3126 FAU .06253
FDE-2.2333 FRA 1.5958 FC3-4.6380 BSP 17349
BDE 2.0765 BRA 1.0335 BC3 5.5985 FSP -1623

MID-COURSE EXECUTION ACCURACY
SGT 5515.0 SGR 347.0 SG3 496.9
RRT .2135 RRF .1981 RTF .9752
SGB 5525.9 R23 -.0112 R13 .9752
SG1 5515.5 SG2 339.0 THA .77

ORBIT DETERMINATION ACCURACY
ST 3526.1 SR 219.0 SS 1708.1
CRT -.9180 CRS .8886 CST -.9975
LSA 3921.6 MSA 139.6 SSA 17.3
EL1 3531.8 EL2 86.7 ALF 176.73

LAUNCH DATE JUN 6 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 7 1967

HELIOCENTRIC CONIC DISTANCE 518.260

RL 151.81 LAL -.00 LOL 254.62 VL 26.561 GAL 3.23 AZL 93.33 HCA 240.39 SMA 127.24 ECC .20082 INC 3.3333 V1 29.349
RP 107.48 LAP 2.90 LOP 134.97 VP 37.770 GAP 7.40 AZP 88.35 TAL 166.93 TAP 47.32 RCA 101.69 APO 152.79 V2 35.259
RC 133.537 GL -26.15 GP -.85 ZAL 68.81 ZAP 155.62 ETS 358.54 ZAE 129.84 ETE 180.94 ZAC 105.73 ETC 14.96 CLP-155.64

PLANETOCENTRIC CONIC

C3 12.239 VHL 3.498 DLA -27.15 RAL 176.43 RAD 6567.5 VEL 11.560 PTH 2.02 VHP 5.326 DPA 10.39 RAP 161.91 ECC 1.2014

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 59 49	1013.97	16.51	331.84	35.20	113.33	11 16 43	414.0	19.53	324.46
90.00	13 22 11	5837.17	26.18	279.22	38.42	101.19	14 59 28	5237.2	27.46	270.78
100.00	11 45 16	867.15	13.96	319.82	33.97	116.70	11 59 43	267.1	17.43	312.75
100.00	15 19 26	5459.22	28.96	251.93	38.94	97.74	16 50 25	4859.2	29.73	243.21
110.00	11 57 12	829.65	9.43	314.33	31.31	123.01	12 11 2	229.6	13.72	307.85
110.00	17 23 58	5069.49	34.17	222.81	39.42	91.14	18 48 28	4469.5	33.95	213.57

DIFFERENTIAL CORRECTIONS
TDE-2.1506 TRA 1.1761 TC3-5.4356 BAU .8907
RDE .1416 RRA .0953 RC3 -.2965 FAU .05756
FDE-2.1247 FRA 1.6158 FC3-4.0717 BSP 17709
BDE 2.1553 BRA 1.1799 BC3 5.4437 FSP -1528

MID-COURSE EXECUTION ACCURACY
SGT 5617.5 SGR 357.2 SG3 465.8
RRT .1753 RRF .1586 RTF .9750
SGB 5628.8 R23 -.0131 R13 .9750
SG1 5617.8 SG2 351.7 THA .64

ORBIT DETERMINATION ACCURACY
ST 3583.4 SR 237.9 SS 1653.5
CRT -.9173 CRS .8885 CST -.9976
LSA 3951.1 MSA 141.0 SSA 17.6
EL1 3590.0 EL2 94.6 ALF 176.51

LAUNCH DATE JUN 6 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 9 1967

HELIOCENTRIC CONIC DISTANCE 524.193

RL 151.81 LAL -.00 LOL 254.62 VL 26.530 GAL 3.57 AZL 93.34 HCA 243.64 SMA 127.04 ECC .20423 INC 3.3409 V1 29.349
RP 107.48 LAP 2.99 LOP 138.22 VP 37.748 GAP 7.80 AZP 88.52 TAL 165.84 TAP 49.47 RCA 101.10 APO 152.99 V2 35.257
RC 135.709 GL -25.46 GP -.79 ZAL 66.73 ZAP 157.20 ETS 358.43 ZAE 129.23 ETE 180.95 ZAC 104.09 ETC 14.79 CLP-157.21

PLANETOCENTRIC CONIC

C3 12.883 VHL 3.589 DLA -27.41 RAL 178.77 RAD 6567.5 VEL 11.587 PTH 2.03 VHP 5.528 DPA 9.82 RAP 163.51 ECC 1.2120

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 17 24	997.63	16.95	330.84	38.54	113.03	11 34 2	397.6	19.93	323.42
90.00	13 23 15	5875.40	25.65	281.89	41.52	102.43	15 1 11	5275.4	27.11	273.52
100.00	11 59 39	861.09	14.14	319.47	37.19	116.61	12 14 1	261.1	17.60	312.38
100.00	15 23 41	5487.17	28.69	253.96	42.16	98.77	16 55 8	4887.2	29.61	245.28
110.00	12 9 27	830.36	9.41	314.37	34.42	123.02	12 23 17	230.4	13.69	307.89
110.00	17 30 23	5090.67	34.13	224.46	42.77	92.12	18 55 14	4490.7	34.04	215.22

DIFFERENTIAL CORRECTIONS
TDE-2.2271 TRA 1.3333 TC3-5.2559 BAU .9065
RDE .1571 RRA .0988 RC3 -.2790 FAU .05292
FDE-2.0222 FRA 1.6360 FC3-3.5561 BSP 18049
BDE 2.2326 BRA 1.3369 BC3 5.2633 FSP -1440

MID-COURSE EXECUTION ACCURACY
SGT 5711.5 SGR 366.8 SG3 437.1
RRT .1383 RRF .1207 RTF .9746
SGB 5723.3 R23 -.0147 R13 .9746
SG1 5711.8 SG2 363.3 THA .51

ORBIT DETERMINATION ACCURACY
ST 3628.9 SR 256.5 SS 1598.7
CRT -.9161 CRS .8877 CST -.9977
LSA 3971.1 MSA 143.4 SSA 17.7
EL1 3636.5 EL2 102.6 ALF 176.29

LAUNCH DATE JUN 6 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 11 1967

HELIOCENTRIC CONIC DISTANCE 530.096

RL 151.81 LAL -.00 LOL 254.62 VL 26.499 GAL 3.92 AZL 93.35 HCA 246.88 SMA 126.85 ECC .20787 INC 3.3481 V1 29.349
RP 107.49 LAP 3.08 LOP 141.47 VP 37.724 GAP 8.21 AZP 88.68 TAL 164.72 TAP 51.61 RCA 100.48 APO 153.21 V2 35.255
RC 137.871 GL -24.74 GP -.74 ZAL 64.66 ZAP 158.70 ETS 358.30 ZAE 128.68 ETE 180.96 ZAC 102.39 ETC 14.62 CLP-158.71

PLANETOCENTRIC CONIC

C3 13.613 VHL 3.690 DLA -27.62 RAL 181.12 RAD 6567.5 VEL 11.619 PTH 2.04 VHP 5.737 DPA 9.20 RAP 165.17 ECC 1.2240

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 34 38	983.76	17.32	329.98	41.95	112.76	11 51 1	383.8	20.26	322.54
90.00	13 24 47	625.12	25.07	306.60	44.68	103.61	13 35 12	25.1	26.70	298.31
100.00	12 13 28	858.20	14.23	319.30	40.48	116.57	12 27 47	258.2	17.69	312.21
100.00	15 28 37	5513.95	28.40	255.90	45.45	99.75	17 0 31	4913.9	29.45	247.25
110.00	12 21 18	833.63	9.29	314.55	37.58	123.05	12 35 11	233.6	13.57	308.07
110.00	17 37 17	5111.29	34.06	226.07	46.19	93.07	19 2 28	4511.3	34.11	216.82

DIFFERENTIAL CORRECTIONS
TDE-2.3024 TRA 1.5010 TC3-5.0553 BAU .9213
RDE .1734 RRA .1017 RC3 -.2604 FAU .04864
FDE-1.9266 FRA 1.6545 FC3-3.0933 BSP 18371
BDE 2.3090 BRA 1.5045 BC3 5.0620 FSP -1360

MID-COURSE EXECUTION ACCURACY
SGT 5798.4 SGR 375.7 SG3 410.5
RRT .1022 RRF .0838 RTF .9744
SGB 5810.5 R23 -.0163 R13 .9744
SG1 5798.5 SG2 373.7 THA .38

ORBIT DETERMINATION ACCURACY
ST 3663.2 SR 274.6 SS 1544.6
CRT -.9146 CRS .8866 CST -.9978
LSA 3982.3 MSA 146.3 SSA 17.7
EL1 3671.8 EL2 110.8 ALF 176.07

LAUNCH DATE JUN 6 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 13 1967

HELIOCENTRIC CONIC DISTANCE 535.969

```
RL  151.81 LAL   -.00 LOL 254.62 VL  26.468 GAL   4.29 AZL  93.35 HCA 250.13 SMA 126.65 ECC .21178 INC 3.3549 V1  29.349
RP  107.50 LAP   3.16 LOP 144.72 VP  37.700 GAP   8.63 AZP  88.86 TAL 163.59 TAP  53.72 RCA  99.83 APO 153.47 V2  35.253
RC 140.023 GL  -23.98 GP    -.70 ZAL  62.59 ZAP 160.14 ETS 358.17 ZAE 128.18 ETE 180.96 ZAC 100.63 ETC  14.45 CLP-160.15
```

PLANETOCENTRIC CONIC

```
C3  14.441 VHL  3.800 DLA -27.79 RAL 183.47 RAD 6567.6 VEL 11.654 PTH   2.05 VHP  5.953 DPA   8.55 RAP 166.87 ECC 1.2377
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 51 12	973.14	17.60	329.33	45.41	112.55	12 7 25	373.1	20.50	321.86
90.00	13 26 58	661.70	24.46	309.10	47.88	104.73	13 38 0	61.7	26.25	300.89
100.00	12 26 34	858.85	14.21	319.34	43.80	116.58	12 40 52	258.8	17.67	312.25
100.00	15 34 18	5539.26	28.09	257.72	48.80	100.66	17 6 37	4939.3	29.28	249.11
110.00	12 32 41	839.59	9.06	314.87	40.78	123.10	12 46 41	239.6	13.36	308.40
110.00	17 44 39	5131.28	33.98	227.62	49.68	93.98	19 10 11	4531.3	34.16	218.38

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-2.3729 TRA 1.6841 TC3-4.8256 BAU  .9328   SGT 5872.8 SGR  383.9 SG3  385.5          ST  3681.4 SR   292.2 SS  1488.3
 RDE  .1905 RRA  .1039 RC3 -.2409 FAU .04447   RRT  .0675 RRF  .0487 RTF  .9739          CRT -.9123 CRS  .8845 CST -.9979
 FDE-1.8326 FRA 1.6770 FC3-2.6658 BSP  18574   SGB 5885.3 R23 -.0173 R13  .9739          LSA 3978.7 MSA  150.4 SSA   17.6
 BDE 2.3805 BRA 1.6873 BC3 4.8316 FSP  -1276   SG1 5872.8 SG2  383.0 THA    .25          EL1 3691.1 EL2  119.3 ALF 175.85
```

LAUNCH DATE JUN 6 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 15 1967

HELIOCENTRIC CONIC DISTANCE 541.807

```
RL  151.81 LAL   -.00 LOL 254.62 VL  26.437 GAL   4.69 AZL  93.36 HCA 253.38 SMA 126.44 ECC .21596 INC 3.3614 V1  29.349
RP  107.51 LAP   3.22 LOP 147.98 VP  37.675 GAP   9.05 AZP  89.04 TAL 162.45 TAP  55.83 RCA  99.14 APO 153.75 V2  35.249
RC 142.165 GL  -23.20 GP    -.66 ZAL  60.54 ZAP 161.53 ETS 358.02 ZAE 127.72 ETE 180.97 ZAC  98.82 ETC  14.29 CLP-161.54
```

PLANETOCENTRIC CONIC

```
C3  15.378 VHL  3.922 DLA -27.92 RAL 185.81 RAD 6567.6 VEL 11.695 PTH   2.06 VHP  6.178 DPA   7.86 RAP 168.62 ECC 1.2531
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 6 43	967.00	17.76	328.95	48.89	112.42	12 22 50	367.0	20.65	321.46
90.00	13 30 8	695.94	23.85	311.42	51.14	105.74	13 41 44	95.9	25.78	303.29
100.00	12 38 46	863.38	14.07	319.60	47.14	116.65	12 53 9	263.4	17.54	312.52
100.00	15 40 46	5562.82	27.78	259.40	52.20	101.50	17 13 29	4962.8	29.09	250.84
110.00	12 43 33	848.36	8.74	315.33	44.01	123.18	12 57 41	248.4	13.04	308.88
110.00	17 52 29	5150.62	33.88	229.12	53.22	94.87	19 18 19	4550.6	34.18	219.89

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-2.4461 TRA 1.8752 TC3-4.5913 BAU  .9450   SGT 5945.9 SGR  391.4 SG3  362.7          ST  3694.5 SR   309.0 SS  1435.9
 RDE  .2084 RRA  .1054 RC3 -.2210 FAU .04076   RRT  .0327 RRF  .0136 RTF  .9736          CRT -.9102 CRS  .8826 CST -.9980
 FDE-1.7486 FRA 1.6953 FC3-2.2946 BSP  18858   SGB 5958.7 R23 -.0184 R13  .9736          LSA 3972.7 MSA  154.7 SSA   17.4
 BDE 2.4549 BRA 1.8782 BC3 4.5966 FSP  -1207   SG1 5945.9 SG2  391.2 THA    .12          EL1 3705.2 EL2  127.6 ALF 175.64
```

LAUNCH DATE JUN 6 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 17 1967

HELIOCENTRIC CONIC DISTANCE 547.608

```
RL  151.81 LAL   -.00 LOL 254.62 VL  26.405 GAL   5.11 AZL  93.37 HCA 256.62 SMA 126.24 ECC .22044 INC 3.3677 V1  29.349
RP  107.52 LAP   3.28 LOP 151.23 VP  37.648 GAP   9.49 AZP  89.22 TAL 161.30 TAP  57.92 RCA  98.41 APO 154.07 V2  35.245
RC 144.295 GL  -22.40 GP    -.63 ZAL  58.51 ZAP 162.86 ETS 357.85 ZAE 127.31 ETE 180.96 ZAC  96.96 ETC  14.14 CLP-162.87
```

PLANETOCENTRIC CONIC

```
C3  16.440 VHL  4.055 DLA -28.00 RAL 188.13 RAD 6567.7 VEL 11.740 PTH   2.07 VHP  6.412 DPA   7.14 RAP 170.41 ECC 1.2706
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 20 39	966.92	17.76	328.94	52.38	112.42	12 36 46	366.9	20.65	321.46
90.00	13 34 44	726.30	23.27	313.46	54.46	106.60	13 46 50	126.3	25.33	305.40
100.00	12 49 59	872.06	13.81	320.11	50.50	116.78	13 4 31	272.1	17.29	313.05
100.00	15 48 5	5584.43	27.48	260.93	55.66	102.25	17 21 9	4984.4	28.89	252.41
110.00	12 53 50	859.97	8.30	315.95	47.26	123.28	13 8 10	260.0	12.63	309.52
110.00	18 0 43	5169.29	33.76	230.57	56.81	95.72	19 26 53	4569.3	34.18	221.35

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-2.5176 TRA 2.0792 TC3-4.3438 BAU  .9557   SGT 6011.5 SGR  398.0 SG3  341.6          ST  3696.6 SR   325.1 SS  1384.5
 RDE  .2272 RRA  .1060 RC3 -.2010 FAU .03728   RRT -.0015 RRF -.0208 RTF  .9734          CRT -.9078 CRS  .8805 CST -.9980
 FDE-1.6697 FRA 1.7140 FC3-1.9634 BSP  19114   SGB 6024.7 R23  .0193 R13 -.9734          LSA 3957.5 MSA  159.4 SSA   17.1
 BDE 2.5278 BRA 2.0819 BC3 4.3484 FSP  -1142   SG1 6011.5 SG2  398.0 THA 179.99          EL1 3708.4 EL2  136.0 ALF 175.43
```

LAUNCH DATE JUN 6 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 19 1967

HELIOCENTRIC CONIC DISTANCE 553.369

```
RL  151.81 LAL   -.00 LOL 254.62 VL  26.373 GAL   5.55 AZL  93.37 HCA 259.87 SMA 126.04 ECC .22526 INC 3.3739 V1  29.349
RP  107.53 LAP   3.32 LOP 154.48 VP  37.621 GAP   9.94 AZP  89.41 TAL 160.13 TAP  60.00 RCA  97.65 APO 154.43 V2  35.240
RC 146.414 GL  -21.58 GP    -.59 ZAL  56.51 ZAP 164.15 ETS 357.67 ZAE 126.93 ETE 180.95 ZAC  95.05 ETC  14.00 CLP-164.16
```

PLANETOCENTRIC CONIC

```
C3  17.641 VHL  4.200 DLA -28.04 RAL 190.43 RAD 6567.7 VEL 11.791 PTH   2.08 VHP  6.656 DPA   6.39 RAP 172.23 ECC 1.2903
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 32 22	974.79	17.56	329.43	55.83	112.58	12 48 36	374.8	20.47	321.96
90.00	13 41 18	750.94	22.78	315.10	57.85	107.29	13 53 49	150.9	24.94	307.09
100.00	13 0 7	885.02	13.41	320.86	53.85	116.97	13 14 52	285.0	16.92	313.83
100.00	15 56 14	5603.98	27.19	262.31	59.16	102.92	17 29 38	5004.0	28.70	253.84
110.00	13 3 29	874.45	7.76	316.73	50.51	123.39	13 18 3	274.4	12.10	310.32
110.00	18 9 21	5187.32	33.63	231.96	60.44	96.53	19 35 48	4587.3	34.17	222.76

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-2.5886 TRA 2.2959 TC3-4.0876 BAU  .9650   SGT 6070.6 SGR  404.0 SG3  321.9          ST  3689.6 SR   340.3 SS  1334.8
 RDE  .2468 RRA  .1056 RC3 -.1812 FAU .03404   RRT -.0356 RRF -.0547 RTF  .9731          CRT -.9051 CRS  .8781 CST -.9981
 FDE-1.5960 FRA 1.7327 FC3-1.6705 BSP  19352   SGB 6084.0 R23  .0200 R13 -.9731          LSA 3934.9 MSA  164.6 SSA   16.7
 BDE 2.6004 BRA 2.2983 BC3 4.0916 FSP  -1081   SG1 6070.6 SG2  403.7 THA 179.86          EL1 3702.5 EL2  144.2 ALF 175.22
```

```
LAUNCH DATE  JUN  6 1967                                FLIGHT TIME 198.00                                ARRIVAL DATE  DEC 21 1967

  HELIOCENTRIC CONIC                                    DISTANCE 559.087
   RL  151.81 LAL   -.00 LOL 254.62 VL  26.341 GAL   6.02 AZL  93.38 HCA 263.11 SMA 125.84 ECC .23042 INC 3.3800 V1  29.349
   RP  107.55 LAP   3.36 LOP 157.73 VP  37.594 GAP  10.41 AZP  89.59 TAL 158.96 TAP  62.08 RCA  96.84 APO 154.84 V2  35.234
   RC 148.521 GL  -20.75 GP    -.57 ZAL  54.55 ZAP 165.40 ETS 357.47 ZAE 126.57 ETE 180.94 ZAC  93.12 ETC  13.86 CLP-165.42
  PLANETOCENTRIC CONIC
   C3  19.002 VHL  4.359 DLA -28.05 RAL 192.68 RAD 6567.8 VEL 11.848 PTH   2.10 VHP  6.911 DPA   5.62 RAP 174.07 ECC 1.3127
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00    12 41 27    991.87      17.11     330.48      59.23      112.92   12 57 59     391.9      20.06     323.06
      90.00    13 50 12    768.64      22.42     316.27      61.32      107.76   14  3  0     168.6      24.64     308.31
     100.00    13  9  8    902.30      12.87     321.87      57.18      117.21   13 24 11     302.3      16.42     314.87
     100.00    16  5 11   5621.49      26.92     263.54      62.71      103.52   17 38 52    5021.5      28.51     255.10
     110.00    13 12 29    891.78       7.11     317.65      53.76      123.52   13 27 21     291.8      11.47     311.26
     110.00    18 18 19   5204.77      33.49     233.30      64.11       97.31   19 45  4    4604.8      34.13     224.12
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TOE-2.6549 TRA 2.5301 TC3-3.8167 BAU  .9705      SGT 6119.4 SGR  409.1 SG3  303.5       ST  3669.5 SR   354.4 SS  1284.4
   RDE  .2673 RRA  .1041 RC3 -.1618 FAU .03084      RRT -.0687 RRF -.0873 RTF  .9728       CRT -.9019 CRS  .8749 CST -.9982
   FDE-1.5237 FRA 1.7547 FC3-1.4050 BSP  19480      SGB 6133.1 R23  .0202 R13 -.9728       LSA 3900.1 MSA  170.4 SSA   16.4
   BDE 2.6683 BRA 2.5322 BC3 3.8202 FSP  -1018      SG1 6119.5 SG2  408.1 THA 179.74       EL1 3683.4 EL2  152.5 ALF 175.01

LAUNCH DATE  JUN  6 1967                                FLIGHT TIME 200.00                                ARRIVAL DATE  DEC 23 1967

  HELIOCENTRIC CONIC                                    DISTANCE 564.755
   RL  151.81 LAL   -.00 LOL 254.62 VL  26.309 GAL   6.51 AZL  93.39 HCA 266.36 SMA 125.64 ECC .23598 INC 3.3859 V1  29.349
   RP  107.57 LAP   3.38 LOP 160.97 VP  37.565 GAP  10.90 AZP  89.78 TAL 157.79 TAP  64.15 RCA  95.99 APO 155.28 V2  35.228
   RC 150.615 GL  -19.91 GP    -.54 ZAL  52.63 ZAP 166.62 ETS 357.25 ZAE 126.24 ETE 180.93 ZAC  91.15 ETC  13.75 CLP-166.63
  PLANETOCENTRIC CONIC
   C3  20.544 VHL  4.533 DLA -28.01 RAL 194.89 RAD 6567.8 VEL 11.913 PTH   2.12 VHP  7.179 DPA   4.83 RAP 175.94 ECC 1.3381
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00    12 47 55   1017.97      16.41     332.08      62.56      113.41   13  4 53     418.0      19.44     324.71
      90.00    14  1 19    779.60      22.19     317.00      64.88      108.05   14 14 18     179.6      24.45     309.06
     100.00    13 17  3    923.78      12.20     323.11      60.50      117.50   13 32 27     323.8      15.79     316.15
     100.00    16 14 53   5637.06      26.67     264.63      66.29      104.04   17 48 50    5037.1      28.33     256.23
     110.00    13 20 50    911.90       6.35     318.71      57.00      123.66   13 36  2     311.9      10.73     312.36
     110.00    18 27 35   5221.71      33.33     234.60      67.80       98.07   19 54 37    4621.7      34.09     225.44
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TOE-2.7251 TRA 2.7746 TC3-3.5532 BAU  .9767      SGT 6166.3 SGR  413.4 SG3  286.6       ST  3646.4 SR   367.3 SS  1238.6
   RDE  .2885 RRA  .1015 RC3 -.1431 FAU .02801      RRT -.1024 RRF -.1204 RTF  .9726       CRT -.8989 CRS  .8721 CST -.9982
   FDE-1.4600 FRA 1.7741 FC3-1.1802 BSP  19688      SGB 6180.1 R23  .0205 R13 -.9727       LSA 3864.5 MSA  175.9 SSA   16.0
   BDE 2.7403 BRA 2.7764 BC3 3.5561 FSP   -966      SG1 6166.4 SG2  411.2 THA 179.60       EL1 3661.4 EL2  160.3 ALF 174.82

LAUNCH DATE  JUN  6 1967                                FLIGHT TIME 202.00                                ARRIVAL DATE  DEC 25 1967

  HELIOCENTRIC CONIC                                    DISTANCE 570.369
   RL  151.81 LAL   -.00 LOL 254.62 VL  26.276 GAL   7.04 AZL  93.39 HCA 269.60 SMA 125.44 ECC .24196 INC 3.3918 V1  29.349
   RP  107.59 LAP   3.39 LOP 164.22 VP  37.536 GAP  11.40 AZP  89.98 TAL 156.62 TAP  66.21 RCA  95.09 APO 155.78 V2  35.221
   RC 152.696 GL  -19.07 GP    -.52 ZAL  50.75 ZAP 167.81 ETS 357.01 ZAE 125.94 ETE 180.91 ZAC  89.15 ETC  13.64 CLP-167.82
  PLANETOCENTRIC CONIC
   C3  22.293 VHL  4.722 DLA -27.93 RAL 197.04 RAD 6567.9 VEL 11.986 PTH   2.14 VHP  7.461 DPA   4.02 RAP 177.84 ECC 1.3669
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00    12 52 17   1051.41      15.49     334.11      65.82      114.00   13  9 49     451.4      18.61     326.82
      90.00    14 14  7    785.50      22.07     317.38      68.50      108.21   14 27 13     185.5      24.35     309.46
     100.00    13 23 53    949.24      11.40     324.57      63.78      117.82   13 39 42     349.2      15.03     317.67
     100.00    16 25 12   5650.95      26.43     265.60      69.91      104.49   17 59 23    5051.0      28.16     257.22
     110.00    13 28 30    934.72       5.49     319.91      60.22      123.79   13 44  5     334.7       9.89     313.59
     110.00    18 37  5   5238.23      33.17     235.86      71.51       98.79   20  4 23    4638.2      34.03     226.73
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TOE-2.7950 TRA 3.0347 TC3-3.2882 BAU  .9807      SGT 6206.4 SGR  417.0 SG3  270.8       ST  3616.1 SR   378.9 SS  1194.7
   RDE  .3105 RRA  .0975 RC3 -.1254 FAU .02531      RRT -.1360 RRF -.1531 RTF  .9726       CRT -.8957 CRS  .8692 CST -.9983
   FDE-1.4003 FRA 1.7947 FC3 -.9830 BSP  19875      SGB 6220.4 R23  .0205 R13 -.9726       LSA 3822.9 MSA  181.4 SSA   15.6
   BDE 2.8122 BRA 3.0363 BC3 3.2906 FSP   -917      SG1 6206.7 SG2  413.1 THA 179.47       EL1 3632.1 EL2  167.7 ALF 174.63

LAUNCH DATE  JUN  6 1967                                FLIGHT TIME 204.00                                ARRIVAL DATE  DEC 27 1967

  HELIOCENTRIC CONIC                                    DISTANCE 575.922
   RL  151.81 LAL   -.00 LOL 254.62 VL  26.244 GAL   7.60 AZL  93.40 HCA 272.84 SMA 125.23 ECC .24840 INC 3.3977 V1  29.349
   RP  107.62 LAP   3.39 LOP 167.47 VP  37.506 GAP  11.93 AZP  90.17 TAL 155.45 TAP  68.28 RCA  94.13 APO 156.34 V2  35.214
   RC 154.762 GL  -18.23 GP    -.50 ZAL  48.93 ZAP 168.97 ETS 356.73 ZAE 125.64 ETE 180.88 ZAC  87.13 ETC  13.56 CLP-168.98
  PLANETOCENTRIC CONIC
   C3  24.278 VHL  4.927 DLA -27.82 RAL 199.13 RAD 6568.0 VEL 12.069 PTH   2.16 VHP  7.758 DPA   3.19 RAP 179.74 ECC 1.3996
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00    12 55  8   1090.21      14.40     336.44      69.03      114.65   13 13 18     490.2      17.61     329.23
      90.00    14 27 58    788.32      22.01     317.57      72.17      108.28   14 41  7     188.3      24.30     309.65
     100.00    13 29 44    978.36      10.47     326.23      67.03      118.16   13 46  2     378.4      14.15     319.38
     100.00    16 36  3   5663.45      26.22     266.46      73.55      104.90   18 10 27    5063.5      28.01     258.12
     110.00    13 35 32    960.13       4.53     321.25      63.43      123.92   13 51 32     360.1       8.95     314.95
     110.00    18 46 45   5254.44      32.99     237.10      75.23       99.50   20 14 19    4654.4      33.95     227.99
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TOE-2.8652 TRA 3.3112 TC3-3.0250 BAU  .9825      SGT 6240.3 SGR  419.8 SG3  256.2       ST  3579.7 SR   389.2 SS  1153.
   RDE  .3332 RRA  .0922 RC3 -.1087 FAU .02276      RRT -.1694 RRF -.1854 RTF  .9725       CRT -.8923 CRS  .8660 CST -.9984
   FDE-1.3448 FRA 1.8165 FC3 -.8117 BSP  20036      SGB 6254.4 R23  .0202 R13 -.9726       LSA 3776.2 MSA  186.9 SSA   15.2
   BDE 2.8845 BRA 3.3125 BC3 3.0270 FSP   -870      SG1 6240.7 SG2  413.7 THA 179.34       EL1 3596.5 EL2  174.8 ALF 174.45
```

LAUNCH DATE JUN 6 1967 FLIGHT TIME 206.00 ARRIVAL DATE DEC 29 1967

HELIOCENTRIC CONIC DISTANCE 581.408
RL 151.81 LAL -.00 LOL 254.62 VL 26.212 GAL 8.19 AZL 93.40 HCA 276.08 SMA 125.03 ECC .25536 INC 3.4036 V1 29.349
RP 107.64 LAP 3.38 LOP 170.71 VP 37.476 GAP 12.49 AZP 90.36 TAL 154.28 TAP 70.36 RCA 93.11 APO 156.96 V2 35.205
RC 156.813 GL -17.40 GP -.48 ZAL 47.16 ZAP 170.11 ETS 356.42 ZAE 125.36 ETE 180.85 ZAC 85.10 ETC 13.49 CLP-170.13

PLANETOCENTRIC CONIC
C3 26.535 VHL 5.151 DLA -27.68 RAL 201.16 RAD 6568.1 VEL 12.162 PTH 2.18 VHP 8.072 DPA 2.34 RAP 181.67 ECC 1.4367

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 56 55	1132.77	13.18	338.96	72.18	115.29	13 15 48	532.8	16.48	331.84
90.00	14 42 21	789.63	21.98	317.65	75.87	108.32	14 55 31	189.6	24.28	309.74
100.00	13 34 40	1010.78	9.42	328.07	70.24	118.50	13 51 30	410.8	13.16	321.27
100.00	16 47 18	5674.90	26.01	267.25	77.20	105.27	18 21 52	5074.9	27.86	258.94
110.00	13 41 55	987.99	3.47	322.71	66.60	124.03	13 58 23	388.0	7.91	316.44
110.00	18 56 32	5270.45	32.80	238.31	78.96	100.20	20 24 22	4670.4	33.86	229.23

DIFFERENTIAL CORRECTIONS
TDE-2.9317 TRA 3.6094 TC3-2.7597 BAU .9796
RDE .3565 RRA .0852 RC3 -.0934 FAU .02024
FDE-1.2910 FRA 1.8419 FC3 -.6604 BSP 20080
BDE 2.9533 BRA 3.6104 BC3 2.7613 FSP -821

MID-COURSE EXECUTION ACCURACY
SGT 6266.5 SGR 421.8 SG3 242.5
RRT -.2022 RRF -.2166 RTF .9726
SGB 6280.7 R23 .0195 R13 -.9726
SG1 6267.1 SG2 413.1 THA 179.22

ORBIT DETERMINATION ACCURACY
ST 3534.2 SR 397.9 SS 1112.4
CRT -.8884 CRS .8621 CST -.9984
LSA 3721.4 MSA 192.4 SSA 14.8
EL1 3551.9 EL2 181.7 ALF 174.27

LAUNCH DATE JUN 6 1967 FLIGHT TIME 208.00 ARRIVAL DATE DEC 31 1967

HELIOCENTRIC CONIC DISTANCE 586.816
RL 151.81 LAL -.00 LOL 254.62 VL 26.180 GAL 8.82 AZL 93.41 HCA 279.31 SMA 124.84 ECC .26289 INC 3.4097 V1 29.349
RP 107.67 LAP 3.36 LOP 173.95 VP 37.445 GAP 13.07 AZP 90.55 TAL 153.12 TAP 72.44 RCA 92.02 APO 157.65 V2 35.197
RC 158.850 GL -16.57 GP -.46 ZAL 45.46 ZAP 171.24 ETS 356.05 ZAE 125.09 ETE 180.82 ZAC 83.05 ETC 13.44 CLP-171.25

PLANETOCENTRIC CONIC
C3 29.105 VHL 5.395 DLA -27.51 RAL 203.11 RAD 6568.2 VEL 12.267 PTH 2.21 VHP 8.406 DPA 1.49 RAP 183.60 ECC 1.4790

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 57 58	1178.01	11.85	341.62	75.29	115.91	13 17 36	578.0	15.24	334.58
90.00	14 56 55	790.46	21.96	317.71	79.58	108.34	15 10 5	190.5	24.26	309.79
100.00	13 38 46	1046.14	8.27	330.06	73.40	118.83	13 56 12	446.1	12.05	323.31
100.00	16 58 47	5685.60	25.82	267.99	80.86	105.61	18 33 33	5085.6	27.71	259.70
110.00	13 47 40	1018.16	2.32	324.29	69.75	124.11	14 4 39	418.2	6.78	318.04
110.00	19 6 22	5286.35	32.61	239.51	82.69	100.88	20 34 28	4686.3	33.76	230.46

DIFFERENTIAL CORRECTIONS
TDE-3.0053 TRA 3.9207 TC3-2.5092 BAU .9769
RDE .3805 RRA .0767 RC3 -.0793 FAU .01799
FDE-1.2447 FRA 1.8659 FC3 -.5350 BSP 20237
BDE 3.0293 BRA 3.9214 BC3 2.5105 FSP -782

MID-COURSE EXECUTION ACCURACY
SGT 6289.3 SGR 423.2 SG3 229.8
RRT -.2358 RRF -.2486 RTF .9728
SGB 6303.5 R23 .0188 R13 -.9728
SG1 6290.1 SG2 411.2 THA 179.09

ORBIT DETERMINATION ACCURACY
ST 3489.6 SR 405.1 SS 1076.5
CRT -.8849 CRS .8589 CST -.9985
LSA 3668.9 MSA 197.1 SSA 14.4
EL1 3508.0 EL2 187.7 ALF 174.12

LAUNCH DATE JUN 6 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 2 1968

HELIOCENTRIC CONIC DISTANCE 592.136
RL 151.81 LAL -.00 LOL 254.62 VL 26.148 GAL 9.50 AZL 93.42 HCA 282.55 SMA 124.64 ECC .27104 INC 3.4158 V1 29.349
RP 107.70 LAP 3.33 LOP 177.20 VP 37.414 GAP 13.69 AZP 90.74 TAL 151.98 TAP 74.53 RCA 90.86 APO 158.42 V2 35.187
RC 160.871 GL -15.75 GP -.45 ZAL 43.81 ZAP 172.35 ETS 355.60 ZAE 124.82 ETE 180.79 ZAC 80.99 ETC 13.41 CLP-172.37

PLANETOCENTRIC CONIC
C3 32.039 VHL 5.660 DLA -27.30 RAL 204.99 RAD 6568.3 VEL 12.386 PTH 2.24 VHP 8.762 DPA .62 RAP 185.54 ECC 1.5273

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 58 27	1225.21	10.43	344.36	78.35	116.48	13 18 53	625.2	13.90	337.41
90.00	15 11 25	791.46	21.94	317.77	83.28	108.37	15 24 37	191.5	24.25	309.86
100.00	13 42 8	1084.09	7.01	332.18	76.53	119.13	14 0 12	484.1	10.85	325.49
100.00	17 10 26	5695.85	25.63	268.69	84.53	105.93	18 45 22	5095.9	27.57	260.43
110.00	13 52 50	1050.47	1.08	325.97	72.87	124.17	14 10 21	450.5	5.56	319.75
110.00	19 16 13	5302.24	32.40	240.70	86.42	101.56	20 44 35	4702.2	33.65	231.69

DIFFERENTIAL CORRECTIONS
TDE-3.0800 TRA 4.2529 TC3-2.2650 BAU .9706
RDE .4051 RRA .0663 RC3 -.0666 FAU .01582
FDE-1.2018 FRA 1.8923 FC3 -.4276 BSP 20359
BDE 3.1065 BRA 4.2534 BC3 2.2660 FSP -744

MID-COURSE EXECUTION ACCURACY
SGT 6306.0 SGR 423.8 SG3 217.9
RRT -.2691 RRF -.2803 RTF .9731
SGB 6320.2 R23 .0179 R13 -.9732
SG1 6307.0 SG2 408.1 THA 178.96

ORBIT DETERMINATION ACCURACY
ST 3440.6 SR 410.7 SS 1043.0
CRT -.8813 CRS .8556 CST -.9986
LSA 3613.0 MSA 201.4 SSA 13.9
EL1 3459.7 EL2 193.0 ALF 173.98

LAUNCH DATE JUN 6 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 4 1968

HELIOCENTRIC CONIC DISTANCE 597.355
RL 151.81 LAL -.00 LOL 254.62 VL 26.116 GAL 10.23 AZL 93.42 HCA 285.78 SMA 124.44 ECC .27990 INC 3.4220 V1 29.349
RP 107.73 LAP 3.29 LOP 180.43 VP 37.383 GAP 14.35 AZP 90.93 TAL 150.86 TAP 76.64 RCA 89.61 APO 159.28 V2 35.178
RC 162.878 GL -14.94 GP -.43 ZAL 42.23 ZAP 173.46 ETS 355.04 ZAE 124.55 ETE 180.75 ZAC 78.92 ETC 13.40 CLP-173.47

PLANETOCENTRIC CONIC
C3 35.396 VHL 5.949 DLA -27.07 RAL 206.80 RAD 6568.4 VEL 12.521 PTH 2.27 VHP 9.143 DPA -.24 RAP 187.48 ECC 1.5825

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 58 31	1273.91	8.94	347.16	81.37	116.98	13 19 45	673.9	12.49	340.28
90.00	15 25 44	793.02	21.91	317.88	86.98	108.41	15 38 57	193.0	24.22	309.97
100.00	13 44 50	1124.30	5.67	334.41	79.61	119.40	14 3 34	524.3	9.55	327.77
100.00	17 22 6	5705.90	25.44	269.38	88.18	106.25	18 57 12	5105.9	27.42	261.14
110.00	13 57 25	1084.78	-.23	327.76	75.95	124.18	14 15 30	484.8	4.26	321.55
110.00	19 26 0	5318.19	32.17	241.89	90.13	102.23	20 54 39	4718.2	33.52	232.92

DIFFERENTIAL CORRECTIONS
TDE-3.1575 TRA 4.6070 TC3-2.0296 BAU .9608
RDE .4303 RRA .0541 RC3 -.0553 FAU .01376
FDE-1.1629 FRA 1.9209 FC3 -.3365 BSP 20461
BDE 3.1866 BRA 4.6073 BC3 2.0304 FSP -707

MID-COURSE EXECUTION ACCURACY
SGT 6317.1 SGR 423.6 SG3 206.8
RRT -.3025 RRF -.3118 RTF .9737
SGB 6331.3 R23 .0168 R13 -.9737
SG1 6318.4 SG2 403.7 THA 178.83

ORBIT DETERMINATION ACCURACY
ST 3389.1 SR 414.8 SS 1012.5
CRT -.8776 CRS .8523 CST -.9986
LSA 3555.4 MSA 205.2 SSA 13.5
EL1 3408.7 EL2 197.7 ALF 173.85

LAUNCH DATE JUN 6 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 6 1968

HELIOCENTRIC CONIC DISTANCE 602.457
RL 151.81 LAL -.00 LOL 254.62 VL 26.084 GAL 11.01 AZL 93.43 HCA 289.02 SMA 124.25 ECC .28954 INC 3.4285 V1 29.349
RP 107.76 LAP 3.24 LOP 183.67 VP 37.351 GAP 15.05 AZP 91.12 TAL 149.75 TAP 78.77 RCA 88.28 APO 160.23 V2 35.167
RC 164.869 GL -14.15 GP -.42 ZAL 40.72 ZAP 174.56 ETS 354.28 ZAE 124.28 ETE 180.72 ZAC 76.86 ETC 13.41 CLP-174.57
PLANETOCENTRIC CONIC
C3 39.247 VHL 6.265 DLA -26.82 RAL 208.52 RAD 6568.5 VEL 12.673 PTH 2.30 VHP 9.551 DPA -1.11 RAP 189.42 ECC 1.6459

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 58 14	1323.79	7.39	350.00	84.35	117.41	13 20 18	723.8	11.00	343.19
90.00	15 39 45	795.34	21.86	318.03	90.65	108.47	15 53 0	195.3	24.18	310.13
100.00	13 46 56	1166.46	4.26	336.75	82.64	119.62	14 6 23	566.5	8.17	330.14
100.00	17 33 44	5715.94	25.25	270.06	91.82	106.56	19 9 0	5115.9	27.27	261.85
110.00	14 1 27	1120.91	-1.61	329.65	78.99	124.15	14 20 8	520.9	2.88	323.44
110.00	19 35 43	5334.26	31.93	243.08	93.82	102.90	21 4 37	4734.3	33.38	234.15

DIFFERENTIAL CORRECTIONS
TOE-3.2384 TRA 4.9849 TC3-1.8038 BAU .9468
ROE .4559 RRA .0398 RC3 -.0455 FAU .01177
FOE-1.1279 FRA 1.9523 FC3 -.2596 BSP 20543
BOE 3.2703 BRA 4.9851 BC3 1.8044 FSP -673

MID-COURSE EXECUTION ACCURACY
SGT 6322.7 SGR 422.8 SG3 196.5
RRT -.3358 RRF -.3431 RTF .9743
SGB 6336.8 R23 .0156 R13 -.9743
SG1 6324.3 SG2 398.2 THA 178.71

ORBIT DETERMINATION ACCURACY
ST 3335.5 SR 417.1 SS 984.9
CRT -.8740 CRS .8491 CST -.9987
LSA 3496.5 MSA 208.2 SSA 13.1
EL1 3355.4 EL2 201.5 ALF 173.74

LAUNCH DATE JUN 6 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 8 1968

HELIOCENTRIC CONIC DISTANCE 607.424
RL 151.81 LAL -.00 LOL 254.62 VL 26.053 GAL 11.84 AZL 93.44 HCA 292.25 SMA 124.06 ECC .30006 INC 3.4352 V1 29.349
RP 107.79 LAP 3.18 LOP 186.91 VP 37.319 GAP 15.80 AZP 91.30 TAL 148.68 TAP 80.93 RCA 86.84 APO 161.29 V2 35.156
RC 166.846 GL -13.37 GP -.41 ZAL 39.28 ZAP 175.66 ETS 353.20 ZAE 124.00 ETE 180.67 ZAC 74.80 ETC 13.44 CLP-175.68
PLANETOCENTRIC CONIC
C3 43.681 VHL 6.609 DLA -26.54 RAL 210.15 RAD 6568.7 VEL 12.847 PTH 2.34 VHP 9.992 DPA -1.98 RAP 191.37 ECC 1.7189

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 57 37	1374.65	5.78	352.88	87.28	117.77	13 20 32	774.6	9.46	346.13
90.00	15 53 25	798.49	21.79	318.23	94.30	108.55	16 6 44	198.5	24.12	310.34
100.00	13 48 30	1210.33	2.78	339.16	85.63	119.77	14 8 40	610.3	6.72	332.59
100.00	17 45 14	5726.08	25.05	270.75	95.44	106.87	19 20 40	5126.1	27.12	262.56
110.00	14 4 56	1158.71	-3.05	331.62	82.00	124.06	14 24 15	558.7	1.44	325.42
110.00	19 45 16	5350.47	31.68	244.28	97.48	103.56	21 14 27	4750.5	33.22	235.39

DIFFERENTIAL CORRECTIONS
TOE-3.3203 TRA 5.3923 TC3-1.5855 BAU .9262
ROE .4819 RRA .0233 RC3 -.0372 FAU .00978
FOE-1.0951 FRA 1.9883 FC3 -.1938 BSP 20526
BOE 3.3550 BRA 5.3923 BC3 1.5860 FSP -637

MID-COURSE EXECUTION ACCURACY
SGT 6323.1 SGR 421.2 SG3 186.9
RRT -.3686 RRF -.3738 RTF .9751
SGB 6337.1 R23 .0140 R13 -.9751
SG1 6325.0 SG2 391.4 THA 178.59

ORBIT DETERMINATION ACCURACY
ST 3278.2 SR 417.8 SS 959.5
CRT -.8701 CRS .8456 CST -.9988
LSA 3434.7 MSA 210.7 SSA 12.7
EL1 3298.3 EL2 204.6 ALF 173.65

LAUNCH DATE JUN 6 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 10 1968

HELIOCENTRIC CONIC DISTANCE 612.230
RL 151.81 LAL -.00 LOL 254.62 VL 26.022 GAL 12.75 AZL 93.44 HCA 295.47 SMA 123.87 ECC .31157 INC 3.4422 V1 29.349
RP 107.83 LAP 3.11 LOP 190.14 VP 37.287 GAP 16.60 AZP 91.48 TAL 147.65 TAP 83.12 RCA 85.28 APO 162.47 V2 35.145
RC 168.808 GL -12.60 GP -.40 ZAL 37.92 ZAP 176.76 ETS 351.44 ZAE 123.71 ETE 180.63 ZAC 72.75 ETC 13.50 CLP-176.79
PLANETOCENTRIC CONIC
C3 48.805 VHL 6.986 DLA -26.24 RAL 211.70 RAD 6568.8 VEL 13.045 PTH 2.38 VHP 10.468 DPA -2.85 RAP 193.30 ECC 1.8032

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 56 41	1426.31	4.14	355.78	90.17	118.04	13 20 28	826.3	7.86	349.08
90.00	16 6 42	802.47	21.70	318.49	97.91	108.65	16 20 4	202.5	24.05	310.61
100.00	13 49 32	1255.66	1.25	341.65	88.57	119.87	14 10 27	655.7	5.21	335.11
100.00	17 56 33	5736.39	24.84	271.45	99.01	107.18	19 32 9	5136.4	26.96	263.29
110.00	14 7 54	1198.01	-4.55	333.68	84.96	123.92	14 27 52	598.0	-.07	327.47
110.00	19 54 40	5366.81	31.41	245.48	101.11	104.23	21 24 7	4766.8	33.05	236.63

DIFFERENTIAL CORRECTIONS
TOE-3.4123 TRA 5.8240 TC3-1.3825 BAU .9022
ROE .5083 RRA .0045 RC3 -.0300 FAU .00793
FOE-1.0682 FRA 2.0261 FC3 -.1407 BSP 20593
BOE 3.4499 BRA 5.8240 BC3 1.3828 FSP -608

MID-COURSE EXECUTION ACCURACY
SGT 6318.5 SGR 419.0 SG3 177.9
RRT -.4018 RRF -.4050 RTF .9761
SGB 6332.3 R23 .0124 R13 -.9761
SG1 6320.7 SG2 383.6 THA 178.47

ORBIT DETERMINATION ACCURACY
ST 3223.0 SR 416.9 SS 938.4
CRT -.8668 CRS .8428 CST -.9988
LSA 3375.9 MSA 212.1 SSA 12.3
EL1 3243.3 EL2 206.6 ALF 173.58

LAUNCH DATE JUN 6 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 12 1968

HELIOCENTRIC CONIC DISTANCE 616.847
RL 151.81 LAL -.00 LOL 254.62 VL 25.991 GAL 13.73 AZL 93.45 HCA 298.70 SMA 123.69 ECC .32419 INC 3.4496 V1 29.349
RP 107.86 LAP 3.03 LOP 193.37 VP 37.254 GAP 17.48 AZP 91.66 TAL 146.66 TAP 85.36 RCA 83.59 APO 163.79 V2 35.134
RC 170.755 GL -11.85 GP -.39 ZAL 36.63 ZAP 177.87 ETS 347.89 ZAE 123.40 ETE 180.59 ZAC 70.72 ETC 13.58 CLP-177.91
PLANETOCENTRIC CONIC
C3 54.749 VHL 7.399 DLA -25.92 RAL 213.16 RAD 6569.0 VEL 13.271 PTH 2.42 VHP 10.986 DPA -3.70 RAP 195.23 ECC 1.9010

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 55 27	1478.65	2.46	358.71	93.01	118.22	13 20 6	878.7	6.21	352.05
90.00	16 19 34	807.23	21.60	318.80	101.46	108.77	16 33 1	207.2	23.96	310.93
100.00	13 50 4	1302.26	-.33	344.21	91.46	119.89	14 11 47	702.3	3.65	337.68
100.00	18 7 37	5746.89	24.63	272.16	102.54	107.50	19 43 24	5146.9	26.79	264.02
110.00	14 10 20	1238.67	-6.09	335.82	87.89	123.70	14 30 59	638.7	-1.62	329.59
110.00	20 3 51	5383.25	31.13	246.67	104.67	104.89	21 33 34	4783.2	32.86	237.88

DIFFERENTIAL CORRECTIONS
TOE-3.5110 TRA 6.2877 TC3-1.1906 BAU .8716
ROE .5352 RRA -.0168 RC3 -.0242 FAU .00611
FOE-1.0452 FRA 2.0683 FC3 -.0967 BSP 20641
BOE 3.5515 BRA 6.2877 BC3 1.1908 FSP -579

MID-COURSE EXECUTION ACCURACY
SGT 6308.8 SGR 416.2 SG3 169.5
RRT -.4348 RRF -.4361 RTF .9773
SGB 6322.5 R23 .0107 R13 -.9773
SG1 6311.4 SG2 374.6 THA 178.35

ORBIT DETERMINATION ACCURACY
ST 3167.3 SR 414.4 SS 920.5
CRT -.8636 CRS .8403 CST -.9989
LSA 3317.4 MSA 212.6 SSA 11.9
EL1 3187.5 EL2 207.6 ALF 173.52

LAUNCH DATE JUN 7 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 16 1967

DISTANCE 152.144

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 21.067 GAL 4.94 AZL 93.36 HCA 58.30 SMA 101.74 ECC .49793 INC 3.3642 V1 29.345
RP 108.94 LAP -2.86 LOP 313.84 VP 33.645 GAP -29.61 AZP 91.77 TAL 174.98 TAP 233.29 RCA 51.08 APO 152.40 V2 34.784
RC 47.155 GL -8.21 GP .09 ZAL 79.39 ZAP 18.42 ETS 181.11 ZAE 165.48 ETE 136.43 ZAC 112.31 ETC 16.27 CLP 18.42

PLANETOCENTRIC CONIC
C3 74.451 VHL 8.629 DLA -6.06 RAL 173.34 RAD 6569.4 VEL 13.993 PTH 2.55 VHP 17.510 DPA 13.82 RAP 155.52 ECC 2.2253

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 41 2	2350.01	-22.61	50.25	55.31	107.52	7 20 12	1750.0	-20.00	42.55
90.00	17 8 25	5371.79	27.84	245.52	60.49	84.58	18 37 57	4771.8	26.79	237.01
100.00	7 59 30	2096.87	-24.02	31.14	54.81	108.35	8 34 27	1496.9	-21.29	23.40
100.00	18 32 38	5100.16	29.31	225.38	60.31	83.87	19 57 39	4500.2	28.15	216.76
110.00	9 1 10	1903.81	-27.82	14.99	53.31	110.71	9 32 54	1303.8	-24.75	7.16
110.00	19 47 28	4865.98	33.31	207.01	59.73	81.85	21 8 34	4266.0	31.83	198.10

DIFFERENTIAL CORRECTIONS
TDE .4728 TRA-1.0903 TC3 -.0513 BAU .0719
RDE -.5870 RRA -.2815 RC3 .0509 FAU .01664
FDE -.3163 FRA .4491 FC3 -.1934 BSP 2088
BDE .7537 BRA 1.1261 BC3 .0723 FSP -91

MID-COURSE EXECUTION ACCURACY
SGT 797.8 SGR 441.6 SG3 42.8
RRT .0190 RRF -.0176 RTF -.6445
SGB 911.8 R23 .0001 R13 -.6446
SG1 797.9 SG2 441.5 THA .87

ORBIT DETERMINATION ACCURACY
ST 382.5 SR 393.8 SS 346.0
CRT -.7307 CRS -.8522 CST .9782
LSA 614.6 MSA 207.9 SSA 14.2
EL1 510.7 EL2 201.4 ALF 133.85

LAUNCH DATE JUN 7 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 18 1967

DISTANCE 158.532

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 21.568 GAL 4.70 AZL 93.37 HCA 61.47 SMA 103.43 ECC .47341 INC 3.3678 V1 29.345
RP 108.94 LAP -2.96 LOP 317.01 VP 33.962 GAP -28.10 AZP 91.61 TAL 174.74 TAP 236.20 RCA 54.47 APO 152.40 V2 34.785
RC 46.068 GL -8.93 GP .10 ZAL 79.08 ZAP 16.82 ETS 181.06 ZAE 166.67 ETE 128.54 ZAC 110.81 ETC 16.02 CLP 16.82

PLANETOCENTRIC CONIC
C3 66.153 VHL 8.133 DLA -6.86 RAL 173.36 RAD 6569.3 VEL 13.693 PTH 2.50 VHP 16.688 DPA 13.28 RAP 157.02 ECC 2.0887

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 47 14	2296.81	-21.48	46.76	53.15	108.91	7 25 31	1696.8	-18.70	39.19
90.00	17 2 22	5369.15	27.82	245.33	58.77	84.48	18 31 51	4769.1	26.76	236.82
100.00	8 5 18	2044.96	-22.87	27.71	52.62	109.80	8 39 23	1445.0	-19.96	20.12
100.00	18 26 59	5096.23	29.28	225.09	58.59	83.72	19 51 56	4496.2	28.11	216.48
110.00	9 6 3	1854.73	-26.59	11.70	51.04	112.31	9 36 58	1254.7	-23.33	4.05
110.00	19 42 43	4859.23	33.25	206.49	57.99	81.55	21 3 42	4259.2	31.72	197.60

DIFFERENTIAL CORRECTIONS
TDE .4732 TRA-1.0728 TC3 -.0417 BAU .0633
RDE -.5564 RRA -.2660 RC3 .0582 FAU .01721
FDE -.3336 FRA .4594 FC3 -.2252 BSP 2239
BDE .7304 BRA 1.1053 BC3 .0716 FSP -102

MID-COURSE EXECUTION ACCURACY
SGT 833.7 SGR 445.2 SG3 47.0
RRT .0177 RRF -.0168 RTF -.6652
SGB 945.1 R23 -.0003 R13 -.6653
SG1 833.8 SG2 445.1 THA .76

ORBIT DETERMINATION ACCURACY
ST 404.1 SR 396.0 SS 367.3
CRT -.7357 CRS -.8577 CST .9777
LSA 640.6 MSA 210.7 SSA 14.5
EL1 527.1 EL2 205.6 ALF 135.78

LAUNCH DATE JUN 7 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 20 1967

DISTANCE 164.973

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 22.032 GAL 4.44 AZL 93.37 HCA 64.63 SMA 105.09 ECC .45006 INC 3.3711 V1 29.345
RP 108.93 LAP -3.05 LOP 320.17 VP 34.260 GAP -26.67 AZP 91.45 TAL 174.54 TAP 239.17 RCA 57.79 APO 152.39 V2 34.787
RC 45.125 GL -9.69 GP .10 ZAL 78.87 ZAP 15.22 ETS 181.03 ZAE 167.67 ETE 118.78 ZAC 109.31 ETC 15.78 CLP 15.22

PLANETOCENTRIC CONIC
C3 58.858 VHL 7.672 DLA -7.65 RAL 173.26 RAD 6569.1 VEL 13.424 PTH 2.45 VHP 15.898 DPA 12.72 RAP 158.51 ECC 1.9686

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 52 57	2243.41	-20.26	43.32	50.92	110.22	7 30 21	1643.4	-17.32	35.87
90.00	16 55 53	5366.04	27.80	245.11	56.90	84.37	18 25 19	4766.0	26.73	236.60
100.00	8 10 37	1992.86	-21.63	24.34	50.37	111.16	8 43 50	1392.9	-18.56	16.89
100.00	18 20 54	5091.82	29.25	224.76	56.72	83.55	19 45 46	4491.8	28.05	216.17
110.00	9 10 28	1805.48	-25.28	8.47	48.72	113.81	9 40 34	1205.5	-21.84	1.01
110.00	19 37 32	4851.97	33.17	205.94	56.11	81.23	20 58 24	4252.0	31.61	197.06

DIFFERENTIAL CORRECTIONS
TDE .4738 TRA-1.0547 TC3 -.0290 BAU .0568
RDE -.5267 RRA -.2508 RC3 .0661 FAU .01785
FDE -.3520 FRA .4694 FC3 -.2625 BSP 2382
BDE .7084 BRA 1.0841 BC3 .0722 FSP -114

MID-COURSE EXECUTION ACCURACY
SGT 871.1 SGR 448.0 SG3 51.6
RRT .0166 RRF -.0161 RTF -.6848
SGB 979.6 R23 -.0006 R13 -.6849
SG1 871.1 SG2 447.9 THA .67

ORBIT DETERMINATION ACCURACY
ST 426.7 SR 397.4 SS 389.8
CRT -.7411 CRS -.8633 CST .9772
LSA 668.1 MSA 212.8 SSA 14.8
EL1 544.3 EL2 209.2 ALF 137.74

LAUNCH DATE JUN 7 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 22 1967

DISTANCE 171.461

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 22.462 GAL 4.17 AZL 93.37 HCA 67.79 SMA 106.71 ECC .42790 INC 3.3743 V1 29.345
RP 108.93 LAP -3.12 LOP 323.34 VP 34.541 GAP -25.31 AZP 91.28 TAL 174.39 TAP 242.18 RCA 61.05 APO 152.37 V2 34.790
RC 44.335 GL -10.49 GP .11 ZAL 78.78 ZAP 13.61 ETS 181.00 ZAE 168.33 ETE 107.14 ZAC 107.80 ETC 15.55 CLP 13.61

PLANETOCENTRIC CONIC
C3 52.443 VHL 7.242 DLA -8.43 RAL 173.05 RAD 6568.9 VEL 13.183 PTH 2.41 VHP 15.141 DPA 12.16 RAP 160.00 ECC 1.8631

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 58 12	2190.01	-18.96	39.93	48.63	111.43	7 34 42	1590.0	-15.89	32.61
90.00	16 48 56	5362.62	27.77	244.86	54.90	84.25	18 18 19	4762.6	26.69	236.36
100.00	8 15 27	1940.77	-20.31	21.03	48.05	112.42	8 47 48	1340.8	-17.09	13.71
100.00	18 14 22	5087.10	29.21	224.42	54.72	83.37	19 39 9	4487.1	27.99	215.83
110.00	9 14 23	1756.25	-23.89	5.32	46.35	115.21	9 43 39	1156.2	-20.29	358.03
110.00	19 31 55	4844.38	33.09	205.36	54.09	80.90	20 52 40	4244.4	31.48	196.51

DIFFERENTIAL CORRECTIONS
TDE .4756 TRA-1.0349 TC3 -.0121 BAU .0532
RDE -.4979 RRA -.2359 RC3 .0748 FAU .01856
FDE -.3719 FRA .4786 FC3 -.3064 BSP 2542
BDE .6885 BRA 1.0614 BC3 .0758 FSP -128

MID-COURSE EXECUTION ACCURACY
SGT 909.4 SGR 450.0 SG3 56.7
RRT .0148 RRF -.0150 RTF -.7039
SGB 1014.6 R23 -.0012 R13 -.7039
SG1 909.4 SG2 450.0 THA .56

ORBIT DETERMINATION ACCURACY
ST 450.8 SR 398.0 SS 413.6
CRT -.7478 CRS -.8692 CST .9769
LSA 697.6 MSA 214.0 SSA 15.0
EL1 562.9 EL2 211.6 ALF 139.74

LAUNCH DATE JUN 7 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 24 1967

HELIOCENTRIC CONIC DISTANCE 177.992

RL 151.83 LAL -.00 LOL 255.58 VL 22.861 GAL 3.89 AZL 93.38 HCA 70.95 SMA 108.28 ECC .40690 INC 3.3773 V1 29.345
RP 108.92 LAP -3.19 LOP 326.50 VP 34.805 GAP -24.01 AZP 91.10 TAL 174.29 TAP 245.24 RCA 64.22 APO 152.34 V2 34.793
RC 43.707 GL -11.33 GP .11 ZAL 78.81 ZAP 12.01 ETS 181.00 ZAE 168.52 ETE 94.16 ZAC 106.29 ETC 15.33 CLP 12.01

PLANETOCENTRIC CONIC

C3 46.805 VHL 6.841 DLA -9.19 RAL 172.71 RAD 6568.7 VEL 12.968 PTH 2.36 VHP 14.413 DPA 11.59 RAP 161.49 ECC 1.7703

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 2 57	2136.80	-17.61	36.62	46.28	112.54	7 38 34	1536.8	-14.40	29.41
90.00	16 41 32	5359.09	27.75	244.60	52.77	84.12	18 10 51	4759.1	26.65	236.11
100.00	8 19 48	1888.89	-18.93	17.80	45.69	113.58	8 51 17	1288.9	-15.58	10.60
100.00	18 7 22	5082.23	29.18	224.06	52.59	83.19	19 32 4	4482.2	27.93	215.48
110.00	9 17 48	1707.25	-22.43	2.26	43.94	116.49	9 46 16	1107.2	-18.69	355.13
110.00	19 25 51	4836.64	33.01	204.77	51.95	80.56	20 46 27	4236.6	31.35	195.94

DIFFERENTIAL CORRECTIONS
TOE .4777 TRA -1.0141 TC3 .0095 BAU .0531
ROE -.4701 RRA -.2215 RC3 .0844 FAU .01935
FOE -.3935 FRA .4872 FC3 -.3579 BSP 2699
BOE .6703 BRA 1.0380 BC3 .0849 FSP -143

MID-COURSE EXECUTION ACCURACY
SGT 948.9 SGR 451.3 SG3 62.3
RRT .0131 RRF -.0138 RTF -.7222
SGB 1050.8 R23 -.0015 R13 -.7222
SG1 948.9 SG2 451.2 THA .46

ORBIT DETERMINATION ACCURACY
ST 476.1 SR 397.8 SS 438.8
CRT -.7550 CRS -.8754 CST .9766
LSA 728.9 MSA 214.4 SSA 15.3
EL1 582.6 EL2 213.1 ALF 141.73

LAUNCH DATE JUN 7 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 26 1967

HELIOCENTRIC CONIC DISTANCE 184.562

RL 151.83 LAL -.00 LOL 255.58 VL 23.230 GAL 3.62 AZL 93.38 HCA 74.12 SMA 109.81 ECC .38706 INC 3.3802 V1 29.345
RP 108.90 LAP -3.25 LOP 329.67 VP 35.052 GAP -22.77 AZP 90.93 TAL 174.24 TAP 248.35 RCA 67.31 APO 152.31 V2 34.797
RC 43.245 GL -12.20 GP .12 ZAL 78.95 ZAP 10.40 ETS 181.02 ZAE 168.15 ETE 81.00 ZAC 104.79 ETC 15.13 CLP 10.40

PLANETOCENTRIC CONIC

C3 41.851 VHL 6.469 DLA -9.95 RAL 172.26 RAD 6568.6 VEL 12.776 PTH 2.32 VHP 13.714 DPA 11.02 RAP 162.96 ECC 1.6888

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 7 12	2084.00	-16.20	33.38	43.89	113.55	7 41 56	1484.0	-12.88	26.28
90.00	16 33 39	5355.60	27.73	244.35	50.53	84.00	18 2 55	4755.6	26.60	235.86
100.00	8 23 38	1837.43	-17.50	14.65	43.28	114.63	8 54 15	1237.4	-14.03	7.57
100.00	17 59 55	5077.40	29.14	223.71	50.35	83.00	19 24 32	4477.4	27.86	215.14
110.00	9 20 43	1658.70	-20.93	359.30	41.50	117.66	9 48 21	1058.7	-17.06	352.31
110.00	19 19 19	4828.90	32.92	204.19	49.70	80.22	20 39 48	4228.9	31.22	195.38

DIFFERENTIAL CORRECTIONS
TOE .4781 TRA -.9947 TC3 .0339 BAU .0563
ROE -.4434 RRA -.2075 RC3 .0947 FAU .02020
FOE -.4164 FRA .4958 FC3 -.4180 BSP 2800
BOE .6521 BRA 1.0161 BC3 .1006 FSP -160

MID-COURSE EXECUTION ACCURACY
SGT 990.5 SGR 451.7 SG3 68.4
RRT .0132 RRF -.0128 RTF -.7375
SGB 1088.7 R23 -.0005 R13 -.7375
SG1 990.6 SG2 451.7 THA .44

ORBIT DETERMINATION ACCURACY
ST 501.3 SR 396.7 SS 465.2
CRT -.7607 CRS -.8814 CST .9758
LSA 760.7 MSA 214.8 SSA 15.6
EL1 602.3 EL2 214.3 ALF 143.62

LAUNCH DATE JUN 7 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 28 1967

HELIOCENTRIC CONIC DISTANCE 191.165

RL 151.83 LAL -.00 LOL 255.58 VL 23.572 GAL 3.34 AZL 93.38 HCA 77.28 SMA 111.28 ECC .36836 INC 3.3830 V1 29.345
RP 108.89 LAP -3.30 LOP 332.84 VP 35.284 GAP -21.58 AZP 90.75 TAL 174.25 TAP 251.53 RCA 70.29 APO 152.27 V2 34.801
RC 42.956 GL -13.11 GP .12 ZAL 79.21 ZAP 8.78 ETS 181.09 ZAE 167.25 ETE 68.90 ZAC 103.29 ETC 14.94 CLP 8.78

PLANETOCENTRIC CONIC

C3 37.500 VHL 6.124 DLA -10.69 RAL 171.68 RAD 6568.5 VEL 12.604 PTH 2.29 VHP 13.043 DPA 10.44 RAP 164.41 ECC 1.6171

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 10 56	2031.86	-14.76	30.23	41.46	114.44	7 44 48	1431.9	-11.33	23.23
90.00	16 25 19	5352.29	27.70	244.11	48.19	83.88	17 54 32	4752.3	26.57	235.63
100.00	8 26 57	1786.64	-16.03	11.59	40.84	115.57	8 56 43	1186.6	-12.46	4.62
100.00	17 52 0	5072.74	29.10	223.37	48.00	82.83	19 16 33	4472.7	27.80	214.80
110.00	9 23 5	1610.84	-19.39	356.44	39.04	118.72	9 49 56	1010.8	-15.41	349.58
110.00	19 12 21	4821.32	32.83	203.61	47.34	79.89	20 32 42	4221.3	31.09	194.83

DIFFERENTIAL CORRECTIONS
TOE .4815 TRA -.9717 TC3 .0662 BAU .0625
ROE -.4178 RRA -.1939 RC3 .1058 FAU .02118
FOE -.4420 FRA .5031 FC3 -.4891 BSP 2957
BOE .6375 BRA .9908 BC3 .1248 FSP -178

MID-COURSE EXECUTION ACCURACY
SGT 1032.2 SGR 451.3 SG3 75.3
RRT .0112 RRF -.0111 RTF -.7539
SGB 1126.6 R23 -.0007 R13 -.7539
SG1 1032.2 SG2 451.3 THA .35

ORBIT DETERMINATION ACCURACY
ST 529.2 SR 394.8 SS 493.8
CRT -.7693 CRS -.8880 CST .9758
LSA 796.1 MSA 213.7 SSA 15.9
EL1 624.7 EL2 213.7 ALF 145.56

LAUNCH DATE JUN 7 1967 FLIGHT TIME 84.00 ARRIVAL DATE AUG 30 1967

HELIOCENTRIC CONIC DISTANCE 197.796

RL 151.83 LAL -.00 LOL 255.58 VL 23.888 GAL 3.06 AZL 93.39 HCA 80.44 SMA 112.70 ECC .35076 INC 3.3857 V1 29.345
RP 108.87 LAP -3.34 LOP 336.01 VP 35.501 GAP -20.45 AZP 90.56 TAL 174.31 TAP 254.76 RCA 73.17 APO 152.23 V2 34.806
RC 42.841 GL -14.05 GP .13 ZAL 79.58 ZAP 7.14 ETS 181.24 ZAE 165.90 ETE 58.60 ZAC 101.81 ETC 14.76 CLP 7.14

PLANETOCENTRIC CONIC

C3 33.681 VHL 5.804 DLA -11.42 RAL 170.98 RAD 6568.3 VEL 12.452 PTH 2.25 VHP 12.397 DPA 9.87 RAP 165.85 ECC 1.5543

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 14 8	1980.60	-13.29	27.18	39.00	115.24	7 47 9	1380.6	-9.78	20.26
90.00	16 16 32	5349.31	27.68	243.90	45.76	83.78	17 45 42	4749.3	26.53	235.42
100.00	8 29 43	1736.76	-14.54	8.63	38.37	116.41	8 58 40	1136.8	-10.88	1.76
100.00	17 43 39	5068.38	29.06	223.05	45.57	82.67	19 8 7	4468.4	27.74	214.49
110.00	9 24 55	1563.88	-17.83	353.69	36.55	119.66	9 50 59	963.9	-13.75	346.96
110.00	19 4 56	4814.02	32.74	203.06	44.90	79.58	20 25 10	4214.0	30.96	194.30

DIFFERENTIAL CORRECTIONS
TOE .4857 TRA -.9475 TC3 .1052 BAU .0710
ROE -.3932 RRA -.1808 RC3 .1176 FAU .02228
FOE -.4701 FRA .5098 FC3 -.5727 BSP 3123
BOE .6249 BRA .9646 BC3 .1578 FSP -200

MID-COURSE EXECUTION ACCURACY
SGT 1074.9 SGR 450.0 SG3 82.9
RRT .0090 RRF -.0094 RTF -.7694
SGB 1165.3 R23 -.0010 R13 -.7694
SG1 1074.9 SG2 450.0 THA .26

ORBIT DETERMINATION ACCURACY
ST 558.4 SR 392.1 SS 524.2
CRT -.7786 CRS -.8947 CST .9758
LSA 833.8 MSA 211.9 SSA 16.2
EL1 648.6 EL2 211.8 ALF 147.44

LAUNCH DATE JUN 7 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 1 1967

HELIOCENTRIC CONIC DISTANCE 204.452

RL	151.83	LAL	-.00	LOL	255.58	VL	24.181	GAL	2.78	AZL	93.39	HCA	83.61	SMA	114.06	ECC	.33426
RP	108.86	LAP	-3.37	LOP	339.18	VP	35.704	GAP	-19.36	AZP	90.38	TAL	174.43	TAP	258.04	RCA	75.94
RC	42.900	GL	-15.02	GP	.14	ZAL	80.07	ZAP	5.49	ETS	181.55	ZAE	164.24	ETE	50.21	ZAC	100.35

INC	3.3884	VI	29.345	APO	152.19	V2	34.812	ETC	14.59	CLP	5.49						

PLANETOCENTRIC CONIC

C3	30.334	VHL	5.508	DLA	-12.13	RAL	170.16	RAD	6568.2	VEL	12.317	PTH	2.22	VHP	11.777	DPA	9.29
RAP	167.27	ECC	1.4992														

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 16 48	1930.48	-11.82	24.24	36.51	115.92	7 48 58	1330.5	-8.24	17.39
90.00	16 7 20	5346.75	27.66	243.71	43.26	83.69	17 36 27	4746.7	26.50	235.24
100.00	8 31 57	1688.02	-13.05	5.78	35.88	117.14	9 0 5	1088.0	-9.31	358.99
100.00	17 34 52	5064.44	29.03	222.76	43.07	82.52	18 59 17	4464.4	27.69	214.21
110.00	9 26 12	1518.09	-16.27	351.06	34.05	120.49	9 51 30	918.1	-12.10	344.43
110.00	18 57 6	4807.14	32.66	202.54	42.39	79.28	20 17 13	4207.1	30.83	193.80

DIFFERENTIAL CORRECTIONS

TDE	.4908	TRA	-.9217	TC3	.1516	BAU	.0810										
RDE	-.3698	RRA	-.1683	RC3	.1299	FAU	.02351										
FDE	-.5013	FRA	.5155	FC3	-.6710	BSP	3293										
BDE	.6145	BRA	.9370	BC3	.1997	FSP	-224										

MID-COURSE EXECUTION ACCURACY

SGT	1118.2	SGR	447.9	SG3	91.4						
RRT	.0062	RRF	-.0072	RTF	-.7842						
SGB	1204.6	R23	-.0014	R13	-.7842						
SG1	1118.2	SG2	447.9	THA	.17						

ORBIT DETERMINATION ACCURACY

ST	589.3	SR	388.5	SS	556.9						
CRT	-.7889	CRS	-.9016	CST	.9760						
LSA	874.2	MSA	209.1	SSA	16.5						
EL1	674.3	EL2	208.7	ALF	149.26						

LAUNCH DATE JUN 7 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 3 1967

HELIOCENTRIC CONIC DISTANCE 211.127

RL	151.83	LAL	-.00	LOL	255.58	VL	24.451	GAL	2.51	AZL	93.39	HCA	86.78	SMA	115.36	ECC	.31880
RP	108.84	LAP	-3.39	LOP	342.35	VP	35.894	GAP	-18.32	AZP	90.19	TAL	174.61	TAP	261.38	RCA	78.58
RC	43.133	GL	-16.02	GP	.15	ZAL	80.68	ZAP	3.81	ETS	182.23	ZAE	162.39	ETE	43.51	ZAC	98.91

INC	3.3911	VI	29.345	APO	152.14	V2	34.819	ETC	14.44	CLP	3.81						

PLANETOCENTRIC CONIC

C3	27.403	VHL	5.235	DLA	-12.81	RAL	169.22	RAD	6568.1	VEL	12.197	PTH	2.19	VHP	11.181	DPA	8.72
RAP	168.66	ECC	1.4510														

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 18 54	1881.75	-10.35	21.41	34.01	116.50	7 50 15	1281.8	-6.71	14.62
90.00	15 57 44	5344.69	27.65	243.56	40.69	83.61	17 26 49	4744.7	26.47	235.09
100.00	8 33 37	1640.69	-11.56	3.06	33.37	117.76	9 0 57	1040.7	-7.76	356.33
100.00	17 25 42	5060.99	28.99	222.51	40.50	82.39	18 50 3	4461.0	27.64	213.97
110.00	9 26 56	1473.69	-14.72	348.55	31.54	121.21	9 51 30	873.7	-10.48	342.02
110.00	18 48 52	4800.74	32.57	202.06	39.82	79.01	20 8 53	4200.7	30.72	193.34

DIFFERENTIAL CORRECTIONS

TDE	.4964	TRA	-.8947	TC3	.2058	BAU	.0918										
RDE	-.3476	RRA	-.1563	RC3	.1428	FAU	.02488										
FDE	-.5358	FRA	..5202	FC3	-.7861	BSP	3458										
BDE	.6060	BRA	.9083	BC3	.2505	FSP	-251										

MID-COURSE EXECUTION ACCURACY

SGT	1162.0	SGR	444.8	SG3	100.8						
RRT	.0034	RRF	-.0048	RTF	-.7981						
SGB	1244.2	R23	-.0016	R13	-.7981						
SG1	1162.0	SG2	444.8	THA	.09						

ORBIT DETERMINATION ACCURACY

ST	621.3	SR	384.1	SS	591.7						
CRT	-.7996	CRS	-.9086	CST	.9763						
LSA	917.1	MSA	205.8	SSA	16.7						
EL1	701.3	EL2	204.3	ALF	151.00						

LAUNCH DATE JUN 7 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 5 1967

HELIOCENTRIC CONIC DISTANCE 217.819

RL	151.83	LAL	-.00	LOL	255.58	VL	24.700	GAL	2.25	AZL	93.39	HCA	89.94	SMA	116.60	ECC	.30438
RP	108.81	LAP	-3.39	LOP	345.53	VP	36.071	GAP	-17.31	AZP	90.00	TAL	174.84	TAP	264.78	RCA	81.11
RC	43.534	GL	-17.05	GP	.16	ZAL	81.40	ZAP	2.11	ETS	184.20	ZAE	160.46	ETE	38.17	ZAC	97.49

INC	3.3937	VI	29.345	APO	152.10	V2	34.826	ETC	14.30	CLP	2.10						

PLANETOCENTRIC CONIC

C3	24.841	VHL	4.984	DLA	-13.48	RAL	168.17	RAD	6568.0	VEL	12.092	PTH	2.16	VHP	10.608	DPA	8.16
RAP	170.02	ECC	1.4088														

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 20 26	1834.67	-8.91	18.70	31.49	116.99	7 51 1	1234.7	-5.22	11.97
90.00	15 47 47	5343.17	27.63	243.45	38.08	83.56	17 16 50	4743.2	26.45	234.99
100.00	8 34 43	1594.99	-10.10	.45	30.85	118.28	9 1 18	995.0	-6.24	353.79
100.00	17 16 11	5058.07	28.97	222.30	37.89	82.28	18 40 29	4458.1	27.60	213.76
110.00	9 27 6	1430.93	-13.20	346.18	29.03	121.82	9 50 57	830.9	-8.89	339.72
110.00	18 40 17	4794.90	32.50	201.63	37.21	78.76	20 0 12	4194.9	30.61	192.92

DIFFERENTIAL CORRECTIONS

TDE	.5025	TRA	-.8670	TC3	.2672	BAU	.1028										
RDE	-.3265	RRA	-.1449	RC3	.1560	FAU	.02641										
FDE	-.5740	FRA	.5244	FC3	-.9204	BSP	3617										
BDE	.5992	BRA	.8790	BC3	.3095	FSP	-281										

MID-COURSE EXECUTION ACCURACY

SGT	1206.2	SGR	440.9	SG3	111.4						
RRT	.0004	RRF	-.0022	RTF	-.8110						
SGB	1284.3	R23	-.0018	R13	-.8110						
SG1	1206.2	SG2	440.9	THA	.01						

ORBIT DETERMINATION ACCURACY

ST	654.4	SR	378.8	SS	628.8						
CRT	-.8105	CRS	-.9155	CST	.9767						
LSA	962.4	MSA	202.0	SSA	17.0						
EL1	729.5	EL2	199.0	ALF	152.66						

LAUNCH DATE JUN 7 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 7 1967

HELIOCENTRIC CONIC DISTANCE 224.523

RL	151.83	LAL	-.00	LOL	255.58	VL	24.930	GAL	2.00	AZL	93.40	HCA	93.11	SMA	117.78	ECC	.29094
RP	108.79	LAP	-3.39	LOP	348.70	VP	36.236	GAP	-16.35	AZP	89.82	TAL	175.12	TAP	268.23	RCA	83.52
RC	44.099	GL	-18.09	GP	.17	ZAL	82.22	ZAP	.40	ETS	204.87	ZAE	158.51	ETE	33.86	ZAC	96.10

INC	3.3964	VI	29.345	APO	152.05	V2	34.834	ETC	14.17	CLP	.36						

PLANETOCENTRIC CONIC

C3	22.603	VHL	4.754	DLA	-14.11	RAL	167.00	RAD	6567.9	VEL	11.999	PTH	2.14	VHP	10.058	DPA	7.60
RAP	171.35	ECC	1.3720														

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 21 24	1789.47	-7.50	16.13	28.96	117.38	7 51 13	1189.5	-3.77	9.43
90.00	15 37 32	5342.19	27.63	243.38	35.44	83.52	17 6 34	4742.2	26.44	234.92
100.00	8 35 15	1551.19	-8.68	357.98	28.33	118.72	9 1 6	951.2	-4.78	351.36
100.00	17 6 22	5055.70	28.95	222.12	35.25	82.19	18 30 38	4455.7	27.56	213.59
110.00	9 26 42	1390.02	-11.72	343.93	26.51	122.34	9 49 52	790.0	-7.36	337.54
110.00	18 31 24	4789.64	32.43	201.23	34.56	78.54	19 51 14	4189.6	30.51	192.54

DIFFERENTIAL CORRECTIONS

TDE	.5088	TRA	-.8378	TC3	.3378	BAU	.1142										
RDE	-.3065	RRA	-.1341	RC3	.1693	FAU	.02815										
FDE	-.6166	FRA	.5271	FC3	-1.0781	BSP	3786										
BDE	.5940	BRA	.8484	BC3	.3779	FSP	-316										

MID-COURSE EXECUTION ACCURACY

SGT	1250.2	SGR	436.1	SG3	123.2						
RRT	-.0023	RRF	.0005	RTF	-.8230						
SGB	1324.0	R23	.0017	R13	.8230						
SG1	1250.2	SG2	436.1	THA	179.95						

ORBIT DETERMINATION ACCURACY

ST	688.2	SR	372.8	SS	668.3						
CRT	-.8218	CRS	.9224	CST	.9772						
LSA	1010.0	MSA	197.7	SSA	17.3						
EL1	758.6	EL2	192.7	ALF	154.21						

LAUNCH DATE JUN 7 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 9 1967

HELIOCENTRIC CONIC DISTANCE 231.235

```
RL  151.83 LAL   -.00 LOL 255.58 VL  25.141 GAL   1.75 AZL  93.40 HCA  96.28 SMA 118.90 ECC .27846 INC 3.3900 V1  29.345
RP  108.76 LAP  -3.38 LOP 351.88 VP  36.390 GAP -15.43 AZP  89.63 TAL 175.45 TAP 271.74 RCA  85.79 APO 152.01 V2  34.842
RC  44.820 GL  -19.14 GP     .18 ZAL  83.13 ZAP   1.44 ETS 352.60 ZAE 156.63 ETE  30.35 ZAC  94.76 ETC  14.05 CLP   1.42
```

PLANETOCENTRIC CONIC

```
C3  20.652 VHL  4.544 DLA -14.72 RAL 165.74 RAD 6567.8 VEL 11.918 PTH   2.12 VHP  9.530 DPA   7.06 RAP 172.64 ECC 1.3399
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 21 47	1746.39	-6.15	13.69	26.44	117.70	7 50 54	1146.4	-2.39	7.02
90.00	15 27 4	5341.73	27.62	243.35	32.78	83.51	16 56 6	4741.7	26.44	234.88
100.00	8 35 12	1509.50	-7.30	355.64	25.81	119.07	9 0 22	909.5	3.37	349.00
100.00	16 56 20	5053.86	28.93	221.99	32.59	82.12	18 20 34	4453.9	27.54	213.46
110.00	9 25 45	1351.17	-10.29	341.82	24.00	122.78	9 48 16	751.2	-5.90	335.48
110.00	18 22 16	4784.95	32.36	200.88	31.90	78.34	19 42 1	4184.9	30.42	192.29

DIFFERENTIAL CORRECTIONS

```
TDE  .5169 TRA -.8073 TC3  .4161 BAU  .1255
RDE -.2878 RRA -.1239 RC3  .1825 FAU .03008
FDE -.6642 FRA  .5290 FC3-1.2610 BSP   3962
BDE  .5916 BRA  .8168 BC3  .4544 FSP   -354
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1294.4 SGR  430.4 SG3  136.4
RRT -.0067 RRF  .0034 RTF -.8347
SGB 1364.0 R23  .0029 R13  .8347
SG1 1294.4 SG2  430.4 THA 179.86
```

ORBIT DETERMINATION ACCURACY

```
ST   724.3 SR   366.1 SS   710.8
CRT -.8339 CRS -.9292 CST  .9780
LSA 1061.3 MSA  192.7 SSA   17.5
EL1  790.1 EL2  185.2 ALF 155.73
```

LAUNCH DATE JUN 7 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 11 1967

HELIOCENTRIC CONIC DISTANCE 237.951

```
RL  151.83 LAL   -.00 LOL 255.58 VL  25.336 GAL   1.51 AZL  93.40 HCA  99.46 SMA 119.96 ECC .26690 INC 3.4017 V1  29.345
RP  108.74 LAP  -3.36 LOP 355.06 VP  36.533 GAP -14.54 AZP  89.44 TAL 175.83 TAP 275.29 RCA  87.94 APO 151.97 V2  34.851
RC  45.690 GL  -20.19 GP     .19 ZAL  84.13 ZAP   3.26 ETS 356.31 ZAE 154.84 ETE  27.46 ZAC  93.45 ETC  13.94 CLP   3.20
```

PLANETOCENTRIC CONIC

```
C3  18.955 VHL  4.354 DLA -15.29 RAL 164.39 RAD 6567.8 VEL 11.846 PTH   2.10 VHP  9.022 DPA   6.54 RAP 173.88 ECC 1.3120
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 21 37	1705.66	-4.85	11.39	23.93	117.93	7 50 2	1105.7	-1.08	4.76
90.00	15 16 27	5341.72	27.62	243.35	30.12	83.51	16 45 29	4741.7	26.44	234.88
100.00	8 34 36	1470.12	-6.00	353.45	23.31	119.34	8 59 7	870.1	-2.04	346.90
100.00	16 46 8	5052.50	28.92	221.89	29.93	82.07	18 10 21	4452.5	27.52	213.37
110.00	9 24 16	1314.57	-8.94	339.85	21.51	123.13	9 46 11	714.6	-4.51	333.56
110.00	18 12 58	4780.81	32.30	200.57	29.24	78.16	19 32 39	4180.8	30.34	191.91

DIFFERENTIAL CORRECTIONS

```
TDE  .5240 TRA -.7764 TC3  .5032 BAU  .1368
RDE -.2701 RRA -.1143 RC3  .1953 FAU .03229
FDE -.7176 FRA  .5293 FC3-1.4747 BSP   4113
BDE  .5895 BRA  .7848 BC3  .5398 FSP   -397
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1337.7 SGR  423.8 SG3  151.2
RRT -.0096 RRF  .0064 RTF -.8453
SGB 1403.2 R23  .0026 R13  .8453
SG1 1337.7 SG2  423.7 THA 179.81
```

ORBIT DETERMINATION ACCURACY

```
ST   759.4 SR   358.5 SS   755.9
CRT -.8454 CRS -.9358 CST  .9786
LSA 1114.0 MSA  188.0 SSA   17.8
EL1  820.9 EL2  177.2 ALF 157.11
```

LAUNCH DATE JUN 7 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 13 1967

HELIOCENTRIC CONIC DISTANCE 244.670

```
RL  151.83 LAL   -.00 LOL 255.58 VL  25.514 GAL   1.29 AZL  93.40 HCA 102.63 SMA 120.95 ECC .25622 INC 3.4045 V1  29.345
RP  108.71 LAP  -3.32 LOP 358.24 VP  36.666 GAP -13.69 AZP  89.25 TAL 176.25 TAP 278.88 RCA  89.96 APO 151.94 V2  34.860
RC  46.700 GL  -21.24 GP     .21 ZAL  85.21 ZAP   5.15 ETS 357.31 ZAE 153.19 ETE  25.05 ZAC  92.20 ETC  13.85 CLP   5.14
```

PLANETOCENTRIC CONIC

```
C3  17.481 VHL  4.181 DLA -15.82 RAL 162.96 RAD 6567.7 VEL 11.784 PTH   2.08 VHP  8.535 DPA   6.03 RAP 175.07 ECC 1.2877
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 20 53	1667.46	-3.63	9.25	21.45	118.10	7 48 40	1067.5	.16	2.62
90.00	15 5 47	5342.09	27.63	243.38	27.47	83.52	16 34 49	4742.1	26.44	234.91
100.00	8 33 28	1433.24	-4.76	351.41	20.82	119.55	8 57 21	833.2	.73	344.87
100.00	16 35 53	5051.53	28.91	221.82	27.29	82.04	18 0 4	4451.5	27.50	213.30
110.00	9 22 16	1280.37	-7.66	338.03	19.04	123.42	9 43 36	680.4	3.21	331.77
110.00	18 3 34	4777.17	32.25	200.30	26.60	78.01	19 23 11	4177.2	30.27	191.65

DIFFERENTIAL CORRECTIONS

```
TDE  .5314 TRA -.7447 TC3  .5951 BAU  .1473
RDE -.2535 RRA -.1053 RC3  .2075 FAU .03475
FDE -.7777 FRA  .5282 FC3-1.7208 BSP   4263
BDE  .5888 BRA  .7521 BC3  .6303 FSP   -447
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1379.5 SGR  416.2 SG3  167.8
RRT -.0133 RRF  .0097 RTF -.8548
SGB 1441.0 R23  .0029 R13  .8548
SG1 1379.6 SG2  416.2 THA 179.75
```

ORBIT DETERMINATION ACCURACY

```
ST   794.9 SR   359.3 SS   804.0
CRT -.8568 CRS  .9422 CST  .9792
LSA 1169.2 MSA  183.2 SSA   17.9
EL1  852.2 EL2  168.5 ALF 158.43
```

LAUNCH DATE JUN 7 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 15 1967

HELIOCENTRIC CONIC DISTANCE 251.388

```
RL  151.83 LAL   -.00 LOL 255.58 VL  25.678 GAL   1.07 AZL  93.41 HCA 105.81 SMA 121.88 ECC .24638 INC 3.4073 V1  29.345
RP  108.68 LAP  -3.28 LOP   1.42 VP  36.790 GAP -12.86 AZP  89.07 TAL 176.71 TAP 282.52 RCA  91.85 APO 151.91 V2  34.870
RC  47.841 GL  -22.28 GP     .22 ZAL  86.34 ZAP   7.10 ETS 357.74 ZAE 151.72 ETE  23.03 ZAC  91.01 ETC  13.76 CLP   7.10
```

PLANETOCENTRIC CONIC

```
C3  16.204 VHL  4.025 DLA -16.31 RAL 161.47 RAD 6567.6 VEL 11.730 PTH   2.07 VHP  8.069 DPA   5.55 RAP 176.20 ECC 1.2667
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 19 36	1631.96	-2.49	7.27	19.00	118.22	7 46 48	1032.0	1.30	.64
90.00	14 55 10	5342.71	27.63	243.42	24.85	83.54	16 24 12	4742.7	26.45	234.95
100.00	8 31 48	1399.01	-3.61	349.52	18.38	119.69	8 55 7	799.0	.37	342.99
100.00	16 25 39	5050.88	28.90	221.77	24.67	82.01	17 49 50	4450.9	27.49	213.25
110.00	9 19 47	1248.70	-6.47	336.35	16.61	123.64	9 40 36	648.7	-2.00	330.11
110.00	17 54 10	4773.96	32.21	200.06	23.99	77.88	19 13 44	4174.0	30.20	191.42

DIFFERENTIAL CORRECTIONS

```
TDE  .5416 TRA -.7098 TC3  .6996 BAU  .1588
RDE -.2380 RRA -.0968 RC3  .2186 FAU .03761
FDE -.8469 FRA  .5242 FC3-2.0095 BSP   4469
BDE  .5916 BRA  .7163 BC3  .7329 FSP   -505
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1421.1 SGR  407.8 SG3  186.8
RRT -.0187 RRF  .0136 RTF -.8653
SGB 1478.5 R23  .0041 R13  .8653
SG1 1421.1 SG2  407.8 THA 179.66
```

ORBIT DETERMINATION ACCURACY

```
ST   833.2 SR   341.5 SS   856.0
CRT -.8696 CRS  .9485 CST  .9804
LSA 1230.0 MSA  177.5 SSA   18.1
EL1  886.4 EL2  158.5 ALF 159.71
```

LAUNCH DATE JUN 7 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 17 1967

DISTANCE 258.102

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 25.827 GAL .87 AZL 93.41 HCA 108.98 SMA 122.75 ECC .23735 INC 3.4102 VI 29.345
RP 108.64 LAP -3.22 LOP 4.60 VP 36.904 GAP -12.07 AZP 88.89 TAL 177.20 TAP 286.19 RCA 93.61 APO 151.88 V2 34.881
RC 49.103 GL -23.29 GP .24 ZAL 87.53 ZAP 9.13 ETS 357.96 ZAE 150.44 ETE 21.31 ZAC 89.89 ETC 13.69 CLP -9.12

PLANETOCENTRIC CONIC
C3 15.099 VHL 3.886 DLA -16.76 RAL 159.93 RAD 6567.6 VEL 11.683 PTH 2.05 VHP 7.621 DPA 5.10 RAP 177.27 ECC 1.2485

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 17 51	1599.25	-1.44	5.44	16.59	118.28	7 44 30	999.2	2.36	358.81
90.00	14 44 41	5343.50	27.64	243.48	22.29	83.57	16 13 45	4743.5	26.46	235.01
100.00	8 29 40	1367.52	-2.55	347.79	15.98	119.79	8 52 27	767.5	1.44	341.27
100.00	16 15 33	5050.46	28.90	221.74	22.11	82.00	17 39 44	4450.5	27.49	213.22
110.00	9 16 52	1219.62	-5.37	334.82	14.22	123.81	9 37 12	619.6	-.89	328.59
110.00	17 44 50	4771.12	32.17	199.85	21.43	77.76	19 4 21	4171.1	30.15	191.22

DIFFERENTIAL CORRECTIONS
TDE .5479 TRA -.6773 TC3 .8018 BAU .1683
RDE -.2234 RRA -.0890 RC3 .2286 FAU .04079
FDE -.9226 FRA .5204 FC3-2.3385 BSP 4592
BDE .5917 BRA .6831 BC3 .8338 FSP -568

MID-COURSE EXECUTION ACCURACY
SGT 1459.0 SGR 398.5 SG3 208.0
RRT -.0215 RRF .0161 RTF -.8733
SGB 1512.5 R23 .0042 R13 .8732
SG1 1459.0 SG2 398.4 THA 179.64

ORBIT DETERMINATION ACCURACY
ST 866.5 SR 332.0 SS 910.4
CRT -.8799 CRS -.9541 CST .9810
LSA 1288.2 MSA 173.1 SSA 18.1
EL1 915.9 EL2 149.2 ALF 160.84

LAUNCH DATE JUN 7 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 19 1967

DISTANCE 264.810

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 25.964 GAL .68 AZL 93.41 HCA 112.16 SMA 123.56 ECC .22909 INC 3.4132 VI 29.345
RP 108.61 LAP -3.16 LOP 7.78 VP 37.010 GAP -11.30 AZP 88.71 TAL 177.71 TAP 289.88 RCA 95.25 APO 151.86 V2 34.891
RC 50.476 GL -24.27 GP .26 ZAL 88.74 ZAP 11.24 ETS 358.08 ZAE 149.37 ETE 19.85 ZAC 88.85 ETC 13.63 CLP -11.23

PLANETOCENTRIC CONIC
C3 14.146 VHL 3.761 DLA -17.17 RAL 158.38 RAD 6567.6 VEL 11.642 PTH 2.04 VHP 7.193 DPA 4.68 RAP 178.26 ECC 1.2328

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 15 38	1569.41	-.47	3.78	14.25	118.31	7 41 48	969.4	3.32	357.14
90.00	14 34 27	5344.36	27.64	243.54	19.79	83.60	16 3 32	4744.4	26.47	235.07
100.00	8 27 6	1338.82	-1.57	346.21	13.64	119.85	8 49 25	738.8	2.41	339.69
100.00	16 5 41	5050.18	28.89	221.72	19.61	81.99	17 29 51	4450.2	27.48	213.20
110.00	9 13 35	1193.17	-4.37	333.43	11.90	123.94	9 33 29	593.2	.12	327.21
110.00	17 35 41	4768.59	32.13	199.66	18.94	77.65	18 55 9	4168.6	30.10	191.04

DIFFERENTIAL CORRECTIONS
TDE .5521 TRA -.6456 TC3 .8975 BAU .1756
RDE -.2097 RRA -.0817 RC3 .2371 FAU .04426
FDE-1.0071 FRA .5150 FC3-2.7085 BSP 4669
BDE .5906 BRA .6508 BC3 .9283 FSP -638

MID-COURSE EXECUTION ACCURACY
SGT 1490.9 SGR 388.3 SG3 231.5
RRT -.0244 RRF .0189 RTF -.8790
SGB 1540.7 R23 .0042 R13 .8790
SG1 1491.0 SG2 388.2 THA 179.61

ORBIT DETERMINATION ACCURACY
ST 896.2 SR 321.8 SS 966.5
CRT -.8892 CRS -.9593 CST .9814
LSA 1346.0 MSA 169.8 SSA 18.1
EL1 941.9 EL2 140.1 ALF 161.88

LAUNCH DATE JUN 7 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 21 1967

DISTANCE 271.509

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 26.088 GAL .50 AZL 93.42 HCA 115.35 SMA 124.31 ECC .22156 INC 3.4164 VI 29.345
RP 108.58 LAP -3.09 LOP 10.97 VP 37.108 GAP -10.56 AZP 88.54 TAL 178.25 TAP 293.59 RCA 96.76 APO 151.85 V2 34.903
RC 51.950 GL -25.21 GP .29 ZAL 89.96 ZAP 13.45 ETS 358.15 ZAE 148.52 ETE 18.62 ZAC 87.90 ETC 13.57 CLP -13.44

PLANETOCENTRIC CONIC
C3 13.326 VHL 3.651 DLA -17.54 RAL 156.81 RAD 6567.5 VEL 11.607 PTH 2.03 VHP 6.784 DPA 4.31 RAP 179.16 ECC 1.2193

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 13 2	1542.45	.40	2.27	11.98	118.31	7 38 45	942.4	4.18	355.63
90.00	14 24 34	5345.19	27.65	243.60	17.37	83.63	15 53 39	4745.2	26.48	235.13
100.00	8 24 10	1312.92	-.70	344.79	11.37	119.89	8 46 3	712.9	3.29	338.27
100.00	15 56 7	5049.95	28.89	221.70	17.19	81.98	17 20 17	4450.0	27.48	213.19
110.00	9 10 0	1169.35	-3.46	332.18	9.65	124.03	9 29 29	569.3	1.03	325.97
110.00	17 26 47	4766.29	32.10	199.49	16.52	77.56	18 46 13	4166.3	30.05	190.87

DIFFERENTIAL CORRECTIONS
TDE .5589 TRA -.6111 TC3 1.0066 BAU .1845
RDE -.1968 RRA -.0749 RC3 .2440 FAU .04844
FDE-1.1056 FRA .5065 FC3-3.1468 BSP 4825
BDE .5925 BRA .6157 BC3 1.0357 FSP -724

MID-COURSE EXECUTION ACCURACY
SGT 1523.7 SGR 377.2 SG3 259.0
RRT -.0277 RRF .0210 RTF -.8866
SGB 1569.7 R23 .0052 R13 .8866
SG1 1523.7 SG2 377.1 THA 179.58

ORBIT DETERMINATION ACCURACY
ST 927.9 SR 311.1 SS 1028.4
CRT -.8994 CRS -.9642 CST .9822
LSA 1409.8 MSA 165.6 SSA 18.0
EL1 970.0 EL2 130.1 ALF 162.91

LAUNCH DATE JUN 7 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 23 1967

DISTANCE 278.198

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 26.201 GAL .33 AZL 93.42 HCA 118.53 SMA 125.00 ECC .21471 INC 3.4197 VI 29.345
RP 108.54 LAP -3.00 LOP 14.16 VP 37.198 GAP -9.85 AZP 88.37 TAL 178.79 TAP 297.32 RCA 98.16 APO 151.84 V2 34.914
RC 53.515 GL -26.10 GP .31 ZAL 91.18 ZAP 15.76 ETS 358.18 ZAE 147.92 ETE 17.57 ZAC 87.06 ETC 13.52 CLP -15.76

PLANETOCENTRIC CONIC
C3 12.622 VHL 3.553 DLA -17.86 RAL 155.26 RAD 6567.5 VEL 11.576 PTH 2.02 VHP 6.393 DPA 3.98 RAP 179.96 ECC 1.2077

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 10 8	1518.30	1.18	.93	9.80	118.29	7 35 26	918.3	4.95	354.28
90.00	14 15 5	5345.96	27.66	243.65	15.06	83.66	15 44 11	4746.0	26.49	235.18
100.00	8 20 57	1289.74	.09	343.52	9.20	119.89	8 42 27	689.7	4.07	336.99
100.00	15 46 57	5049.75	28.89	221.69	14.88	81.97	17 11 6	4449.7	27.48	213.17
110.00	9 6 11	1148.06	-2.65	331.07	7.49	124.09	9 25 19	548.1	1.84	324.86
110.00	17 18 13	4764.20	32.07	199.33	14.21	77.47	18 37 37	4164.2	30.01	190.73

DIFFERENTIAL CORRECTIONS
TDE .5596 TRA -.5799 TC3 1.0929 BAU .1892
RDE -.1845 RRA -.0687 RC3 .2494 FAU .05287
FDE-1.2129 FRA .4972 FC3-3.6260 BSP 4857
BDE .5892 BRA .5839 BC3 1.1210 FSP -811

MID-COURSE EXECUTION ACCURACY
SGT 1543.6 SGR 365.3 SG3 288.8
RRT -.0294 RRF .0225 RTF -.8902
SGB 1586.3 R23 .0053 R13 .8902
SG1 1543.7 SG2 365.1 THA 179.58

ORBIT DETERMINATION ACCURACY
ST 949.6 SR 299.6 SS 1090.3
CRT -.9071 CRS -.9685 CST .9824
LSA 1467.4 MSA 163.6 SSA 17.8
EL1 988.4 EL2 121.2 ALF 163.78

LAUNCH DATE JUN 7 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 25 1967

HELIOCENTRIC CONIC DISTANCE 284.875

RL 151.83 LAL -.00 LOL 255.58 VL 26.304 GAL .18 AZL 93.42 HCA 121.72 SMA 125.63 ECC .20851 INC 3.4233 V1 29.345
RP 108.50 LAP -2.91 LOP 17.34 VP 37.282 GAP -9.16 AZP 88.20 TAL 179.33 TAP 301.05 RCA 99.44 APO 151.83 V2 34.926
RC 55.163 GL -26.94 GP .34 ZAL 92.38 ZAP 18.20 ETS 358.20 ZAE 147.57 ETE 16.69 ZAC 86.33 ETC 13.48 CLP -18.20

PLANETOCENTRIC CONIC

C3 12.019 VHL 3.467 DLA -18.15 RAL 153.74 RAD 6567.5 VEL 11.550 PTH 2.02 VHP 6.021 DPA 3.70 RAP 180.65 ECC 1.1978

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 6 59	1496.86	1.87	359.73	7.73	118.26	7 31 56	896.9	5.63	353.07
90.00	14 6 6	5346.61	27.66	243.70	12.85	83.68	15 35 13	4746.6	26.50	235.23
100.00	8 17 32	1269.19	.79	342.39	7.13	119.88	8 38 41	669.2	4.76	335.86
100.00	15 38 14	5049.52	28.89	221.67	12.68	81.96	17 2 23	4449.5	27.47	213.15
110.00	9 2 13	1129.19	-1.93	330.08	5.43	124.14	9 21 2	529.2	2.56	323.88
110.00	17 10 2	4762.28	32.04	199.19	12.01	77.39	18 29 24	4162.3	29.97	190.59

DIFFERENTIAL CORRECTIONS
TDE .5597 TRA -.5467 TC3 1.1885 BAU .1953
RDE -.1728 RRA -.0629 RC3 .2528 FAU .05812
FDE-1.3332 FRA .4858 FC3-4.1866 BSP 4937
BDE .5858 BRA .5503 BC3 1.2151 FSP -916

MID-COURSE EXECUTION ACCURACY
SGT 1561.7 SGR 352.5 SG3 323.2
RRT -.0284 RRF .0211 RTF -.8958
SGB 1601.0 R23 .0057 R13 .8958
SG1 1561.7 SG2 352.3 THA 179.61

ORBIT DETERMINATION ACCURACY
ST 968.4 SR 287.5 SS 1154.6
CRT -.9148 CRS -.9723 CST .9829
LSA 1525.5 MSA 160.9 SSA 17.4
EL1 1003.9 EL2 112.0 ALF 164.61

LAUNCH DATE JUN 7 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 27 1967

HELIOCENTRIC CONIC DISTANCE 291.538

RL 151.83 LAL -.00 LOL 255.58 VL 26.396 GAL .03 AZL 93.43 HCA 124.90 SMA 126.21 ECC .20292 INC 3.4271 V1 29.345
RP 108.46 LAP -2.81 LOP 20.53 VP 37.358 GAP -8.50 AZP 88.04 TAL 179.87 TAP 304.77 RCA 100.60 APO 151.83 V2 34.928
RC 56.885 GL -27.72 GP .38 ZAL 93.53 ZAP 20.79 ETS 358.21 ZAE 147.48 ETE 15.98 ZAC 85.73 ETC 13.45 CLP -20.78

PLANETOCENTRIC CONIC

C3 11.504 VHL 3.392 DLA -18.40 RAL 152.27 RAD 6567.4 VEL 11.528 PTH 2.01 VHP 5.667 DPA 3.49 RAP 181.22 ECC 1.1893

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 3 43	1477.91	2.48	358.67	5.78	118.22	7 28 21	877.9	6.23	352.00
90.00	13 57 39	5347.22	27.66	243.75	10.78	83.70	15 26 46	4747.2	26.50	235.27
100.00	8 14 2	1251.03	1.40	341.40	5.18	119.86	8 34 53	651.0	5.37	334.85
100.00	15 30 2	5049.34	28.89	221.66	10.61	81.95	16 54 11	4449.3	27.47	213.14
110.00	8 58 13	1112.56	-1.29	329.21	3.49	124.16	9 16 46	512.6	3.20	323.01
110.00	17 2 19	4760.58	32.01	199.07	9.94	77.32	18 21 40	4160.6	29.94	190.47

DIFFERENTIAL CORRECTIONS
TDE .5318 TRA -.5260 TC3 1.1948 BAU .1879
RDE -.1612 RRA -.0575 RC3 .2554 FAU .06256
FDE-1.4332 FRA .4879 FC3-4.7079 BSP 4832
BDE .5557 BRA .5292 BC3 1.2218 FSP -1021

MID-COURSE EXECUTION ACCURACY
SGT 1530.0 SGR 338.6 SG3 354.3
RRT -.0162 RRF .0124 RTF -.8889
SGB 1567.0 R23 .0028 R13 .8889
SG1 1530.0 SG2 338.6 THA 179.78

ORBIT DETERMINATION ACCURACY
ST 941.6 SR 274.1 SS 1193.1
CRT -.9140 CRS -.9743 CST .9808
LSA 1535.5 MSA 164.3 SSA 17.0
EL1 974.8 EL2 107.4 ALF 164.91

LAUNCH DATE JUN 7 1967 FLIGHT TIME 114.00 ARRIVAL DATE SEP 29 1967

HELIOCENTRIC CONIC DISTANCE 298.187

RL 151.83 LAL -.00 LOL 255.58 VL 26.479 GAL -.10 AZL 93.43 HCA 128.09 SMA 126.74 ECC .19790 INC 3.4312 V1 29.345
RP 108.43 LAP -2.70 LOP 23.73 VP 37.429 GAP -7.85 AZP 87.88 TAL 180.39 TAP 308.49 RCA 101.66 APO 151.83 V2 34.951
RC 58.673 GL -28.45 GP .42 ZAL 94.64 ZAP 23.53 ETS 358.22 ZAE 147.68 ETE 15.42 ZAC 85.29 ETC 13.43 CLP -23.53

PLANETOCENTRIC CONIC

C3 11.066 VHL 3.327 DLA -18.61 RAL 150.86 RAD 6567.4 VEL 11.509 PTH 2.00 VHP 5.330 DPA 3.34 RAP 181.65 ECC 1.1821

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 0 23	1461.34	3.01	357.75	3.94	118.17	7 24 44	861.3	6.76	351.07
90.00	13 49 47	5347.71	27.67	243.78	8.85	83.72	15 18 54	4747.7	26.51	235.31
100.00	8 10 28	1235.16	1.94	340.53	3.35	119.84	8 31 3	635.2	5.90	333.97
100.00	15 22 22	5049.12	28.88	221.64	8.67	81.95	16 46 31	4449.1	27.47	213.13
110.00	8 54 14	1098.03	-.74	328.45	1.67	124.18	9 12 32	498.0	3.75	322.25
110.00	16 55 6	4759.02	31.99	198.95	8.01	77.25	18 14 25	4159.0	29.90	190.36

DIFFERENTIAL CORRECTIONS
TDE .5643 TRA -.4765 TC3 1.3478 BAU .2029
RDE -.1507 RRA -.0528 RC3 .2550 FAU .07116
FDE-1.6493 FRA .4398 FC3-5.5674 BSP 5128
BDE .5841 BRA .4794 BC3 1.3717 FSP -1198

MID-COURSE EXECUTION ACCURACY
SGT 1580.7 SGR 324.6 SG3 409.2
RRT -.0331 RRF .0209 RTF -.9050
SGB 1613.7 R23 .0104 R13 .9049
SG1 1580.8 SG2 324.4 THA 179.59

ORBIT DETERMINATION ACCURACY
ST 1006.4 SR 261.2 SS 1313.9
CRT -.9307 CRS -.9794 CST .9843
LSA 1668.2 MSA 156.0 SSA 16.5
EL1 1035.6 EL2 92.8 ALF 166.31

LAUNCH DATE JUN 7 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 1 1967

HELIOCENTRIC CONIC DISTANCE 304.819

RL 151.83 LAL -.00 LOL 255.58 VL 26.553 GAL -.21 AZL 93.44 HCA 131.29 SMA 127.22 ECC .19342 INC 3.4357 V1 29.345
RP 108.39 LAP -2.58 LOP 26.92 VP 37.493 GAP -7.23 AZP 87.73 TAL 180.89 TAP 312.18 RCA 102.62 APO 151.83 V2 34.964
RC 60.521 GL -29.12 GP .47 ZAL 95.68 ZAP 26.45 ETS 358.22 ZAE 148.16 ETE 15.02 ZAC 85.01 ETC 13.41 CLP -26.44

PLANETOCENTRIC CONIC

C3 10.694 VHL 3.270 DLA -18.80 RAL 149.54 RAD 6567.4 VEL 11.493 PTH 2.00 VHP 5.013 DPA 3.27 RAP 181.92 ECC 1.1760

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 57 7	1446.78	3.48	356.93	2.25	118.12	7 21 14	846.8	7.21	350.24
90.00	13 42 29	5348.28	27.67	243.82	7.06	83.74	15 11 38	4748.3	26.52	235.35
100.00	8 7 1	1221.23	2.41	339.76	1.66	119.80	8 27 22	621.2	6.36	333.20
100.00	15 15 17	5049.06	28.88	221.64	6.89	81.94	16 39 26	4449.1	27.47	213.12
110.00	8 50 24	1085.30	-.25	327.79	360.00	124.18	9 8 29	485.3	4.24	321.58
110.00	16 48 23	4757.75	31.97	198.86	6.23	77.20	18 7 41	4157.8	29.88	190.27

DIFFERENTIAL CORRECTIONS
TDE .5579 TRA -.4461 TC3 1.4073 BAU .2045
RDE -.1399 RRA -.0483 RC3 .2542 FAU .07911
FDE-1.8340 FRA .4165 FC3-6.4043 BSP 5140
BDE .5752 BRA .4487 BC3 1.4301 FSP -1363

MID-COURSE EXECUTION ACCURACY
SGT 1576.2 SGR 309.4 SG3 461.0
RRT -.0262 RRF .0136 RTF -.9077
SGB 1606.3 R23 .0111 R13 .9076
SG1 1576.2 SG2 309.3 THA 179.69

ORBIT DETERMINATION ACCURACY
ST 1008.8 SR 246.7 SS 1396.4
CRT -.9358 CRS -.9820 CST .9844
LSA 1733.2 MSA 155.3 SSA 15.8
EL1 1035.0 EL2 84.8 ALF 167.02

LAUNCH DATE JUN 7 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 3 1967

HELIOCENTRIC CONIC DISTANCE 311.434

RL	151.83	LAL	-.00	LOL	255.58	VL	26.620	GAL	-.32	AZL	93.44	HCA	134.48	SMA	127.65	ECC	.18944	INC	3.4406
RP	108.35	LAP	-2.45	LOP	30.12	VP	37.552	GAP	-6.63	AZP	87.59	TAL	181.36	TAP	315.85	RCA	103.47	APO	151.84
RC	62.420	GL	-29.73	GP	.53	ZAL	96.64	ZAP	29.57	ETS	358.23	ZAE	148.93	ETE	14.79	ZAC	84.92	ETC	13.41

V1	29.345	V2	34.977	CLP	-29.56														

PLANETOCENTRIC CONIC

C3	10.379	VHL	3.222	DLA	-18.97	RAL	148.32	RAD	6567.4	VEL	11.479	PTH	2.00	VHP	4.714	DPA	3.29	RAP	182.01
ECC	1.1708																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 54 3	1433.92	3.89	356.21	.71	118.07	7 17 57	833.9	7.62	349.51
90.00	13 35 47	5349.03	27.68	243.88	5.44	83.77	15 4 56	4749.0	26.53	235.40
100.00	8 3 46	1208.95	2.83	339.09	.12	119.77	8 23 55	608.9	6.77	332.52
100.00	15 8 46	5049.23	28.89	221.65	5.27	81.95	16 32 55	4449.2	27.47	213.13
110.00	8 46 48	1074.11	.18	327.21	358.46	124.18	9 4 42	474.1	4.66	320.99
110.00	16 42 13	4756.84	31.96	198.79	4.61	77.16	18 1 30	4156.8	29.86	190.20

DIFFERENTIAL CORRECTIONS

TDE	.5468	TRA	-.4184	TC3	1.4295	BAU	.2014
RDE	-.1292	RRA	-.0442	RC3	.2526	FAU	.08772
FDE	-2.0430	FRA	.3927	FC3	-7.3170	BSP	5096
BDE	.5619	BRA	.4207	BC3	1.4516	FSP	-1550

MID-COURSE EXECUTION ACCURACY

SGT	1553.5	SGR	293.5	SG3	518.2		
RRT	-.0179	RRF	.0034	RTF	-.9076		
SGB	1581.0	R23	.0134	R13	.9076		
SG1	1553.5	SG2	293.5	THA	179.80		

ORBIT DETERMINATION ACCURACY

ST	1001.2	SR	231.1	SS	1483.7		
CRT	-.9395	CRS	-.9840	CST	.9843		
LSA	1798.0	MSA	155.4	SSA	15.1		
EL1	1024.6	EL2	77.3	ALF	167.69		

LAUNCH DATE JUN 7 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 5 1967

HELIOCENTRIC CONIC DISTANCE 318.032

RL	151.83	LAL	-.00	LOL	255.58	VL	26.678	GAL	-.41	AZL	93.45	HCA	137.68	SMA	128.04	ECC	.18592	INC	3.4461
RP	108.31	LAP	-2.32	LOP	33.31	VP	37.606	GAP	-6.04	AZP	87.45	TAL	181.80	TAP	319.48	RCA	104.23	APO	151.84
RC	64.367	GL	-30.28	GP	.60	ZAL	97.51	ZAP	32.90	ETS	358.25	ZAE	150.03	ETE	14.75	ZAC	85.04	ETC	13.41

V1	29.345	V2	34.990	CLP	-32.90														

PLANETOCENTRIC CONIC

C3	10.113	VHL	3.180	DLA	-19.13	RAL	147.20	RAD	6567.4	VEL	11.467	PTH	1.99	VHP	4.434	DPA	3.41	RAP	181.91
ECC	1.1664																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 51 17	1422.43	4.26	355.57	359.32	118.02	7 14 59	822.4	7.98	348.86
90.00	13 29 39	5350.12	27.69	243.96	3.98	83.81	14 58 49	4750.1	26.54	235.48
100.00	8 0 50	1198.00	3.20	338.48	358.73	119.74	8 20 48	598.0	7.13	331.91
100.00	15 2 47	5049.77	28.89	221.69	3.81	81.97	16 26 57	4449.8	27.48	213.17
110.00	8 43 32	1064.17	.56	326.69	357.09	124.18	9 1 16	464.2	5.04	320.47
110.00	16 36 34	4756.37	31.95	198.75	3.16	77.14	17 55 50	4156.4	29.85	190.17

DIFFERENTIAL CORRECTIONS

TDE	.5264	TRA	-.3939	TC3	1.4082	BAU	.1934
RDE	-.1183	RRA	-.0403	RC3	.2507	FAU	.09694
FDE	-2.2665	FRA	.3688	FC3	-8.2981	BSP	4860
BDE	.5395	BRA	.3960	BC3	1.4304	FSP	-1732

MID-COURSE EXECUTION ACCURACY

SGT	1505.3	SGR	277.0	SG3	579.7		
RRT	-.0036	RRF	-.0138	RTF	-.9037		
SGB	1530.6	R23	.0172	R13	.9037		
SG1	1505.3	SG2	277.0	THA	179.96		

ORBIT DETERMINATION ACCURACY

ST	975.2	SR	214.4	SS	1567.6		
CRT	-.9412	CRS	-.9855	CST	.9835		
LSA	1851.9	MSA	156.5	SSA	14.2		
EL1	995.9	EL2	70.9	ALF	168.25		

LAUNCH DATE JUN 7 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 7 1967

HELIOCENTRIC CONIC DISTANCE 324.611

RL	151.83	LAL	-.00	LOL	255.58	VL	26.730	GAL	-.49	AZL	93.45	HCA	140.88	SMA	128.38	ECC	.18283	INC	3.4524
RP	108.27	LAP	-2.18	LOP	36.51	VP	37.655	GAP	-5.47	AZP	87.32	TAL	182.19	TAP	323.07	RCA	104.91	APO	151.85
RC	66.356	GL	-30.78	GP	.68	ZAL	98.29	ZAP	36.48	ETS	358.28	ZAE	151.45	ETE	14.94	ZAC	85.39	ETC	13.42

V1	29.345	V2	35.003	CLP	-36.48														

PLANETOCENTRIC CONIC

C3	9.891	VHL	3.145	DLA	-19.28	RAL	146.20	RAD	6567.4	VEL	11.458	PTH	1.99	VHP	4.173	DPA	3.64	RAP	181.60
ECC	1.1628																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 48 53	1412.01	4.59	354.98	358.09	117.97	7 12 25	812.0	8.30	348.26
90.00	13 24 3	5351.67	27.70	244.07	2.70	83.86	14 53 14	4751.7	26.56	235.59
100.00	7 58 16	1188.11	3.53	337.94	357.51	119.70	8 18 4	588.1	7.46	331.35
100.00	14 57 21	5050.81	28.90	221.77	2.53	82.01	16 21 31	4450.8	27.49	213.25
110.00	8 40 40	1055.25	.90	326.22	355.86	124.17	8 58 15	455.2	5.38	320.00
110.00	16 31 26	4756.43	31.95	198.76	1.88	77.15	17 50 42	4156.4	29.85	190.18

DIFFERENTIAL CORRECTIONS

TDE	.5054	TRA	-.3695	TC3	1.3825	BAU	.1858
RDE	-.1071	RRA	-.0367	RC3	.2488	FAU	.10808
FDE	-2.5328	FRA	.3389	FC3	-9.4601	BSP	4730
BDE	.5166	BRA	.3714	BC3	1.4048	FSP	-1978

MID-COURSE EXECUTION ACCURACY

SGT	1453.5	SGR	260.0	SG3	653.0		
RRT	.0182	RRF	-.0391	RTF	-.9002		
SGB	1476.6	R23	-.0222	R13	-.9002		
SG1	1453.5	SG2	260.0	THA	.19		

ORBIT DETERMINATION ACCURACY

ST	945.7	SR	196.4	SS	1666.6		
CRT	-.9425	CRS	-.9867	CST	.9827		
LSA	1919.8	MSA	157.1	SSA	13.4		
EL1	963.7	EL2	64.4	ALF	168.87		

LAUNCH DATE JUN 7 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 9 1967

HELIOCENTRIC CONIC DISTANCE 331.171

RL	151.83	LAL	-.00	LOL	255.58	VL	26.775	GAL	-.56	AZL	93.46	HCA	144.08	SMA	128.68	ECC	.18013	INC	3.4596
RP	108.22	LAP	-2.03	LOP	39.71	VP	37.699	GAP	-4.92	AZP	87.20	TAL	182.54	TAP	326.62	RCA	105.50	APO	151.86
RC	68.382	GL	-31.24	GP	.78	ZAL	98.95	ZAP	40.33	ETS	358.32	ZAE	153.20	ETE	15.43	ZAC	85.98	ETC	13.44

V1	29.345	V2	35.016	CLP	-40.32														

PLANETOCENTRIC CONIC

C3	9.706	VHL	3.115	DLA	-19.42	RAL	145.31	RAD	6567.4	VEL	11.450	PTH	1.99	VHP	3.933	DPA	4.00	RAP	181.06
ECC	1.1597																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 46 59	1402.28	4.90	354.44	357.03	117.92	7 10 21	802.3	8.60	347.71
90.00	13 18 55	5353.92	27.71	244.23	1.58	83.94	14 48 9	4753.9	26.58	235.74
100.00	7 56 12	1178.90	3.84	337.43	356.44	119.67	8 15 51	578.9	7.76	330.84
100.00	14 52 23	5052.53	28.92	221.89	1.42	82.07	16 16 35	4452.5	27.52	213.37
110.00	8 38 17	1047.02	1.21	325.79	354.80	124.16	8 55 44	447.0	5.69	319.57
110.00	16 26 47	4757.17	31.96	198.81	.77	77.18	17 46 4	4157.2	29.87	190.23

DIFFERENTIAL CORRECTIONS

TDE	.4742	TRA	-.3477	TC3	1.3036	BAU	.1722
RDE	-.0956	RRA	-.0333	RC3	.2475	FAU	.11973
FDE	-2.8173	FRA	.3072	FC	-10.6797	BSP	4450
BDE	.4837	BRA	.3493	BC3	1.3269	FSP	-2228

MID-COURSE EXECUTION ACCURACY

SGT	1371.1	SGR	242.7	SG3	730.5		
RRT	.0481	RRF	-.0751	RTF	-.8910		
SGB	1392.4	R23	-.0308	R13	-.8911		
SG1	1371.2	SG2	242.4	THA	.50		

ORBIT DETERMINATION ACCURACY

ST	895.8	SR	176.9	SS	1763.1		
CRT	-.9415	CRS	-.9874	CST	.9811		
LSA	1979.1	MSA	158.2	SSA	12.4		
EL1	911.2	EL2	58.6	ALF	169.42		

LAUNCH DATE JUN 7 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 11 1967

HELIOCENTRIC CONIC DISTANCE 337.712

RL 151.83 LAL -.00 LOL 255.58 VL 26.814 GAL -.61 AZL 93.47 HCA 147.28 SMA 128.94 ECC .17781 INC 3.4679 V1 29.345
RP 108.18 LAP -1.87 LOP 42.91 VP 37.739 GAP -4.39 AZP 87.08 TAL 182.83 TAP 330.11 RCA 106.01 APO 151.87 V2 35.029
RC 70.443 GL -31.65 GP .89 ZAL 99.51 ZAP 44.45 ETS 358.38 ZAE 155.30 ETE 16.30 ZAC 86.84 ETC 13.49 CLP -44.44

PLANETOCENTRIC CONIC

C3 9.553 VHL 3.091 DLA -19.58 RAL 144.56 RAD 6567.3 VEL 11.443 PTH 1.98 VHP 3.713 DPA 4.48 RAP 180.27 ECC 1.1572

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 45 39	1392.87	5.20	353.91	356.12	117.87	7 8 52	792.9	8.89	347.17
90.00	13 14 13	5357.07	27.74	244.46	.64	84.05	14 43 30	4757.1	26.62	235.97
100.00	7 54 41	1170.06	4.14	336.94	355.54	119.63	8 14 12	570.1	8.05	330.34
100.00	14 47 51	5055.12	28.94	222.08	.48	82.17	16 12 6	4455.1	27.55	213.55
110.00	8 36 27	1039.22	1.51	325.39	353.90	124.15	8 53 46	439.2	5.98	319.16
110.00	16 22 35	4758.72	31.98	198.93	359.84	77.24	17 41 54	4158.7	29.90	190.34

DIFFERENTIAL CORRECTIONS
TDE .4374 TRA -.3277 TC3 1.1923 BAU .1555
RDE -.0835 RRA -.0302 RC3 .2473 FAU .13267
FDE-3.1383 FRA .2713 FC-12.0235 BSP 4093
BDE .4453 BRA .3291 BC3 1.2177 FSP -2504

MID-COURSE EXECUTION ACCURACY
SGT 1271.4 SGR 225.5 SG3 816.8
RRT .0887 RRF -.1254 RTF -.8769
SGB 1291.3 R23 -.0453 R13 -.8770
SG1 1271.6 SG2 224.6 THA .93

ORBIT DETERMINATION ACCURACY
ST 833.9 SR 155.9 SS 1868.6
CRT -.9383 CRS -.9876 CST .9787
LSA 2046.0 MSA 159.1 SSA 11.5
EL1 846.7 EL2 53.1 ALF 170.01

LAUNCH DATE JUN 7 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 13 1967

HELIOCENTRIC CONIC DISTANCE 344.233

RL 151.83 LAL -.00 LOL 255.58 VL 26.847 GAL -.65 AZL 93.48 HCA 150.49 SMA 129.16 ECC .17583 INC 3.4779 V1 29.345
RP 108.14 LAP -1.71 LOP 46.12 VP 37.775 GAP -3.87 AZP 86.97 TAL 183.06 TAP 333.56 RCA 106.45 APO 151.87 V2 35.042
RC 72.534 GL -32.03 GP 1.04 ZAL 99.95 ZAP 48.86 ETS 358.45 ZAE 157.73 ETE 17.73 ZAC 87.97 ETC 13.56 CLP -48.85

PLANETOCENTRIC CONIC

C3 9.428 VHL 3.071 DLA -19.74 RAL 143.93 RAD 6567.3 VEL 11.438 PTH 1.98 VHP 3.516 DPA 5.10 RAP 179.22 ECC 1.1552

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 45 0	1383.41	5.50	353.37	355.39	117.82	7 8 3	783.4	9.19	346.63
90.00	13 9 51	5361.40	27.77	244.77	359.88	84.21	14 39 12	4761.4	26.67	236.27
100.00	7 53 51	1161.22	4.44	336.46	354.80	119.59	8 13 12	561.2	8.34	329.85
100.00	14 43 41	5058.82	28.97	222.35	359.72	82.31	16 7 59	4458.8	27.61	213.81
110.00	8 35 14	1031.53	1.81	324.99	353.17	124.14	8 52 26	431.5	6.27	318.75
110.00	16 18 47	4761.28	32.02	199.12	359.08	77.35	17 38 8	4161.3	29.95	190.52

DIFFERENTIAL CORRECTIONS
TDE .3886 TRA -.3119 TC3 1.0267 BAU .1332
RDE -.0707 RRA -.0272 RC3 .2488 FAU .14610
FDE-3.4730 FRA .2410 FC-13.4148 BSP 3646
BDE .3950 BRA .3131 BC3 1.0564 FSP -2804

MID-COURSE EXECUTION ACCURACY
SGT 1142.7 SGR 208.9 SG3 906.6
RRT .1426 RRF -.1961 RTF -.8498
SGB 1161.6 R23 -.0716 R13 -.8501
SG1 1143.1 SG2 206.7 THA 1.54

ORBIT DETERMINATION ACCURACY
ST 748.7 SR 132.9 SS 1970.3
CRT -.9297 CRS -.9870 CST .9740
LSA 2105.8 MSA 160.6 SSA 10.5
EL1 758.8 EL2 48.3 ALF 170.59

LAUNCH DATE JUN 7 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 15 1967

HELIOCENTRIC CONIC DISTANCE 350.734

RL 151.83 LAL -.00 LOL 255.58 VL 26.874 GAL -.68 AZL 93.49 HCA 153.70 SMA 129.35 ECC .17416 INC 3.4902 V1 29.345
RP 108.10 LAP -1.55 LOP 49.33 VP 37.807 GAP -3.36 AZP 86.87 TAL 183.24 TAP 336.94 RCA 106.82 APO 151.88 V2 35.056
RC 74.652 GL -32.38 GP 1.22 ZAL 100.27 ZAP 53.57 ETS 358.55 ZAE 160.48 ETE 20.03 ZAC 89.38 ETC 13.66 CLP -53.56

PLANETOCENTRIC CONIC

C3 9.330 VHL 3.055 DLA -19.93 RAL 143.43 RAD 6567.3 VEL 11.433 PTH 1.98 VHP 3.340 DPA 5.88 RAP 177.92 ECC 1.1536

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 45 7	1373.52	5.82	352.82	354.82	117.76	7 8 1	773.5	9.49	346.06
90.00	13 5 44	5367.20	27.81	245.19	359.29	84.41	14 35 11	4767.2	26.74	236.69
100.00	7 53 45	1152.05	4.75	335.95	354.23	119.55	8 12 57	552.0	8.65	329.33
100.00	14 39 47	5063.90	29.02	222.72	359.13	82.50	16 4 11	4463.9	27.68	214.17
110.00	8 34 43	1023.67	2.11	324.58	352.59	124.13	8 51 47	423.7	6.57	318.33
110.00	16 15 18	4735.04	32.08	199.40	358.51	77.50	17 34 43	4165.0	30.03	190.79

DIFFERENTIAL CORRECTIONS
TDE .3326 TRA -.2983 TC3 .8227 BAU .1074
RDE -.0569 RRA -.0243 RC3 .2528 FAU .16047
FDE-3.8423 FRA .2087 FC-14.8900 BSP 3119
BDE .3374 BRA .2993 BC3 .8606 FSP -3131

MID-COURSE EXECUTION ACCURACY
SGT 998.0 SGR 193.9 SG3 1003.4
RRT .2061 RRF -.2911 RTF -.8038
SGB 1016.7 R23 -.1218 R13 -.8048
SG1 998.8 SG2 189.6 THA 2.38

ORBIT DETERMINATION ACCURACY
ST 649.1 SR 107.8 SS 2081.8
CRT -.9133 CRS -.9851 CST .9660
LSA 2177.3 MSA 161.8 SSA 9.4
EL1 656.6 EL2 43.4 ALF 171.33

LAUNCH DATE JUN 7 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 17 1967

HELIOCENTRIC CONIC DISTANCE 357.216

RL 151.83 LAL -.00 LOL 255.58 VL 26.897 GAL -.70 AZL 93.51 HCA 156.91 SMA 129.50 ECC .17279 INC 3.5055 V1 29.345
RP 108.06 LAP -1.37 LOP 52.53 VP 37.835 GAP -2.87 AZP 86.77 TAL 183.35 TAP 340.27 RCA 107.13 APO 151.88 V2 35.069
RC 76.795 GL -32.72 GP 1.44 ZAL 100.47 ZAP 58.56 ETS 358.67 ZAE 163.49 ETE 23.75 ZAC 91.05 ETC 13.81 CLP -58.55

PLANETOCENTRIC CONIC

C3 9.256 VHL 3.042 DLA -20.15 RAL 143.06 RAD 6567.3 VEL 11.430 PTH 1.98 VHP 3.189 DPA 6.80 RAP 176.38 ECC 1.1523

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 46 9	1362.68	6.16	352.21	354.42	117.69	7 8 52	762.7	9.82	345.44
90.00	13 1 43	5374.94	27.86	245.75	358.88	84.69	14 31 18	4774.9	26.83	237.24
100.00	7 54 30	1142.08	5.08	335.40	353.83	119.50	8 13 32	542.1	8.97	328.77
100.00	14 36 3	5070.77	29.08	223.22	358.73	82.76	16 0 34	4470.8	27.77	214.66
110.00	8 34 58	1015.28	2.43	324.14	352.18	124.11	8 51 53	415.3	6.89	317.89
110.00	16 12 5	4770.34	32.16	199.79	358.11	77.72	17 31 35	4170.3	30.13	191.16

DIFFERENTIAL CORRECTIONS
TDE .2633 TRA -.2888 TC3 .5603 BAU .0764
RDE -.0420 RRA -.0216 RC3 .2598 FAU .17444
FDE-4.2101 FRA .1875 FC-16.3152 BSP 2431
BDE .2666 BRA .2896 BC3 .6177 FSP -3439

MID-COURSE EXECUTION ACCURACY
SGT 835.2 SGR 182.0 SG3 1098.2
RRT .2619 RRF -.4144 RTF -.7096
SGB 854.8 R23 -.2279 R13 -.7126
SG1 836.7 SG2 175.4 THA 3.42

ORBIT DETERMINATION ACCURACY
ST 525.5 SR 80.3 SS 2186.1
CRT -.8746 CRS -.9797 CST .9482
LSA 2243.9 MSA 163.4 SSA 8.4
EL1 530.2 EL2 38.6 ALF 172.35

LAUNCH DATE JUN 7 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 19 1967

HELIOCENTRIC CONIC DISTANCE 363.677

```
RL  151.83 LAL   -.00 LOL 255.58 VL  26.915 GAL   -.70 AZL  93.53 HCA 160.13 SMA 129.63 ECC .17168 INC 3.5255 VI  29.345
RP  108.02 LAP  -1.20 LOP  55.74 VP  37.860 GAP  -2.39 AZP  86.68 TAL 183.40 TAP 343.53 RCA 107.37 APO 151.88 V2  35.082
RC  78.958 GL  -33.06 GP    1.73 ZAL 100.55 ZAP  63.82 ETS 358.82 ZAE 166.65 ETE  30.07 ZAC  92.95 ETC  14.02 CLP -63.80
```

PLANETOCENTRIC CONIC

```
C3   9.206 VHL  3.034 DLA -20.42 RAL 142.80 RAD 6567.3 VEL 11.428 PTH   1.98 VHP  3.061 DPA   7.90 RAP 174.62 ECC 1.1515
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 48 13	1350.31	6.55	351.51	354.19	117.61	7 10 44	750.3	10.20	344.73
90.00	12 57 38	5385.21	27.92	246.50	358.65	85.06	14 27 24	4785.2	26.94	237.97
100.00	7 56 15	1130.80	5.46	334.77	353.59	119.44	8 15 5	530.8	9.34	328.14
100.00	14 32 18	5079.96	29.16	223.90	358.50	83.10	15 56 58	4480.0	27.90	215.32
110.00	8 36 5	1005.94	2.78	323.65	351.93	124.08	8 52 51	405.9	7.24	317.39
110.00	16 8 57	4777.58	32.26	200.33	357.90	78.03	17 28 35	4177.6	30.27	191.68

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .1839 TRA -.2812 TC3  .2558 BAU  .0459   SGT  682.4 SGR  175.9 SG3 1192.1      ST   386.7 SR    49.7 SS  2291.2
RDE -.0255 RRA -.0191 RC3  .2716 FAU .18820   RRT  .2553 RRF -.5631 RTF -.5171      CRT -.7659 CRS -.9604 CST  .9032
FDE-4.5837 FRA  .1714 FC-17.6980 BSP  1684    SGB  704.7 R23 -.4368 R13 -.5248      LSA 2318.3 MSA  164.5 SSA    7.3
BDE  .1857 BRA  .2818 BC3  .3731 FSP  -3762   SG1  684.0 SG2  169.7 THA   4.01     EL1  388.6 EL2   31.8 ALF 174.34
```

LAUNCH DATE JUN 7 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 21 1967

HELIOCENTRIC CONIC DISTANCE 370.119

```
RL  151.83 LAL   -.00 LOL 255.58 VL  26.929 GAL   -.70 AZL  93.55 HCA 163.34 SMA 129.72 ECC .17082 INC 3.5529 VI  29.345
RP  107.98 LAP  -1.02 LOP  58.96 VP  37.881 GAP  -1.93 AZP  86.60 TAL 183.39 TAP 346.73 RCA 107.56 APO 151.88 V2  35.094
RC  81.139 GL  -33.41 GP    2.13 ZAL 100.50 ZAP  69.29 ETS 359.00 ZAE 169.69 ETE  41.57 ZAC  95.04 ETC  14.29 CLP -69.28
```

PLANETOCENTRIC CONIC

```
C3   9.184 VHL  3.030 DLA -20.75 RAL 142.67 RAD 6567.3 VEL 11.427 PTH   1.98 VHP  2.960 DPA   9.16 RAP 172.69 ECC 1.1511
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 51 35	1335.49	7.02	350.67	354.13	117.50	7 13 51	735.5	10.65	343.87
90.00	12 53 11	5399.08	28.00	247.50	358.59	85.56	14 23 10	4799.1	27.09	238.96
100.00	7 59 10	1117.39	5.91	334.03	353.53	119.36	8 17 47	517.4	9.77	327.38
100.00	14 28 17	5092.42	29.26	224.81	358.46	83.57	15 53 9	4492.4	28.06	216.21
110.00	8 38 12	995.04	3.20	323.08	351.85	124.05	8 54 47	395.0	7.65	316.82
110.00	16 5 44	4787.53	32.40	201.07	357.88	78.45	17 25 32	4187.5	30.47	192.39

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .0920 TRA -.2764 TC3 -.1027 BAU  .0377   SGT  588.6 SGR  179.2 SG3 1275.0      ST   241.6 SR    17.0 SS  2389.0
RDE -.0066 RRA -.0167 RC3  .2896 FAU .19995   RRT  .0548 RRF -.7183 RTF -.1264      CRT -.1199 CRS -.7209 CST  .7266
FDE-4.9379 FRA  .1634 FC-18.8486 BSP  846     SGB  615.3 R23 -.7117 R13 -.1303      LSA 2395.5 MSA  165.9 SSA    6.2
BDE  .0923 BRA  .2769 BC3  .3073 FSP  -4040   SG1  588.7 SG2  178.9 THA   1.05     EL1  241.6 EL2   16.8 ALF 179.52
```

LAUNCH DATE JUN 7 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 23 1967

HELIOCENTRIC CONIC DISTANCE 376.540

```
RL  151.83 LAL   -.00 LOL 255.58 VL  26.939 GAL   -.68 AZL  93.59 HCA 166.56 SMA 129.79 ECC .17019 INC 3.5930 VI  29.345
RP  107.94 LAP   -.83 LOP  62.17 VP  37.900 GAP  -1.47 AZP  86.50 TAL 183.31 TAP 349.87 RCA 107.70 APO 151.88 V2  35.107
RC  83.336 GL  -33.83 GP    2.69 ZAL 100.32 ZAP  74.93 ETS 359.22 ZAE 171.97 ETE  63.02 ZAC  97.24 ETC  14.66 CLP -74.92
```

PLANETOCENTRIC CONIC

```
C3   9.196 VHL  3.032 DLA -21.18 RAL 142.63 RAD 6567.3 VEL 11.427 PTH   1.98 VHP  2.884 DPA  10.64 RAP 170.67 ECC 1.1513
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 56 41	1316.60	7.61	349.60	354.26	117.36	7 18 37	716.6	11.22	342.77
90.00	12 47 46	5418.49	28.09	248.92	358.73	86.26	14 18 5	4818.5	27.27	240.35
100.00	8 3 39	1100.46	6.47	333.09	353.64	119.25	8 22 0	500.5	10.32	326.42
100.00	14 23 29	5109.87	29.38	226.09	358.61	84.24	15 48 39	4509.9	28.27	217.46
110.00	8 41 36	981.54	3.71	322.37	351.94	124.01	8 57 57	381.5	8.15	316.10
110.00	16 2 2	4801.55	32.58	202.12	358.06	79.04	17 22 3	4201.6	30.73	193.40

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE -.0109 TRA -.2739 TC3 -.4941 BAU  .0723   SGT  631.1 SGR  198.2 SG3 1346.2      ST   168.0 SR    32.4 SS  2482.4
RDE  .0162 RRA -.0147 RC3  .3192 FAU .20980   RRT -.3370 RRF -.8528 RTF  .3663      CRT  .1473 CRS  .9532 CST -.1142
FDE-5.2699 FRA  .1723 FC-19.7510 BSP  600     SGB  661.5 R23  .7618 R13 -.3923      LSA 2482.6 MSA  167.1 SSA    5.1
BDE  .0195 BRA  .2743 BC3  .5882 FSP  -4269   SG1  634.9 SG2  185.5 THA 173.39     EL1  168.1 EL2   32.0 ALF   1.69
```

LAUNCH DATE JUN 7 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 25 1967

HELIOCENTRIC CONIC DISTANCE 382.942

```
RL  151.83 LAL   -.00 LOL 255.58 VL  26.945 GAL   -.65 AZL  93.66 HCA 169.78 SMA 129.83 ECC .16978 INC 3.6581 VI  29.345
RP  107.91 LAP   -.65 LOP  65.39 VP  37.916 GAP  -1.02 AZP  86.40 TAL 183.16 TAP 352.95 RCA 107.79 APO 151.87 V2  35.119
RC  85.546 GL  -34.39 GP    3.59 ZAL 100.00 ZAP  80.66 ETS 359.51 ZAE 172.18 ETE  94.19 ZAC  99.43 ETC  15.17 CLP -80.65
```

PLANETOCENTRIC CONIC

```
C3   9.264 VHL  3.044 DLA -21.80 RAL 142.65 RAD 6567.3 VEL 11.430 PTH   1.98 VHP  2.834 DPA  12.46 RAP 168.68 ECC 1.1525
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 4 28	1290.13	8.44	348.09	354.60	117.13	7 25 59	690.1	12.01	341.23
90.00	12 40 9	5447.82	28.20	251.05	359.08	87.33	14 10 57	4847.8	27.53	242.45
100.00	8 10 31	1077.01	7.25	331.78	353.96	119.08	8 28 28	477.0	11.07	325.08
100.00	14 16 49	5136.18	29.55	228.03	358.98	85.24	15 42 25	4536.2	28.57	219.36
110.00	8 46 48	963.24	4.41	321.41	352.21	123.93	9 2 51	363.2	8.84	315.12
110.00	15 57 0	4822.71	32.85	203.72	358.48	79.95	17 17 23	4222.7	31.11	194.93

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE -.1259 TRA -.2734 TC3 -.9121 BAU  .1219   SGT  819.6 SGR  243.8 SG3 1397.5      ST   290.1 SR    88.9 SS  2570.5
RDE  .0469 RRA -.0129 RC3  .3708 FAU .21632   RRT -.6592 RRF -.9417 RTF  .6876      CRT -.7653 CRS  .9961 CST -.8127
FDE-5.5731 FRA  .1814 FC-20.2153 BSP  1546    SGB  855.1 R23  .6185 R13 -.7156      LSA 2582.8 MSA  168.4 SSA    4.0
BDE  .1344 BRA  .2737 BC3  .9846 FSP  -4454   SG1  836.0 SG2  179.7 THA 168.36     EL1  298.2 EL2   55.6 ALF 166.32
```

LAUNCH DATE JUN 7 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 27 1967

HELIOCENTRIC CONIC DISTANCE 389.324

```
RL  151.83 LAL   -.00 LOL 255.58 VL  26.948 GAL   -.60 AZL  93.78 HCA 173.01 SMA 129.85 ECC .16957 INC 3.7807 VI  29.345
RP  107.87 LAP   -.46 LOP  68.60 VP  37.929 GAP   -.59 AZP  86.25 TAL 182.95 TAP 355.96 RCA 107.83 APO 151.87 V2  35.131
RC  87.767 GL  -35.32 GP    5.28 ZAL  99.51 ZAP  86.40 ETS 359.92 ZAE 169.58 ETE 117.84 ZAC 101.40 ETC  15.94 CLP -86.38
```

PLANETOCENTRIC CONIC

```
C3   9.451 VHL  3.074 DLA -22.81 RAL 142.64 RAD 6567.3 VEL 11.439 PTH   1.98 VHP  2.813 DPA  14.99 RAP 166.98 ECC 1.1555
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 17 52	1245.89	9.80	345.55	355.24	116.70	7 38 38	645.9	13.31	338.63
90.00	12 26 40	5499.86	28.31	254.86	359.72	89.23	13 58 20	4899.9	27.90	246.22
100.00	8 22 7	1038.51	8.52	329.63	354.55	118.76	8 39 26	438.5	12.29	322.87
100.00	14 5 6	5182.47	29.76	231.45	359.67	87.03	15 31 28	4582.5	29.03	222.72
110.00	8 55 26	934.09	5.52	319.88	352.72	123.79	9 11 0	334.1	9.92	313.56
110.00	15 48 17	4859.66	33.25	206.53	359.26	81.57	17 9 17	4259.7	31.73	197.63

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE -.2526 TRA -.2731 TC3-1.3147 BAU  .1765    SGT 1086.3 SGR  342.8 SG3 1416.3    ST   499.7 SR   180.8 SS  2646.4
RDE  .0968 RRA -.0125 RC3  .4722 FAU .21754    RRT -.8210 RRF -.9845 RTF  .8302   CRT -.9287 CRS  .9995 CST -.9392
FDE-5.8389 FRA  .2182 FC-19.9265 BSP   2676    SGB 1139.1 R23  .4927 R13 -.8532   LSA 2693.9 MSA  169.1 SSA    2.9
BDE  .2705 BRA  .2734 BC3 1.3969 FSP  -4490    SG1 1123.3 SG2  189.3 THA 165.04   EL1  527.6 EL2   63.5 ALF 161.14
```

LAUNCH DATE JUN 7 1967 FLIGHT TIME 144.00 ARRIVAL DATE OCT 29 1967

HELIOCENTRIC CONIC DISTANCE 395.686

```
RL  151.83 LAL   -.00 LOL 255.58 VL  26.947 GAL   -.55 AZL  94.12 HCA 176.23 SMA 129.85 ECC .16955 INC 4.1152 VI  29.345
RP  107.83 LAP   -.27 LOP  71.82 VP  37.939 GAP   -.16 AZP  85.89 TAL 182.68 TAP 358.92 RCA 107.83 APO 151.86 V2  35.143
RC  89.996 GL  -37.58 GP    9.74 ZAL  98.74 ZAP  92.02 ETS    .75 ZAE 163.81 ETE 124.63 ZAC 102.47 ETC  17.46 CLP -92.05
```

PLANETOCENTRIC CONIC

```
C3  10.063 VHL  3.172 DLA -25.08 RAL 142.18 RAD 6567.4 VEL 11.465 PTH   1.99 VHP  2.836 DPA  20.04 RAP 166.46 ECC 1.1656
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 51 59	1132.89	13.18	338.97	356.73	115.29	8 10 52	532.9	16.48	331.85
90.00	11 48 55	5637.67	28.02	264.92	.90	94.26	13 22 53	5037.7	28.32	256.27
100.00	8 50 13	944.86	11.54	324.32	355.89	117.77	9 5 58	344.9	15.16	317.41
100.00	13 33 22	5300.93	29.85	240.25	1.01	91.66	15 1 43	4700.9	29.76	231.45
110.00	9 14 48	867.76	8.01	316.37	353.78	123.34	9 29 16	267.8	12.34	309.95
110.00	15 25 17	4950.79	33.94	213.55	.90	85.67	16 47 48	4350.8	32.97	204.45

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE -.4107 TRA -.2846 TC3-1.6354 BAU  .2416    SGT 1396.0 SGR  623.8 SG3 1403.3    ST   761.7 SR   408.4 SS  2777.9
RDE  .2259 RRA -.0112 RC3  .7428 FAU .21317    RRT -.8945 RRF -.9981 RTF  .8961   CRT -.9709 CRS 1.0000 CST -.9730
FDE-6.2726 FRA  .1390 FC-18.3387 BSP   4093    SGB 1529.1 R23  .3752 R13 -.9249   LSA 2904.2 MSA  170.3 SSA    1.7
BDE  .4687 BRA  .2849 BC3 1.7962 FSP  -4428    SG1 1507.1 SG2  258.3 THA 157.52   EL1  859.9 EL2   86.7 ALF 152.19
```

LAUNCH DATE JUN 7 1967 FLIGHT TIME 146.00 ARRIVAL DATE OCT 31 1967

HELIOCENTRIC CONIC DISTANCE 402.027

```
RL  151.83 LAL   -.00 LOL 255.58 VL  26.944 GAL   -.48 AZL  98.44 HCA 179.46 SMA 129.82 ECC .16970 INC 8.3509 VI  29.345
RP  107.80 LAP   -.08 LOP  75.05 VP  37.947 GAP    .26 AZP  81.56 TAL 182.35 TAP   1.81 RCA 107.79 APO 151.85 V2  35.154
RC  92.232 GL  -55.43 GP   51.22 ZAL  95.38 ZAP  94.97 ETS   7.16 ZAE 124.10 ETE 107.34 ZAC  89.95 ETC  23.97 CLP -97.95
```

PLANETOCENTRIC CONIC

```
C3  23.050 VHL  4.801 DLA -41.60 RAL 133.91 RAD 6567.9 VEL 12.018 PTH   2.15 VHP  4.279 DPA  57.15 RAP 191.77 ECC 1.3793
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.16	5 47 27	1578.92	26.79	20.83	9.24	123.10	6 13 46	978.9	30.94	13.44
121.84	12 47 29	5562.27	26.80	258.90	9.25	123.09	14 20 11	4962.3	30.95	251.51
58.16	5 47 27	1578.92	26.79	20.83	9.24	123.10	6 13 46	978.9	30.94	13.44
121.84	12 47 29	5562.27	26.80	258.90	9.25	123.09	14 20 11	4962.3	30.95	251.51
58.16	5 47 27	1578.92	26.79	20.83	9.24	123.10	6 13 46	978.9	30.94	13.44
121.84	12 47 29	5562.27	26.80	258.90	9.25	123.09	14 20 11	4962.3	30.95	251.51

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE -.6013 TRA  .0205 TC3  .0825 BAU  .0254    SGT  722.7 SGR 1884.6 SG3  427.5    ST   717.6 SR  1722.8 SS  1675.8
RDE 1.4295 RRA -.5020 RC3 -.0032 FAU-.00076    RRT -.9182 RRF-1.0000 RTF  .9207   CRT -.9920 CRS 1.0000 CST -.9923
FDE-3.7622 FRA 1.3026 FC3  .0287 BSP  11724    SGB 2018.4 R23  .0421 R13 -.9991   LSA 2506.8 MSA   86.1 SSA     .3
BDE 1.5508 BRA  .5024 BC3  .0826 FSP   1926    SG1 2000.3 SG2  269.7 THA 109.77   EL1 1864.4 EL2   83.5 ALF 112.50
```

LAUNCH DATE JUN 7 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 2 1967

HELIOCENTRIC CONIC DISTANCE 408.359

```
RL  151.83 LAL   -.00 LOL 255.58 VL  26.938 GAL   -.40 AZL  92.38 HCA 182.69 SMA 129.78 ECC .17002 INC 2.3751 VI  29.345
RP  107.77 LAP    .11 LOP  78.27 VP  37.953 GAP    .67 AZP  87.62 TAL 181.95 TAP   4.64 RCA 107.71 APO 151.84 V2  35.165
RC  94.474 GL  -24.41 GP  -13.27 ZAL  98.76 ZAP 102.53 ETS 357.65 ZAE 160.34 ETE 209.81 ZAC 112.28 ETC  10.81 CLP-102.88
```

PLANETOCENTRIC CONIC

```
C3   7.327 VHL  2.707 DLA -13.39 RAL 148.74 RAD 6567.2 VEL 11.345 PTH   1.96 VHP  2.930 DPA    .23 RAP 153.70 ECC 1.1206
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 2 8	1574.07	-.62	4.04	356.10	118.31	6 28 22	974.1	3.17	357.41
90.00	14 31 5	5076.27	24.19	224.71	358.99	74.81	15 55 41	4476.3	21.87	216.81
100.00	7 16 29	1334.21	-1.42	345.96	355.66	119.86	7 38 43	734.2	2.57	339.44
100.00	15 59 25	4791.37	25.06	203.48	358.72	73.15	17 19 17	4191.4	22.51	195.61
110.00	8 9 0	1169.74	-3.47	332.20	354.38	124.03	8 28 29	569.7	1.02	325.99
110.00	17 23 24	4528.61	27.35	182.64	357.83	68.65	18 38 52	3928.6	24.20	174.89

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE -.3951 TRA -.1370 TC3-3.3355 BAU  .3500    SGT 2012.2 SGR  814.1 SG3 1257.0    ST   842.9 SR   401.4 SS  1859.2
RDE -.1881 RRA  .0694 RC3-1.2815 FAU .19239    RRT  .9406 RRF  .9999 RTF  .9405   CRT  .9760 CRS-1.0000 CST -.9769
FDE-3.4450 FRA 1.2179 FC-22.7322 BSP   5986    SGB 2170.6 R23  .2957 R13  .9552   LSA 2073.9 MSA  165.2 SSA     .8
BDE  .4376 BRA  .1536 BC3 3.5732 FSP  -3686    SG1 2155.2 SG2  258.0 THA  21.15   EL1  930.2 EL2   79.3 ALF  25.12
```

LAUNCH DATE JUN 7 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 4 1967

HELIOCENTRIC CONIC DISTANCE 414.659

RL 151.83 LAL -.00 LOL 255.58 VL 26.929 GAL -.31 AZL 92.93 HCA 185.92 SMA 129.72 ECC .17050 INC 2.9333 V1 29.345
RP 107.73 LAP .30 LOP 81.50 VP 37.956 GAP 1.08 AZP 87.08 TAL 181.50 TAP 7.43 RCA 107.60 APO 151.84 V2 35.175
RC 96.719 GL -29.08 GP -6.00 ZAL 97.49 ZAP 107.81 ETS 358.82 ZAE 159.04 ETE 187.98 ZAC 112.56 ETC 13.69 CLP-107.91

PLANETOCENTRIC CONIC

C3 8.044 VHL 2.836 DLA -18.07 RAL 147.80 RAD 6567.3 VEL 11.377 PTH 1.96 VHP 2.931 DPA 7.67 RAP 154.58 ECC 1.1324

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 42 27	1420.47	4.32	355.46	356.99	118.01	7 6 7	820.5	8.04	348.75
90.00	13 43 15	5263.87	26.90	237.77	.84	80.80	15 10 59	4663.9	25.35	229.44
100.00	7 53 5	1192.54	3.38	338.18	356.47	119.72	8 12 58	592.5	7.31	331.60
100.00	15 15 18	4967.04	27.96	215.72	.63	78.96	16 38 5	4367.0	26.15	207.38
110.00	8 37 55	1052.06	1.02	326.06	355.00	124.17	8 55 27	452.1	5.50	319.83
110.00	16 46 57	4680.28	30.66	193.20	359.89	74.09	18 4 57	4080.3	28.18	184.88

DIFFERENTIAL CORRECTIONS
TOE -.6032 TRA -.1713 TC3-3.5864 BAU .3910
ROE -.1038 RRA .0262 RC3 -.5988 FAU .20215
FOE-4.4793 FRA .8708 FC-21.7565 BSP 7091
BOE .6121 BRA .1733 BC3 3.6361 FSP -4206

MID-COURSE EXECUTION ACCURACY
SGT 2399.2 SGR 403.0 SG3 1331.8
RRT .9579 RRF .9967 RTF .9588
SGB 2432.8 R23 .2653 R13 .9609
SG1 2430.1 SG2 114.2 THA 9.16

ORBIT DETERMINATION ACCURACY
ST 1225.0 SR 210.6 SS 2297.5
CRT .9858 CRS -.9998 CST -.9887
LSA 2607.1 MSA 163.0 SSA 1.8
EL1 1242.5 EL2 34.8 ALF 9.63

LAUNCH DATE JUN 7 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 6 1967

HELIOCENTRIC CONIC DISTANCE 420.944

RL 151.83 LAL -.00 LOL 255.58 VL 26.918 GAL -.21 AZL 93.10 HCA 189.16 SMA 129.64 ECC .17114 INC 3.0982 V1 29.345
RP 107.70 LAP .49 LOP 84.72 VP 37.958 GAP 1.48 AZP 86.94 TAL 181.00 TAP 10.15 RCA 107.46 APO 151.83 V2 35.185
RC 98.967 GL -30.33 GP -3.80 ZAL 96.40 ZAP 112.60 ETS 359.25 ZAE 155.76 ETE 182.44 ZAC 113.52 ETC 14.71 CLP-112.65

PLANETOCENTRIC CONIC

C3 8.300 VHL 2.881 DLA -19.61 RAL 148.26 RAD 6567.3 VEL 11.388 PTH 1.97 VHP 2.997 DPA 10.25 RAP 153.92 ECC 1.1366

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 0 46	1364.63	6.10	352.32	358.21	117.71	7 23 31	764.6	9.76	345.55
90.00	13 28 39	5331.38	27.54	242.60	2.30	83.14	14 57 30	4731.4	26.30	234.15
100.00	8 9 47	1141.93	5.08	335.39	357.65	119.50	8 28 49	541.9	8.98	328.76
100.00	15 2 19	5029.31	28.69	220.20	2.12	81.21	16 26 9	4429.3	27.17	211.73
110.00	8 51 28	1011.30	2.58	323.93	356.09	124.10	9 8 19	411.3	7.04	317.68
110.00	16 37 8	4732.70	31.58	197.01	1.46	76.17	17 56 0	4132.7	29.35	188.51

DIFFERENTIAL CORRECTIONS
TOE -.7414 TRA -.1628 TC3-3.9445 BAU .4402
ROE -.0606 RRA .0218 RC3 -.4205 FAU .19500
FOE-4.5853 FRA .8680 FC-20.3397 BSP 8184
BOE .7438 BRA .1643 BC3 3.9668 FSP -4126

MID-COURSE EXECUTION ACCURACY
SGT 2730.8 SGR 274.5 SG3 1292.7
RRT .9506 RRF .9796 RTF .9655
SGB 2744.6 R23 .1960 R13 .9661
SG1 2743.3 SG2 84.8 THA 5.46

ORBIT DETERMINATION ACCURACY
ST 1479.6 SR 121.6 SS 2367.2
CRT .9831 CRS -.9983 CST -.9915
LSA 2789.4 MSA 163.5 SSA 3.0
EL1 1484.4 EL2 22.2 ALF 4.62

LAUNCH DATE JUN 7 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 8 1967

HELIOCENTRIC CONIC DISTANCE 427.210

RL 151.83 LAL -.00 LOL 255.58 VL 26.904 GAL -.09 AZL 93.18 HCA 192.39 SMA 129.55 ECC .17193 INC 3.1768 V1 29.345
RP 107.67 LAP .68 LOP 87.95 VP 37.957 GAP 1.87 AZP 86.90 TAL 180.44 TAP 12.83 RCA 107.28 APO 151.83 V2 35.195
RC 101.218 GL -30.86 GP -2.74 ZAL 95.27 ZAP 117.06 ETS 359.51 ZAE 152.59 ETE 180.55 ZAC 114.42 ETC 15.29 CLP-117.09

PLANETOCENTRIC CONIC

C3 8.449 VHL 2.907 DLA -20.53 RAL 149.12 RAD 6567.3 VEL 11.395 PTH 1.97 VHP 3.083 DPA 11.65 RAP 153.14 ECC 1.1391

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 14 42	1329.15	7.22	350.31	359.54	117.46	7 36 51	729.1	10.84	343.50
90.00	13 21 31	5373.57	27.85	245.65	3.74	84.64	14 51 5	4773.6	26.81	237.14
100.00	8 22 35	1110.10	6.15	333.63	358.96	119.31	8 41 5	510.1	10.01	326.97
100.00	14 56 20	5067.86	29.06	223.01	3.59	82.65	16 20 48	4467.9	27.73	214.46
110.00	9 2 9	986.07	3.54	322.61	357.35	124.02	9 18 35	386.1	7.98	316.34
110.00	16 33 15	4764.65	32.07	199.37	2.98	77.49	17 52 40	4164.6	30.02	190.76

DIFFERENTIAL CORRECTIONS
TOE -.8630 TRA -.1431 TC3-4.2907 BAU .4863
ROE -.0350 RRA .0221 RC3 -.3521 FAU .18441
FOE-4.5257 FRA .8892 FC-18.8949 BSP 9195
BOE .8637 BRA .1448 BC3 4.3051 FSP -3960

MID-COURSE EXECUTION ACCURACY
SGT 3034.2 SGR 220.9 SG3 1233.3
RRT .9158 RRF .9356 RTF .9700
SGB 3042.2 R23 .1158 R13 .9702
SG1 3040.9 SG2 88.6 THA 3.82

ORBIT DETERMINATION ACCURACY
ST 1705.0 SR 70.6 SS 2382.8
CRT .9675 CRS -.9895 CST -.9933
LSA 2926.4 MSA 161.3 SSA 4.2
EL1 1706.4 EL2 17.8 ALF 2.29

LAUNCH DATE JUN 7 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 10 1967

HELIOCENTRIC CONIC DISTANCE 433.457

RL 151.83 LAL -.00 LOL 255.58 VL 26.889 GAL .04 AZL 93.22 HCA 195.63 SMA 129.45 ECC .17286 INC 3.2235 V1 29.345
RP 107.65 LAP .87 LOP 91.19 VP 37.954 GAP 2.26 AZP 86.90 TAL 179.82 TAP 15.45 RCA 107.07 APO 151.83 V2 35.204
RC 103.470 GL -31.11 GP -2.11 ZAL 94.06 ZAP 121.20 ETS 359.68 ZAE 149.69 ETE 179.83 ZAC 115.13 ETC 15.69 CLP-121.22

PLANETOCENTRIC CONIC

C3 8.566 VHL 2.927 DLA -21.23 RAL 150.19 RAD 6567.3 VEL 11.400 PTH 1.97 VHP 3.184 DPA 12.55 RAP 152.50 ECC 1.1410

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 27 27	1300.77	8.11	348.70	1.01	117.22	7 49 8	700.8	11.69	341.85
90.00	13 17 20	5407.11	28.04	248.09	5.27	85.85	14 47 27	4807.1	27.17	239.53
100.00	8 34 21	1084.86	6.99	332.22	.41	119.14	8 52 26	484.9	10.82	325.53
100.00	14 53 7	5098.25	29.30	225.24	5.13	83.79	16 18 5	4498.2	28.13	216.63
110.00	9 12 10	966.35	4.29	321.58	358.74	123.95	9 28 16	366.3	8.72	315.29
110.00	16 31 47	4789.53	32.42	201.22	4.57	78.53	17 51 37	4189.5	30.51	192.53

DIFFERENTIAL CORRECTIONS
TOE -.9648 TRA -.0982 TC3-4.5584 BAU .5233
ROE -.0154 RRA .0257 RC3 -.3195 FAU .16820
FOE-4.2844 FRA 1.0548 FC-17.0005 BSP 9677
BOE .9649 BRA .1015 BC3 4.5696 FSP -3439

MID-COURSE EXECUTION ACCURACY
SGT 3275.6 SGR 197.0 SG3 1140.6
RRT .8444 RRF .8589 RTF .9698
SGB 3281.5 R23 .0731 R13 .9699
SG1 3279.8 SG2 105.4 THA 2.91

ORBIT DETERMINATION ACCURACY
ST 1891.4 SR 34.7 SS 2316.3
CRT .8596 CRS -.9086 CST -.9937
LSA 2986.1 MSA 164.6 SSA 5.4
EL1 1891.6 EL2 17.7 ALF .90

LAUNCH DATE JUN 7 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 12 1967

HELIOCENTRIC CONIC DISTANCE 439.685

RL 151.83 LAL -.00 LOL 255.58 VL 26.872 GAL .18 AZL 93.25 HCA 198.87 SMA 129.33 ECC .17393 INC 3.2543 V1 29.345
RP 107.62 LAP 1.05 LOP 94.42 VP 37.950 GAP 2.64 AZP 86.92 TAL 179.16 TAP 18.03 RCA 106.84 APO 151.83 V2 35.212
RC 105.723 GL -31.20 GP -1.70 ZAL 92.76 ZAP 125.04 ETS 359.80 ZAE 147.06 ETE 179.58 ZAC 115.60 ETC 15.97 CLP-125.06

PLANETOCENTRIC CONIC

C3 8.674 VHL 2.945 DLA -21.84 RAL 151.43 RAD 6567.3 VEL 11.405 PTH 1.97 VHP 3.297 DPA 13.13 RAP 152.07 ECC 1.1428

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 40 3	1275.44	8.89	347.25	2.61	117.00	8 1 18	675.4	12.44	340.37
90.00	13 14 36	5437.21	28.16	250.28	6.90	86.94	14 45 13	4837.2	27.44	241.69
100.00	8 46 1	1062.55	7.73	330.98	1.99	118.97	9 3 43	462.6	11.53	324.26
100.00	14 51 19	5125.33	29.48	227.23	6.79	84.83	16 16 45	4525.3	28.45	218.58
110.00	9 22 11	949.16	4.94	320.67	.28	123.87	9 38 0	349.2	9.36	314.37
110.00	16 31 38	4811.49	32.71	202.87	6.27	79.47	17 51 50	4211.5	30.91	194.11

DIFFERENTIAL CORRECTIONS
TOE-1.0703 TRA -.0667 TC3-4.8844 BAU .5676
ROE -.0010 RRA .0283 RC3 -.3136 FAU .15946
FOE-4.1171 FRA 1.0639 FC-15.9158 BSP 10806
BOE 1.0703 BRA .0725 BC3 4.8945 FSP -3421

MID-COURSE EXECUTION ACCURACY
SGT 3554.3 SGR 194.0 SG3 1082.6
RRT .7643 RRF .7729 RTF .9731
SGB 3559.6 R23 .0438 R13 .9732
SG1 3557.4 SG2 125.0 THA 2.39

ORBIT DETERMINATION ACCURACY
ST 2084.5 SR 18.7 SS 2291.0
CRT .0930 CRS -.1889 CST -.9946
LSA 3093.2 MSA 160.6 SSA 6.6
EL1 2084.5 EL2 18.7 ALF .05

LAUNCH DATE JUN 7 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 14 1967

HELIOCENTRIC CONIC DISTANCE 445.895

RL 151.83 LAL -.00 LOL 255.58 VL 26.853 GAL .33 AZL 93.28 HCA 202.11 SMA 129.21 ECC .17515 INC 3.2765 V1 29.345
RP 107.58 LAP 1.23 LOP 97.66 VP 37.944 GAP 3.02 AZP 86.96 TAL 178.45 TAP 20.56 RCA 106.58 APO 151.84 V2 35.220
RC 107.975 GL -31.18 GP -1.41 ZAL 91.37 ZAP 128.59 ETS 359.88 ZAE 144.68 ETE 179.54 ZAC 115.82 ETC 16.15 CLP-128.61

PLANETOCENTRIC CONIC

C3 8.786 VHL 2.964 DLA -22.40 RAL 152.80 RAD 6567.3 VEL 11.409 PTH 1.97 VHP 3.420 DPA 13.51 RAP 151.87 ECC 1.1446

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 52 55	1251.44	9.63	345.87	4.36	116.76	8 13 46	651.4	13.15	338.96
90.00	13 12 43	5466.12	28.25	252.39	8.66	88.00	14 43 49	4866.1	27.67	243.77
100.00	8 57 55	1041.63	8.41	329.80	3.71	118.79	9 15 17	441.6	12.19	323.05
100.00	14 50 24	5151.16	29.63	229.14	8.58	85.82	16 16 15	4551.2	28.73	220.45
110.00	9 32 28	933.31	5.55	319.84	1.96	123.78	9 48 1	333.3	9.95	313.51
110.00	16 32 20	4832.24	32.96	204.44	8.10	80.37	17 52 53	4232.2	31.28	195.62

DIFFERENTIAL CORRECTIONS
TOE-1.1731 TRA -.0212 TC3-5.1473 BAU .6058
ROE .0114 RRA .0321 RC3 -.3138 FAU .14835
FOE-3.9432 FRA 1.1211 FC-14.6173 BSP 11681
BOE 1.1732 BRA .0385 BC3 5.1569 FSP -3252

MID-COURSE EXECUTION ACCURACY
SGT 3802.1 SGR 199.0 SG3 1017.5
RRT .6806 RRF .6837 RTF .9743
SGB 3807.3 R23 .0268 R13 .9743
SG1 3804.5 SG2 145.7 THA 2.04

ORBIT DETERMINATION ACCURACY
ST 2269.4 SR 30.3 SS 2262.8
CRT -.7200 CRS .6534 CST -.9952
LSA 3201.0 MSA 158.3 SSA 7.7
EL1 2269.6 EL2 21.0 ALF 179.45

LAUNCH DATE JUN 7 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 16 1967

HELIOCENTRIC CONIC DISTANCE 452.085

RL 151.83 LAL -.00 LOL 255.58 VL 26.833 GAL .49 AZL 93.29 HCA 205.35 SMA 129.07 ECC .17651 INC 3.2932 V1 29.345
RP 107.58 LAP 1.41 LOP 100.89 VP 37.936 GAP 3.40 AZP 87.02 TAL 177.70 TAP 23.05 RCA 106.29 APO 151.85 V2 35.227
RC 110.226 GL -31.09 GP -1.19 ZAL 89.88 ZAP 131.89 ETS 359.94 ZAE 142.55 ETE 179.59 ZAC 115.81 ETC 16.26 CLP-131.90

PLANETOCENTRIC CONIC

C3 8.910 VHL 2.985 DLA -22.94 RAL 154.31 RAD 6567.3 VEL 11.415 PTH 1.98 VHP 3.551 DPA 13.73 RAP 151.89 ECC 1.1466

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 6 16	1227.96	10.35	344.52	6.26	116.51	8 26 44	628.0	13.83	337.57
90.00	13 11 23	5494.95	28.30	254.50	10.55	89.05	14 42 58	4895.0	27.87	245.86
100.00	9 10 15	1021.42	9.07	328.67	5.58	118.60	9 27 16	421.4	12.82	321.89
100.00	14 50 5	5176.73	29.74	231.03	10.49	86.81	16 16 21	4576.7	28.98	222.31
110.00	9 43 8	918.31	6.11	319.05	3.78	123.70	9 58 27	318.3	10.50	312.70
110.00	16 33 41	4852.60	33.18	205.99	10.07	81.26	17 54 33	4252.6	31.62	197.11

DIFFERENTIAL CORRECTIONS
TOE-1.2674 TRA .0320 TC3-5.3693 BAU .6407
ROE .0228 RRA .0364 RC3 -.3179 FAU .13754
FOE-3.7375 FRA 1.1749 FC-13.3640 BSP 12386
BOE 1.2676 BRA .0484 BC3 5.3787 FSP -3032

MID-COURSE EXECUTION ACCURACY
SGT 4024.6 SGR 209.0 SG3 950.9
RRT .6028 RRF .6027 RTF .9751
SGB 4030.0 R23 .0174 R13 .9751
SG1 4026.6 SG2 166.7 THA 1.80

ORBIT DETERMINATION ACCURACY
ST 2434.7 SR 49.6 SS 2213.7
CRT -.8722 CRS .8257 CST -.9956
LSA 3287.3 MSA 155.8 SSA 8.8
EL1 2435.0 EL2 24.3 ALF 178.98

LAUNCH DATE JUN 7 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 18 1967

HELIOCENTRIC CONIC DISTANCE 458.256

RL 151.83 LAL -.00 LOL 255.58 VL 26.811 GAL .67 AZL 93.31 HCA 208.59 SMA 128.92 ECC .17801 INC 3.3064 V1 29.345
RP 107.56 LAP 1.58 LOP 104.13 VP 37.927 GAP 3.78 AZP 87.10 TAL 176.91 TAP 25.50 RCA 105.97 APO 151.87 V2 35.233
RC 112.475 GL -30.93 GP -1.03 ZAL 88.31 ZAP 134.93 ETS 359.98 ZAE 140.64 ETE 179.68 ZAC 115.58 ETC 16.30 CLP-134.94

PLANETOCENTRIC CONIC

C3 9.051 VHL 3.008 DLA -23.45 RAL 155.93 RAD 6567.3 VEL 11.421 PTH 1.98 VHP 3.690 DPA 13.82 RAP 152.14 ECC 1.1490

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 20 11	1204.63	11.05	343.17	8.30	116.24	8 40 16	604.6	14.49	336.18
90.00	13 10 25	5524.29	28.32	256.64	12.58	90.13	14 42 29	4924.3	28.03	247.99
100.00	9 23 5	1001.63	9.72	327.55	7.60	118.41	9 39 46	401.6	13.44	320.74
100.00	14 50 12	5202.53	29.82	232.94	12.55	87.81	16 16 55	4602.5	29.20	224.19
110.00	9 54 14	903.94	6.65	318.29	5.74	123.61	10 9 18	303.9	11.03	311.93
110.00	16 35 32	4872.98	33.38	207.55	12.18	82.16	17 56 45	4273.0	31.94	198.61

DIFFERENTIAL CORRECTIONS
TOE-1.3592 TRA .0934 TC3-5.5471 BAU .6723
ROE .0335 RRA .0410 RC3 -.3232 FAU .12680
FOE-3.5389 FRA 1.2295 FC-12.1289 BSP 13043
BOE 1.3596 BRA .1020 BC3 5.5565 FSP -2824

MID-COURSE EXECUTION ACCURACY
SGT 4228.3 SGR 221.7 SG3 886.2
RRT .5339 RRF .5307 RTF .9754
SGB 4234.1 R23 .0106 R13 .9754
SG1 4229.9 SG2 187.4 THA 1.61

ORBIT DETERMINATION ACCURACY
ST 2591.2 SR 69.0 SS 2163.6
CRT -.9124 CRS .8740 CST -.9959
LSA 3372.9 MSA 153.5 SSA 9.9
EL1 2592.0 EL2 28.2 ALF 178.61

LAUNCH DATE JUN 7 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 20 1967

HELIOCENTRIC CONIC DISTANCE 464.407

RL 151.83 LAL -.00 LOL 255.58 VL 26.788 GAL .86 AZL 93.32 HCA 211.83 SMA 128.77 ECC .17966 INC 3.3170 V1 29.345
RP 107.54 LAP 1.75 LOP 107.37 VP 37.916 GAP 4.15 AZP 87.18 TAL 176.07 TAP 27.91 RCA 105.63 APO 151.90 V2 35.239
RC 114.720 GL -30.71 GP -.90 ZAL 86.65 ZAP 137.76 ETS 359.99 ZAE 138.93 ETE 179.80 ZAC 115.15 ETC 16.29 CLP-137.77

PLANETOCENTRIC CONIC

C3 9.212 VHL 3.035 DLA -23.95 RAL 157.67 RAD 6567.3 VEL 11.428 PTH 1.98 VHP 3.835 OPA 13.81 RAP 152.59 ECC 1.1516

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 34 45	1181.29	11.75	341.81	10.49	115.95	8 54 26	581.3	15.15	334.78
90.00	13 9 42	5554.48	28.29	258.85	14.73	91.23	14 42 16	4954.5	28.16	250.19
100.00	9 36 25	982.18	10.34	326.45	9.76	118.20	9 52 48	382.2	14.04	319.60
100.00	14 50 42	5228.82	29.87	234.89	14.73	88.84	16 17 51	4628.8	29.39	226.12
110.00	10 5 45	890.20	7.17	317.56	7.84	123.51	10 20 36	290.2	11.53	311.18
110.00	16 37 51	4893.57	33.56	209.13	14.43	83.08	17 59 25	4293.6	32.24	200.14

DIFFERENTIAL CORRECTIONS
TDE-1.4489 TRA .1595 TC3-5.7012 BAU .7033
RDE .0439 RRA .0458 RC3 -.3289 FAU .11732
FDE-3.3505 FRA 1.2687 FC-11.0257 BSP 13730
BDE 1.4496 BRA .1659 BC3 5.7107 FSP -2657

MID-COURSE EXECUTION ACCURACY
SGT 4423.5 SGR 236.0 SG3 827.2
RRT .4748 RRF .4695 RTF .9758
SGB 4429.7 R23 .0058 R13 .9758
SG1 4424.9 SG2 207.6 THA 1.45

ORBIT DETERMINATION ACCURACY
ST 2738.9 SR 87.8 SS 2113.1
CRT -.9281 CRS .8939 CST -.9962
LSA 3457.1 MSA 150.5 SSA 11.0
EL1 2740.1 EL2 32.7 ALF 178.30

LAUNCH DATE JUN 7 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 22 1967

HELIOCENTRIC CONIC DISTANCE 470.539

RL 151.83 LAL -.00 LOL 255.58 VL 26.764 GAL 1.06 AZL 93.33 HCA 215.08 SMA 128.61 ECC .18146 INC 3.3260 V1 29.345
RP 107.52 LAP 1.91 LOP 110.62 VP 37.903 GAP 4.52 AZP 87.28 TAL 175.20 TAP 30.28 RCA 105.27 APO 151.94 V2 35.244
RC 116.961 GL -30.42 GP -.79 ZAL 84.92 ZAP 140.39 ETS 359.99 ZAE 137.40 ETE 179.91 ZAC 114.52 ETC 16.24 CLP-140.40

PLANETOCENTRIC CONIC

C3 9.399 VHL 3.066 DLA -24.44 RAL 159.51 RAD 6567.3 VEL 11.436 PTH 1.98 VHP 3.987 OPA 13.69 RAP 153.23 ECC 1.1547

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 49 57	1157.82	12.45	340.44	12.83	115.64	9 9 15	557.8	15.80	333.36
90.00	13 9 10	5585.76	28.23	261.14	17.02	92.38	14 42 16	4985.8	28.26	252.47
100.00	9 50 17	963.03	10.96	325.36	12.07	117.99	10 6 20	363.0	14.62	318.48
100.00	14 51 31	5255.78	29.89	236.90	17.06	89.90	16 19 7	4655.8	29.56	228.11
110.00	10 17 41	877.10	7.66	316.87	10.08	123.42	10 32 18	277.1	12.01	310.46
110.00	16 40 36	4914.48	33.72	210.74	16.82	84.02	18 2 31	4314.5	32.52	201.71

DIFFERENTIAL CORRECTIONS
TDE-1.5352 TRA .2363 TC3-5.8102 BAU .7313
RDE .0542 RRA .0510 RC3 -.3331 FAU .10815
FDE-3.1665 FRA 1.3150 FC3-9.9616 BSP 14299
BDE 1.5361 BRA .2417 BC3 5.8198 FSP -2474

MID-COURSE EXECUTION ACCURACY
SGT 4599.8 SGR 250.8 SG3 770.9
RRT .4226 RRF .4156 RTF .9757
SGB 4606.7 R23 .0025 R13 .9758
SG1 4601.1 SG2 227.3 THA 1.32

ORBIT DETERMINATION ACCURACY
ST 2874.7 SR 106.2 SS 2058.5
CRT -.9346 CRS .9026 CST -.9963
LSA 3534.2 MSA 148.2 SSA 12.1
EL1 2876.4 EL2 37.8 ALF 178.02

LAUNCH DATE JUN 7 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 24 1967

HELIOCENTRIC CONIC DISTANCE 476.650

RL 151.83 LAL -.00 LOL 255.58 VL 26.739 GAL 1.28 AZL 93.33 HCA 218.32 SMA 128.44 ECC .18341 INC 3.3336 V1 29.345
RP 107.51 LAP 2.07 LOP 113.86 VP 37.889 GAP 4.89 AZP 87.38 TAL 174.29 TAP 32.62 RCA 104.88 APO 151.99 V2 35.248
RC 119.197 GL -30.09 GP -.71 ZAL 83.11 ZAP 142.84 ETS 359.97 ZAE 136.03 ETE 180.02 ZAC 113.73 ETC 16.15 CLP-142.84

PLANETOCENTRIC CONIC

C3 9.615 VHL 3.101 DLA -24.91 RAL 161.44 RAD 6567.3 VEL 11.446 PTH 1.99 VHP 4.144 OPA 13.50 RAP 154.03 ECC 1.1582

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 5 48	1134.25	13.14	339.05	15.32	115.31	9 24 42	534.2	16.44	331.93
90.00	13 8 47	5618.25	28.11	263.51	19.43	93.56	14 42 25	5018.2	28.31	254.85
100.00	10 4 38	944.31	11.55	324.29	14.51	117.76	10 20 22	344.3	15.18	317.37
100.00	14 52 38	5283.42	29.88	238.95	19.51	90.98	16 20 41	4683.4	29.69	230.15
110.00	10 29 59	864.78	8.12	316.21	12.46	123.32	10 44 24	264.8	12.45	309.79
110.00	16 43 46	4935.72	33.86	212.38	19.34	84.98	18 6 2	4335.7	32.79	203.31

DIFFERENTIAL CORRECTIONS
TDE-1.6209 TRA .3198 TC3-5.8854 BAU .7578
RDE .0646 RRA .0562 RC3 -.3355 FAU .09976
FDE-2.9987 FRA 1.3526 FC3-8.9822 BSP 14861
BDE 1.6222 BRA .3246 BC3 5.8949 FSP -2316

MID-COURSE EXECUTION ACCURACY
SGT 4766.2 SGR 265.8 SG3 719.4
RRT .3760 RRF .3672 RTF .9758
SGB 4773.6 R23 -.0007 R13 .9758
SG1 4767.2 SG2 246.2 THA 1.20

ORBIT DETERMINATION ACCURACY
ST 3003.4 SR 124.4 SS 2007.0
CRT -.9374 CRS .9067 CST -.9965
LSA 3611.4 MSA 145.6 SSA 13.1
EL1 3005.7 EL2 43.3 ALF 177.78

LAUNCH DATE JUN 7 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 26 1967

HELIOCENTRIC CONIC DISTANCE 482.741

RL 151.83 LAL -.00 LOL 255.58 VL 26.712 GAL 1.51 AZL 93.34 HCA 221.57 SMA 128.26 ECC .18551 INC 3.3401 V1 29.345
RP 107.50 LAP 2.22 LOP 117.10 VP 37.874 GAP 5.27 AZP 87.50 TAL 173.35 TAP 34.92 RCA 104.47 APO 152.06 V2 35.252
RC 121.426 GL -29.69 GP -.64 ZAL 81.24 ZAP 145.12 ETS 359.93 ZAE 134.80 ETE 180.13 ZAC 112.78 ETC 16.02 CLP-145.13

PLANETOCENTRIC CONIC

C3 9.865 VHL 3.141 DLA -25.37 RAL 163.47 RAD 6567.4 VEL 11.457 PTH 1.99 VHP 4.307 OPA 13.24 RAP 154.98 ECC 1.1624

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 22 16	1110.61	13.82	337.65	17.95	114.96	9 40 46	510.6	17.07	330.48
90.00	13 8 30	5652.04	27.94	265.97	21.95	94.78	14 42 42	5052.0	28.31	257.32
100.00	10 19 24	926.14	12.13	323.24	17.09	117.53	10 34 50	326.1	15.72	316.30
100.00	14 54 3	5311.74	29.83	241.06	22.08	92.08	16 22 34	4711.7	29.80	232.25
110.00	10 42 35	853.38	8.55	315.60	14.96	123.22	10 56 48	253.4	12.86	309.16
110.00	16 47 21	4957.26	33.97	214.05	22.00	85.97	18 9 58	4357.3	33.04	204.94

DIFFERENTIAL CORRECTIONS
TDE-1.7019 TRA .4148 TC3-5.9121 BAU .7810
RDE .0754 RRA .0615 RC3 -.3354 FAU .09168
FDE-2.8335 FRA 1.3940 FC3-8.0453 BSP 15320
BDE 1.7035 BRA .4194 BC3 5.9216 FSP -2157

MID-COURSE EXECUTION ACCURACY
SGT 4912.4 SGR 280.6 SG3 670.3
RRT .3335 RRF .3232 RTF .9755
SGB 4920.5 R23 -.0032 R13 .9755
SG1 4913.3 SG2 264.5 THA 1.09

ORBIT DETERMINATION ACCURACY
ST 3116.7 SR 142.6 SS 1949.9
CRT -.9379 CRS .9079 CST -.9967
LSA 3676.3 MSA 143.7 SSA 14.1
EL1 3119.5 EL2 49.4 ALF 177.54

LAUNCH DATE JUN 7 1967 FLIGHT TIME 174.00 ARRIVAL DATE NOV 28 1967

HELIOCENTRIC CONIC DISTANCE 488.811

RL 151.83 LAL -.00 LOL 255.58 VL 26.685 GAL 1.75 AZL 93.35 HCA 224.82 SMA 128.08 ECC .18778 INC 3.3459 V1 29.345
RP 107.49 LAP 2.36 LOP 120.35 VP 37.858 GAP 5.64 AZP 87.63 TAL 172.38 TAP 37.20 RCA 104.03 APO 152.14 V2 35.255
RC 123.648 GL -29.24 GP -.58 ZAL 79.30 ZAP 147.27 ETS 359.88 ZAE 133.70 ETE 180.23 ZAC 111.70 ETC 15.88 CLP-147.27

PLANETOCENTRIC CONIC

C3 10.154 VHL 3.187 DLA -25.80 RAL 165.58 RAD 6567.4 VEL 11.469 PTH 1.99 VHP 4.475 DPA 12.91 RAP 156.07 ECC 1.1671

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 39 18	1087.00	14.49	336.25	20.72	114.59	9 57 25	487.0	17.69	329.03
90.00	13 8 17	5687.14	27.72	268.51	24.59	96.04	14 43 4	5087.1	28.27	259.89
100.00	10 34 30	908.74	12.67	322.24	19.81	117.30	10 49 39	308.7	16.23	315.26
100.00	14 55 46	5340.63	29.74	243.20	24.78	93.21	16 24 46	4740.6	29.86	234.40
110.00	10 55 25	843.12	8.93	315.05	17.59	123.13	11 9 28	243.1	13.23	308.60
110.00	16 51 20	4979.02	34.06	215.75	24.78	86.96	18 14 19	4379.0	33.27	206.60

DIFFERENTIAL CORRECTIONS
TDE-1.7839 TRA .5155 TC3-5.9160 BAU .8044
RDE .0865 RRA .0668 RC3 -.3331 FAU .08457
FDE-2.6850 FRA 1.4260 FC3-7.2104 BSP 15805
BDE 1.7860 BRA .5198 BC3 5.9254 FSP -2021

MID-COURSE EXECUTION ACCURACY
SGT 5056.0 SGR 294.9 SG3 626.2
RRT .2943 RRF .2828 RTF .9753
SGB 5054.6 R23 -.0054 R13 .9753
SG1 5056.8 SG2 281.8 THA .99

ORBIT DETERMINATION ACCURACY
ST 3224.4 SR 160.6 SS 1896.6
CRT -.9374 CRS .9080 CST -.9968
LSA 3741.6 MSA 141.7 SSA 15.0
EL1 3227.9 EL2 55.9 ALF 177.33

LAUNCH DATE JUN 7 1967 FLIGHT TIME 176.00 ARRIVAL DATE NOV 30 1967

HELIOCENTRIC CONIC DISTANCE 494.859

RL 151.83 LAL -.00 LOL 255.58 VL 26.657 GAL 2.01 AZL 93.35 HCA 228.07 SMA 127.90 ECC .19022 INC 3.3510 V1 29.345
RP 107.48 LAP 2.49 LOP 123.60 VP 37.840 GAP 6.02 AZP 87.76 TAL 171.38 TAP 39.44 RCA 103.57 APO 152.23 V2 35.257
RC 125.861 GL -28.74 GP -.52 ZAL 77.32 ZAP 149.28 ETS 359.82 ZAE 132.72 ETE 180.32 ZAC 110.49 ETC 15.71 CLP-149.28

PLANETOCENTRIC CONIC

C3 10.486 VHL 3.238 DLA -26.21 RAL 167.76 RAD 6567.4 VEL 11.484 PTH 2.00 VHP 4.649 DPA 12.52 RAP 157.27 ECC 1.1726

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 56 53	1063.53	15.15	334.84	23.62	114.21	10 14 36	463.5	18.30	327.57
90.00	13 8 7	5723.58	27.43	271.14	27.33	97.33	14 43 31	5123.6	28.16	262.55
100.00	10 49 53	892.36	13.18	321.29	22.64	117.07	11 4 45	292.4	16.71	314.27
100.00	14 57 48	5369.98	29.60	245.37	27.58	94.34	16 27 18	4770.0	29.89	236.58
110.00	11 8 25	834.19	9.26	314.58	20.33	123.05	11 22 19	234.2	13.55	308.10
110.00	16 55 46	5000.92	34.13	217.45	27.69	87.97	18 19 6	4400.9	33.47	208.27

DIFFERENTIAL CORRECTIONS
TDE-1.8646 TRA .6258 TC3-5.8844 BAU .8262
RDE .0980 RRA .0719 RC3 -.3281 FAU .07799
FDE-2.5459 FRA 1.4569 FC3-6.4389 BSP 16261
BDE 1.8672 BRA .6299 BC3 5.8936 FSP -1897

MID-COURSE EXECUTION ACCURACY
SGT 5189.5 SGR 308.8 SG3 585.6
RRT .2575 RRF .2449 RTF .9752
SGB 5198.7 R23 -.0074 R13 .9752
SG1 5190.2 SG2 298.3 THA .88

ORBIT DETERMINATION ACCURACY
ST 3321.8 SR 178.7 SS 1842.8
CRT -.9362 CRS .9072 CST -.9970
LSA 3800.3 MSA 140.3 SSA 15.8
EL1 3326.0 EL2 62.7 ALF 177.12

LAUNCH DATE JUN 7 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 2 1967

HELIOCENTRIC CONIC DISTANCE 500.884

RL 151.83 LAL -.00 LOL 255.58 VL 26.628 GAL 2.29 AZL 93.36 HCA 231.31 SMA 127.71 ECC .19284 INC 3.3557 V1 29.345
RP 107.48 LAP 2.62 LOP 126.85 VP 37.821 GAP 6.39 AZP 87.90 TAL 170.35 TAP 41.66 RCA 103.08 APO 152.34 V2 35.258
RC 128.066 GL -28.19 GP -.48 ZAL 75.29 ZAP 151.17 ETS 359.75 ZAE 131.84 ETE 180.40 ZAC 109.17 ETC 15.54 CLP-151.17

PLANETOCENTRIC CONIC

C3 10.868 VHL 3.297 DLA -26.60 RAL 170.01 RAD 6567.4 VEL 11.500 PTH 2.00 VHP 4.827 DPA 12.07 RAP 158.58 ECC 1.1789

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 14 56	1040.30	15.80	333.44	26.65	113.81	10 32 16	440.3	18.88	326.12
90.00	13 8 0	5761.35	27.07	273.84	30.16	98.64	14 44 1	5161.4	27.99	265.30
100.00	11 5 25	877.27	13.65	320.41	25.59	116.85	11 20 2	277.3	17.14	313.36
100.00	15 0 12	5399.61	29.43	247.56	30.49	95.48	16 30 12	4799.6	29.88	238.78
110.00	11 21 29	826.81	9.54	314.18	23.18	122.98	11 35 16	226.8	13.82	307.69
110.00	17 0 37	5022.83	34.17	219.16	30.71	88.98	18 24 20	4422.8	33.65	209.96

DIFFERENTIAL CORRECTIONS
TDE-1.9443 TRA .7451 TC3-5.8196 BAU .8468
RDE .1102 RRA .0769 RC3 -.3205 FAU .07192
FDE-2.4166 FRA 1.4854 FC3-5.7292 BSP 16696
BDE 1.9474 BRA .7491 BC3 5.8284 FSP -1784

MID-COURSE EXECUTION ACCURACY
SGT 5314.1 SGR 322.0 SG3 548.1
RRT .2223 RRF .2085 RTF .9750
SGB 5323.8 R23 -.0093 R13 .9750
SG1 5314.5 SG2 313.9 THA .77

ORBIT DETERMINATION ACCURACY
ST 3409.0 SR 196.8 SS 1789.3
CRT -.9345 CRS .9058 CST -.9971
LSA 3852.5 MSA 139.5 SSA 16.4
EL1 3413.9 EL2 70.0 ALF 176.91

LAUNCH DATE JUN 7 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 4 1967

HELIOCENTRIC CONIC DISTANCE 506.885

RL 151.83 LAL -.00 LOL 255.58 VL 26.599 GAL 2.57 AZL 93.36 HCA 234.56 SMA 127.52 ECC .19565 INC 3.3599 V1 29.345
RP 107.48 LAP 2.74 LOP 130.10 VP 37.801 GAP 6.78 AZP 88.05 TAL 169.30 TAP 43.86 RCA 102.57 APO 152.47 V2 35.259
RC 130.261 GL -27.59 GP -.44 ZAL 73.22 ZAP 152.96 ETS 359.67 ZAE 131.05 ETE 180.46 ZAC 107.75 ETC 15.35 CLP-152.96

PLANETOCENTRIC CONIC

C3 11.305 VHL 3.362 DLA -26.95 RAL 172.31 RAD 6567.4 VEL 11.519 PTH 2.01 VHP 5.011 DPA 11.58 RAP 159.98 ECC 1.1861

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 33 24	1017.45	16.42	332.05	29.79	113.40	10 50 22	417.4	19.45	324.68
90.00	13 7 53	5800.44	26.64	276.62	33.08	99.97	14 44 34	5200.4	27.75	268.13
100.00	11 20 58	863.82	14.06	319.63	28.65	116.65	11 35 22	263.8	17.53	312.55
100.00	15 3 1	5429.30	29.22	249.74	33.50	96.61	16 33 30	4829.3	29.83	240.99
110.00	11 34 31	821.23	9.74	313.88	26.13	122.93	11 48 13	221.2	14.01	307.38
110.00	17 5 57	5044.65	34.18	220.87	33.84	89.99	18 30 1	4444.6	33.80	211.64

DIFFERENTIAL CORRECTIONS
TDE-2.0223 TRA .8742 TC3-5.7211 BAU .8659
RDE .1230 RRA .0817 RC3 -.3104 FAU .06626
FDE-2.2943 FRA 1.5124 FC3-5.0742 BSP 17086
BDE 2.0260 BRA .8780 BC3 5.7295 FSP -1675

MID-COURSE EXECUTION ACCURACY
SGT 5428.5 SGR 334.5 SG3 513.2
RRT .1883 RRF .1734 RTF .9747
SGB 5438.8 R23 -.0110 R13 .9747
SG1 5428.9 SG2 328.5 THA .67

ORBIT DETERMINATION ACCURACY
ST 3484.3 SR 214.8 SS 1734.6
CRT -.9324 CRS .9041 CST -.9972
LSA 3895.6 MSA 139.4 SSA 17.0
EL1 3490.0 EL2 77.5 ALF 176.71

LAUNCH DATE JUN 7 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 6 1967

DISTANCE 512.862

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 26.569 GAL 2.88 AZL 93.36 HCA 237.81 SMA 127.32 ECC .19866 INC 3.3638 V1 29.345
RP 107.48 LAP 2.85 LOP 133.35 VP 37.780 GAP 7.16 AZP 88.21 TAL 168.22 TAP 46.03 RCA 102.03 APO 152.62 V2 35.259
RC 132.447 GL -26.95 GP -.41 ZAL 71.13 ZAP 154.66 ETS 359.58 ZAE 130.33 ETE 180.52 ZAC 106.24 ETC 15.16 CLP-154.66

PLANETOCENTRIC CONIC
C3 11.805 VHL 3.436 DLA -27.26 RAL 174.66 RAD 6567.4 VEL 11.541 PTH 2.01 VHP 5.201 DPA 11.04 RAP 161.47 ECC 1.1943

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 52 14	995.08	17.02	330.68	33.05	112.98	11 8 49	395.1	19.99	323.26
90.00	13 7 47	5840.83	26.13	279.47	36.07	101.31	14 45 7	5240.8	27.43	271.05
100.00	11 36 24	852.36	14.41	318.95	31.80	116.48	11 50 36	252.4	17.85	311.85
100.00	15 6 17	5458.78	28.97	251.90	36.60	97.72	16 37 16	4858.8	29.73	243.17
110.00	11 47 27	817.68	9.88	313.69	29.16	122.89	12 1 4	217.7	14.14	307.18
110.00	17 11 44	5066.23	34.17	222.55	37.07	90.99	18 36 10	4466.2	33.93	213.32

DIFFERENTIAL CORRECTIONS
TDE-2.0965 TRA 1.0160 TC3-5.5833 BAU .8824
RDE .1366 RRA .0862 RC3 -.2980 FAU .06084
FDE-2.1763 FRA 1.5414 FC3-4.4620 BSP 17393
BDE 2.1009 BRA 1.0196 BC3 5.5912 FSP -1569

MID-COURSE EXECUTION ACCURACY
SGT 5529.4 SGR 346.3 SG3 480.5
RRT .1554 RRF .1396 RTF .9743
SGB 5540.3 R23 -.0125 R13 .9743
SG1 5529.7 SG2 342.1 THA .56

ORBIT DETERMINATION ACCURACY
ST 3544.4 SR 232.9 SS 1677.3
CRT -.9299 CRS .9016 CST -.9973
LSA 3925.6 MSA 140.4 SSA 17.4
EL1 3551.0 EL2 85.5 ALF 176.50

LAUNCH DATE JUN 7 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 8 1967

DISTANCE 518.813

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 26.539 GAL 3.20 AZL 93.37 HCA 241.06 SMA 127.13 ECC .20188 INC 3.3675 V1 29.345
RP 107.48 LAP 2.95 LOP 136.60 VP 37.758 GAP 7.55 AZP 88.37 TAL 167.13 TAP 48.19 RCA 101.46 APO 152.79 V2 35.258
RC 134.624 GL -26.26 GP -.38 ZAL 69.03 ZAP 156.27 ETS 359.48 ZAE 129.69 ETE 180.57 ZAC 104.65 ETC 14.97 CLP-156.27

PLANETOCENTRIC CONIC
C3 12.375 VHL 3.518 DLA -27.54 RAL 177.04 RAD 6567.5 VEL 11.566 PTH 2.02 VHP 5.397 DPA 10.45 RAP 163.02 ECC 1.2037

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 11 19	973.36	17.59	329.34	36.41	112.55	11 27 32	373.4	20.50	321.87
90.00	13 7 39	5882.46	25.55	282.38	39.12	102.65	14 45 42	5282.5	27.03	274.03
100.00	11 51 33	843.33	14.68	318.42	35.03	116.33	12 5 36	243.3	18.10	311.30
100.00	15 10 6	5487.72	28.68	254.00	39.78	98.79	16 41 34	4887.7	29.60	245.32
110.00	12 0 8	816.37	9.92	313.62	32.26	122.88	12 13 44	216.4	14.19	307.11
110.00	17 18 0	5087.45	34.13	224.21	40.39	91.97	18 42 48	4487.4	34.03	214.97

DIFFERENTIAL CORRECTIONS
TDE-2.1723 TRA 1.1650 TC3-5.4285 BAU .8993
RDE .1509 RRA .0902 RC3 -.2836 FAU .05605
FDE-2.0701 FRA 1.5652 FC3-3.9212 BSP 17748
BDE 2.1775 BRA 1.1685 BC3 5.4359 FSP -1478

MID-COURSE EXECUTION ACCURACY
SGT 5628.9 SGR 357.3 SG3 451.0
RRT .1229 RRF .1063 RTF .9740
SGB 5640.2 R23 -.0140 R13 .9740
SG1 5629.1 SG2 354.6 THA .45

ORBIT DETERMINATION ACCURACY
ST 3597.7 SR 250.8 SS 1623.4
CRT -.9275 CRS .8994 CST -.9975
LSA 3952.3 MSA 141.8 SSA 17.6
EL1 3605.2 EL2 93.5 ALF 176.30

LAUNCH DATE JUN 7 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 10 1967

DISTANCE 524.735

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 26.508 GAL 3.55 AZL 93.37 HCA 244.30 SMA 126.93 ECC .20533 INC 3.3709 V1 29.345
RP 107.48 LAP 3.04 LOP 139.85 VP 37.734 GAP 7.95 AZP 88.54 TAL 166.01 TAP 50.32 RCA 100.87 APO 152.99 V2 35.256
RC 136.791 GL -25.54 GP -.36 ZAL 66.92 ZAP 157.81 ETS 359.38 ZAE 129.11 ETE 180.62 ZAC 102.99 ETC 14.78 CLP-157.81

PLANETOCENTRIC CONIC
C3 13.024 VHL 3.609 DLA -27.78 RAL 179.43 RAD 6567.5 VEL 11.594 PTH 2.03 VHP 5.600 DPA 9.83 RAP 164.64 ECC 1.2143

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 30 37	952.37	18.14	328.04	39.85	112.13	11 46 29	352.4	20.98	320.52
90.00	13 7 29	637.29	24.87	307.43	42.21	103.99	13 18 6	37.3	26.55	299.17
100.00	12 6 15	837.17	14.87	318.06	38.33	116.23	12 20 12	237.2	18.28	310.92
100.00	15 14 32	5515.77	28.38	256.03	43.04	99.82	16 46 28	4915.8	29.44	247.39
110.00	12 12 30	817.51	9.88	313.68	35.43	122.89	12 26 8	217.5	14.15	307.17
110.00	17 24 46	5108.19	34.07	225.83	43.78	92.92	18 49 54	4508.2	34.10	216.58

DIFFERENTIAL CORRECTIONS
TDE-2.2466 TRA 1.3248 TC3-5.2482 BAU .9150
RDE .1660 RRA .0937 RC3 -.2675 FAU .05159
FDE-1.9705 FRA 1.5876 FC3-3.4295 BSP 18083
BDE 2.2527 BRA 1.3281 BC3 5.2551 FSP -1396

MID-COURSE EXECUTION ACCURACY
SGT 5720.3 SGR 367.5 SG3 423.5
RRT .0908 RRF .0734 RTF .9738
SGB 5732.1 R23 -.0155 R13 .9738
SG1 5720.4 SG2 365.9 THA .34

ORBIT DETERMINATION ACCURACY
ST 3639.1 SR 268.5 SS 1569.5
CRT -.9249 CRS .8970 CST -.9976
LSA 3969.6 MSA 143.9 SSA 17.8
EL1 3647.6 EL2 101.8 ALF 176.09

LAUNCH DATE JUN 7 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 12 1967

DISTANCE 530.628

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 26.476 GAL 3.91 AZL 93.37 HCA 247.55 SMA 126.73 ECC .20902 INC 3.3742 V1 29.345
RP 107.49 LAP 3.12 LOP 143.10 VP 37.710 GAP 8.36 AZP 88.71 TAL 164.88 TAP 52.44 RCA 100.24 APO 153.21 V2 35.254
RC 138.949 GL -24.78 GP -.34 ZAL 64.80 ZAP 159.28 ETS 359.26 ZAE 128.59 ETE 180.65 ZAC 101.27 ETC 14.59 CLP-159.28

PLANETOCENTRIC CONIC
C3 13.761 VHL 3.710 DLA -27.98 RAL 181.84 RAD 6567.5 VEL 11.625 PTH 2.04 VHP 5.809 DPA 9.17 RAP 166.31 ECC 1.2265

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 50 4	932.15	18.65	326.78	43.39	111.70	12 5 36	332.2	21.43	319.21
90.00	13 7 14	681.45	24.11	310.44	45.35	105.31	13 18 36	81.5	25.98	302.27
100.00	12 20 19	834.32	14.95	317.89	41.67	116.19	12 34 13	234.3	18.35	310.75
100.00	15 19 40	5542.56	28.05	257.95	46.36	100.78	16 52 3	4942.6	29.25	249.35
110.00	12 24 28	821.29	9.74	313.88	38.65	122.93	12 38 9	221.3	14.01	307.38
110.00	17 32 0	5128.36	33.99	227.40	47.25	93.85	18 57 29	4528.4	34.15	218.15

DIFFERENTIAL CORRECTIONS
TDE-2.3194 TRA 1.4962 TC3-5.0443 BAU .9292
RDE .1821 RRA .0966 RC3 -.2501 FAU .04741
FDE-1.8767 FRA 1.6105 FC3-2.9823 BSP 18384
BDE 2.3265 BRA 1.4993 BC3 5.0505 FSP -1318

MID-COURSE EXECUTION ACCURACY
SGT 5803.9 SGR 376.8 SG3 398.1
RRT .0590 RRF .0410 RTF .9735
SGB 5816.2 R23 -.0167 R13 .9735
SG1 5804.0 SG2 376.2 THA .22

ORBIT DETERMINATION ACCURACY
ST 3669.0 SR 285.8 SS 1515.7
CRT -.9222 CRS .8944 CST -.9977
LSA 3977.3 MSA 147.0 SSA 17.7
EL1 3678.4 EL2 110.2 ALF 175.89

LAUNCH DATE JUN 7 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 14 1967

HELIOCENTRIC CONIC DISTANCE 536.489

RL 151.83 LAL -.00 LOL 255.58 VL 26.445 GAL 4.29 AZL 93.38 HCA 250.80 SMA 126.52 ECC .21297 INC 3.3772 V1 29.345
RP 107.50 LAP 3.19 LOP 146.35 VP 37.685 GAP 8.78 AZP 88.89 TAL 163.74 TAP 54.54 RCA 99.58 APO 153.47 V2 35.251
RC 141.095 GL -23.99 GP -.32 ZAL 62.70 ZAP 160.69 ETS 359.14 ZAE 128.12 ETE 180.68 ZAC 99.48 ETC 14.41 CLP-160.69

PLANETOCENTRIC CONIC

C3 14.599 VHL 3.821 DLA -28.13 RAL 184.25 RAD 6567.6 VEL 11.661 PTH 2.05 VHP 6.026 DPA 8.48 RAP 168.03 ECC 1.2403

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 9 39	912.61	19.14	325.55	46.99	111.28	12 24 52	312.6	21.86	317.94
90.00	13 6 50	727.07	23.26	313.51	48.51	106.62	13 18 57	127.1	25.32	305.45
100.00	12 33 34	835.25	14.93	317.95	45.05	116.20	12 47 29	235.3	18.33	310.81
100.00	15 25 36	5567.70	27.72	259.75	49.75	101.67	16 58 24	4967.7	29.04	251.19
110.00	12 35 56	827.83	9.50	314.23	41.90	122.99	12 49 44	227.8	13.78	307.75
110.00	17 39 44	5147.89	33.89	228.91	50.79	94.74	19 5 32	4547.9	34.18	219.68

DIFFERENTIAL CORRECTIONS
TDE-2.3880 TRA 1.6819 TC3-4.8141 BAU .9407
RDE .1990 RRA .0987 RC3 -.2316 FAU .04339
FDE-1.7857 FRA 1.6351 FC3-2.5730 BSP 18596
BDE 2.3963 BRA 1.6848 BC3 4.8197 FSP -1239

MID-COURSE EXECUTION ACCURACY
SGT 5876.7 SGR 385.4 SG3 374.3
RRT .0278 RRF .0096 RTF .9731
SGB 5889.3 R23 -.0176 R13 .9731
SG1 5876.7 SG2 385.2 THA .11

ORBIT DETERMINATION ACCURACY
ST 3683.9 SR 302.6 SS 1460.6
CRT -.9190 CRS .8912 CST -.9977
LSA 3971.5 MSA 151.0 SSA 17.6
EL1 3694.4 EL2 118.9 ALF 175.68

LAUNCH DATE JUN 7 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 16 1967

HELIOCENTRIC CONIC DISTANCE 542.316

RL 151.83 LAL -.00 LOL 255.58 VL 26.413 GAL 4.69 AZL 93.38 HCA 254.05 SMA 126.32 ECC .21721 INC 3.3802 V1 29.345
RP 107.51 LAP 3.25 LOP 149.60 VP 37.659 GAP 9.20 AZP 89.07 TAL 162.58 TAP 56.62 RCA 98.88 APO 153.76 V2 35.247
RC 143.232 GL -23.18 GP -.30 ZAL 60.62 ZAP 162.04 ETS 359.00 ZAE 127.68 ETE 180.69 ZAC 97.65 ETC 14.24 CLP-162.05

PLANETOCENTRIC CONIC

C3 15.550 VHL 3.943 DLA -28.24 RAL 186.64 RAD 6567.6 VEL 11.702 PTH 2.06 VHP 6.252 DPA 7.75 RAP 169.80 ECC 1.2559

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 29 31	893.20	19.61	324.33	50.66	110.84	12 44 24	293.2	22.27	316.67
90.00	13 6 3	774.73	22.29	316.68	51.67	107.93	13 18 57	174.7	24.54	308.72
100.00	12 45 50	840.36	14.77	318.25	48.45	116.29	12 59 51	240.4	18.19	311.12
100.00	15 32 24	5590.85	27.39	261.39	53.19	102.47	17 5 35	4990.8	28.83	252.88
110.00	12 46 50	837.24	9.15	314.74	45.18	123.08	13 0 47	237.2	13.44	308.27
110.00	17 47 54	5166.73	33.78	230.37	54.37	95.60	19 14 1	4566.7	34.18	221.15

DIFFERENTIAL CORRECTIONS
TDE-2.4586 TRA 1.8761 TC3-4.5773 BAU .9526
RDE .2167 RRA .1001 RC3 -.2126 FAU .03979
FDE-1.7037 FRA 1.6559 FC3-2.2150 BSP 18869
BDE 2.4682 BRA 1.8787 BC3 4.5822 FSP -1173

MID-COURSE EXECUTION ACCURACY
SGT 5947.0 SGR 393.1 SG3 352.4
RRT -.0038 RRF -.0223 RTF .9729
SGB 5960.0 R23 .0186 R13 -.9729
SG1 5947.0 SG2 393.1 THA 179.99

ORBIT DETERMINATION ACCURACY
ST 3692.6 SR 318.8 SS 1408.8
CRT -.9161 CRS .8884 CST -.9978
LSA 3961.9 MSA 155.3 SSA 17.4
EL1 3704.1 EL2 127.5 ALF 175.47

LAUNCH DATE JUN 7 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 18 1967

HELIOCENTRIC CONIC DISTANCE 548.105

RL 151.83 LAL -.00 LOL 255.58 VL 26.381 GAL 5.11 AZL 93.38 HCA 257.29 SMA 126.12 ECC .22175 INC 3.3831 V1 29.345
RP 107.53 LAP 3.30 LOP 152.85 VP 37.632 GAP 9.64 AZP 89.26 TAL 161.41 TAP 58.70 RCA 98.15 APO 154.08 V2 35.243
RC 145.356 GL -22.35 GP -.28 ZAL 58.56 ZAP 163.35 ETS 358.86 ZAE 127.29 ETE 180.71 ZAC 95.77 ETC 14.08 CLP-163.36

PLANETOCENTRIC CONIC

C3 16.628 VHL 4.078 DLA -28.31 RAL 189.00 RAD 6567.7 VEL 11.748 PTH 2.07 VHP 6.487 DPA 7.00 RAP 171.60 ECC 1.2737

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 51 7	868.99	20.19	322.79	54.44	110.29	13 5 36	269.0	22.77	315.07
90.00	13 3 20	829.44	21.10	320.25	54.79	109.33	13 17 9	229.4	23.55	312.43
100.00	12 57 0	849.94	14.48	318.81	51.85	116.44	13 11 10	249.9	17.92	311.70
100.00	15 40 8	5611.77	27.07	262.86	56.69	103.19	17 13 40	5011.8	28.62	254.40
110.00	12 57 7	849.58	8.69	315.40	48.47	123.19	13 11 17	249.6	13.00	308.95
110.00	17 56 30	5184.89	33.65	231.77	58.01	96.42	19 22 55	4584.9	34.17	222.57

DIFFERENTIAL CORRECTIONS
TDE-2.5279 TRA 2.0833 TC3-4.3276 BAU .9630
RDE .2354 RRA .1006 RC3 -.1933 FAU .03640
FDE-1.6266 FRA 1.6774 FC3-1.8954 BSP 19118
BDE 2.5388 BRA 2.0857 BC3 4.3319 FSP -1111

MID-COURSE EXECUTION ACCURACY
SGT 6010.6 SGR 400.0 SG3 332.2
RRT -.0353 RRF -.0538 RTF .9726
SGB 6023.9 R23 .0193 R13 -.9726
SG1 6010.6 SG2 399.7 THA 179.86

ORBIT DETERMINATION ACCURACY
ST 3690.8 SR 334.3 SS 1358.1
CRT -.9129 CRS .8853 CST -.9979
LSA 3943.7 MSA 160.2 SSA 17.1
EL1 3703.4 EL2 136.0 ALF 175.27

LAUNCH DATE JUN 7 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 20 1967

HELIOCENTRIC CONIC DISTANCE 553.853

RL 151.83 LAL -.00 LOL 255.58 VL 26.348 GAL 5.56 AZL 93.39 HCA 260.53 SMA 125.91 ECC .22663 INC 3.3859 V1 29.345
RP 107.54 LAP 3.34 LOP 156.10 VP 37.604 GAP 10.10 AZP 89.44 TAL 160.23 TAP 60.77 RCA 97.38 APO 154.45 V2 35.237
RC 147.469 GL -21.51 GP -.27 ZAL 56.53 ZAP 164.62 ETS 358.71 ZAE 126.92 ETE 180.71 ZAC 93.85 ETC 13.94 CLP-164.63

PLANETOCENTRIC CONIC

C3 17.850 VHL 4.225 DLA -28.33 RAL 191.34 RAD 6567.7 VEL 11.800 PTH 2.09 VHP 6.733 DPA 6.23 RAP 173.43 ECC 1.2938

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
88.97	12 57 47	893.96	20.28	324.65	58.07	110.23	13 12 41	294.0	22.85	316.92
91.03	13 15 17	837.24	20.29	320.50	58.08	110.21	13 29 14	237.2	22.86	312.77
100.00	13 6 59	864.14	14.05	319.65	55.25	116.66	13 21 23	264.1	17.52	312.57
100.00	15 48 47	5630.33	26.78	264.16	60.24	103.81	17 22 37	5030.3	28.41	255.74
110.00	13 6 45	864.86	8.12	316.22	51.76	123.32	13 21 10	264.9	12.45	309.79
110.00	18 5 30	5202.38	33.51	233.12	61.68	97.20	19 32 12	4602.4	34.14	223.93

DIFFERENTIAL CORRECTIONS
TDE-2.5959 TRA 2.3040 TC3-4.0684 BAU .9718
RDE .2549 RRA .1000 RC3 -.1741 FAU .03322
FDE-1.5543 FRA 1.6989 FC3-1.6113 BSP 19339
BDE 2.6084 BRA 2.3062 BC3 4.0721 FSP -1052

MID-COURSE EXECUTION ACCURACY
SGT 6067.3 SGR 406.1 SG3 313.3
RRT -.0668 RRF -.0851 RTF .9724
SGB 6080.9 R23 .0199 R13 -.9724
SG1 6067.4 SG2 405.1 THA 179.74

ORBIT DETERMINATION ACCURACY
ST 3679.4 SR 348.8 SS 1308.7
CRT -.9096 CRS .8821 CST -.9980
LSA 3917.2 MSA 165.4 SSA 16.8
EL1 3693.1 EL2 144.4 ALF 175.06

LAUNCH DATE JUN 7 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 22 1967

DISTANCE 559.557

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 26.316 GAL 6.04 AZL 93.39 HCA 263.78 SMA 125.71 ECC .23186 INC 3.3886 V1 29.345
RP 107.56 LAP 3.37 LOP 159.35 VP 37.576 GAP 10.57 AZP 89.63 TAL 159.05 TAP 62.83 RCA 96.56 APO 154.85 V2 35.231
RC 149.570 GL -20.65 GP -.26 ZAL 54.54 ZAP 165.85 ETS 358.56 ZAE 126.58 ETE 180.71 ZAC 91.90 ETC 13.80 CLP-165.86

PLANETOCENTRIC CONIC
C3 19.236 VHL 4.386 DLA -28.32 RAL 193.63 RAD 6567.8 VEL 11.858 PTH 2.10 VHP 6.990 DPA 5.43 RAP 175.28 ECC 1.3166

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
89.64	13 12 34	893.25	19.85	324.43	61.55	110.62	13 27 27	293.3	22.48	316.74
90.36	13 18 48	873.04	19.86	322.95	61.56	110.61	13 33 21	273.0	22.49	315.27
100.00	13 15 44	882.96	13.47	320.74	58.62	116.94	13 30 27	283.0	16.98	313.71
100.00	15 58 19	5646.59	26.51	265.30	63.83	104.35	17 32 25	5046.6	28.22	256.91
110.00	13 15 42	883.05	7.44	317.18	55.05	123.46	13 30 25	283.1	11.79	310.79
110.00	18 14 50	5219.27	33.35	234.42	65.39	97.96	19 41 49	4619.3	34.09	225.25

DIFFERENTIAL CORRECTIONS
TDE-2.6599 TRA 2.5415 TC3-3.7961 BAU .9771
ROE .2753 RRA .0983 RC3 -.1553 FAU .03012
FOE-1.4840 FRA 1.7230 FC3-1.3554 BSP 19462
BOE 2.6741 BRA 2.5434 BC3 3.7993 FSP -991

MID-COURSE EXECUTION ACCURACY
SGT 6114.4 SGR 411.3 SG3 295.6
RRT -.0978 RRF -.1154 RTF .9721
SGB 6128.3 R23 .0200 R13 -.9721
SG1 6114.6 SG2 409.3 THA 179.62

ORBIT DETERMINATION ACCURACY
ST 3655.7 SR 362.3 SS 1259.2
CRT -.9058 CRS .8783 CST -.9980
LSA 3879.6 MSA 171.3 SSA 16.4
EL1 3670.4 EL2 152.9 ALF 174.86

LAUNCH DATE JUN 7 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 24 1967

DISTANCE 565.210

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 26.283 GAL 6.54 AZL 93.39 HCA 267.02 SMA 125.50 ECC .23749 INC 3.3914 V1 29.345
RP 107.58 LAP 3.39 LOP 162.60 VP 37.547 GAP 11.05 AZP 89.82 TAL 157.87 TAP 64.89 RCA 95.70 APO 155.31 V2 35.225
RC 151.657 GL -19.79 GP -.25 ZAL 52.60 ZAP 167.05 ETS 358.39 ZAE 126.27 ETE 180.70 ZAC 89.91 ETC 13.69 CLP-167.06

PLANETOCENTRIC CONIC
C3 20.808 VHL 4.562 DLA -28.26 RAL 195.87 RAD 6567.8 VEL 11.924 PTH 2.12 VHP 7.259 DPA 4.61 RAP 177.16 ECC 1.3424

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 9 30	950.85	18.17	327.95	64.54	112.09	13 25 21	350.8	21.02	320.42
90.00	13 39 44	852.84	20.57	321.75	65.52	109.90	13 53 57	252.8	23.10	313.99
100.00	13 23 17	906.23	12.75	322.09	61.96	117.27	13 38 23	306.2	16.31	315.11
100.00	16 8 38	5660.72	26.26	266.28	67.46	104.81	17 42 59	5060.7	28.04	257.93
110.00	13 23 58	904.08	6.65	318.30	58.33	123.61	13 39 2	304.1	11.02	311.93
110.00	18 24 27	5235.64	33.19	235.67	69.12	98.68	19 51 42	4635.6	34.04	226.53

DIFFERENTIAL CORRECTIONS
TDE-2.7275 TRA 2.7897 TC3-3.5308 BAU .9830
ROE .2965 RRA .0953 RC3 -.1371 FAU .02734
FOE-1.4217 FRA 1.7445 FC3-1.1377 BSP 19672
BOE 2.7436 BRA 2.7913 BC3 3.5335 FSP -942

MID-COURSE EXECUTION ACCURACY
SGT 6159.6 SGR 415.7 SG3 279.4
RRT -.1296 RRF -.1465 RTF .9720
SGB 6173.6 R23 .0201 R13 -.9720
SG1 6159.8 SG2 412.2 THA 179.50

ORBIT DETERMINATION ACCURACY
ST 3629.1 SR 374.6 SS 1214.0
CRT -.9023 CRS .8749 CST -.9981
LSA 3841.0 MSA 176.9 SSA 16.0
EL1 3644.8 EL2 160.8 ALF 174.67

LAUNCH DATE JUN 7 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 26 1967

DISTANCE 570.809

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 26.250 GAL 7.08 AZL 93.39 HCA 270.26 SMA 125.30 ECC .24356 INC 3.3940 V1 29.345
RP 107.60 LAP 3.39 LOP 165.84 VP 37.517 GAP 11.56 AZP 90.02 TAL 156.68 TAP 66.94 RCA 94.78 APO 155.82 V2 35.217
RC 153.730 GL -18.93 GP -.24 ZAL 50.70 ZAP 168.23 ETS 358.20 ZAE 125.97 ETE 180.69 ZAC 87.91 ETC 13.58 CLP-168.23

PLANETOCENTRIC CONIC
C3 22.593 VHL 4.753 DLA -28.17 RAL 198.05 RAD 6567.9 VEL 11.999 PTH 2.14 VHP 7.543 DPA 3.78 RAP 179.06 ECC 1.3718

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 8 16	1003.03	16.81	331.17	67.67	113.13	13 24 59	403.0	19.80	323.77
90.00	13 58 24	840.37	20.86	320.95	69.34	109.60	14 12 24	240.4	23.34	313.16
100.00	13 29 43	933.62	11.89	323.67	65.27	117.63	13 45 16	333.6	15.50	316.74
100.00	16 19 38	5673.05	26.05	267.13	71.12	105.21	17 54 11	5073.1	27.88	258.81
110.00	13 31 33	927.85	5.75	319.55	61.58	123.75	13 47 1	327.9	10.15	313.22
110.00	18 34 17	5251.59	33.02	236.88	72.86	99.38	20 1 49	4651.6	33.96	227.77

DIFFERENTIAL CORRECTIONS
TDE-2.7945 TRA 3.0537 TC3-3.2641 BAU .9866
ROE .3184 RRA .0911 RC3 -.1199 FAU .02471
FOE-1.3634 FRA 1.7672 FC3 -.9470 BSP 19847
BOE 2.8126 BRA 3.0550 BC3 3.2663 FSP -894

MID-COURSE EXECUTION ACCURACY
SGT 6197.8 SGR 419.3 SG3 264.2
RRT -.1614 RRF -.1773 RTF .9719
SGB 6211.9 R23 .0200 R13 -.9719
SG1 6198.1 SG2 413.8 THA 179.37

ORBIT DETERMINATION ACCURACY
ST 3595.2 SR 385.7 SS 1170.8
CRT -.8986 CRS .8713 CST -.9982
LSA 3796.2 MSA 182.6 SSA 15.6
EL1 3611.9 EL2 168.5 ALF 174.48

LAUNCH DATE JUN 7 1967 FLIGHT TIME 204.00 ARRIVAL DATE DEC 28 1967

DISTANCE 576.345

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 26.218 GAL 7.65 AZL 93.40 HCA 273.50 SMA 125.10 ECC .25009 INC 3.3967 V1 29.345
RP 107.63 LAP 3.39 LOP 169.09 VP 37.487 GAP 12.09 AZP 90.21 TAL 155.50 TAP 69.00 RCA 93.81 APO 156.38 V2 35.210
RC 155.789 GL -18.08 GP -.23 ZAL 48.86 ZAP 169.37 ETS 358.01 ZAE 125.69 ETE 180.68 ZAC 85.88 ETC 13.50 CLP-169.38

PLANETOCENTRIC CONIC
C3 24.621 VHL 4.962 DLA -28.05 RAL 200.17 RAD 6568.0 VEL 12.083 PTH 2.16 VHP 7.843 DPA 2.93 RAP 180.98 ECC 1.4052

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 7 25	1054.30	15.41	334.28	70.79	114.05	13 24 59	454.3	18.53	327.00
90.00	14 16 9	831.12	21.07	320.35	73.16	109.37	14 30 0	231.1	23.52	312.54
100.00	13 35 6	964.74	10.90	325.46	68.53	118.01	13 51 11	364.7	14.57	318.58
100.00	16 31 9	5683.95	25.85	267.88	74.80	105.56	18 5 52	5084.0	27.73	259.58
110.00	13 38 27	954.22	4.75	320.94	64.81	123.89	13 54 21	354.2	9.17	314.64
110.00	18 44 17	5267.23	32.84	238.06	76.62	100.06	20 12 4	4667.2	33.88	228.98

DIFFERENTIAL CORRECTIONS
TDE-2.8618 TRA 3.3342 TC3-2.9995 BAU .9879
ROE .3411 RRA .0853 RC3 -.1037 FAU .02222
FOE-1.3092 FRA 1.7909 FC3 -.7813 BSP 20007
BOE 2.8821 BRA 3.3353 BC3 3.0013 FSP -850

MID-COURSE EXECUTION ACCURACY
SGT 6229.9 SGR 422.1 SG3 250.1
RRT -.1932 RRF -.2079 RTF .9720
SGB 6244.1 R23 .0197 R13 -.9720
SG1 6230.4 SG2 414.1 THA 179.25

ORBIT DETERMINATION ACCURACY
ST 3555.4 SR 395.3 SS 1129.8
CRT -.8947 CRS .8676 CST -.9982
LSA 3746.8 MSA 188.1 SSA 15.1
EL1 3573.0 EL2 175.7 ALF 174.31

LAUNCH DATE JUN 7 1967 FLIGHT TIME 206.00 ARRIVAL DATE DEC 30 1967

HELIOCENTRIC CONIC DISTANCE 581.812

RL 151.83 LAL -.00 LOL 255.58 VL 26.185 GAL 8.25 AZL 93.40 HCA 276.74 SMA 124.90 ECC .25715 INC 3.3994 V1 29.345
RP 107.65 LAP 3.38 LOP 172.33 VP 37.456 GAP 12.65 AZP 90.40 TAL 154.32 TAP 71.06 RCA 92.78 APO 157.02 V2 35.201
RC 157.834 GL -17.22 GP -.22 ZAL 47.08 ZAP 170.50 ETS 357.79 ZAE 125.42 ETE 180.65 ZAC 83.83 ETC 13.43 CLP-170.51

PLANETOCENTRIC CONIC

C3 26.928 VHL 5.189 DLA -27.89 RAL 202.22 RAD 6568.1 VEL 12.178 PTH 2.19 VHP 8.160 DPA 2.07 RAP 182.90 ECC 1.4432

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 6 39	1105.63	13.96	337.36	73.88	114.89	13 25 4	505.6	17.21	330.18
90.00	14 33 16	824.07	21.22	319.90	76.96	109.20	14 47 0	224.1	23.65	312.07
100.00	13 39 35	999.14	9.80	327.41	71.75	118.38	13 56 14	399.1	13.51	320.59
100.00	16 43 1	5693.83	25.67	268.56	78.49	105.87	18 17 55	5093.8	27.60	260.29
110.00	13 44 42	983.05	3.66	322.45	68.01	124.01	14 1 5	383.0	8.10	316.18
110.00	18 54 23	5282.69	32.65	239.23	80.38	100.73	20 22 26	4682.7	33.79	230.18

DIFFERENTIAL CORRECTIONS
TDE-2.9260 TRA 3.6364 TC3-2.7339 BAU .9847
RDE .3644 RRA .0780 RC3 -.0889 FAU .01975
FDE-1.2570 FRA 1.8180 FC3 -.6351 BSP 20052
BDE 2.9486 BRA 3.6372 BC3 2.7353 FSP -803

MID-COURSE EXECUTION ACCURACY
SGT 6254.8 SGR 424.1 SG3 236.9
RRT -.2245 RRF -.2376 RTF .9720
SGB 6269.1 R23 .0189 R13 -.9720
SG1 6255.5 SG2 413.2 THA 179.12

ORBIT DETERMINATION ACCURACY
ST 3507.3 SR 403.4 SS 1090.1
CRT -.8904 CRS .8632 CST -.9983
LSA 3689.8 MSA 193.7 SSA 14.7
EL1 3525.7 EL2 182.7 ALF 174.14

LAUNCH DATE JUN 7 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 1 1968

HELIOCENTRIC CONIC DISTANCE 587.200

RL 151.83 LAL -.00 LOL 255.58 VL 26.153 GAL 8.90 AZL 93.40 HCA 279.98 SMA 124.70 ECC .26479 INC 3.4022 V1 29.345
RP 107.68 LAP 3.35 LOP 175.58 VP 37.425 GAP 13.24 AZP 90.59 TAL 153.16 TAP 73.13 RCA 91.68 APO 157.72 V2 35.192
RC 159.863 GL -16.38 GP -.21 ZAL 45.36 ZAP 171.62 ETS 357.54 ZAE 125.15 ETE 180.63 ZAC 81.77 ETC 13.38 CLP-171.62

PLANETOCENTRIC CONIC

C3 29.559 VHL 5.437 DLA -27.70 RAL 204.20 RAD 6568.2 VEL 12.285 PTH 2.21 VHP 8.497 DPA 1.20 RAP 184.84 ECC 1.4865

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 5 51	1157.30	12.46	340.41	76.95	115.63	13 25 8	557.3	15.81	333.33
90.00	14 49 50	818.90	21.34	319.56	80.76	109.07	15 3 29	218.9	23.75	311.72
100.00	13 43 14	1036.43	8.58	329.51	74.92	118.74	14 0 31	436.4	12.36	322.75
100.00	16 55 7	5703.05	25.49	269.19	82.20	106.16	18 30 10	5103.1	27.46	260.94
110.00	13 50 19	1014.18	2.47	324.08	71.17	124.10	14 7 14	414.2	6.93	317.83
110.00	19 4 32	5298.07	32.45	240.39	84.15	101.38	20 32 50	4698.1	33.68	231.37

DIFFERENTIAL CORRECTIONS
TDE-2.9962 TRA 3.9525 TC3-2.4819 BAU .9812
RDE .3883 RRA .0690 RC3 -.0752 FAU .01754
FDE-1.2116 FRA 1.8440 FC3 -.5137 BSP 20197
BDE 3.0212 BRA 3.9531 BC3 2.4831 FSP -764

MID-COURSE EXECUTION ACCURACY
SGT 6275.7 SGR 425.4 SG3 224.6
RRT -.2566 RRF -.2682 RTF .9723
SGB 6290.1 R23 .0182 R13 -.9723
SG1 6276.7 SG2 411.1 THA 179.00

ORBIT DETERMINATION ACCURACY
ST 3459.5 SR 410.0 SS 1054.8
CRT -.8864 CRS .8595 CST -.9984
LSA 3634.5 MSA 198.5 SSA 14.3
EL1 3478.6 EL2 188.8 ALF 173.99

LAUNCH DATE JUN 7 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 3 1968

HELIOCENTRIC CONIC DISTANCE 592.497

RL 151.83 LAL -.00 LOL 255.58 VL 26.120 GAL 9.59 AZL 93.41 HCA 283.21 SMA 124.50 ECC .27308 INC 3.4050 V1 29.345
RP 107.71 LAP 3.31 LOP 178.82 VP 37.394 GAP 13.87 AZP 90.78 TAL 152.01 TAP 75.22 RCA 90.50 APO 158.50 V2 35.183
RC 161.876 GL -15.55 GP -.20 ZAL 43.70 ZAP 172.72 ETS 357.26 ZAE 124.89 ETE 180.60 ZAC 79.71 ETC 13.36 CLP-172.72

PLANETOCENTRIC CONIC

C3 32.564 VHL 5.706 DLA -27.48 RAL 206.10 RAD 6568.3 VEL 12.407 PTH 2.24 VHP 8.857 DPA .32 RAP 186.78 ECC 1.5359

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 4 58	1209.39	10.91	343.45	79.99	116.29	13 25 7	609.4	14.36	336.46
90.00	15 5 51	815.47	21.42	319.34	84.54	108.98	15 19 26	215.5	23.81	311.49
100.00	13 46 11	1076.19	7.27	331.74	78.05	119.07	14 4 7	476.2	11.10	325.04
100.00	17 7 19	5711.94	25.32	269.79	85.90	106.44	18 42 31	5111.9	27.33	261.57
110.00	13 55 20	1047.43	1.20	325.82	74.31	124.16	14 12 48	447.4	5.67	319.59
110.00	19 14 39	5313.46	32.24	241.54	87.90	102.03	20 43 13	4713.5	33.56	232.55

DIFFERENTIAL CORRECTIONS
TDE-3.0680 TRA 4.2894 TC3-2.2372 BAU .9744
RDE .4129 RRA .0582 RC3 -.0630 FAU .01541
FDE-1.1699 FRA 1.8721 FC3 -.4098 BSP 20314
BDE 3.0957 BRA 4.2898 BC3 2.2381 FSP -727

MID-COURSE EXECUTION ACCURACY
SGT 6290.8 SGR 425.9 SG3 213.2
RRT -.2887 RRF -.2985 RTF .9727
SGB 6305.2 R23 .0173 R13 -.9727
SG1 6292.0 SG2 407.7 THA 178.88

ORBIT DETERMINATION ACCURACY
ST 3408.2 SR 415.0 SS 1022.1
CRT -.8823 CRS .8557 CST -.9985
LSA 3576.5 MSA 202.9 SSA 13.9
EL1 3427.9 EL2 194.2 ALF 173.85

LAUNCH DATE JUN 7 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 5 1968

HELIOCENTRIC CONIC DISTANCE 597.690

RL 151.83 LAL -.00 LOL 255.58 VL 26.088 GAL 10.32 AZL 93.41 HCA 286.44 SMA 124.30 ECC .28208 INC 3.4079 V1 29.345
RP 107.74 LAP 3.27 LOP 182.05 VP 37.362 GAP 14.53 AZP 90.97 TAL 150.88 TAP 77.32 RCA 89.24 APO 159.37 V2 35.172
RC 163.875 GL -14.73 GP -.20 ZAL 42.12 ZAP 173.82 ETS 356.91 ZAE 124.63 ETE 180.57 ZAC 77.64 ETC 13.35 CLP-173.82

PLANETOCENTRIC CONIC

C3 36.005 VHL 6.000 DLA -27.23 RAL 207.91 RAD 6568.4 VEL 12.545 PTH 2.27 VHP 9.242 DPA -.55 RAP 188.73 ECC 1.5926

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 3 58	1261.90	9.31	346.47	82.98	116.86	13 25 0	661.9	12.84	339.58
90.00	15 21 20	813.66	21.46	319.22	88.29	108.94	15 34 53	213.7	23.84	311.36
100.00	13 48 29	1118.08	5.88	334.07	81.14	119.36	14 7 7	518.1	9.75	327.42
100.00	17 19 30	5720.75	25.15	270.39	89.59	106.71	18 54 51	5120.8	27.20	262.19
110.00	13 59 46	1082.65	-.15	327.65	77.40	124.18	14 17 49	482.7	4.34	321.44
110.00	19 24 42	5328.94	32.01	242.69	91.63	102.68	20 53 31	4728.9	33.43	233.74

DIFFERENTIAL CORRECTIONS
TDE-3.1426 TRA 4.6487 TC3-2.0016 BAU .9638
RDE .4379 RRA .0455 RC3 -.0522 FAU .01338
FDE-1.1321 FRA 1.9026 FC3 -.3217 BSP 20412
BDE 3.1729 BRA 4.6490 BC3 2.0022 FSP -692

MID-COURSE EXECUTION ACCURACY
SGT 6300.6 SGR 425.6 SG3 202.5
RRT -.3207 RRF -.3287 RTF .9733
SGB 6314.9 R23 .0161 R13 -.9733
SG1 6302.1 SG2 403.0 THA 178.75

ORBIT DETERMINATION ACCURACY
ST 3354.5 SR 418.4 SS 992.4
CRT -.8782 CRS .8520 CST -.9985
LSA 3517.0 MSA 206.6 SSA 13.5
EL1 3374.6 EL2 198.9 ALF 173.73

LAUNCH DATE JUN 7 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 7 1968

DISTANCE 602.763

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 26.056 GAL 11.12 AZL 93.41 HCA 289.67 SMA 124.11 ECC .29188 INC 3.4109 V1 29.345
RP 107.78 LAP 3.21 LOP 185.29 VP 37.330 GAP 15.24 AZP 91.15 TAL 149.77 TAP 79.44 RCA 87.89 APO 160.34 V2 35.162
RC 165.860 GL -13.92 GP -.19 ZAL 40.60 ZAP 174.91 ETS 356.47 ZAE 124.36 ETE 180.54 ZAC 75.57 ETC 13.37 CLP-174.91

PLANETOCENTRIC CONIC
C3 39.958 VHL 6.321 DLA -26.97 RAL 209.64 RAD 6568.5 VEL 12.701 PTH 2.31 VHP 9.656 DPA -1.43 RAP 190.68 ECC 1.6576

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 2 51	1314.84	7.67	349.50	85.95	117.34	13 24 46	714.8	11.27	342.67
90.00	15 36 16	813.35	21.46	319.20	92.02	108.93	15 49 49	213.4	23.85	311.34
100.00	13 50 14	1161.79	4.42	336.49	84.17	119.59	14 9 35	561.8	8.33	329.88
100.00	17 31 34	5729.68	24.98	271.00	93.25	106.98	19 7 4	5129.7	27.06	262.82
110.00	14 3 39	1119.66	-1.56	329.58	80.46	124.15	14 22 18	519.7	2.93	323.38
110.00	19 34 38	5344.57	31.77	243.84	95.35	103.32	21 3 43	4744.6	33.28	234.94

DIFFERENTIAL CORRECTIONS
TDE-3.2208 TRA 5.0318 TC3-1.7762 BAU .9491
RDE .4634 RRA .0308 RC3 -.0428 FAU .01142
FDE-1.0981 FRA 1.9358 FC3 -.2475 BSP 20492
BDE 3.2540 BRA 5.0319 BC3 1.7768 FSP -659

MID-COURSE EXECUTION ACCURACY
SGT 6304.8 SGR 424.7 SG3 192.5
RRT -.3528 RRF -.3589 RTF .9740
SGB 6319.1 R23 .0148 R13 -.9740
SG1 6306.6 SG2 397.2 THA 178.63

ORBIT DETERMINATION ACCURACY
ST 3299.1 SR 420.1 SS 965.6
CRT -.8742 CRS .8483 CST -.9986
LSA 3456.7 MSA 209.7 SSA 13.1
EL1 3319.5 EL2 202.8 ALF 173.62

LAUNCH DATE JUN 7 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 9 1968

DISTANCE 607.696

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 26.025 GAL 11.97 AZL 93.41 HCA 292.90 SMA 123.92 ECC .30258 INC 3.4139 V1 29.345
RP 107.81 LAP 3.14 LOP 188.52 VP 37.297 GAP 16.00 AZP 91.33 TAL 148.69 TAP 81.60 RCA 86.42 APO 161.42 V2 35.151
RC 167.829 GL -13.13 GP -.19 ZAL 39.16 ZAP 176.01 ETS 355.84 ZAE 124.08 ETE 180.50 ZAC 73.51 ETC 13.41 CLP-176.01

PLANETOCENTRIC CONIC
C3 44.513 VHL 6.672 DLA -26.67 RAL 211.29 RAD 6568.7 VEL 12.879 PTH 2.35 VHP 10.102 DPA -2.31 RAP 192.62 ECC 1.7326

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 1 33	1368.19	5.99	352.52	88.87	117.73	13 24 22	768.2	9.65	345.76
90.00	15 50 40	814.43	21.44	319.27	95.70	108.95	16 4 14	214.4	23.83	311.42
100.00	13 51 26	1207.07	2.89	338.98	87.16	119.77	14 11 34	607.1	6.83	332.41
100.00	17 43 28	5738.83	24.79	271.61	96.89	107.25	19 19 7	5138.8	26.92	263.46
110.00	14 6 59	1158.29	-3.04	331.60	83.47	124.06	14 26 17	558.3	1.45	325.40
110.00	19 44 25	5360.37	31.52	245.00	99.02	103.97	21 13 45	4760.4	33.12	236.14

DIFFERENTIAL CORRECTIONS
TDE-3.2997 TRA 5.4453 TC3-1.5584 BAU .9276
RDE .4892 RRA .0137 RC3 -.0348 FAU .00946
FDE-1.0664 FRA 1.9736 FC3 -.1840 BSP 20468
BDE 3.3358 BRA 5.4453 BC3 1.5587 FSP -625

MID-COURSE EXECUTION ACCURACY
SGT 6304.0 SGR 422.9 SG3 183.2
RRT -.3844 RRF -.3884 RTF .9749
SGB 6318.1 R23 .0132 R13 -.9749
SG1 6306.1 SG2 390.3 THA 178.52

ORBIT DETERMINATION ACCURACY
ST 3240.1 SR 420.2 SS 941.1
CRT -.8699 CRS .8443 CST -.9987
LSA 3393.5 MSA 212.2 SSA 12.7
EL1 3260.8 EL2 205.9 ALF 173.54

LAUNCH DATE JUN 7 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 11 1968

DISTANCE 612.464

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 25.993 GAL 12.89 AZL 93.42 HCA 296.13 SMA 123.73 ECC .31429 INC 3.4172 V1 29.345
RP 107.84 LAP 3.07 LOP 191.75 VP 37.265 GAP 16.81 AZP 91.51 TAL 147.66 TAP 83.79 RCA 84.84 APO 162.62 V2 35.139
RC 169.783 GL -12.36 GP -.18 ZAL 37.79 ZAP 177.11 ETS 354.80 ZAE 123.79 ETE 180.46 ZAC 71.46 ETC 13.48 CLP-177.12

PLANETOCENTRIC CONIC
C3 49.781 VHL 7.056 DLA -26.36 RAL 212.84 RAD 6568.8 VEL 13.082 PTH 2.39 VHP 10.585 DPA -3.18 RAP 194.56 ECC 1.8193

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 0 4	1421.93	4.28	355.54	91.74	118.02	13 23 46	821.9	7.99	348.83
90.00	16 4 32	816.75	21.39	319.42	99.34	109.01	16 18 9	216.7	23.79	311.57
100.00	13 52 10	1253.68	1.31	341.54	90.10	119.87	14 13 4	653.7	5.28	335.00
100.00	17 55 7	5748.26	24.60	272.25	100.49	107.54	19 30 56	5148.3	26.77	264.12
110.00	14 9 47	1198.39	-4.56	333.70	86.44	123.91	14 29 46	598.4	-.08	327.49
110.00	19 54 0	5376.33	31.25	246.17	102.66	104.61	21 23 36	4776.3	32.94	237.35

DIFFERENTIAL CORRECTIONS
TDE-3.3889 TRA 5.8833 TC3-1.3560 BAU .9026
RDE .5156 RRA -.0056 RC3 -.0281 FAU .00764
FDE-1.0406 FRA 2.0133 FC3 -.1328 BSP 20539
BDE 3.4279 BRA 5.8833 BC3 1.3563 FSP -596

MID-COURSE EXECUTION ACCURACY
SGT 6298.1 SGR 420.6 SG3 174.5
RRT -.4165 RRF -.4186 RTF .9759
SGB 6312.1 R23 .0117 R13 -.9760
SG1 6300.5 SG2 382.2 THA 178.40

ORBIT DETERMINATION ACCURACY
ST 3183.7 SR 418.7 SS 920.8
CRT -.8662 CRS .8412 CST -.9988
LSA 3333.6 MSA 213.6 SSA 12.2
EL1 3204.3 EL2 207.9 ALF 173.47

LAUNCH DATE JUN 7 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 13 1968

DISTANCE 617.036

HELIOCENTRIC CONIC
RL 151.83 LAL -.00 LOL 255.58 VL 25.963 GAL 13.89 AZL 93.42 HCA 299.36 SMA 123.55 ECC .32715 INC 3.4206 V1 29.345
RP 107.88 LAP 2.98 LOP 194.98 VP 37.232 GAP 17.70 AZP 91.68 TAL 146.67 TAP 86.03 RCA 83.13 APO 163.97 V2 35.128
RC 171.722 GL -11.60 GP -.18 ZAL 36.50 ZAP 178.22 ETS 352.58 ZAE 123.48 ETE 180.42 ZAC 69.42 ETC 13.57 CLP-178.23

PLANETOCENTRIC CONIC
C3 55.900 VHL 7.477 DLA -26.03 RAL 214.30 RAD 6569.0 VEL 13.314 PTH 2.43 VHP 11.111 DPA -4.04 RAP 196.49 ECC 1.9200

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 58 22	1476.00	2.54	358.57	94.56	118.21	13 22 58	876.0	6.29	351.90
90.00	16 17 53	820.13	21.31	319.64	102.92	109.10	16 31 33	220.1	23.72	311.80
100.00	13 52 25	1301.43	-.31	344.16	92.98	119.89	14 14 7	701.4	3.67	337.63
100.00	18 6 30	5757.98	24.40	272.90	104.04	107.82	19 42 28	5158.0	26.61	264.80
110.00	14 12 4	1239.77	-6.13	335.88	89.37	123.69	14 32 44	639.8	-1.66	329.64
110.00	20 3 20	5392.40	30.97	247.34	106.24	105.25	21 33 13	4792.4	32.75	238.57

DIFFERENTIAL CORRECTIONS
TDE-3.4849 TRA 6.3539 TC3-1.1650 BAU .8708
RDE .5422 RRA -.0273 RC3 -.0226 FAU .00584
FDE-1.0186 FRA 2.0574 FC3 -.0905 BSP 20579
BDE 3.5268 BRA 6.3540 BC3 1.1652 FSP -568

MID-COURSE EXECUTION ACCURACY
SGT 6287.2 SGR 417.5 SG3 166.3
RRT -.4484 RRF -.4487 RTF .9772
SGB 6301.1 R23 .0100 R13 -.9772
SG1 6290.0 SG2 373.0 THA 178.29

ORBIT DETERMINATION ACCURACY
ST 3126.8 SR 415.6 SS 903.8
CRT -.8627 CRS .8384 CST -.9988
LSA 3274.3 MSA 214.0 SSA 11.8
EL1 3147.4 EL2 208.8 ALF 173.43

LAUNCH DATE JUN 8 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 17 1967

HELIOCENTRIC CONIC DISTANCE 152.913

RL 151.84 LAL -.00 LOL 256.54 VL 21.225 GAL 4.46 AZL 93.40 HCA 58.93 SMA 102.28 ECC .48934 INC 3.3994 V1 29.341
RP 108.94 LAP -2.91 LOP 315.42 VP 33.747 GAP -29.08 AZP 91.76 TAL 175.31 TAP 234.24 RCA 52.23 APO 152.33 V2 34.785
RC 46.594 GL -8.55 GP -.02 ZAL 80.21 ZAP 17.90 ETS 180.71 ZAE 166.36 ETE 132.14 ZAC 111.32 ETC 16.05 CLP 17.90

PLANETOCENTRIC CONIC

C3 71.156 VHL 8.435 DLA -6.43 RAL 173.33 RAD 6569.4 VEL 13.875 PTH 2.53 VHP 17.217 DPA 13.35 RAP 156.49 ECC 2.1711

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 39 57	2327.54	-22.14	48.77	54.44	108.12	7 18 44	1727.5	-19.46	41.12
90.00	17 1 35	5373.04	27.84	245.61	59.85	84.62	18 31 8	4773.0	26.81	237.10
100.00	7 58 13	2075.01	-23.55	29.69	53.93	108.97	8 32 48	1475.0	-20.74	22.01
100.00	18 25 59	5100.81	29.32	225.42	59.68	83.89	19 51 0	4500.8	28.16	216.81
110.00	8 59 28	1883.27	-27.32	13.60	52.40	111.40	9 30 51	1283.3	-24.16	5.85
110.00	19 41 14	4865.31	33.31	206.96	59.10	81.82	21 2 20	4265.3	31.82	198.05

DIFFERENTIAL CORRECTIONS
TOE .4659 TRA-1.0637 TC3 -.0440 BAU .0657
ROE -.5733 RRA -.2725 RC3 .0532 FAU .01685
FOE -.3161 FRA .4387 FC3 -.2051 BSP 2105
BOE .7387 BRA 1.0980 BC3 .0690 FSP -93

MID-COURSE EXECUTION ACCURACY
SGT 796.4 SGR 440.9 SG3 43.7
RRT .0158 RRF -.0149 RTF -.6464
SGB 910.3 R23 -.0001 R13 -.6464
SG1 796.4 SG2 440.8 THA .72

ORBIT DETERMINATION ACCURACY
ST 384.4 SR 393.4 SS 346.6
CRT -.7344 CRS -.8569 CST .9775
LSA 616.3 MSA 206.4 SSA 14.3
EL1 512.2 EL2 200.4 ALF 134.09

LAUNCH DATE JUN 8 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 19 1967

HELIOCENTRIC CONIC DISTANCE 159.320

RL 151.84 LAL -.00 LOL 256.54 VL 21.716 GAL 4.24 AZL 93.40 HCA 62.09 SMA 103.97 ECC .46508 INC 3.3988 V1 29.341
RP 108.94 LAP -3.00 LOP 318.59 VP 34.060 GAP -27.59 AZP 91.59 TAL 175.10 TAP 237.19 RCA 55.62 APO 152.33 V2 34.786
RC 45.578 GL -9.29 GP -.02 ZAL 79.95 ZAP 16.28 ETS 180.62 ZAE 167.45 ETE 123.17 ZAC 109.83 ETC 15.81 CLP 16.28

PLANETOCENTRIC CONIC

C3 63.193 VHL 7.949 DLA -7.22 RAL 173.28 RAD 6569.2 VEL 13.585 PTH 2.48 VHP 16.402 DPA 12.80 RAP 157.98 ECC 2.0400

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 45 51	2274.18	-20.97	45.29	52.23	109.48	7 23 45	1674.2	-18.12	37.77
90.00	16 55 20	5369.79	27.82	245.38	58.04	84.51	18 24 50	4769.8	26.77	236.87
100.00	8 3 43	2022.93	-22.35	26.28	51.69	110.38	8 37 26	1422.9	-19.37	18.75
100.00	18 20 8	5096.27	29.28	225.09	57.86	83.72	19 45 5	4496.3	28.11	216.49
110.00	9 4 4	1834.01	-26.05	10.33	50.08	112.96	9 34 38	1234.0	-22.71	2.76
110.00	19 36 17	4857.95	33.23	206.40	57.27	81.49	20 57 15	4258.0	31.70	197.50

DIFFERENTIAL CORRECTIONS
TOE .4660 TRA-1.0457 TC3 -.0331 BAU .0584
ROE -.5432 RRA -.2572 RC3 .0607 FAU .01745
FOE -.3334 FRA .4485 FC3 -.2391 BSP 2247
BOE .7157 BRA 1.0769 BC3 .0691 FSP -105

MID-COURSE EXECUTION ACCURACY
SGT 832.3 SGR 444.4 SG3 48.0
RRT .0146 RRF -.0141 RTF -.6668
SGB 943.5 R23 -.0004 R13 -.6669
SG1 832.4 SG2 444.3 THA .63

ORBIT DETERMINATION ACCURACY
ST 405.9 SR 395.5 SS 368.0
CRT -.7395 CRS -.8623 CST .9769
LSA 642.4 MSA 209.0 SSA 14.5
EL1 528.6 EL2 204.4 ALF 136.01

LAUNCH DATE JUN 8 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 21 1967

HELIOCENTRIC CONIC DISTANCE 165.778

RL 151.84 LAL -.00 LOL 256.54 VL 22.172 GAL 3.99 AZL 93.40 HCA 65.25 SMA 105.63 ECC .44201 INC 3.3982 V1 29.341
RP 108.93 LAP -3.09 LOP 321.75 VP 34.355 GAP -26.18 AZP 91.42 TAL 174.93 TAP 240.18 RCA 58.94 APO 152.32 V2 34.788
RC 44.711 GL -10.07 GP -.02 ZAL 79.81 ZAP 14.67 ETS 180.52 ZAE 168.26 ETE 112.24 ZAC 108.33 ETC 15.58 CLP 14.67

PLANETOCENTRIC CONIC

C3 56.202 VHL 7.497 DLA -8.00 RAL 173.12 RAD 6569.0 VEL 13.325 PTH 2.44 VHP 15.620 DPA 12.23 RAP 159.46 ECC 1.9249

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 51 15	2220.74	-19.72	41.87	49.94	110.74	7 28 16	1620.7	-16.72	34.48
90.00	16 48 38	5366.09	27.80	245.11	56.07	84.37	18 18 4	4766.1	26.73	236.61
100.00	8 8 44	1970.78	-21.08	22.93	49.38	111.70	8 41 35	1370.8	-17.94	15.54
100.00	18 13 50	5091.28	29.25	224.72	55.90	83.53	19 38 42	4491.3	28.04	216.13
110.00	9 8 10	1784.69	-24.70	7.13	47.70	114.42	9 37 54	1184.7	-21.20	359.74
110.00	19 30 54	4850.13	33.15	205.80	55.29	81.15	20 51 44	4250.1	31.58	196.93

DIFFERENTIAL CORRECTIONS
TOE .4670 TRA-1.0266 TC3 -.0184 BAU .0536
ROE -.5140 RRA -.2422 RC3 .0689 FAU .01812
FOE -.3520 FRA .4574 FC3 -.2792 BSP 2394
BOE .6945 BRA 1.0548 BC3 .0713 FSP -117

MID-COURSE EXECUTION ACCURACY
SGT 869.4 SGR 447.2 SG3 52.7
RRT .0130 RRF -.0129 RTF -.6865
SGB 977.7 R23 -.0008 R13 -.6866
SG1 869.4 SG2 447.1 THA .52

ORBIT DETERMINATION ACCURACY
ST 428.8 SR *396.8 SS 390.6
CRT -.7456 CRS -.8682 CST .9765
LSA 670.3 MSA 210.8 SSA 14.8
EL1 546.1 EL2 207.6 ALF 137.97

LAUNCH DATE JUN 8 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 23 1967

HELIOCENTRIC CONIC DISTANCE 172.282

RL 151.84 LAL -.00 LOL 256.54 VL 22.594 GAL 3.74 AZL 93.40 HCA 68.42 SMA 107.24 ECC .42014 INC 3.3976 V1 29.341
RP 108.92 LAP -3.16 LOP 324.92 VP 34.631 GAP -24.83 AZP 91.25 TAL 174.81 TAP 243.23 RCA 62.18 APO 152.30 V2 34.791
RC 44.000 GL -10.89 GP -.02 ZAL 79.78 ZAP 13.06 ETS 180.41 ZAE 168.66 ETE 99.63 ZAC 106.84 ETC 15.37 CLP 13.06

PLANETOCENTRIC CONIC

C3 50.064 VHL 7.076 DLA -8.77 RAL 172.84 RAD 6568.8 VEL 13.093 PTH 2.39 VHP 14.869 DPA 11.67 RAP 160.94 ECC 1.8239

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 56 9	2167.43	-18.40	38.52	47.59	111.91	7 32 17	1567.4	-15.26	31.24
90.00	16 41 29	5362.12	27.77	244.82	53.98	84.23	18 10 51	4762.1	26.68	236.33
100.00	8 13 14	1918.77	-19.73	19.65	47.01	112.92	8 45 13	1318.8	-16.46	12.39
100.00	18 7 6	5086.01	29.21	224.34	53.80	83.33	19 31 52	4486.0	27.98	215.75
110.00	9 11 45	1735.53	-23.28	4.02	45.28	115.77	9 40 41	1135.5	-19.62	356.79
110.00	19 25 4	4842.02	33.07	205.18	53.17	80.79	20 45 46	4242.0	31.44	196.33

DIFFERENTIAL CORRECTIONS
TOE .4685 TRA-1.0064 TC3 .0005 BAU .0521
ROE -.4858 RRA -.2276 RC3 .0779 FAU .01887
FOE -.3721 FRA .4658 FC3 -.3262 BSP 2545
BOE .6750 BRA 1.0318 BC3 .0779 FSP -131

MID-COURSE EXECUTION ACCURACY
SGT 907.7 SGR 449.1 SG3 57.9
RRT .0113 RRF -.0117 RTF -.7055
SGB 1012.7 R23 -.0011 R13 -.7055
SG1 907.7 SG2 449.1 THA .42

ORBIT DETERMINATION ACCURACY
ST 452.9 SR 397.4 SS 414.5
CRT -.7524 CRS -.8743 CST .9762
LSA 699.8 MSA 211.9 SSA 15.1
EL1 564.8 EL2 209.9 ALF 139.95

LAUNCH DATE JUN 8 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 25 1967

HELIOCENTRIC CONIC DISTANCE 178.828

RL 151.84 LAL -.00 LOL 256.54 VL 22.985 GAL 3.47 AZL 93.40 HCA 71.58 SMA 108.81 ECC .39945 INC 3.3971 VI 29.341
RP 108.91 LAP -3.22 LOP 328.09 VP 34.891 GAP -23.54 AZP 91.07 TAL 174.75 TAP 246.33 RCA 65.34 APO 152.27 V2 34.795
RC 43.455 GL -11.74 GP -.02 ZAL 79.88 ZAP 11.45 ETS 180.31 ZAE 168.53 ETE 86.29 ZAC 105.34 ETC 15.16 CLP 11.45

PLANETOCENTRIC CONIC

C3 44.677 VHL 6.684 DLA -9.52 RAL 172.44 RAD 6568.7 VEL 12.886 PTH 2.35 VHP 14.149 DPA 11.09 RAP 162.40 ECC 1.7353

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 0 33	2114.46	-17.02	35.24	45.19	112.98	7 35 47	1514.5	-13.76	28.08
90.00	16 33 53	5358.05	27.74	244.53	51.76	84.09	18 3 11	4758.1	26.63	236.04
100.00	8 17 13	1867.13	-18.33	16.46	44.59	114.03	8 48 20	1267.1	-14.93	9.32
100.00	17 59 54	5080.62	29.16	223.94	51.58	83.13	19 24 35	4480.6	27.90	215.37
110.00	9 14 49	1686.74	-21.81	1.00	42.83	117.00	9 42 56	1086.7	-18.01	353.93
110.00	19 18 47	4833.78	32.97	204.56	50.94	80.43	20 39 21	4233.8	31.30	195.73

DIFFERENTIAL CORRECTIONS
TDE .4689 TRA -.9869 TC3 .0227 BAU .0541
RDE -.4587 RRA -.2135 RC3 .0876 FAU .01968
FDE -.3937 FRA .4738 FC3 -.3814 BSP 2653
BDE .6560 BRA 1.0097 BC3 .0905 FSP -147

MID-COURSE EXECUTION ACCURACY
SGT 947.8 SGR 450.3 SG3 63.7
RRT .0109 RRF -.0103 RTF -.7219
SGB 1049.3 R23 -.0002 R13 -.7219
SG1 947.8 SG2 450.2 THA .38

ORBIT DETERMINATION ACCURACY
ST 477.3 SR 397.1 SS 439.7
CRT -.7583 CRS -.8804 CST .9754
LSA 730.3 MSA 212.7 SSA 15.4
EL1 583.7 EL2 211.7 ALF 141.85

LAUNCH DATE JUN 8 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 27 1967

HELIOCENTRIC CONIC DISTANCE 185.410

RL 151.84 LAL -.00 LOL 256.54 VL 23.347 GAL 3.20 AZL 93.40 HCA 74.74 SMA 110.32 ECC .37992 INC 3.3965 VI 29.341
RP 108.90 LAP -3.28 LOP 331.26 VP 35.135 GAP -22.32 AZP 90.89 TAL 174.74 TAP 249.48 RCA 68.41 APO 152.24 V2 34.799
RC 43.079 GL -12.62 GP -.02 ZAL 80.09 ZAP 9.82 ETS 180.19 ZAE 167.83 ETE 73.52 ZAC 103.85 ETC 14.97 CLP 9.82

PLANETOCENTRIC CONIC

C3 39.950 VHL 6.321 DLA -10.26 RAL 171.91 RAD 6568.5 VEL 12.701 PTH 2.31 VHP 13.457 DPA 10.51 RAP 163.85 ECC 1.6575

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 4 24	2062.09	-15.60	32.05	42.75	113.93	7 38 46	1462.1	-12.24	24.99
90.00	16 25 49	5354.04	27.71	244.24	49.43	83.94	17 55 3	4754.0	26.59	235.75
100.00	8 20 39	1816.08	-16.89	13.35	42.14	115.04	8 50 55	1216.1	-13.37	6.32
100.00	17 52 15	5075.28	29.12	223.55	49.25	82.93	19 16 51	4475.3	27.83	214.98
110.00	9 17 20	1638.56	-20.29	358.09	40.35	118.12	9 44 39	1038.6	-16.37	351.16
110.00	19 12 3	4825.57	32.88	203.94	48.59	80.08	20 32 29	4225.6	31.16	195.13

DIFFERENTIAL CORRECTIONS
TDE .4718 TRA -.9644 TC3 .0520 BAU .0593
RDE -.4326 RRA -.1997 RC3 .0982 FAU .02060
FDE -.4174 FRA .4808 FC3 -.4465 BSP 2813
BDE .6402 BRA .9848 BC3 .1111 FSP -164

MID-COURSE EXECUTION ACCURACY
SGT 988.2 SGR 450.6 SG3 70.1
RRT .0087 RRF -.0085 RTF -.7392
SGB 1086.1 R23 -.0005 R13 -.7392
SG1 988.2 SG2 450.6 THA .29

ORBIT DETERMINATION ACCURACY
ST 504.0 SR 396.1 SS 466.7
CRT -.7667 CRS -.8869 CST .9753
LSA 763.8 MSA 212.2 SSA 15.7
EL1 605.0 EL2 211.8 ALF 143.80

LAUNCH DATE JUN 8 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 29 1967

HELIOCENTRIC CONIC DISTANCE 192.024

RL 151.84 LAL -.00 LOL 256.54 VL 23.681 GAL 2.94 AZL 93.40 HCA 77.91 SMA 111.79 ECC .36153 INC 3.3960 VI 29.341
RP 108.88 LAP -3.32 LOP 334.42 VP 35.363 GAP -21.14 AZP 90.71 TAL 174.79 TAP 252.70 RCA 71.37 APO 152.20 V2 34.804
RC 42.876 GL -13.54 GP -.02 ZAL 80.42 ZAP 8.19 ETS 180.07 ZAE 166.65 ETE 62.36 ZAC 102.37 ETC 14.79 CLP 8.19

PLANETOCENTRIC CONIC

C3 35.805 VHL 5.984 DLA -10.98 RAL 171.26 RAD 6568.4 VEL 12.537 PTH 2.27 VHP 12.792 DPA 9.93 RAP 165.29 ECC 1.5893

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 7 42	2010.56	-14.15	28.96	40.27	114.78	7 41 12	1410.6	-10.69	21.99
90.00	16 17 19	5350.21	27.69	243.96	47.01	83.81	17 46 29	4750.2	26.54	235.48
100.00	8 23 32	1765.89	-15.42	10.35	39.65	115.93	8 52 58	1165.9	-11.80	3.42
100.00	17 44 10	5070.12	29.07	223.18	46.82	82.73	19 8 40	4470.1	27.76	214.62
110.00	9 19 18	1591.23	-18.74	355.29	37.84	119.12	9 45 49	991.2	-14.72	348.48
110.00	19 4 53	4817.53	32.78	203.33	46.16	79.73	20 25 10	4217.5	31.02	194.55

DIFFERENTIAL CORRECTIONS
TDE .4755 TRA -.9408 TC3 .0876 BAU .0671
RDE -.4076 RRA -.1864 RC3 .1094 FAU .02163
FDE -.4435 FRA .4870 FC3 -.5231 BSP 2970
BDE .6263 BRA .9591 BC3 .1401 FSP -184

MID-COURSE EXECUTION ACCURACY
SGT 1029.7 SGR 450.1 SG3 77.2
RRT .0063 RRF -.0064 RTF -.7555
SGB 1123.8 R23 -.0006 R13 -.7555
SG1 1029.7 SG2 450.1 THA .19

ORBIT DETERMINATION ACCURACY
ST 532.0 SR 394.1 SS 495.5
CRT -.7757 CRS -.8936 CST .9752
LSA 799.5 MSA 210.8 SSA 16.0
EL1 627.7 EL2 210.8 ALF 145.72

LAUNCH DATE JUN 8 1967 FLIGHT TIME 84.00 ARRIVAL DATE AUG 31 1967

HELIOCENTRIC CONIC DISTANCE 198.665

RL 151.84 LAL -.00 LOL 256.54 VL 23.991 GAL 2.67 AZL 93.40 HCA 81.07 SMA 113.19 ECC .34427 INC 3.3955 VI 29.341
RP 108.87 LAP -3.35 LOP 337.60 VP 35.576 GAP -20.02 AZP 90.53 TAL 174.89 TAP 255.97 RCA 74.22 APO 152.16 V2 34.809
RC 42.849 GL -14.49 GP -.02 ZAL 80.87 ZAP 6.53 ETS 179.93 ZAE 165.10 ETE 53.15 ZAC 100.91 ETC 14.62 CLP 6.53

PLANETOCENTRIC CONIC

C3 32.173 VHL 5.672 DLA -11.69 RAL 170.48 RAD 6568.3 VEL 12.391 PTH 2.24 VHP 12.154 DPA 9.35 RAP 166.71 ECC 1.5295

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 10 26	1960.12	-12.69	25.98	37.76	115.53	7 43 6	1360.1	-9.15	19.09
90.00	16 8 23	5346.70	27.66	243.71	44.50	83.68	17 37 30	4746.7	26.50	235.23
100.00	8 25 51	1716.79	-13.93	7.46	37.14	116.72	8 54 28	1116.8	-10.24	.62
100.00	17 35 39	5065.26	29.03	222.82	44.31	82.55	19 0 4	4465.3	27.70	214.27
110.00	9 20 42	1545.02	-17.19	352.60	35.31	120.01	9 46 27	945.0	-13.07	345.91
110.00	18 57 17	4809.80	32.69	202.75	43.64	79.40	20 17 27	4209.8	30.88	193.99

DIFFERENTIAL CORRECTIONS
TDE .4797 TRA -.9160 TC3 .1300 BAU .0765
RDE -.3838 RRA -.1737 RC3 .1213 FAU .02278
FDE -.4721 FRA .4924 FC3 -.6131 BSP 3123
BDE .6143 BRA .9323 BC3 .1778 FSP -206

MID-COURSE EXECUTION ACCURACY
SGT 1072.0 SGR 448.7 SG3 85.1
RRT .0036 RRF -.0040 RTF -.7709
SGB 1162.1 R23 -.0007 R13 -.7709
SG1 1072.0 SG2 448.7 THA .10

ORBIT DETERMINATION ACCURACY
ST 561.4 SR 391.4 SS 526.2
CRT -.7855 CRS -.9005 CST .9753
LSA 837.5 MSA 208.8 SSA 16.3
EL1 651.8 EL2 208.6 ALF 147.57

LAUNCH DATE JUN 8 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 2 1967

HELIOCENTRIC CONIC DISTANCE 205.329

RL 151.84 LAL -.00 LOL 256.54 VL 24.277 GAL 2.41 AZL 93.40 HCA 84.24 SMA 114.54 ECC .32809 INC 3.3950 V1 29.341
RP 108.85 LAP -3.38 LOP 340.77 VP 35.776 GAP -18.95 AZP 90.34 TAL 175.06 TAP 259.29 RCA 76.96 APO 152.12 V2 34.815
RC 42.995 GL -15.47 GP -.02 ZAL 81.44 ZAP 4.86 ETS 179.76 ZAE 163.31 ETE 45.77 ZAC 99.46 ETC 14.47 CLP 4.86

PLANETOCENTRIC CONIC

C3 28.996 VHL 5.385 DLA -12.37 RAL 169.58 RAD 6568.2 VEL 12.263 PTH 2.21 VHP 11.540 DPA 8.77 RAP 168.10 ECC 1.4772

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 12 35	1911.04	-11.24	23.11	35.23	116.16	7 44 26	1311.0	-7.63	16.28
90.00	15 59 3	5343.57	27.64	243.48	41.92	83.57	17 28 7	4743.6	26.46	235.01
100.00	8 27 35	1669.07	-12.46	4.69	34.60	117.39	8 55 24	1069.1	-8.69	357.92
100.00	17 26 44	5060.78	28.99	222.49	41.73	82.38	18 51 5	4460.8	27.63	213.95
110.00	9 21 31	1500.15	-15.65	350.04	32.77	120.79	9 46 32	900.2	-11.45	343.45
110.00	18 49 18	4802.46	32.60	202.19	41.05	79.08	20 9 20	4202.5	30.75	193.46

DIFFERENTIAL CORRECTIONS
TDE .4850 TRA -.8893 TC3 .1805 BAU .0871
RDE -.3611 RRA -.1615 RC3 .1337 FAU .02408
FDE -.5040 FRA .4966 FC3 -.7189 BSP 3293
BDE .6047 BRA .9039 BC3 .2246 FSP -231

MID-COURSE EXECUTION ACCURACY
SGT 1114.7 SGR 446.4 SG3 93.8
RRT .0002 RRF -.0012 RTF -.7857
SGB 1200.8 R23 -.0010 R13 -.7857
SG1 1114.7 SG2 446.4 THA .01

ORBIT DETERMINATION ACCURACY
ST 592.3 SR 387.9 SS 559.1
CRT -.7963 CRS -.9075 CST .9756
LSA 878.2 MSA 205.8 SSA 16.6
EL1 677.6 EL2 205.1 ALF 149.35

LAUNCH DATE JUN 8 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 4 1967

HELIOCENTRIC CONIC DISTANCE 212.011

RL 151.84 LAL -.00 LOL 256.54 VL 24.541 GAL 2.15 AZL 93.39 HCA 87.40 SMA 115.83 ECC .31297 INC 3.3945 V1 29.341
RP 108.83 LAP -3.39 LOP 343.94 VP 35.962 GAP -17.92 AZP 90.15 TAL 175.27 TAP 262.68 RCA 79.58 APO 152.08 V2 34.822
RC 43.312 GL -16.47 GP -.03 ZAL 82.12 ZAP 3.16 ETS 179.49 ZAE 161.39 ETE 39.89 ZAC 98.04 ETC 14.32 CLP 3.16

PLANETOCENTRIC CONIC

C3 26.218 VHL 5.120 DLA -13.02 RAL 168.57 RAD 6568.1 VEL 12.149 PTH 2.18 VHP 10.951 DPA 8.19 RAP 169.46 ECC 1.4315

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 14 9	1863.59	-9.80	20.36	32.68	116.70	7 45 13	1263.6	-6.14	13.60
90.00	15 49 22	5340.89	27.62	243.29	39.29	83.48	17 18 23	4740.9	26.43	234.82
100.00	8 28 44	1622.96	-11.00	2.04	32.05	117.97	8 55 47	1023.0	-7.17	355.34
100.00	17 17 29	5056.75	28.96	222.20	39.10	82.23	18 41 45	4456.8	27.58	213.67
110.00	9 21 46	1456.88	-14.12	347.62	30.22	121.46	9 46 3	856.9	-9.86	341.11
110.00	18 40 56	4795.59	32.51	201.68	38.41	78.79	20 0 52	4195.6	30.62	192.97

DIFFERENTIAL CORRECTIONS
TDE .4908 TRA -.8620 TC3 .2384 BAU .0981
RDE -.3396 RRA -.1498 RC3 .1464 FAU .02553
FDE -.5393 FRA .4999 FC3 -.8429 BSP 3465
BDE .5969 BRA .8749 BC3 .2798 FSP -259

MID-COURSE EXECUTION ACCURACY
SGT 1158.2 SGR 443.3 SG3 103.6
RRT -.0034 RRF .0020 RTF -.7994
SGB 1240.1 R23 .0011 R13 .7994
SG1 1158.2 SG2 443.3 THA 179.91

ORBIT DETERMINATION ACCURACY
ST 624.5 SR 383.5 SS 594.3
CRT -.8073 CRS -.9146 CST .9760
LSA 921.4 MSA 202.3 SSA 16.9
EL1 704.9 EL2 200.5 ALF 151.06

LAUNCH DATE JUN 8 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 6 1967

HELIOCENTRIC CONIC DISTANCE 218.708

RL 151.84 LAL -.00 LOL 256.54 VL 24.784 GAL 1.89 AZL 93.39 HCA 90.57 SMA 117.06 ECC .29887 INC 3.3940 V1 29.341
RP 108.80 LAP -3.39 LOP 347.11 VP 36.136 GAP -16.93 AZP 89.97 TAL 175.54 TAP 266.12 RCA 82.07 APO 152.04 V2 34.830
RC 43.796 GL -17.50 GP -.03 ZAL 82.91 ZAP 1.43 ETS 178.77 ZAE 159.43 ETE 35.17 ZAC 96.65 ETC 14.19 CLP 1.43

PLANETOCENTRIC CONIC

C3 23.793 VHL 4.878 DLA -13.65 RAL 167.44 RAD 6568.0 VEL 12.049 PTH 2.15 VHP 10.385 DPA 7.63 RAP 170.80 ECC 1.3916

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 15 7	1818.02	-8.39	17.75	30.12	117.14	7 45 25	1218.0	-4.69	11.03
90.00	15 39 23	5338.67	27.60	243.13	36.62	83.40	17 8 22	4738.7	26.40	234.67
100.00	8 29 17	1578.73	-9.57	359.53	29.49	118.45	8 55 36	978.7	-5.70	352.88
100.00	17 7 55	5053.19	28.92	221.94	36.43	82.10	18 32 8	4453.2	27.53	213.41
110.00	9 21 25	1415.45	-12.64	345.32	27.67	122.03	9 45 0	815.5	-8.32	338.89
110.00	18 32 16	4789.23	32.42	201.20	35.73	78.52	19 52 5	4189.2	30.50	192.51

DIFFERENTIAL CORRECTIONS
TDE .4969 TRA -.8334 TC3 .3044 BAU .1093
RDE -.3193 RRA -.1388 RC3 .1594 FAU .02715
FDE -.5783 FRA .5021 FC3 -.9878 BSP 3622
BDE .5906 BRA .8449 BC3 .3436 FSP -291

MID-COURSE EXECUTION ACCURACY
SGT 1201.5 SGR 439.3 SG3 114.6
RRT -.0071 RRF .0054 RTF -.8122
SGB 1279.3 R23 .0013 R13 .8122
SG1 1201.5 SG2 439.3 THA 179.83

ORBIT DETERMINATION ACCURACY
ST 657.3 SR 378.4 SS 631.5
CRT -.8187 CRS -.9215 CST .9764
LSA 966.7 MSA 198.3 SSA 17.2
EL1 733.0 EL2 194.9 ALF 152.67

LAUNCH DATE JUN 8 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 8 1967

HELIOCENTRIC CONIC DISTANCE 225.416

RL 151.84 LAL -.00 LOL 256.54 VL 25.008 GAL 1.65 AZL 93.39 HCA 93.74 SMA 118.22 ECC .28577 INC 3.3935 V1 29.341
RP 108.78 LAP -3.39 LOP 350.29 VP 36.298 GAP -15.98 AZP 89.78 TAL 175.87 TAP 269.61 RCA 84.44 APO 152.00 V2 34.838
RC 44.440 GL -18.53 GP -.03 ZAL 83.80 ZAP .34 ETS 4.77 ZAE 157.51 ETE 31.35 ZAC 95.29 ETC 14.07 CLP -.34

PLANETOCENTRIC CONIC

C3 21.680 VHL 4.656 DLA -14.25 RAL 166.20 RAD 6567.9 VEL 11.961 PTH 2.13 VHP 9.841 DPA 7.07 RAP 172.09 ECC 1.3568

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 15 28	1774.58	-7.04	15.28	27.56	117.50	7 45 3	1174.6	-3.30	8.60
90.00	15 29 10	5336.89	27.59	243.00	33.92	83.34	16 58 7	4736.9	26.38	234.54
100.00	8 29 14	1536.61	-8.20	357.16	26.93	118.85	8 54 50	936.6	-4.29	350.56
100.00	16 58 6	5050.09	28.89	221.71	33.73	81.98	18 22 16	4450.1	27.48	213.19
110.00	9 20 29	1376.08	-11.21	343.17	25.12	122.51	9 43 25	776.1	-6.84	336.80
110.00	18 23 20	4783.39	32.34	200.76	33.03	78.27	19 43 4	4183.4	30.39	192.09

DIFFERENTIAL CORRECTIONS
TDE .5021 TRA -.8047 TC3 .3765 BAU .1200
RDE -.3001 RRA -.1283 RC3 .1722 FAU .02896
FDE -.6217 FRA .5031 FC3-1.1566 BSP 3741
BDE .5850 BRA .8148 BC3 .4141 FSP -326

MID-COURSE EXECUTION ACCURACY
SGT 1244.4 SGR 434.3 SG3 126.8
RRT -.0103 RRF .0091 RTF -.8231
SGB 1318.0 R23 .0006 R13 .8231
SG1 1244.4 SG2 434.3 THA 179.76

ORBIT DETERMINATION ACCURACY
ST 689.8 SR 372.6 SS 671.2
CRT -.8295 CRS -.9284 CST .9767
LSA 1013.4 MSA 194.4 SSA 17.5
EL1 761.0 EL2 188.6 ALF 154.16

```
LAUNCH DATE  JUN  8 1967                          FLIGHT TIME  94.00                          ARRIVAL DATE  SEP 10 1967

  HELIOCENTRIC CONIC                                  DISTANCE 232.130
   RL  151.84 LAL   -.00 LOL 256.54 VL  25.215 GAL   1.41 AZL  93.39 HCA  96.92 SMA 119.32 ECC .27361 INC 3.3930 V1  29.341
   RP  108.75 LAP  -3.37 LOP 353.47 VP  36.448 GAP -15.06 AZP  89.59 TAL 176.24 TAP 273.15 RCA  86.67 APO 151.97 V2  34.846
   RC  45.237 GL  -19.57 GP    -.03 ZAL  84.78 ZAP   2.15 ETS    .55 ZAE 155.66 ETE  28.21 ZAC  93.98 ETC  13.97 CLP  -2.15
  PLANETOCENTRIC CONIC
   C3  19.841 VHL  4.454 DLA -14.81 RAL 164.87 RAO 6567.8 VEL 11.884 PTH   2.11 VHP  9.319 DPA   6.52 RAP 173.35 ECC 1.3265
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     7 15 13   1733.51      -5.74      12.96      25.00      117.78    7 44  7     1133.5      -1.98       6.30
      90.00    15 18 48   5335.50      27.57     242.90      31.22       83.29   16 47 44     4735.5      26.36     234.44
     100.00     8 28 35   1496.83      -6.88     354.94      24.38      119.16    8 53 32      896.8      -2.95     348.36
     100.00    16 48  8   5047.41      28.87     221.52      31.02       81.88   18 12 15     4447.4      27.44     213.01
     110.00     9 18 59   1338.96      -9.84     341.16      22.58      122.90    9 41 18      739.0      -5.44     334.84
     110.00    18 14 13   4778.05      32.27     200.36      30.33       78.05   19 33 51     4178.0      30.28     191.71
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TOE  .5104 TRA -.7735 TC3  .4616 BAU  .1319     SGT 1288.2 SGR  428.5 SG3  140.5        ST   725.6 SR   366.0 SS   713.5
   ROE -.2822 RRA -.1184 RC3  .1848 FAU .03102     RRT -.0153 RRF  .0131 RTF -.8356        CRT -.8420 CRS -.9351 CST  .9776
   FOE -.6704 FRA  .5028 FC3-1.3535 BSP   3932     SGB 1357.6 R23  .0013 R13  .8356        LSA 1064.6 MSA  189.3 SSA   17.7
   BOE  .5832 BRA  .7825 BC3  .4972 FSP   -365     SG1 1288.2 SG2  428.5 THA 179.67        EL1  792.3 EL2  180.9 ALF 155.64

LAUNCH DATE  JUN  8 1967                          FLIGHT TIME  96.00                          ARRIVAL DATE  SEP 12 1967

  HELIOCENTRIC CONIC                                  DISTANCE 238.849
   RL  151.84 LAL   -.00 LOL 256.54 VL  25.404 GAL   1.19 AZL  93.39 HCA 100.09 SMA 120.36 ECC .26238 INC 3.3925 V1  29.341
   RP  108.72 LAP  -3.34 LOP 356.65 VP  36.588 GAP -14.19 AZP  89.40 TAL 176.66 TAP 276.75 RCA  88.78 APO 151.94 V2  34.856
   RC  46.178 GL  -20.60 GP    -.03 ZAL  85.85 ZAP   4.02 ETS    .12 ZAE 153.94 ETE  25.60 ZAC  92.71 ETC  13.87 CLP  -4.02
  PLANETOCENTRIC CONIC
   C3  18.244 VHL  4.271 DLA -15.33 RAL 163.45 RAO 6567.7 VEL 11.816 PTH   2.09 VHP  8.819 DPA   6.00 RAP 174.55 ECC 1.3003
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     7 14 23   1695.02      -4.51      10.80      22.47      117.98    7 42 38     1095.0      -.73       4.15
      90.00    15  8 22   5334.42      27.57     242.82      28.52       83.25   16 37 16     4734.4      26.34     234.37
     100.00     8 27 21   1459.60      -5.64     352.87      21.84      119.40    8 51 40      859.6      -1.68     346.32
     100.00    16 38  5   5045.08      28.85     221.35      28.33       81.80   18  2 10     4445.1      27.41     212.84
     110.00     9 16 56   1304.28      -8.55     339.30      20.06      123.22    9 38 40      704.3      -4.12     333.02
     110.00    18  4 59   4773.16      32.20     200.00      27.63       77.84   19 24 33     4173.2      30.19     191.36
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TOE  .5179 TRA -.7417 TC3  .5516 BAU  .1428     SGT 1330.1 SGR  421.8 SG3  155.9        ST   760.7 SR   358.8 SS   758.7
   ROE -.2653 RRA -.1091 RC3  .1966 FAU .03334     RRT -.0206 RRF  .0177 RTF -.8460        CRT -.8539 CRS -.9417 CST  .9783
   FOE -.7252 FRA  .5005 FC3-1.5821 BSP   4091     SGB 1395.4 R23  .0016 R13  .8460        LSA 1117.5 MSA  184.4 SSA   18.0
   BOE  .5819 BRA  .7497 BC3  .5856 FSP   -411     SG1 1330.1 SG2  421.7 THA 179.58        EL1  823.2 EL2  172.5 ALF 156.99

LAUNCH DATE  JUN  8 1967                          FLIGHT TIME  98.00                          ARRIVAL DATE  SEP 14 1967

  HELIOCENTRIC CONIC                                  DISTANCE 245.568
   RL  151.84 LAL   -.00 LOL 256.54 VL  25.578 GAL    .97 AZL  93.39 HCA 103.26 SMA 121.33 ECC .25202 INC 3.3920 V1  29.341
   RP  108.69 LAP  -3.30 LOP 359.83 VP  36.718 GAP -13.34 AZP  89.22 TAL 177.11 TAP 280.38 RCA  90.75 APO 151.91 V2  34.865
   RC  47.255 GL  -21.62 GP    -.04 ZAL  86.98 ZAP   5.94 ETS 359.91 ZAE 152.38 ETE  23.41 ZAC  91.50 ETC  13.79 CLP  -5.94
  PLANETOCENTRIC CONIC
   C3  16.860 VHL  4.106 DLA -15.82 RAL 161.97 RAO 6567.7 VEL 11.758 PTH   2.08 VHP  8.338 DPA   5.49 RAP 175.70 ECC 1.2775
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     7 12 57   1659.29      -3.37       8.79      19.96      118.13    7 40 37     1059.3       .42       2.16
      90.00    14 57 58   5333.55      27.56     242.76      25.84       83.22   16 26 51     4733.6      26.33     234.31
     100.00     8 25 33   1425.06      -4.49     350.96      19.34      119.58    8 49 18      825.1      -.51     344.42
     100.00    16 28  3   5043.01      28.83     221.20      25.65       81.72   17 52  6     4443.0      27.38     212.69
     110.00     9 14 22   1272.16      -7.35     337.59      17.57      123.48    9 35 34      672.2      -2.90     331.34
     110.00    17 55 44   4768.68      32.13     199.67      24.95       77.65   19 15 13     4168.7      30.10     191.04
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TOE  .5242 TRA -.7106 TC3  .6472 BAU  .1532     SGT 1371.0 SGR  414.2 SG3  173.3        ST   794.2 SR   351.0 SS   805.8
   ROE -.2496 RRA -.1004 RC3  .2076 FAU .03596     RRT -.0247 RRF  .0219 RTF -.8553        CRT -.8649 CRS -.9478 CST  .9789
   FOE -.7857 FRA  .4979 FC3-1.8464 BSP   4235     SGB 1432.2 R23  .0014 R13  .8553        LSA 1170.7 MSA  179.9 SSA   18.2
   BOE  .5805 BRA  .7177 BC3  .6797 FSP   -462     SG1 1371.0 SG2  414.0 THA 179.53        EL1  852.7 EL2  164.1 ALF 158.23

LAUNCH DATE  JUN  8 1967                          FLIGHT TIME 100.00                          ARRIVAL DATE  SEP 16 1967

  HELIOCENTRIC CONIC                                  DISTANCE 252.285
   RL  151.84 LAL   -.00 LOL 256.54 VL  25.737 GAL    .77 AZL  93.39 HCA 106.44 SMA 122.24 ECC .24249 INC 3.3915 V1  29.341
   RP  108.66 LAP  -3.25 LOP   3.01 VP  36.839 GAP -12.53 AZP  89.04 TAL 177.61 TAP 284.05 RCA  92.60 APO 151.89 V2  34.875
   RC  48.458 GL  -22.62 GP    -.04 ZAL  88.16 ZAP   7.93 ETS 359.78 ZAE 151.00 ETE  21.55 ZAC  90.35 ETC  13.71 CLP  -7.93
  PLANETOCENTRIC CONIC
   C3  15.663 VHL  3.958 DLA -16.25 RAL 160.44 RAO 6567.6 VEL 11.707 PTH   2.06 VHP  7.878 DPA   5.01 RAP 176.79 ECC 1.2578
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     7 10 59   1626.45      -2.31       6.96      17.49      118.23    7 38  6     1026.5      1.48        .33
      90.00    14 47 41   5332.79      27.55     242.70      23.21       83.19   16 16 34     4732.8      26.32     234.25
     100.00     8 23 14   1393.35      -3.42     349.21      16.88      119.71    8 46 27      793.4       .56     342.68
     100.00    16 18  8   5041.12      28.81     221.06      23.02       81.65   17 42  9     4441.1      27.35     212.56
     110.00     9 11 19   1242.72      -6.24     336.04      15.13      123.68    9 32  1      642.7      -1.78     329.80
     110.00    17 46 32   4764.52      32.07     199.36      22.32       77.48   19  5 57     4164.5      30.02     190.75
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TOE  .5323 TRA -.6769 TC3  .7495 BAU  .1634     SGT 1409.9 SGR  405.7 SG3  193.0        ST   829.5 SR   342.6 SS   857.8
   ROE -.2349 RRA -.0923 RC3  .2173 FAU .03895     RRT -.0314 RRF  .0279 RTF -.8644        CRT -.8768 CRS -.9540 CST  .9797
   FOE -.8561 FRA  .4911 FC3-2.1530 BSP   4396     SGB 1467.1 R23  .0017 R13  .8644        LSA 1229.0 MSA  175.0 SSA   18.3
   BOE  .5819 BRA  .6832 BC3  .7803 FSP   -522     SG1 1410.0 SG2  405.4 THA 179.44        EL1  884.1 EL2  154.6 ALF 159.44
```

LAUNCH DATE JUN 8 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 18 1967

HELIOCENTRIC CONIC DISTANCE 258.997

```
RL  151.84 LAL   -.00 LOL 256.54 VL  25.882 GAL    .57 AZL  93.39 HCA 109.62 SMA 123.09 ECC .23377 INC 3.3909 V1  29.341
RP  108.63 LAP  -3.19 LOP   6.19 VP  36.950 GAP -11.74 AZP  88.86 TAL 178.13 TAP 287.75 RCA  94.32 APO 151.87 V2  34.886
RC  49.776 GL  -23.59 GP    -.04 ZAL  89.39 ZAP  10.00 ETS 359.67 ZAE 149.83 ETE  19.97 ZAC  89.28 ETC  13.65 CLP -10.00
```

PLANETOCENTRIC CONIC

```
C3  14.629 VHL  3.825 DLA -16.65 RAL 158.87 RAD 6567.6 VEL 11.663 PTH   2.05 VHP  7.437 DPA   4.55 RAP 177.80 ECC 1.2408
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 8 31	1596.59	-1.35	5.29	15.08	118.29	7 35 7	996.6	2.44	358.66
90.00	14 37 39	5332.03	27.55	242.65	20.63	83.17	16 6 31	4732.0	26.31	234.20
100.00	8 20 26	1364.54	-2.45	347.62	14.47	119.80	8 43 10	764.5	1.54	341.10
100.00	16 8 25	5039.31	28.79	220.93	20.45	81.58	17 32 24	4439.3	27.32	212.43
110.00	9 7 51	1216.00	-5.23	334.63	12.74	123.83	9 28 7	616.0	-.75	328.41
110.00	17 37 30	4760.61	32.01	199.07	19.75	77.32	18 56 50	4160.6	29.94	190.47

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .5391 TRA -.6428 TC3  .8557 BAU  .1731    SGT 1445.9 SGR  396.3 SG3  215.0    ST   862.2 SR   333.7 SS   910.7
RDE -.2211 RRA -.0848 RC3  .2254 FAU .04231    RRT -.0374 RRF  .0331 RTF -.8732    CRT -.8878 CRS -.9595 CST  .9806
FDE -.9332 FRA  .4833 FC3-2.5042 BSP   4565   SGB 1499.3 R23  .0023 R13  .8731    LSA 1286.4 MSA  170.3 SSA   18.3
BDE  .5827 BRA  .6484 BC3  .8849 FSP   -590    SG1 1446.0 SG2  396.0 THA 179.36    EL1  913.1 EL2  145.0 ALF 160.53
```

LAUNCH DATE JUN 8 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 20 1967

HELIOCENTRIC CONIC DISTANCE 265.702

```
RL  151.84 LAL   -.00 LOL 256.54 VL  26.014 GAL    .39 AZL  93.39 HCA 112.80 SMA 123.88 ECC .22580 INC 3.3903 V1  29.341
RP  108.59 LAP  -3.13 LOP   9.38 VP  37.054 GAP -10.98 AZP  88.68 TAL 178.67 TAP 291.47 RCA  95.91 APO 151.86 V2  34.897
RC  51.201 GL  -24.52 GP    -.05 ZAL  90.63 ZAP  12.17 ETS 359.59 ZAE 148.87 ETE  18.61 ZAC  88.29 ETC  13.60 CLP -12.17
```

PLANETOCENTRIC CONIC

```
C3  13.739 VHL  3.707 DLA -16.99 RAL 157.29 RAD 6567.5 VEL 11.624 PTH   2.04 VHP  7.016 DPA   4.13 RAP 178.73 ECC 1.2261
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 5 36	1569.74	-.48	3.79	12.74	118.31	7 31 45	969.7	3.31	357.16
90.00	14 27 57	5331.18	27.54	242.59	18.14	83.14	15 56 48	4731.2	26.30	234.14
100.00	8 17 13	1338.65	-1.57	346.20	12.13	119.86	8 39 31	738.6	2.42	339.68
100.00	15 59 1	5037.50	28.77	220.80	17.95	81.52	17 22 58	4437.5	27.30	212.31
110.00	9 4 1	1192.01	-4.32	333.37	10.42	123.94	9 23 53	592.0	.16	327.15
110.00	17 28 42	4756.91	31.96	198.79	17.25	77.17	18 47 59	4156.9	29.86	190.21

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .5452 TRA -.6096 TC3  .9619 BAU  .1817    SGT 1479.7 SGR  386.0 SG3  240.3    ST   893.4 SR   324.2 SS   968.6
RDE -.2083 RRA -.0778 RC3  .2318 FAU .04619    RRT -.0438 RRF  .0390 RTF -.8804    CRT -.8980 CRS -.9646 CST  .9813
FDE-1.0222 FRA  .4730 FC3-2.9105 BSP   4676   SGB 1529.3 R23  .0023 R13  .8804    LSA 1346.6 MSA  166.5 SSA   18.3
BDE  .5836 BRA  .6145 BC3  .9894 FSP   -666    SG1 1479.9 SG2  385.6 THA 179.30    EL1  940.7 EL2  135.5 ALF 161.55
```

LAUNCH DATE JUN 8 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 22 1967

HELIOCENTRIC CONIC DISTANCE 272.398

```
RL  151.84 LAL   -.00 LOL 256.54 VL  26.135 GAL    .22 AZL  93.39 HCA 115.98 SMA 124.61 ECC .21855 INC 3.3898 V1  29.341
RP  108.56 LAP  -3.05 LOP  12.56 VP  37.149 GAP -10.25 AZP  88.51 TAL 179.22 TAP 295.21 RCA  97.38 APO 151.85 V2  34.908
RC  52.722 GL  -25.41 GP    -.05 ZAL  91.88 ZAP  14.43 ETS 359.51 ZAE 148.15 ETE  17.44 ZAC  87.40 ETC  13.55 CLP -14.43
```

PLANETOCENTRIC CONIC

```
C3  12.973 VHL  3.602 DLA -17.30 RAL 155.71 RAD 6567.5 VEL 11.591 PTH   2.03 VHP  6.613 DPA   3.75 RAP 179.57 ECC 1.2135
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 2 18	1545.86	.29	2.46	10.48	118.32	7 28 4	945.9	4.07	355.83
90.00	14 18 40	5330.17	27.53	242.52	15.73	83.10	15 47 30	4730.2	26.29	234.07
100.00	8 13 39	1315.62	-.79	344.94	9.88	119.88	8 35 35	715.6	3.19	338.42
100.00	15 50 0	5035.64	28.75	220.66	15.55	81.45	17 13 56	4435.6	27.27	212.17
110.00	8 59 55	1170.67	-3.51	332.25	8.18	124.02	9 19 26	570.7	.98	326.04
110.00	17 20 13	4753.35	31.90	198.53	14.85	77.02	18 39 27	4153.4	29.79	189.96

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .5455 TRA -.5787 TC3 1.0551 BAU  .1875    SGT 1503.5 SGR  374.8 SG3  267.9    ST   915.0 SR   314.2 SS  1024.4
RDE -.1962 RRA -.0713 RC3  .2363 FAU .05036    RRT -.0479 RRF  .0433 RTF -.8854    CRT -.9059 CRS -.9689 CST  .9816
FDE-1.1167 FRA  .4646 FC3-3.3607 BSP   4710   SGB 1549.5 R23  .0019 R13  .8854    LSA 1399.3 MSA  163.9 SSA   18.2
BDE  .5797 BRA  .5831 BC3 1.0813 FSP   -746    SG1 1503.6 SG2  374.4 THA 179.27    EL1  959.1 EL2  126.9 ALF 162.40
```

LAUNCH DATE JUN 8 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 24 1967

HELIOCENTRIC CONIC DISTANCE 279.082

```
RL  151.84 LAL   -.00 LOL 256.54 VL  26.244 GAL    .06 AZL  93.39 HCA 119.17 SMA 125.29 ECC .21198 INC 3.3891 V1  29.341
RP  108.52 LAP  -2.96 LOP  15.75 VP  37.237 GAP  -9.55 AZP  88.35 TAL 179.78 TAP 298.95 RCA  98.73 APO 151.85 V2  34.920
RC  54.330 GL  -26.24 GP    -.06 ZAL  93.11 ZAP  16.81 ETS 359.46 ZAE 147.68 ETE  16.44 ZAC  86.62 ETC  13.52 CLP -16.81
```

PLANETOCENTRIC CONIC

```
C3  12.317 VHL  3.510 DLA -17.56 RAL 154.16 RAD 6567.5 VEL 11.563 PTH   2.02 VHP  6.229 DPA   3.42 RAP 180.30 ECC 1.2027
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 58 44	1524.81	.97	1.29	8.33	118.30	7 24 9	924.8	4.74	354.64
90.00	14 9 53	5329.01	27.52	242.43	13.44	83.06	15 38 42	4729.0	26.27	233.99
100.00	8 9 51	1295.34	-.10	343.83	7.73	119.89	8 31 27	695.3	3.88	337.30
100.00	15 41 27	5033.71	28.73	220.52	13.26	81.38	17 5 21	4433.7	27.24	212.04
110.00	8 55 39	1151.87	-2.79	331.26	6.05	124.08	9 14 50	551.9	1.70	325.06
110.00	17 12 9	4749.94	31.85	198.28	12.56	76.88	18 31 19	4149.9	29.72	189.72

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .5301 TRA -.5596 TC3 1.1229 BAU  .1890    SGT 1512.7 SGR  362.5 SG3  297.4    ST   912.2 SR   303.3 SS  1065.6
RDE -.1846 RRA -.0651 RC3  .2391 FAU .05495    RRT -.0396 RRF  .0380 RTF -.8843    CRT -.9076 CRS -.9715 CST  .9802
FDE-1.2028 FRA  .4686 FC3-3.8624 BSP   4430   SGB 1555.5 R23 -.0008 R13  .8844    LSA 1425.4 MSA  165.6 SSA   18.1
BDE  .5613 BRA  .5634 BC3 1.1481 FSP   -806    SG1 1512.8 SG2  362.2 THA 179.42    EL1  953.5 EL2  121.8 ALF 162.92
```

LAUNCH DATE JUN 8 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 26 1967

HELIOCENTRIC CONIC DISTANCE 285.754

RL	151.84	LAL	-.00	LOL	256.54	VL	26.343	GAL	-.09	AZL	93.39	HCA	122.35	SMA	125.90	ECC	.20604	INC	3.3884	V1	29.341
RP	108.48	LAP	-2.86	LOP	18.94	VP	37.318	GAP	-8.87	AZP	88.18	TAL	180.34	TAP	302.70	RCA	99.96	APO	151.85	V2	34.932
RC	56.016	GL	-27.01	GP	-.06	ZAL	94.32	ZAP	19.32	ETS	359.41	ZAE	147.47	ETE	15.60	ZAC	85.97	ETC	13.49	CLP	-19.32

PLANETOCENTRIC CONIC

C3	11.754	VHL	3.428	DLA	-17.78	RAL	152.65	RAD	6567.4	VEL	11.539	PTH	2.01	VHP	5.863	DPA	3.14	RAP	180.91	ECC	1.1934

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 54 56	1506.57	1.56	.27	6.28	118.28	7 20 2	906.6	5.33	353.62
90.00	14 1 39	5327.55	27.51	242.33	11.27	83.01	15 30 26	4727.6	26.26	233.88
100.00	8 5 50	1277.75	.50	342.86	5.69	119.89	8 27 8	677.7	4.47	336.33
100.00	15 33 25	5031.60	28.71	220.37	11.08	81.30	16 57 17	4431.6	27.21	211.89
110.00	8 51 13	1135.55	-2.17	330.41	4.02	124.12	9 10 9	535.6	2.32	324.21
110.00	17 4 32	4746.56	31.80	198.03	10.39	76.74	18 23 38	4146.6	29.65	189.48

DIFFERENTIAL CORRECTIONS

TDE	.5585	TRA	-.5068	TC3	1.2608	BAU	.2016	SGT	1552.3	SGR	350.2	SG3	338.5	ST	971.0	SR	293.0	SS	1166.7
RDE	-.1743	RRA	-.0599	RC3	.2387	FAU	.06122	RRT	-.0678	RRF	.0607	RTF	-.8991	CRT	-.9254	CRS	-.9776	CST	.9834
FDE	-1.3706	FRA	.4213	FC3	-4.5092	BSP	5113	SGB	1591.3	R23	.0034	R13	.8990	LSA	1537.8	MSA	157.0	SSA	17.6
BDE	.5850	BRA	.5104	BC3	1.2832	FSP	-989	SG1	1552.5	SG2	349.3	THA	179.08	EL1	1008.6	EL2	106.9	ALF	164.22

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE JUN 8 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 28 1967

HELIOCENTRIC CONIC DISTANCE 292.412

RL	151.84	LAL	-.00	LOL	256.54	VL	26.432	GAL	-.22	AZL	93.39	HCA	125.54	SMA	126.47	ECC	.20071	INC	3.3877	V1	29.341
RP	108.45	LAP	-2.76	LOP	22.13	VP	37.392	GAP	-8.21	AZP	88.03	TAL	180.89	TAP	306.43	RCA	101.08	APO	151.85	V2	34.945
RC	57.772	GL	-27.72	GP	-.07	ZAL	95.47	ZAP	21.99	ETS	359.37	ZAE	147.54	ETE	14.89	ZAC	85.46	ETC	13.47	CLP	-21.99

PLANETOCENTRIC CONIC

C3	11.274	VHL	3.358	DLA	-17.96	RAL	151.21	RAD	6567.4	VEL	11.518	PTH	2.01	VHP	5.516	DPA	2.91	RAP	181.39	ECC	1.1855

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 51 3	1490.79	2.07	359.39	4.36	118.25	7 15 53	890.8	5.83	352.73
90.00	13 54 1	5325.97	27.50	242.21	9.24	82.95	15 22 47	4726.0	26.23	233.77
100.00	8 1 47	1262.53	1.01	342.03	3.77	119.88	8 22 49	662.5	4.98	335.49
100.00	15 25 58	5029.46	28.69	220.21	9.05	81.22	16 49 47	4429.5	27.18	211.74
110.00	8 46 49	1121.42	-1.63	329.67	2.12	124.15	9 5 31	521.4	2.86	323.47
110.00	16 57 25	4743.34	31.75	197.79	8.35	76.61	18 16 28	4143.3	29.58	189.25

DIFFERENTIAL CORRECTIONS

TDE	.5520	TRA	-.4753	TC3	1.3353	BAU	.2044	SGT	1555.1	SGR	336.5	SG3	379.7	ST	976.4	SR	281.4	SS	1232.4
RDE	-.1640	RRA	-.0548	RC3	.2368	FAU	.06765	RRT	-.0708	RRF	.0644	RTF	-.9019	CRT	-.9313	CRS	-.9807	CST	.9834
FDE	-1.5089	FRA	.3985	FC3	-5.1945	BSP	5041	SGB	1591.0	R23	.0025	R13	.9019	LSA	1589.5	MSA	156.0	SSA	17.1
BDE	.5758	BRA	.4785	BC3	1.3561	FSP	-1100	SG1	1555.2	SG2	335.6	THA	179.08	EL1	1011.3	EL2	99.0	ALF	164.83

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE JUN 8 1967 FLIGHT TIME 114.00 ARRIVAL DATE SEP 30 1967

HELIOCENTRIC CONIC DISTANCE 299.054

RL	151.84	LAL	-.00	LOL	256.54	VL	26.511	GAL	-.35	AZL	93.39	HCA	128.73	SMA	126.98	ECC	.19593	INC	3.3869	V1	29.341
RP	108.41	LAP	-2.64	LOP	25.32	VP	37.460	GAP	-7.57	AZP	87.88	TAL	181.42	TAP	310.15	RCA	102.10	APO	151.86	V2	34.957
RC	59.590	GL	-28.37	GP	-.08	ZAL	96.57	ZAP	24.82	ETS	359.35	ZAE	147.88	ETE	14.32	ZAC	85.11	ETC	13.46	CLP	-24.82

PLANETOCENTRIC CONIC

C3	10.865	VHL	3.296	DLA	-18.11	RAL	149.85	RAD	6567.4	VEL	11.500	PTH	2.00	VHP	5.188	DPA	2.76	RAP	181.72	ECC	1.1788

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 47 10	1477.26	2.50	358.64	2.57	118.22	7 11 47	877.3	6.25	351.97
90.00	13 47 1	5324.28	27.48	242.09	7.35	82.89	15 15 45	4724.3	26.21	233.65
100.00	7 57 46	1249.47	1.46	341.31	1.99	119.86	8 18 35	649.5	5.42	334.77
100.00	15 19 6	5027.30	28.67	220.06	7.16	81.14	16 42 54	4427.3	27.14	211.59
110.00	8 42 30	1109.27	-1.17	329.04	.35	124.17	9 1 0	509.3	3.32	322.83
110.00	16 50 51	4740.27	31.70	197.57	6.47	76.48	18 9 51	4140.3	29.52	189.04

DIFFERENTIAL CORRECTIONS

TDE	.5442	TRA	-.4474	TC3	1.3868	BAU	.2043	SGT	1549.3	SGR	322.1	SG3	426.2	ST	977.7	SR	269.2	SS	1305.4
RDE	-.1541	RRA	-.0501	RC3	.2330	FAU	.07479	RRT	-.0758	RRF	.0697	RTF	-.9029	CRT	-.9362	CRS	-.9834	CST	.9832
FDE	-1.6700	FRA	.3758	FC3	-5.9592	BSP	5012	SGB	1582.4	R23	.0018	R13	.9029	LSA	1645.6	MSA	156.1	SSA	16.6
BDE	.5656	BRA	.4502	BC3	1.4062	FSP	-1249	SG1	1549.5	SG2	321.1	THA	179.06	EL1	1009.9	EL2	91.6	ALF	165.42

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE JUN 8 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 2 1967

HELIOCENTRIC CONIC DISTANCE 305.680

RL	151.84	LAL	-.00	LOL	256.54	VL	26.583	GAL	-.46	AZL	93.39	HCA	131.93	SMA	127.44	ECC	.19168	INC	3.3861	V1	29.341
RP	108.37	LAP	-2.52	LOP	28.52	VP	37.523	GAP	-6.96	AZP	87.74	TAL	181.92	TAP	313.85	RCA	103.01	APO	151.87	V2	34.970
RC	61.464	GL	-28.96	GP	-.09	ZAL	97.59	ZAP	27.83	ETS	359.33	ZAE	148.52	ETE	13.88	ZAC	84.95	ETC	13.45	CLP	-27.83

PLANETOCENTRIC CONIC

C3	10.516	VHL	3.243	DLA	-18.24	RAL	148.58	RAD	6567.4	VEL	11.485	PTH	2.00	VHP	4.877	DPA	2.67	RAP	181.88	ECC	1.1731

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 43 24	1465.71	2.87	357.99	.93	118.18	7 7 50	865.7	6.62	351.31
90.00	13 40 38	5322.56	27.47	241.97	5.62	82.83	15 9 21	4722.6	26.19	233.53
100.00	7 53 52	1238.32	1.83	340.70	.36	119.84	8 14 30	638.3	5.79	334.15
100.00	15 12 51	5025.18	28.64	219.90	5.43	81.06	16 36 37	4425.2	27.11	211.44
110.00	8 38 22	1098.88	-.77	328.50	358.73	124.18	8 56 41	498.9	3.72	322.29
110.00	16 44 51	4737.39	31.65	197.35	4.74	76.36	18 3 48	4137.4	29.45	188.84

DIFFERENTIAL CORRECTIONS

TDE	.5336	TRA	-.4212	TC3	1.4173	BAU	.2018	SGT	1532.2	SGR	306.9	SG3	478.6	ST	972.0	SR	256.6	SS	1383.5
RDE	-.1445	RRA	-.0458	RC3	.2274	FAU	.08277	RRT	-.0813	RRF	.0752	RTF	-.9030	CRT	-.9403	CRS	-.9856	CST	.9830
FDE	-1.8532	FRA	.3531	FC3	-6.8138	BSP	4932	SGB	1562.6	R23	.0013	R13	.9030	LSA	1702.9	MSA	156.4	SSA	15.9
BDE	.5528	BRA	.4237	BC3	1.4354	FSP	-1411	SG1	1532.4	SG2	305.8	THA	179.03	EL1	1001.7	EL2	84.7	ALF	165.96

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE JUN 8 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 4 1967

HELIOCENTRIC CONIC DISTANCE 312.287

RL 151.84 LAL -.00 LOL 256.54 VL 26.646 GAL -.55 AZL 93.39 HCA 135.12 SMA 127.85 ECC .18791 INC 3.3851 VI 29.341
RP 108.33 LAP -2.39 LOP 31.71 VP 37.580 GAP -6.36 AZP 87.60 TAL 182.39 TAP 317.51 RCA 103.83 APO 151.88 V2 34.983
RC 63.388 GL -29.48 GP -.10 ZAL 98.53 ZAP 31.06 ETS 359.33 ZAE 149.47 ETE 13.58 ZAC 84.98 ETC 13.46 CLP -31.06

PLANETOCENTRIC CONIC

C3 10.220 VHL 3.197 DLA -18.34 RAL 147.41 RAD 6567.4 VEL 11.472 PTH 1.99 VHP 4.586 DPA 2.68 RAP 181.85 ECC 1.1682

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 39 50	1455.84	3.19	357.44	359.45	118.15	7 4 6	855.8	6.93	350.76
90.00	13 34 54	5320.90	27.45	241.85	4.06	82.77	15 3 35	4720.9	26.17	233.42
100.00	7 50 12	1228.78	2.16	340.17	358.87	119.82	8 10 41	628.8	6.11	333.62
100.00	15 7 13	5023.19	28.62	219.76	3.87	80.99	16 30 56	4423.2	27.08	211.30
110.00	8 34 30	1089.98	-.43	328.03	357.26	124.18	8 52 40	490.0	4.06	321.82
110.00	16 39 24	4734.76	31.61	197.16	3.17	76.26	17 58 19	4134.8	29.40	188.65

DIFFERENTIAL CORRECTIONS
TDE .5215 TRA -.3923 TC3 1.4351 BAU .1984
RDE -.1351 RRA -.0419 RC3 .2200 FAU .09208
FDE-2.0653 FRA .3161 FC3-7.7999 BSP 4887
BDE .5387 BRA .3945 BC3 1.4518 FSP -1609

MID-COURSE EXECUTION ACCURACY
SGT 1504.7 SGR 291.0 SG3 539.1
RRT -.0885 RRF .0815 RTF -.9030
SGB 1532.6 R23 .0015 R13 .9030
SGI 1504.9 SG2 289.9 THA 178.98

ORBIT DETERMINATION ACCURACY
ST 961.1 SR 243.4 SS 1469.7
CRT -.9447 CRS -.9877 CST .9829
LSA 1765.9 MSA 156.2 SSA 15.1
EL1 988.4 EL2 77.6 ALF 166.46

LAUNCH DATE JUN 8 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 6 1967

HELIOCENTRIC CONIC DISTANCE 318.877

RL 151.84 LAL -.00 LOL 256.54 VL 26.702 GAL -.64 AZL 93.38 HCA 138.32 SMA 128.22 ECC .18459 INC 3.3840 VI 29.341
RP 108.29 LAP -2.25 LOP 34.91 VP 37.632 GAP -5.78 AZP 87.47 TAL 182.82 TAP 321.14 RCA 104.55 APO 151.89 V2 34.996
RC 65.357 GL -29.95 GP -.12 ZAL 99.37 ZAP 34.51 ETS 359.35 ZAE 150.75 ETE 13.44 ZAC 85.23 ETC 13.47 CLP -34.51

PLANETOCENTRIC CONIC

C3 9.968 VHL 3.157 DLA -18.43 RAL 146.36 RAD 6567.4 VEL 11.461 PTH 1.99 VHP 4.315 DPA 2.77 RAP 181.60 ECC 1.1640

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 36 35	1447.31	3.46	356.96	358.12	118.12	7 0 42	847.3	7.20	350.27
90.00	13 29 46	5319.45	27.44	241.74	2.66	82.72	14 58 25	4719.4	26.15	233.32
100.00	7 46 51	1220.55	2.44	339.72	357.55	119.80	8 7 12	620.5	6.38	333.16
100.00	15 2 10	5021.45	28.60	219.63	2.47	80.92	16 25 52	4421.4	27.05	211.17
110.00	8 30 59	1082.29	-.13	327.63	355.94	124.18	8 49 1	482.3	4.35	321.42
110.00	16 34 32	4732.46	31.57	196.99	1.77	76.16	17 53 25	4132.5	29.35	188.49

DIFFERENTIAL CORRECTIONS
TDE .5012 TRA -.3677 TC3 1.4137 BAU .1905
RDE -.1259 RRA -.0382 RC3 .2111 FAU .10218
FDE-2.2955 FRA .2818 FC3-8.8744 BSP 4760
BDE .5168 BRA .3697 BC3 1.4293 FSP -1828

MID-COURSE EXECUTION ACCURACY
SGT 1455.6 SGR 274.4 SG3 605.1
RRT -.0936 RRF .0860 RTF -.8996
SGB 1481.3 R23 .0013 R13 .8996
SGI 1455.9 SG2 273.2 THA 178.95

ORBIT DETERMINATION ACCURACY
ST 934.2 SR 229.6 SS 1555.4
CRT -.9471 CRS -.9893 CST .9821
LSA 1822.0 MSA 156.8 SSA 14.3
EL1 959.3 EL2 71.8 ALF 166.82

LAUNCH DATE JUN 8 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 8 1967

HELIOCENTRIC CONIC DISTANCE 325.448

RL 151.84 LAL -.00 LOL 256.54 VL 26.750 GAL -.71 AZL 93.38 HCA 141.52 SMA 128.54 ECC .18169 INC 3.3828 VI 29.341
RP 108.25 LAP -2.10 LOP 38.11 VP 37.678 GAP -5.22 AZP 87.35 TAL 183.20 TAP 324.72 RCA 105.19 APO 151.90 V2 35.009
RC 67.365 GL -30.36 GP -.13 ZAL 100.11 ZAP 38.22 ETS 359.38 ZAE 152.37 ETE 13.48 ZAC 85.72 ETC 13.49 CLP -38.22

PLANETOCENTRIC CONIC

C3 9.754 VHL 3.123 DLA -18.51 RAL 145.43 RAD 6567.4 VEL 11.452 PTH 1.99 VHP 4.063 DPA 2.96 RAP 181.14 ECC 1.1605

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 33 43	1439.84	3.70	356.54	356.95	118.09	6 57 43	839.8	7.43	349.85
90.00	13 25 13	5318.30	27.43	241.66	1.43	82.68	14 53 51	4718.3	26.13	233.24
100.00	7 43 54	1213.33	2.68	339.33	356.38	119.78	8 4 8	613.3	6.62	332.76
100.00	14 57 43	5020.04	28.59	219.53	1.24	80.87	16 21 23	4420.0	27.03	211.08
110.00	8 27 52	1075.58	.12	327.28	354.79	124.18	8 45 48	475.6	4.61	321.07
110.00	16 30 14	4730.56	31.54	196.85	.55	76.09	17 49 5	4130.6	29.31	188.36

DIFFERENTIAL CORRECTIONS
TDE .4747 TRA -.3463 TC3 1.3650 BAU .1799
RDE -.1167 RRA -.0348 RC3 .2009 FAU .11369
FDE-2.5529 FRA .2466 FC-10.0906 BSP 4508
BDE .4888 BRA .3480 BC3 1.3797 FSP -2060

MID-COURSE EXECUTION ACCURACY
SGT 1390.8 SGR 257.2 SG3 679.7
RRT -.0963 RRF .0890 RTF -.8932
SGB 1414.3 R23 .0000 R13 .8932
SGI 1391.0 SG2 255.9 THA 178.94

ORBIT DETERMINATION ACCURACY
ST 894.1 SR 215.1 SS 1646.1
CRT -.9480 CRS -.9906 CST .9808
LSA 1878.9 MSA 157.9 SSA 13.4
EL1 917.2 EL2 66.8 ALF 167.08

LAUNCH DATE JUN 8 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 10 1967

HELIOCENTRIC CONIC DISTANCE 332.000

RL 151.84 LAL -.00 LOL 256.54 VL 26.793 GAL -.77 AZL 93.38 HCA 144.73 SMA 128.83 ECC .17917 INC 3.3814 VI 29.341
RP 108.20 LAP -1.95 LOP 41.31 VP 37.721 GAP -4.68 AZP 87.24 TAL 183.52 TAP 328.25 RCA 105.74 APO 151.91 V2 35.023
RC 69.409 GL -30.71 GP -.15 ZAL 100.74 ZAP 42.20 ETS 359.42 ZAE 154.33 ETE 13.75 ZAC 86.48 ETC 13.52 CLP -42.20

PLANETOCENTRIC CONIC

C3 9.572 VHL 3.094 DLA -18.59 RAL 144.63 RAD 6567.3 VEL 11.444 PTH 1.99 VHP 3.831 DPA 3.26 RAP 180.42 ECC 1.1575

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 31 19	1433.13	3.92	356.17	355.95	118.07	6 55 12	833.1	7.64	349.47
90.00	13 21 14	5317.60	27.43	241.61	.38	82.66	14 49 51	4717.6	26.12	233.19
100.00	7 41 26	1206.87	2.90	338.97	355.38	119.76	8 1 33	606.9	6.84	332.40
100.00	14 53 48	5019.09	28.58	219.46	.19	80.84	16 17 27	4419.1	27.02	211.01
110.00	8 25 15	1069.59	.35	326.97	353.79	124.18	8 43 5	469.6	4.83	320.75
110.00	16 26 28	4729.13	31.52	196.75	359.49	76.03	17 45 17	4129.1	29.28	188.26

DIFFERENTIAL CORRECTIONS
TDE .4397 TRA -.3278 TC3 1.2651 BAU .1637
RDE -.1076 RRA -.0315 RC3 .1895 FAU .12573
FDE-2.8303 FRA .2104 FC-11.3716 BSP 4199
BDE .4526 BRA .3293 BC3 1.2792 FSP -2321

MID-COURSE EXECUTION ACCURACY
SGT 1298.5 SGR 239.3 SG3 758.9
RRT -.0995 RRF .0921 RTF -.8802
SGB 1320.3 R23 -.0015 R13 .8802
SGI 1298.7 SG2 238.0 THA 178.91

ORBIT DETERMINATION ACCURACY
ST 837.0 SR 200.1 SS 1736.9
CRT -.9469 CRS -.9916 CST .9784
LSA 1931.8 MSA 159.4 SSA 12.5
EL1 858.3 EL2 62.8 ALF 167.17

LAUNCH DATE JUN 8 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 12 1967

DISTANCE 338.532

HELIOCENTRIC CONIC
RL 151.84 LAL -.00 LOL 256.54 VL 26.829 GAL -.82 AZL 93.38 HCA 147.93 SMA 129.07 ECC .17701 INC 3.3798 V1 29.341
RP 108.16 LAP -1.79 LOP 44.52 VP 37.759 GAP -4.15 AZP 87.13 TAL 183.80 TAP 331.73 RCA 106.22 APO 151.92 V2 35.036
RC 71.485 GL -31.02 GP -.18 ZAL 101.26 ZAP 46.46 ETS 359.48 ZAE 156.65 ETE 14.31 ZAC 87.51 ETC 13.56 CLP -46.46

PLANETOCENTRIC CONIC
C3 9.417 VHL 3.069 DLA -18.66 RAL 143.96 RAD 6567.3 VEL 11.437 PTH 1.98 VHP 3.621 DPA 3.67 RAP 179.45 ECC 1.1350

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 29 27	1426.92	4.12	355.82	355.11	118.04	6 53 14	826.9	7.84	349.11
90.00	13 17 46	5317.41	27.42	241.60	359.49	82.65	14 46 23	4717.4	26.12	233.17
100.00	7 39 30	1200.92	3.10	338.64	354.54	119.75	7 59 31	600.9	7.04	332.07
100.00	14 50 24	5018.65	28.57	219.43	359.31	80.82	16 14 3	4418.7	27.01	210.98
110.00	8 23 9	1064.11	.56	326.69	352.96	124.18	8 40 54	464.1	5.04	320.47
110.00	16 23 14	4728.22	31.50	196.68	358.61	75.99	17 42 2	4128.2	29.26	188.19

DIFFERENTIAL CORRECTIONS
TDE .3996 TRA -.3104 TC3 1.1355 BAU .1447
RDE -.0985 RRA -.0285 RC3 .1767 FAU .13928
FDE-3.1427 FRA .1681 FC-12.8042 BSP 3832
BDE .4115 BRA .3117 BC3 1.1492 FSP -2615

MID-COURSE EXECUTION ACCURACY
SGT 1190.2 SGR 220.8 SG3 847.8
RRT -.1036 RRF .0961 RTF -.8611
SGB 1210.5 R23 -.0038 R13 .8611
SG1 1190.4 SG2 219.6 THA 178.86

ORBIT DETERMINATION ACCURACY
ST 768.5 SR 184.7 SS 1837.5
CRT -.9442 CRS -.9925 CST .9749
LSA 1993.8 MSA 160.4 SSA 11.5
EL1 788.2 EL2 59.3 ALF 167.14

LAUNCH DATE JUN 8 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 14 1967

DISTANCE 345.045

HELIOCENTRIC CONIC
RL 151.84 LAL -.00 LOL 256.54 VL 26.860 GAL -.85 AZL 93.38 HCA 151.14 SMA 129.28 ECC .17518 INC 3.3777 V1 29.341
RP 108.12 LAP -1.63 LOP 47.72 VP 37.793 GAP -3.63 AZP 87.04 TAL 184.01 TAP 335.15 RCA 106.63 APO 151.92 V2 35.049
RC 73.590 GL -31.29 GP -.20 ZAL 101.66 ZAP 51.02 ETS 359.56 ZAE 159.32 ETE 15.29 ZAC 88.82 ETC 13.63 CLP -51.02

PLANETOCENTRIC CONIC
C3 9.285 VHL 3.047 DLA -18.75 RAL 143.43 RAD 6567.3 VEL 11.431 PTH 1.98 VHP 3.433 DPA 4.20 RAP 178.20 ECC 1.1528

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 28 11	1420.97	4.31	355.48	354.43	118.01	6 51 52	821.0	8.02	348.78
90.00	13 14 47	5317.86	27.43	241.63	358.78	82.67	14 43 25	4717.9	26.13	233.20
100.00	7 38 9	1195.23	3.29	338.33	353.87	119.73	7 58 4	595.2	7.22	331.75
100.00	14 47 31	5018.84	28.58	219.45	358.59	80.83	16 11 10	4418.8	27.01	210.99
110.00	8 21 38	1058.93	.76	326.42	352.29	124.18	8 39 17	458.9	5.24	320.19
110.00	16 20 30	4727.90	31.50	196.66	357.90	75.98	17 39 18	4127.9	29.25	188.17

DIFFERENTIAL CORRECTIONS
TDE .3480 TRA -.2981 TC3 .9506 BAU .1197
RDE -.0895 RRA -.0256 RC3 .1627 FAU .15317
FDE-3.4633 FRA .1358 FC-14.2818 BSP 3323
BDE .3593 BRA .2992 BC3 .9644 FSP -2913

MID-COURSE EXECUTION ACCURACY
SGT 1055.5 SGR 201.8 SG3 939.5
RRT -.1058 RRF .0999 RTF -.8245
SGB 1074.6 R23 -.0094 R13 .8245
SG1 1055.7 SG2 200.6 THA 178.80

ORBIT DETERMINATION ACCURACY
ST 678.3 SR 169.0 SS 1933.3
CRT -.9366 CRS -.9930 CST .9682
LSA 2049.4 MSA 162.0 SSA 10.5
EL1 696.6 EL2 57.7 ALF 166.77

LAUNCH DATE JUN 8 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 16 1967

DISTANCE 351.537

HELIOCENTRIC CONIC
RL 151.84 LAL -.00 LOL 256.54 VL 26.885 GAL -.87 AZL 93.38 HCA 154.35 SMA 129.45 ECC .17365 INC 3.3753 V1 29.341
RP 108.08 LAP -1.46 LOP 50.93 VP 37.823 GAP -3.13 AZP 86.96 TAL 184.16 TAP 338.51 RCA 106.97 APO 151.93 V2 35.062
RC 75.721 GL -31.51 GP -.24 ZAL 101.94 ZAP 55.86 ETS 359.65 ZAE 162.34 ETE 16.92 ZAC 90.42 ETC 13.71 CLP -55.86

PLANETOCENTRIC CONIC
C3 9.172 VHL 3.029 DLA -18.83 RAL 143.03 RAD 6567.3 VEL 11.426 PTH 1.98 VHP 3.268 DPA 4.53 RAP 176.69 ECC 1.1510

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 27 33	1415.08	4.50	355.15	353.91	117.99	6 51 8	815.1	8.21	348.44
90.00	13 12 16	5319.01	27.44	241.71	358.24	82.71	14 40 55	4719.0	26.14	233.28
100.00	7 37 24	1189.63	3.48	338.02	353.35	119.71	7 57 14	589.6	7.41	331.44
100.00	14 45 5	5019.68	28.58	219.51	358.05	80.86	16 8 45	4419.7	27.03	211.05
110.00	8 20 44	1053.90	.95	326.15	351.77	124.17	8 38 18	453.9	5.43	319.93
110.00	16 18 15	4728.19	31.50	196.68	357.36	75.99	17 37 4	4128.2	29.26	188.19

DIFFERENTIAL CORRECTIONS
TDE .2878 TRA -.2873 TC3 .7206 BAU .0902
RDE -.0806 RRA -.0229 RC3 .1468 FAU .16766
FDE-3.8000 FRA .1001 FC-15.8250 BSP 2750
BDE .2988 BRA .2882 BC3 .7354 FSP -3243

MID-COURSE EXECUTION ACCURACY
SGT 903.7 SGR 182.4 SG3 1035.4
RRT -.1088 RRF .1076 RTF -.7583
SGB 921.9 R23 -.0217 R13 .7585
SG1 903.9 SG2 181.2 THA 178.69

ORBIT DETERMINATION ACCURACY
ST 571.2 SR 153.2 SS 2031.8
CRT -.9217 CRS -.9935 CST .9558
LSA 2109.8 MSA 163.1 SSA 9.4
EL1 588.5 EL2 57.6 ALF 165.98

LAUNCH DATE JUN 8 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 18 1967

DISTANCE 358.010

HELIOCENTRIC CONIC
RL 151.84 LAL -.00 LOL 256.54 VL 26.906 GAL -.88 AZL 93.37 HCA 157.56 SMA 129.59 ECC .17240 INC 3.3723 V1 29.341
RP 108.04 LAP -1.29 LOP 54.14 VP 37.850 GAP -2.65 AZP 86.88 TAL 184.25 TAP 341.81 RCA 107.25 APO 151.93 V2 35.075
RC 77.874 GL -31.69 GP -.28 ZAL 102.11 ZAP 60.99 ETS 359.76 ZAE 165.66 ETE 19.68 ZAC 92.28 ETC 13.83 CLP -60.99

PLANETOCENTRIC CONIC
C3 9.075 VHL 3.013 DLA -18.93 RAL 142.77 RAD 6567.3 VEL 11.422 PTH 1.98 VHP 3.128 DPA 5.56 RAP 174.92 ECC 1.1494

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 27 34	1409.08	4.69	354.82	353.56	117.96	6 51 3	809.1	8.39	348.10
90.00	13 10 11	5320.90	27.45	241.85	357.86	82.77	14 38 52	4720.9	26.17	233.42
100.00	7 37 20	1183.97	3.67	337.71	353.00	119.69	7 57 4	584.0	7.60	331.12
100.00	14 43 6	5021.24	28.60	219.62	357.67	80.92	16 6 48	4421.2	27.05	211.16
110.00	8 20 27	1048.86	1.14	325.89	351.42	124.17	8 37 56	448.9	5.62	319.66
110.00	16 16 29	4729.11	31.52	196.75	356.99	76.03	17 35 18	4129.1	29.28	188.26

DIFFERENTIAL CORRECTIONS
TDE .2166 TRA -.2810 TC3 .4330 BAU .0548
RDE -.0720 RRA -.0202 RC3 .1287 FAU .18165
FDE-4.1344 FRA .0819 FC-17.3287 BSP 2010
BDE .2283 BRA .2818 BC3 .4517 FSP -3544

MID-COURSE EXECUTION ACCURACY
SGT 746.4 SGR 162.6 SG3 1129.4
RRT -.1088 RRF .1226 RTF -.6207
SGB 763.9 R23 -.0520 R13 .6210
SG1 746.6 SG2 161.6 THA 178.58

ORBIT DETERMINATION ACCURACY
ST 445.6 SR 137.5 SS 2126.6
CRT -.8868 CRS -.9939 CST .9270
LSA 2170.8 MSA 164.7 SSA 8.4
EL1 462.3 EL2 61.3 ALF 164.41

LAUNCH DATE JUN 8 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 20 1967

HELIOCENTRIC CONIC DISTANCE 364.462

RL 151.84 LAL -.00 LOL 256.54 VL 26.922 GAL -.88 AZL 93.37 HCA 160.78 SMA 129.70 ECC .17142 INC 3.3682 V1 29.341
RP 108.00 LAP -1.11 LOP 57.35 VP 37.873 GAP -2.17 AZP 86.82 TAL 184.27 TAP 345.05 RCA 107.47 APO 151.93 V2 35.088
RC 80.046 GL -31.83 GP -.34 ZAL 102.15 ZAP 66.35 ETS 359.88 ZAE 169.20 ETE 24.71 ZAC 94.38 ETC 13.97 CLP -66.35

PLANETOCENTRIC CONIC

C3 8.991 VHL 2.999 DLA -19.04 RAL 142.65 RAD 6567.3 VEL 11.418 PTH 1.98 VHP 3.012 DPA 6.37 RAP 172.91 ECC 1.1480

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 28 16	1402.89	4.88	354.47	353.36	117.93	6 51 39	802.9	8.58	347.74
90.00	13 8 32	5323.51	27.48	242.04	357.64	82.87	14 37 15	4723.5	26.20	233.60
100.00	7 37 54	1178.16	3.87	337.39	352.80	119.66	7 57 33	578.2	7.79	330.80
100.00	14 41 34	5023.47	28.63	219.78	357.46	81.00	16 5 18	4423.5	27.08	211.32
110.00	8 20 48	1043.76	1.34	325.62	351.22	124.16	8 38 12	443.8	5.81	319.39
110.00	16 15 10	4730.64	31.54	196.86	356.78	76.09	17 34 1	4130.6	29.31	188.36

DIFFERENTIAL CORRECTIONS
TDE .1354 TRA -.2766 TC3 .0967 BAU .0174
RDE -.0639 RRA -.0176 RC3 .1076 FAU .19485
FDE-4.4528 FRA .0732 FC-18.7607 BSP 1194
BDE .1497 BRA .2772 BC3 .1446 FSP -3857

MID-COURSE EXECUTION ACCURACY
SGT 618.9 SGR 142.6 SG3 1218.8
RRT -.0895 RRF .1526 RTF -.3364
SGB 635.1 R23 -.1214 R13 .3370
SG1 619.0 SG2 142.0 THA 178.75

ORBIT DETERMINATION ACCURACY
ST 308.4 SR 122.5 SS 2215.7
CRT -.7882 CRS -.9942 CST .8415
LSA 2234.2 MSA 165.9 SSA 7.3
EL1 324.0 EL2 71.8 ALF 161.68

LAUNCH DATE JUN 8 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 22 1967

HELIOCENTRIC CONIC DISTANCE 370.894

RL 151.84 LAL -.00 LOL 256.54 VL 26.934 GAL -.87 AZL 93.36 HCA 164.00 SMA 129.78 ECC .17067 INC 3.3626 V1 29.341
RP 107.96 LAP -.93 LOP 60.56 VP 37.894 GAP -1.71 AZP 86.77 TAL 184.22 TAP 348.22 RCA 107.63 APO 151.93 V2 35.101
RC 82.236 GL -31.94 GP -.42 ZAL 102.08 ZAP 71.91 ETS .01 ZAE 172.81 ETE 35.49 ZAC 96.67 ETC 14.14 CLP -71.91

PLANETOCENTRIC CONIC

C3 8.918 VHL 2.986 DLA -19.16 RAL 142.67 RAD 6567.3 VEL 11.415 PTH 1.98 VHP 2.921 DPA 7.23 RAP 170.71 ECC 1.1468

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 29 38	1396.50	5.09	354.11	353.31	117.89	6 52 54	796.5	8.78	347.38
90.00	13 7 19	5326.74	27.50	242.27	357.59	82.98	14 36 6	4726.7	26.24	233.83
100.00	7 39 9	1172.18	4.07	337.06	352.75	119.64	7 58 41	572.2	7.98	330.46
100.00	14 40 29	5026.29	28.66	219.98	357.40	81.10	16 4 16	4426.3	27.13	211.51
110.00	8 21 47	1038.56	1.54	325.35	351.18	124.15	8 39 6	438.6	6.01	319.12
110.00	16 14 20	4732.67	31.58	197.01	356.73	76.17	17 33 13	4132.7	29.35	188.51

DIFFERENTIAL CORRECTIONS
TDE .0437 TRA -.2746 TC3 -.2911 BAU .0361
RDE -.0564 RRA -.0151 RC3 .0824 FAU .20592
FDE-4.7253 FRA .0867 FC-19.9906 BSP 252
BDE .0713 BRA .2750 BC3 .3025 FSP -4107

MID-COURSE EXECUTION ACCURACY
SGT 590.1 SGR 122.7 SG3 1295.4
RRT -.0074 RRF .2110 RTF .1376
SGB 602.8 R23 -.2121 R13 -.1376
SG1 590.1 SG2 122.7 THA 179.91

ORBIT DETERMINATION ACCURACY
ST 187.2 SR 108.6 SS 2289.9
CRT -.3708 CRS -.9945 CST .4515
LSA 2294.0 MSA 167.2 SSA 6.2
EL1 193.1 EL2 97.8 ALF 163.52

LAUNCH DATE JUN 8 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 24 1967

HELIOCENTRIC CONIC DISTANCE 377.306

RL 151.84 LAL -.00 LOL 256.54 VL 26.942 GAL -.84 AZL 93.35 HCA 167.22 SMA 129.84 ECC .17014 INC 3.3542 V1 29.341
RP 107.92 LAP -.74 LOP 63.78 VP 37.911 GAP -1.26 AZP 86.73 TAL 184.11 TAP 351.33 RCA 107.75 APO 151.92 V2 35.113
RC 84.440 GL -31.99 GP -.54 ZAL 101.88 ZAP 77.60 ETS .13 ZAE 175.83 ETE 65.62 ZAC 99.09 ETC 14.34 CLP -77.60

PLANETOCENTRIC CONIC

C3 8.851 VHL 2.975 DLA -19.28 RAL 142.83 RAD 6567.3 VEL 11.412 PTH 1.98 VHP 2.856 DPA 8.09 RAP 168.38 ECC 1.1457

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 31 37	1390.07	5.29	353.75	353.42	117.86	6 54 47	790.1	8.98	347.01
90.00	13 6 37	5330.28	27.53	242.52	357.68	83.10	14 35 27	4730.3	26.29	234.08
100.00	7 40 59	1166.19	4.27	336.73	352.86	119.61	8 0 25	566.2	8.18	330.13
100.00	14 39 56	5029.39	28.69	220.21	357.50	81.22	16 3 45	4429.4	27.18	211.73
110.00	8 23 22	1033.38	1.74	325.08	351.28	124.14	8 40 36	433.4	6.20	318.85
110.00	16 14 2	4734.97	31.61	197.18	356.83	76.26	17 32 57	4135.0	29.40	188.67

DIFFERENTIAL CORRECTIONS
TDE -.0559 TRA -.2730 TC3 -.7186 BAU .0852
RDE -.0500 RRA -.0125 RC3 .0512 FAU .21456
FDE-4.9431 FRA .1189 FC-20.9866 BSP 809
BDE .0751 BRA .2733 BC3 .7204 FSP -4299

MID-COURSE EXECUTION ACCURACY
SGT 710.4 SGR 104.2 SG3 1356.8
RRT .1560 RRF .3242 RTF .5584
SGB 718.0 R23 .2382 R13 .5592
SG1 710.6 SG2 102.9 THA 1.34

ORBIT DETERMINATION ACCURACY
ST 199.2 SR 96.7 SS 2350.8
CRT .6048 CRS -.9950 CST -.5365
LSA 2355.2 MSA 168.2 SSA 5.1
EL1 208.9 EL2 73.4 ALF 18.75

LAUNCH DATE JUN 8 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 26 1967

HELIOCENTRIC CONIC DISTANCE 383.699

RL 151.84 LAL -.00 LOL 256.54 VL 26.946 GAL -.80 AZL 93.34 HCA 170.44 SMA 129.87 ECC .16981 INC 3.3401 V1 29.341
RP 107.89 LAP -.55 LOP 66.99 VP 37.925 GAP -.82 AZP 86.71 TAL 183.93 TAP 354.37 RCA 107.81 APO 151.92 V2 35.125
RC 86.655 GL -31.99 GP -.73 ZAL 101.58 ZAP 83.34 ETS .25 ZAE 175.81 ETE 126.89 ZAC 101.58 ETC 14.54 CLP -83.34

PLANETOCENTRIC CONIC

C3 8.786 VHL 2.964 DLA -19.39 RAL 143.14 RAD 6567.3 VEL 11.409 PTH 1.97 VHP 2.816 DPA 8.89 RAP 165.95 ECC 1.1446

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 34 2	1384.23	5.48	353.42	353.67	117.83	6 57 6	784.2	9.16	346.68
90.00	13 6 40	5333.29	27.56	242.74	357.92	83.21	14 35 33	4733.3	26.33	234.29
100.00	7 43 17	1160.74	4.45	336.43	353.11	119.59	8 2 38	560.7	8.36	329.82
100.00	14 40 5	5032.01	28.71	220.40	357.74	81.31	16 3 57	4432.0	27.22	211.92
110.00	8 25 26	1028.65	1.92	324.84	351.53	124.14	8 42 35	428.6	6.38	318.60
110.00	16 14 26	4736.87	31.64	197.31	357.07	76.34	17 33 22	4136.9	29.44	188.80

DIFFERENTIAL CORRECTIONS
TDE -.1611 TRA -.2707 TC3-1.1772 BAU .1383
RDE -.0456 RRA -.0098 RC3 .0107 FAU .22015
FDE-5.0905 FRA .1746 FC-21.6942 BSP 1897
BDE .1674 BRA .2709 BC3 1.1772 FSP -4439

MID-COURSE EXECUTION ACCURACY
SGT 944.2 SGR 90.6 SG3 1399.4
RRT .3985 RRF .5304 RTF .7741
SGB 948.6 R23 .2394 R13 .7749
SG1 944.9 SG2 83.0 THA 2.21

ORBIT DETERMINATION ACCURACY
ST 353.6 SR 88.3 SS 2395.9
CRT .9101 CRS -.9960 CST -.8768
LSA 2417.5 MSA 168.7 SSA 4.0
EL1 362.7 EL2 35.7 ALF 12.94

LAUNCH DATE JUN 8 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 28 1967

HELIOCENTRIC CONIC DISTANCE 390.072

```
RL  151.84 LAL   -.00 LOL 256.54 VL  26.947 GAL   -.75 AZL  93.31 HCA 173.66 SMA 129.87 ECC .16969 INC 3.3123 V1  29.341
RP  107.85 LAP   -.37 LOP  70.21 VP  37.937 GAP   -.38 AZP  86.71 TAL 183.69 TAP 357.36 RCA 107.83 APO 151.91 V2  35.137
RC  88.880 GL  -31.85 GP   -1.11 ZAL 101.17 ZAP  89.05 ETS    .33 ZAE 172.72 ETE 158.18 ZAC 104.08 ETC  14.70 CLP -89.05
```

PLANETOCENTRIC CONIC

```
C3   8.708 VHL  2.951 DLA -19.43 RAL 143.62 RAD 6567.3 VEL 11.406 PTH   1.97 VHP  2.800 DPA   9.49 RAP 163.48 ECC 1.1433
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 36 21	1381.01	5.58	353.24	354.06	117.81	6 59 22	781.0	9.26	346.49
90.00	13 8 10	5333.11	27.56	242.73	358.28	83.20	14 37 3	4733.1	26.33	234.28
100.00	7 45 34	1157.66	4.56	336.26	353.50	119.57	8 4 51	557.7	8.46	329.65
100.00	14 41 38	5031.70	28.71	220.38	358.11	81.30	16 5 30	4431.7	27.21	211.90
110.00	8 27 38	1025.82	2.03	324.69	351.92	124.13	8 44 44	425.8	6.49	318.45
110.00	16 16 3	4736.30	31.64	197.27	357.44	76.32	17 34 59	4136.3	29.43	188.76

DIFFERENTIAL CORRECTIONS

```
TDE -.2690 TRA -.2664 TC3-1.6626 BAU  .1936
RDE -.0453 RRA -.0066 RC3 -.0488 FAU .22204
FDE-5.1454 FRA  .2553 FC-22.0758 BSP  3035
BDE  .2728 BRA  .2665 BC3 1.6633 FSP  -4505
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1239.5 SGR   93.5 SG3 1419.3
RRT  .7044 RRF  .8117 RTF  .8700
SGB 1243.1 R23  .2776 R13  .8708
SG1 1241.3 SG2   66.2 THA   3.05
```

ORBIT DETERMINATION ACCURACY

```
ST   548.5 SR    88.0 SS  2419.2
CRT  .9658 CRS -.9976 CST -.9489
LSA 2476.4 MSA  169.2 SSA    2.9
EL1  555.0 EL2   22.6 ALF   8.82
```

LAUNCH DATE JUN 8 1967 FLIGHT TIME 144.00 ARRIVAL DATE OCT 30 1967

HELIOCENTRIC CONIC DISTANCE 396.424

```
RL  151.84 LAL   -.00 LOL 256.54 VL  26.945 GAL   -.69 AZL  93.23 HCA 176.89 SMA 129.86 ECC .16974 INC 3.2262 V1  29.341
RP  107.82 LAP   -.17 LOP  73.43 VP  37.946 GAP    .04 AZP  86.78 TAL 183.39 TAP    .28 RCA 107.82 APO 151.90 V2  35.149
RC  91.113 GL  -31.26 GP   -2.25 ZAL 100.69 ZAP  94.64 ETS    .27 ZAE 169.00 ETE 173.14 ZAC 106.65 ETC  14.63 CLP -94.65
```

PLANETOCENTRIC CONIC

```
C3   8.550 VHL  2.924 DLA -19.09 RAL 144.40 RAD 6567.3 VEL 11.399 PTH   1.97 VHP  2.809 DPA   9.31 RAP 160.82 ECC 1.1407
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 35 45	1391.32	5.25	353.82	354.53	117.87	6 58 56	791.3	8.94	347.08
90.00	13 14 57	5315.87	27.41	241.49	358.67	82.60	14 43 33	4715.9	26.10	233.06
100.00	7 45 20	1166.76	4.25	336.76	353.98	119.62	8 4 47	566.8	8.16	330.16
100.00	14 48 3	5015.67	28.54	219.22	358.49	80.71	16 11 39	4415.7	26.96	210.77
110.00	8 28 8	1032.68	1.76	325.05	352.43	124.14	8 45 20	432.7	6.23	318.81
110.00	16 21 45	4722.52	31.41	196.26	357.80	75.76	17 40 27	4122.5	29.13	187.80

DIFFERENTIAL CORRECTIONS

```
TDE -.3688 TRA -.2534 TC3-2.1703 BAU  .2489
RDE -.0595 RRA -.0016 RC3 -.1784 FAU .22005
FDE-5.0271 FRA  .3806 FC-22.2810 BSP  4135
BDE  .3736 BRA  .2534 BC3 2.1776 FSP  -4461
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1552.2 SGR  156.5 SG3 1412.9
RRT  .8990 RRF  .9789 RTF  .9156
SGB 1560.1 R23  .3521 R13  .9170
SG1 1558.6 SG2   68.3 THA   5.19
```

ORBIT DETERMINATION ACCURACY

```
ST   740.6 SR   116.7 SS  2393.3
CRT  .9785 CRS -.9994 CST -.9716
LSA 2502.4 MSA  167.8 SSA    1.7
EL1  749.4 EL2   23.8 ALF   8.77
```

LAUNCH DATE JUN 8 1967 FLIGHT TIME 146.00 ARRIVAL DATE NOV 1 1967

HELIOCENTRIC CONIC DISTANCE 402.756

```
RL  151.84 LAL   -.00 LOL 256.54 VL  26.940 GAL   -.62 AZL  97.75 HCA 180.12 SMA 129.82 ECC .16996 INC 4.6226 V1  29.341
RP  107.78 LAP    .02 LOP  76.66 VP  37.952 GAP    .46 AZP  82.25 TAL 183.02 TAP   3.14 RCA 107.76 APO 151.89 V2  35.160
RC  93.352 GL  -55.04 GP   44.24 ZAL  96.58 ZAP  96.92 ETS   7.61 ZAE 130.63 ETE 110.17 ZAC  92.75 ETC  23.79 CLP -99.68
```

PLANETOCENTRIC CONIC

```
C3  19.659 VHL  4.434 DLA -40.96 RAL 133.46 RAD 6567.8 VEL 11.876 PTH   2.11 VHP  4.114 DPA  51.71 RAP 184.25 ECC 1.3235
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.07	5 45 40	1529.65	27.80	17.30	6.03	121.38	6 11 10	929.7	31.74	9.68
120.93	12 37 45	5534.97	27.82	257.27	6.04	121.37	14 10 0	4935.0	31.75	249.65
59.07	5 45 40	1529.65	27.80	17.30	6.03	121.38	6 11 10	929.7	31.74	9.68
120.93	12 37 45	5534.97	27.82	257.27	6.04	121.37	14 10 0	4935.0	31.75	249.65
59.07	5 45 40	1529.65	27.80	17.30	6.03	121.38	6 11 10	929.7	31.74	9.68
120.93	12 37 45	5534.97	27.82	257.27	6.04	121.37	14 10 0	4935.0	31.75	249.65

DIFFERENTIAL CORRECTIONS

```
TDE25.6346 TRA27.8806 TC355.9177 BAU15.0024
RDE-5.7254 RRA-5.8026 RC-11.4700 FA-1.41619
FDE29.9864 FRA31.6670 FC362.3656 BSP 686265
BDE26.2662 BRA28.4781 BC357.0819 FSP  63843
```

MID-COURSE EXECUTION ACCURACY

```
SGT76370.4 SGR16024.7 SG3 7480.8
RRT -.9995 RRF -.9999 RTF  .9998
SGB78033.5 R23  .0154 R13 -.9999
SG178031.9 SG2  500.5 THA 168.15
```

ORBIT DETERMINATION ACCURACY

```
ST 36116.7 SR  7981.6 SS 14948.7
CRT -.9997 CRS  .9999 CST -.9999
LSA39894.0 MSA  237.3 SSA    8.0
EL136987.6 EL2  196.7 ALF 167.54
```

LAUNCH DATE JUN 8 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 3 1967

HELIOCENTRIC CONIC DISTANCE 409.078

```
RL  151.84 LAL   -.00 LOL 256.54 VL  26.932 GAL   -.53 AZL  93.55 HCA 183.35 SMA 129.77 ECC .17035 INC 3.5422 V1  29.341
RP  107.75 LAP    .21 LOP  79.88 VP  37.957 GAP    .86 AZP  86.46 TAL 182.59 TAP   5.94 RCA 107.66 APO 151.88 V2  35.170
RC  95.596 GL  -33.64 GP    2.02 ZAL  98.92 ZAP 105.21 ETS   1.24 ZAE 160.53 ETE 165.39 ZAC 109.52 ETC  16.56 CLP-105.22
```

PLANETOCENTRIC CONIC

```
C3   9.050 VHL  3.008 DLA -21.87 RAL 144.91 RAD 6567.3 VEL 11.421 PTH   1.98 VHP  2.886 DPA  14.78 RAP 158.50 ECC 1.1489
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 10 27	1282.37	8.68	347.65	356.60	117.06	7 31 49	682.4	12.24	340.78
90.00	12 44 21	5446.51	28.20	250.96	1.02	87.28	14 15 7	4846.5	27.52	242.36
100.00	8 16 22	1069.61	7.49	331.37	355.97	119.02	8 34 12	469.6	11.31	324.66
100.00	14 21 6	5134.50	29.54	227.90	.92	85.18	15 46 41	4534.5	28.56	219.24
110.00	8 52 28	956.45	4.67	321.06	354.23	123.90	9 8 25	356.4	9.09	314.76
110.00	16 1 30	4820.43	32.82	203.55	.41	79.86	17 21 50	4220.4	31.07	194.76

DIFFERENTIAL CORRECTIONS

```
TDE -.6176 TRA -.2248 TC3-2.8294 BAU  .3425
RDE  .0384 RRA -.0053 RC3  .1037 FAU .19224
FDE-4.9788 FRA  .7581 FC-18.3912 BSP  5717
BDE  .6187 BRA  .2249 BC3 2.8313 FSP  -3604
```

MID-COURSE EXECUTION ACCURACY

```
SGT 2119.9 SGR   96.8 SG3 1266.2
RRT -.9125 RRF -.9880 RTF  .9422
SGB 2122.2 R23  .3127 R13 -.9424
SG1 2121.8 SG2   39.6 THA 177.61
```

ORBIT DETERMINATION ACCURACY

```
ST  1185.4 SR    73.3 SS  2368.7
CRT -.9868 CRS  .9999 CST -.9862
LSA 2643.9 MSA  176.0 SSA     .8
EL1 1187.6 EL2   11.9 ALF 176.51
```

LAUNCH DATE JUN 8 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 5 1967

HELIOCENTRIC CONIC DISTANCE 415.369

RL 151.84 LAL -.00 LOL 256.54 VL 26.922 GAL -.43 AZL 93.47 HCA 186.58 SMA 129.70 ECC .17089 INC 3.4714 V1 29.341
RP 107.72 LAP .40 LOP 83.11 VP 37.959 GAP 1.27 AZP 86.55 TAL 182.11 TAP 8.69 RCA 107.54 APO 151.87 V2 35.180
RC 97.843 GL -33.07 GP 1.00 ZAL 98.11 ZAP 110.12 ETS 1.16 ZAE 157.29 ETE 170.79 ZAC 111.41 ETC 16.50 CLP-110.13

PLANETOCENTRIC CONIC

C3 8.928 VHL 2.988 DLA -21.69 RAL 146.02 RAD 6567.3 VEL 11.416 PTH 1.98 VHP 2.950 DPA 14.43 RAP 156.51 ECC 1.1469

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 12 34	1288.12	8.50	347.97	357.49	117.11	7 34 2	688.1	12.07	341.11
90.00	12 51 5	5435.57	28.16	250.16	1.87	86.88	14 21 41	4835.6	27.43	241.57
100.00	8 18 47	1074.42	7.33	331.64	356.86	119.06	8 36 41	474.4	11.15	324.94
100.00	14 27 34	5124.49	29.48	227.17	1.76	84.79	15 52 58	4524.5	28.44	218.52
110.00	8 55 23	959.69	4.54	321.23	355.14	123.92	9 11 23	359.7	8.97	314.93
110.00	16 7 27	4811.99	32.72	202.91	1.23	79.49	17 27 39	4212.0	30.92	194.15

DIFFERENTIAL CORRECTIONS
TDE -.7417 TRA -.2316 TC3-3.4074 BAU .4067
RDE .0249 RRA .0014 RC3 -.0001 FAU .19746
FDE-5.0246 FRA .5835 FC-19.1474 BSP 7403
BDE .7421 BRA .2317 BC3 3.4074 FSP -4065

MID-COURSE EXECUTION ACCURACY
SGT 2529.3 SGR 47.9 SG3 1296.6
RRT -.5709 RRF -.6349 RTF .9597
SGB 2529.8 R23 .1058 R13 -.9597
SG1 2529.5 SG2 39.3 THA 179.38

ORBIT DETERMINATION ACCURACY
ST 1430.7 SR 47.8 SS 2459.3
CRT -.9957 CRS .9979 CST -.9905
LSA 2840.5 MSA 170.5 SSA 1.9
EL1 [illegible] EL2 4.5 ALF 178.09

LAUNCH DATE JUN 8 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 7 1967

HELIOCENTRIC CONIC DISTANCE 421.644

RL 151.84 LAL -.00 LOL 256.54 VL 26.910 GAL -.33 AZL 93.45 HCA 189.82 SMA 129.62 ECC .17158 INC 3.4457 V1 29.341
RP 107.69 LAP .59 LOP 86.34 VP 37.959 GAP 1.66 AZP 86.60 TAL 181.57 TAP 11.39 RCA 107.38 APO 151.86 V2 35.190
RC 100.092 GL -32.83 GP .66 ZAL 97.12 ZAP 114.72 ETS 1.17 ZAE 154.09 ETE 173.32 ZAC 112.81 ETC 16.61 CLP-114.72

PLANETOCENTRIC CONIC

C3 8.902 VHL 2.984 DLA -21.87 RAL 147.12 RAD 6567.3 VEL 11.415 PTH 1.98 VHP 3.032 DPA 14.58 RAP 155.06 ECC 1.1465

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 19 14	1279.30	8.77	347.47	358.62	117.03	7 40 34	679.3	12.33	340.60
90.00	12 53 11	5443.25	28.19	250.72	2.98	87.16	14 23 54	4843.2	27.49	242.12
100.00	8 25 10	1066.53	7.59	331.20	357.99	119.00	8 42 56	466.5	11.41	324.48
100.00	14 29 57	5131.25	29.52	227.66	2.88	85.05	15 55 28	4531.2	28.52	219.00
110.00	9 1 16	953.34	4.79	320.89	356.26	123.89	9 17 10	353.3	9.20	314.59
110.00	16 10 20	4817.20	32.78	203.30	2.37	79.72	17 30 37	4217.2	31.01	194.53

DIFFERENTIAL CORRECTIONS
TDE -.8479 TRA -.2102 TC3-3.8357 BAU .4565
RDE .0240 RRA .0055 RC3 -.0615 FAU .18862
FDE-4.8315 FRA .6636 FC-18.3446 BSP 8464
BDE .8483 BRA .2103 BC3 3.8362 FSP -3932

MID-COURSE EXECUTION ACCURACY
SGT 2842.4 SGR 59.9 SG3 1245.5
RRT .0245 RRF -.0110 RTF .9656
SGB 2843.0 R23 -.0347 R13 .9656
SG1 2842.4 SG2 59.9 THA .03

ORBIT DETERMINATION ACCURACY
ST 1635.0 SR 46.1 SS 2434.2
CRT -.9978 CRS .9913 CST -.9923
LSA 2927.8 MSA 168.8 SSA 3.0
EL1 1635.6 EL2 3.0 ALF 178.39

LAUNCH DATE JUN 8 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 9 1967

HELIOCENTRIC CONIC DISTANCE 427.901

RL 151.84 LAL -.00 LOL 256.54 VL 26.895 GAL -.20 AZL 93.43 HCA 193.05 SMA 129.52 ECC .17242 INC 3.4326 V1 29.341
RP 107.66 LAP .78 LOP 89.57 VP 37.958 GAP 2.05 AZP 86.66 TAL 180.98 TAP 14.03 RCA 107.19 APO 151.85 V2 35.199
RC 102.344 GL -32.65 GP .48 ZAL 96.02 ZAP 119.01 ETS 1.19 ZAE 151.12 ETE 174.89 ZAC 113.88 ETC 16.74 CLP-119.01

PLANETOCENTRIC CONIC

C3 8.909 VHL 2.985 DLA -22.15 RAL 148.30 RAD 6567.3 VEL 11.415 PTH 1.98 VHP 3.127 DPA 14.78 RAP 153.98 ECC 1.1466

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 27 42	1266.02	9.18	346.71	359.92	116.90	7 48 48	666.0	12.72	339.82
90.00	12 54 10	5456.84	28.23	251.71	4.28	87.66	14 25 7	4856.8	27.60	243.10
100.00	8 33 8	1054.79	7.98	330.54	359.28	118.90	8 50 43	454.8	11.78	323.81
100.00	14 31 24	5143.30	29.59	228.55	4.19	85.52	15 57 8	4543.3	28.65	219.88
110.00	9 8 26	944.16	5.13	320.41	357.53	123.84	9 24 10	344.2	9.54	314.10
110.00	16 12 36	4826.69	32.89	204.02	3.70	80.13	17 33 3	4226.7	31.18	195.22

DIFFERENTIAL CORRECTIONS
TDE -.9524 TRA -.1844 TC3-4.2297 BAU .5039
RDE .0266 RRA .0096 RC3 -.1082 FAU .17905
FDE-4.6298 FRA .7334 FC-17.3992 BSP 9485
BDE .9528 BRA .1846 BC3 4.2311 FSP -3787

MID-COURSE EXECUTION ACCURACY
SGT 3140.7 SGR 84.7 SG3 1188.4
RRT .2341 RRF .2128 RTF .9698
SGB 3141.8 R23 -.0148 R13 .9698
SG1 3140.7 SG2 82.3 THA .36

ORBIT DETERMINATION ACCURACY
ST 1833.4 SR 51.4 SS 2405.5
CRT -.9954 CRS .9834 CST -.9935
LSA 3020.4 MSA 166.2 SSA 4.2
EL1 1834.1 EL2 4.9 ALF 178.40

LAUNCH DATE JUN 8 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 11 1967

HELIOCENTRIC CONIC DISTANCE 434.138

RL 151.84 LAL -.00 LOL 256.54 VL 26.879 GAL -.07 AZL 93.42 HCA 196.29 SMA 129.41 ECC .17340 INC 3.4248 V1 29.341
RP 107.63 LAP .96 LOP 92.80 VP 37.954 GAP 2.44 AZP 86.71 TAL 180.34 TAP 16.63 RCA 106.97 APO 151.85 V2 35.208
RC 104.596 GL -32.49 GP .37 ZAL 94.81 ZAP 122.99 ETS 1.21 ZAE 148.39 ETE 175.99 ZAC 114.62 ETC 16.83 CLP-123.00

PLANETOCENTRIC CONIC

C3 8.939 VHL 2.990 DLA -22.50 RAL 149.59 RAD 6567.3 VEL 11.416 PTH 1.98 VHP 3.234 DPA 14.93 RAP 153.22 ECC 1.1471

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 37 24	1250.31	9.67	345.81	1.39	116.75	7 58 14	650.3	13.18	338.89
90.00	12 54 44	5473.83	28.27	252.95	5.73	88.28	14 25 58	4873.8	27.73	244.33
100.00	8 42 14	1041.03	8.43	329.77	.73	118.78	8 59 35	441.0	12.21	323.02
100.00	14 32 35	5158.33	29.66	229.67	5.65	86.10	15 58 33	4558.3	28.80	220.97
110.00	9 16 30	933.59	5.53	319.85	358.96	123.79	9 32 4	333.6	9.94	313.53
110.00	16 14 48	4838.54	33.03	204.92	5.19	80.64	17 35 26	4238.5	31.38	196.08

DIFFERENTIAL CORRECTIONS
TDE-1.0543 TRA -.1560 TC3-4.5784 BAU .5474
RDE .0307 RRA .0139 RC3 -.1478 FAU .16773
FDE-4.4135 FRA .7829 FC-16.2450 BSP 10565
BDE 1.0547 BRA .1566 BC3 4.5808 FSP -3681

MID-COURSE EXECUTION ACCURACY
SGT 3417.8 SGR 110.0 SG3 1121.6
RRT .3023 RRF .2850 RTF .9726
SGB 3419.6 R23 -.0098 R13 .9726
SG1 3418.0 SG2 104.9 THA .56

ORBIT DETERMINATION ACCURACY
ST 2024.4 SR 59.6 SS 2368.3
CRT -.9917 CRS .9764 CST -.9944
LSA 3111.9 MSA 162.7 SSA 5.4
EL1 2025.3 EL2 7.7 ALF 178.33

LAUNCH DATE JUN 8 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 13 1967

DISTANCE 440.357

HELIOCENTRIC CONIC
RL 151.84 LAL -.00 LOL 256.54 VL 26.861 GAL .07 AZL 93.42 HCA 199.53 SMA 129.28 ECC .17452 INC 3.4194 VI 29.341
RP 107.61 LAP 1.14 LOP 96.04 VP 37.948 GAP 2.82 AZP 86.78 TAL 179.65 TAP 19.18 RCA 106.72 APO 151.85 V2 35.216
RC 106.849 GL -32.30 GP .30 ZAL 93.49 ZAP 126.69 ETS 1.22 ZAE 145.92 ETE 176.81 ZAC 115.08 ETC 16.88 CLP-126.69

PLANETOCENTRIC CONIC
C3 8.988 VHL 2.998 DLA -22.87 RAL 150.98 RAD 6567.3 VEL 11.418 PTH 1.98 VHP 3.351 DPA 15.02 RAP 152.75 ECC 1.1479

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 48 9	1232.88	10.20	344.80	3.01	116.56	8 8 42	632.9	13.68	337.86
90.00	12 55 6	5493.38	28.30	254.38	7.34	88.99	14 26 39	4893.4	27.86	245.75
100.00	8 52 16	1025.92	8.93	328.92	2.33	118.65	9 9 22	425.9	12.68	322.15
100.00	14 33 40	5175.58	29.73	230.94	7.28	86.77	15 59 56	4575.6	28.97	222.22
110.00	9 25 22	922.15	5.97	319.25	.53	123.72	9 40 44	322.2	10.36	312.91
110.00	16 17 4	4852.11	33.17	205.95	6.85	81.24	17 37 56	4252.1	31.61	197.07

DIFFERENTIAL CORRECTIONS
TDE-1.1432 TRA -.1127 TC3-4.8470 BAU .5828
RDE .0359 RRA .0184 RC3 -.1821 FAU .15362
FDE-4.1302 FRA .8880 FC-14.7964 BSP 11091
BDE 1.1437 BRA .1142 BC3 4.8504 FSP -3282

MID-COURSE EXECUTION ACCURACY
SGT 3643.4 SGR 134.5 SG3 1038.3
RRT .3235 RRF .3078 RTF .9730
SGB 3645.9 R23 -.0077 R13 .9730
SG1 3643.7 SG2 127.3 THA .69

ORBIT DETERMINATION ACCURACY
ST 2187.6 SR 69.7 SS 2292.0
CRT -.9874 CRS .9692 CST -.9948
LSA 3165.1 MSA 162.0 SSA 6.5
EL1 2188.7 EL2 11.0 ALF 178.20

LAUNCH DATE JUN 8 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 15 1967

DISTANCE 446.558

HELIOCENTRIC CONIC
RL 151.84 LAL -.00 LOL 256.54 VL 26.841 GAL .23 AZL 93.42 HCA 202.77 SMA 129.15 ECC .17578 INC 3.4155 VI 29.341
RP 107.59 LAP 1.32 LOP 99.27 VP 37.941 GAP 3.20 AZP 86.85 TAL 178.91 TAP 21.68 RCA 106.45 APO 151.85 V2 35.223
RC 109.101 GL -32.10 GP .25 ZAL 92.06 ZAP 130.11 ETS 1.21 ZAE 143.70 ETE 177.45 ZAC 115.27 ETC 16.89 CLP-130.11

PLANETOCENTRIC CONIC
C3 9.058 VHL 3.010 DLA -23.28 RAL 152.49 RAD 6567.3 VEL 11.421 PTH 1.98 VHP 3.477 DPA 15.03 RAP 152.55 ECC 1.1491

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 59 56	1213.98	10.77	343.71	4.79	116.35	8 20 10	614.0	14.23	336.74
90.00	12 55 22	5515.26	28.32	255.98	9.09	89.80	14 27 17	4915.3	27.99	247.33
100.00	9 3 13	1009.71	9.45	328.01	4.10	118.49	9 20 2	409.7	13.19	321.21
100.00	14 34 46	5194.76	29.80	232.36	9.05	87.51	16 1 21	4594.8	29.14	223.62
110.00	9 34 59	910.11	6.42	318.62	2.25	123.65	9 50 9	310.1	10.80	312.26
110.00	16 19 29	4867.13	33.32	207.10	8.67	81.90	17 40 36	4267.1	31.85	198.18

DIFFERENTIAL CORRECTIONS
TDE-1.2338 TRA -.0594 TC3-5.1213 BAU .6207
RDE .0418 RRA .0233 RC3 -.2119 FAU .14356
FDE-3.8986 FRA .9913 FC-13.7215 BSP 11860
BDE 1.2345 BRA .0639 BC3 5.1257 FSP -3090

MID-COURSE EXECUTION ACCURACY
SGT 3877.5 SGR 157.9 SG3 975.7
RRT .3276 RRF .3157 RTF .9738
SGB 3880.7 R23 -.0041 R13 .9738
SG1 3877.8 SG2 149.1 THA .77

ORBIT DETERMINATION ACCURACY
ST 2350.9 SR 80.9 SS 2238.5
CRT -.9828 CRS .9624 CST -.9951
LSA 3243.2 MSA 160.8 SSA 7.7
EL1 2352.2 EL2 14.9 ALF 178.06

LAUNCH DATE JUN 8 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 17 1967

DISTANCE 452.738

HELIOCENTRIC CONIC
RL 151.84 LAL -.00 LOL 256.54 VL 26.819 GAL .40 AZL 93.41 HCA 206.01 SMA 129.01 ECC .17717 INC 3.4125 VI 29.341
RP 107.57 LAP 1.50 LOP 102.51 VP 37.932 GAP 3.57 AZP 86.93 TAL 178.13 TAP 24.15 RCA 106.15 APO 151.86 V2 35.230
RC 111.351 GL -31.86 GP .21 ZAL 90.55 ZAP 133.28 ETS 1.20 ZAE 141.69 ETE 177.96 ZAC 115.21 ETC 16.86 CLP-133.28

PLANETOCENTRIC CONIC
C3 9.149 VHL 3.025 DLA -23.69 RAL 154.11 RAD 6567.3 VEL 11.425 PTH 1.98 VHP 3.611 DPA 14.97 RAP 152.61 ECC 1.1506

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 12 37	1193.95	11.37	342.55	6.72	116.11	8 32 31	594.0	14.79	335.54
90.00	12 55 34	5539.16	28.31	257.73	10.99	90.67	14 27 53	4939.2	28.10	249.07
100.00	9 14 56	992.77	10.00	327.05	6.01	118.32	9 31 29	392.8	13.71	320.22
100.00	14 35 55	5215.58	29.85	233.91	10.98	88.32	16 2 51	4615.6	29.30	225.15
110.00	9 45 14	897.78	6.89	317.96	4.12	123.57	10 0 12	297.8	11.25	311.59
110.00	16 22 7	4883.33	33.47	208.34	10.64	82.62	17 43 30	4283.3	32.09	199.38

DIFFERENTIAL CORRECTIONS
TDE-1.3241 TRA -.0057 TC3-5.3553 BAU .6557
RDE .0481 RRA .0284 RC3 -.2377 FAU .13334
FDE-3.6850 FRA 1.0546 FC-12.6176 BSP 12656
BDE 1.3249 BRA .0289 BC3 5.3606 FSP -2925

MID-COURSE EXECUTION ACCURACY
SGT 4097.1 SGR 180.1 SG3 913.3
RRT .3204 RRF .3093 RTF .9746
SGB 4101.1 R23 -.0037 R13 .9746
SG1 4097.5 SG2 170.6 THA .81

ORBIT DETERMINATION ACCURACY
ST 2509.9 SR 93.0 SS 2188.5
CRT -.9786 CRS .9569 CST -.9955
LSA 3327.6 MSA 158.0 SSA 8.8
EL1 2511.6 EL2 19.1 ALF 177.92

LAUNCH DATE JUN 8 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 19 1967

DISTANCE 458.901

HELIOCENTRIC CONIC
RL 151.84 LAL -.00 LOL 256.54 VL 26.797 GAL .58 AZL 93.41 HCA 209.26 SMA 128.85 ECC .17872 INC 3.4102 VI 29.341
RP 107.55 LAP 1.67 LOP 105.75 VP 37.922 GAP 3.94 AZP 87.02 TAL 177.31 TAP 26.57 RCA 105.83 APO 151.88 V2 35.236
RC 113.598 GL -31.58 GP .18 ZAL 88.94 ZAP 136.21 ETS 1.17 ZAE 139.89 ETE 178.38 ZAC 114.92 ETC 16.79 CLP-136.21

PLANETOCENTRIC CONIC
C3 9.264 VHL 3.044 DLA -24.13 RAL 155.83 RAD 6567.3 VEL 11.430 PTH 1.98 VHP 3.752 DPA 14.84 RAP 152.90 ECC 1.1525

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 26 13	1172.85	12.00	341.32	8.81	115.84	8 45 46	572.9	15.38	334.27
90.00	12 55 42	5565.10	28.27	259.63	13.03	91.62	14 28 27	4965.1	28.20	250.96
100.00	9 27 26	975.20	10.57	326.05	8.07	118.12	9 43 42	375.2	14.25	319.19
100.00	14 37 10	5237.98	29.88	235.58	13.04	89.20	16 4 28	4638.0	29.45	226.80
110.00	9 56 6	885.31	7.36	317.30	6.13	123.48	10 10 52	285.3	11.71	310.91
110.00	16 24 59	4900.64	33.62	209.67	12.76	83.40	17 46 40	4300.6	32.34	200.67

DIFFERENTIAL CORRECTIONS
TDE-1.4081 TRA .0591 TC3-5.5307 BAU .6857
RDE .0551 RRA .0337 RC3 -.2592 FAU .12272
FDE-3.4672 FRA 1.1251 FC-11.4683 BSP 13244
BDE 1.4091 BRA .0681 BC3 5.5368 FSP -2712

MID-COURSE EXECUTION ACCURACY
SGT 4286.7 SGR 201.2 SG3 849.7
RRT .3069 RRF .2958 RTF .9746
SGB 4291.4 R23 -.0040 R13 .9746
SG1 4287.1 SG2 191.5 THA .83

ORBIT DETERMINATION ACCURACY
ST 2652.7 SR 106.0 SS 2128.9
CRT -.9743 CRS .9512 CST -.9957
LSA 3399.5 MSA 155.8 SSA 10.0
EL1 2654.8 EL2 23.9 ALF 177.77

LAUNCH DATE JUN 8 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 21 1967

HELIOCENTRIC CONIC DISTANCE 465.043

RL 151.84 LAL -.00 LOL 256.54 VL 26.773 GAL .78 AZL 93.41 HCA 212.50 SMA 128.69 ECC .18040 INC 3.4082 V1 29.341
RP 107.53 LAP 1.83 LOP 108.99 VP 37.910 GAP 4.31 AZP 87.12 TAL 176.45 TAP 28.95 RCA 105.48 APO 151.91 V2 35.241
RC 115.842 GL -31.26 GP .16 ZAL 87.24 ZAP 138.94 ETS 1.13 ZAE 138.28 ETE 178.72 ZAC 114.43 ETC 16.69 CLP-138.94

PLANETOCENTRIC CONIC

C3 9.405 VHL 3.067 DLA -24.56 RAL 157.65 RAD 6567.3 VEL 11.437 PTH 1.98 VHP 3.899 DPA 14.64 RAP 153.40 ECC 1.1548

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 40 40	1150.86	12.65	340.03	11.06	115.55	8 59 51	550.9	15.99	332.94
90.00	12 55 48	5592.98	28.20	261.67	15.21	92.64	14 29 1	4993.0	28.27	253.00
100.00	9 40 39	957.26	11.14	325.03	10.28	117.92	9 56 36	357.3	14.79	318.14
100.00	14 38 31	5261.81	29.89	237.35	15.25	90.13	16 6 13	4661.8	29.59	228.56
110.00	10 7 32	872.92	7.82	316.64	8.28	123.38	10 22 5	272.9	12.16	310.23
110.00	16 28 7	4918.91	33.75	211.08	15.03	84.22	17 50 6	4318.9	32.58	202.04

DIFFERENTIAL CORRECTIONS
TDE-1.4930 TRA .1284 TC3-5.6814 BAU .7152
RDE .0626 RRA .0391 RC3 -.2769 FAU .11338
FDE-3.2750 FRA 1.1770 FC-10.4365 BSP 13868
BDE 1.4943 BRA .1342 BC3 5.6881 FSP -2540

MID-COURSE EXECUTION ACCURACY
SGT 4471.4 SGR 221.3 SG3 793.1
RRT .2898 RRF .2784 RTF .9748
SGB 4476.9 R23 -.0049 R13 .9748
SG1 4471.9 SG2 211.8 THA .82

ORBIT DETERMINATION ACCURACY
ST 2792.5 SR 119.5 SS 2076.9
CRT -.9702 CRS .9463 CST -.9960
LSA 3478.8 MSA 152.7 SSA 11.1
EL1 2794.9 EL2 28.9 ALF 177.62

LAUNCH DATE JUN 8 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 23 1967

HELIOCENTRIC CONIC DISTANCE 471.165

RL 151.84 LAL -.00 LOL 256.54 VL 26.748 GAL .99 AZL 93.41 HCA 215.75 SMA 128.53 ECC .18223 INC 3.4066 V1 29.341
RP 107.52 LAP 1.99 LOP 112.24 VP 37.897 GAP 4.68 AZP 87.23 TAL 175.55 TAP 31.30 RCA 105.10 APO 151.95 V2 35.246
RC 118.080 GL -30.90 GP .14 ZAL 85.47 ZAP 141.48 ETS 1.08 ZAE 136.84 ETE 179.02 ZAC 113.75 ETC 16.55 CLP-141.48

PLANETOCENTRIC CONIC

C3 9.575 VHL 3.094 DLA -25.00 RAL 159.58 RAD 6567.3 VEL 11.444 PTH 1.99 VHP 4.053 DPA 14.38 RAP 154.08 ECC 1.1576

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 55 59	1128.06	13.32	338.69	13.45	115.22	9 14 47	528.1	16.61	331.55
90.00	12 55 50	5622.81	28.09	263.84	17.52	93.73	14 29 33	5022.8	28.31	255.18
100.00	9 54 30	939.10	11.72	323.99	12.64	117.70	10 10 9	339.1	15.34	317.07
100.00	14 40 0	5287.00	29.87	239.22	17.60	91.12	16 8 7	4687.0	29.71	230.42
110.00	10 19 27	860.82	8.27	316.00	10.58	123.29	10 33 48	260.8	12.60	309.57
110.00	16 31 32	4938.04	33.87	212.56	17.45	85.09	17 53 50	4338.0	32.82	203.48

DIFFERENTIAL CORRECTIONS
TDE-1.5768 TRA .2066 TC3-5.7954 BAU .7428
RDE .0707 RRA .0446 RC3 -.2907 FAU .10469
FDE-3.0968 FRA 1.2283 FC3-9.4654 BSP 14430
BDE 1.5784 BRA .2114 BC3 5.8027 FSP -2374

MID-COURSE EXECUTION ACCURACY
SGT 4644.0 SGR 240.4 SG3 740.7
RRT .2703 RRF .2584 RTF .9749
SGB 4650.2 R23 -.0060 R13 .9749
SG1 4644.4 SG2 231.4 THA .80

ORBIT DETERMINATION ACCURACY
ST 2924.3 SR 133.8 SS 2025.9
CRT -.9661 CRS .9414 CST -.9962
LSA 3556.9 MSA 149.8 SSA 12.1
EL1 2927.2 EL2 34.5 ALF 177.47

LAUNCH DATE JUN 8 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 25 1967

HELIOCENTRIC CONIC DISTANCE 477.267

RL 151.84 LAL -.00 LOL 256.54 VL 26.722 GAL 1.21 AZL 93.41 HCA 218.99 SMA 128.35 ECC .18422 INC 3.4053 V1 29.341
RP 107.50 LAP 2.14 LOP 115.48 VP 37.882 GAP 5.05 AZP 87.35 TAL 174.62 TAP 33.61 RCA 104.71 APO 152.00 V2 35.250
RC 120.312 GL -30.50 GP .12 ZAL 83.62 ZAP 143.84 ETS 1.03 ZAE 135.54 ETE 179.26 ZAC 112.91 ETC 16.39 CLP-143.84

PLANETOCENTRIC CONIC

C3 9.778 VHL 3.127 DLA -25.43 RAL 161.59 RAD 6567.4 VEL 11.453 PTH 1.99 VHP 4.211 DPA 14.06 RAP 154.92 ECC 1.1609

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 12 5	1104.56	13.99	337.29	16.00	114.87	9 30 30	504.6	17.23	330.11
90.00	12 55 49	5654.57	27.93	266.15	19.95	94.87	14 30 3	5054.6	28.31	257.51
100.00	10 8 57	920.96	12.29	322.95	15.14	117.46	10 24 18	321.0	15.87	315.99
100.00	14 41 38	5313.40	29.82	241.18	20.09	92.15	16 10 11	4713.4	29.80	232.38
110.00	10 31 49	849.23	8.71	315.38	13.01	123.19	10 45 58	249.2	13.01	308.93
110.00	16 35 16	4957.89	33.98	214.10	20.01	85.99	17 57 53	4357.9	33.05	204.99

DIFFERENTIAL CORRECTIONS
TDE-1.6587 TRA .2919 TC3-5.8747 BAU .7690
RDE .0793 RRA .0502 RC3 -.3005 FAU .09668
FDE-2.9275 FRA 1.2724 FC3-8.5597 BSP 14982
BDE 1.6606 BRA .2962 BC3 5.8824 FSP -2226

MID-COURSE EXECUTION ACCURACY
SGT 4804.8 SGR 258.5 SG3 691.7
RRT .2491 RRF .2368 RTF .9749
SGB 4811.7 R23 -.0070 R13 .9748
SG1 4805.2 SG2 250.3 THA .77

ORBIT DETERMINATION ACCURACY
ST 3046.4 SR 148.6 SS 1972.9
CRT -.9622 CRS .9369 CST -.9964
LSA 3629.4 MSA 147.1 SSA 13.2
EL1 3049.7 EL2 40.4 ALF 177.31

LAUNCH DATE JUN 8 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 27 1967

HELIOCENTRIC CONIC DISTANCE 483.349

RL 151.84 LAL -.00 LOL 256.54 VL 26.694 GAL 1.45 AZL 93.40 HCA 222.24 SMA 128.17 ECC .18636 INC 3.4041 V1 29.341
RP 107.49 LAP 2.29 LOP 118.73 VP 37.866 GAP 5.42 AZP 87.48 TAL 173.66 TAP 35.90 RCA 104.29 APO 152.06 V2 35.253
RC 122.538 GL -30.04 GP .11 ZAL 81.70 ZAP 146.06 ETS .96 ZAE 134.39 ETE 179.47 ZAC 111.91 ETC 16.21 CLP-146.06

PLANETOCENTRIC CONIC

C3 10.017 VHL 3.165 DLA -25.86 RAL 163.70 RAD 6567.4 VEL 11.463 PTH 1.99 VHP 4.375 DPA 13.69 RAP 155.92 ECC 1.1649

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 28 59	1080.46	14.68	335.85	18.70	114.49	9 46 59	480.5	17.86	328.62
90.00	12 55 42	5688.28	27.71	268.59	22.51	96.08	14 30 30	5088.3	28.26	259.97
100.00	10 23 55	903.06	12.85	321.91	17.79	117.22	10 38 58	303.1	16.40	314.92
100.00	14 43 27	5340.91	29.73	243.22	22.70	93.22	16 12 28	4740.9	29.86	234.42
110.00	10 44 32	838.39	9.11	314.80	15.57	123.09	10 58 30	238.4	13.40	308.33
110.00	16 39 19	4978.35	34.06	215.69	22.70	86.93	18 2 18	4378.3	33.26	206.54

DIFFERENTIAL CORRECTIONS
TDE-1.7392 TRA .3866 TC3-5.9151 BAU .7932
RDE .0885 RRA .0558 RC3 -.3065 FAU .08923
FDE-2.7701 FRA 1.3146 FC3-7.7114 BSP 15495
BDE 1.7415 BRA .3906 BC3 5.9230 FSP -2088

MID-COURSE EXECUTION ACCURACY
SGT 4953.5 SGR 275.6 SG3 646.4
RRT .2265 RRF .2136 RTF .9747
SGB 4961.2 R23 -.0080 R13 .9747
SG1 4953.9 SG2 268.4 THA .72

ORBIT DETERMINATION ACCURACY
ST 3159.1 SR 163.9 SS 1919.9
CRT -.9582 CRS .9324 CST -.9965
LSA 3697.5 MSA 144.6 SSA 14.1
EL1 3163.0 EL2 46.8 ALF 177.15

```
LAUNCH DATE  JUN  8 1967                          FLIGHT TIME 174.00                          ARRIVAL DATE  NOV 29 1967

  HELIOCENTRIC CONIC                              DISTANCE 489.409
   RL  151.84 LAL   -.00 LOL 256.54 VL  26.666 GAL   1.70 AZL  93.40 HCA 225.49 SMA 127.99 ECC .18866 INC 3.4030 V1  29.341
   RP  107.49 LAP   2.43 LOP 121.97 VP  37.849 GAP   5.79 AZP  87.61 TAL 172.66 TAP  38.15 RCA 103.84 APO 152.13 V2  35.258
   RC 124.755 GL  -29.54 GP     .10 ZAL  79.72 ZAP 148.13 ETS    .89 ZAE 133.35 ETE 179.65 ZAC 110.79 ETC  16.01 CLP-148.13
  PLANETOCENTRIC CONIC
   C3  10.298 VHL  3.209 DLA -26.27 RAL 165.88 RAD 6567.4 VEL 11.475 PTH   1.99 VHP  4.544 DPA  13.27 RAP 157.04 ECC 1.1695
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00.     9 46 38   1055.83      15.37     334.37      21.54     114.08   10  4 14     455.8      18.49     327.09
      90.00     12 55 28   5723.96      27.43     271.17      25.17      97.34   14 30 52    5124.0      28.16     262.58
     100.00     10 39 19    885.68      13.39     320.90      20.56     116.98   10 54  5     285.7      16.90     313.87
     100.00     14 45 28   5369.35      29.61     245.33      25.43      94.32   16 14 58    4769.3      29.89     236.53
     110.00     10 57 32    828.53       9.47     314.27      18.26     123.00   11 11 20     228.5      13.76     307.79
     110.00     16 43 45   4999.26      34.13     217.32      25.53      87.90   18  7  4    4399.3      33.46     208.15
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TOE-1.8157 TRA  .4925 TC3-5.9099 BAU  .8147    SGT 5085.1 SGR  291.7 SG3  603.4        ST  3257.1 SR   179.7 SS  1862.7
   ROE  .0985 RRA  .0614 RC3 -.3087 FAU .08210    RRT  .2030 RRF  .1897 RTF  .9744        CRT -.9542 CRS  .9278 CST -.9967
   FDE-2.6172 FRA 1.3581 FC3-6.9024 BSP  15905    SGB 5093.4 R23 -.0090 R13  .9744        LSA 3753.7 MSA  143.0 SSA   15.0
   BDE 1.8184 BRA  .4963 BC3 5.9180 FSP  -1948    SGI 5085.4 SG2  285.7 THA    .67        ELI 3261.7 EL2   53.7 ALF 176.99

LAUNCH DATE  JUN  8 1967                          FLIGHT TIME 176.00                          ARRIVAL DATE  DEC  1 1967

  HELIOCENTRIC CONIC                              DISTANCE 495.448
   RL  151.84 LAL   -.00 LOL 256.54 VL  26.638 GAL   1.96 AZL  93.40 HCA 228.73 SMA 127.80 ECC .19113 INC 3.4020 V1  29.341
   RP  107.48 LAP   2.56 LOP 125.22 VP  37.830 GAP   6.17 AZP  87.75 TAL 171.64 TAP  40.38 RCA 103.37 APO 152.23 V2  35.258
   RC 126.964 GL  -28.99 GP     .09 ZAL  77.69 ZAP 150.08 ETS    .81 ZAE 132.42 ETE 179.81 ZAC 109.54 ETC  15.81 CLP-150.08
  PLANETOCENTRIC CONIC
   C3  10.624 VHL  3.259 DLA -26.65 RAL 168.13 RAD 6567.4 VEL 11.490 PTH   2.00 VHP  4.718 DPA  12.80 RAP 158.28 ECC 1.1748
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     10  4 59   1030.75      16.06     332.86      24.52     113.64   10 22 10     430.7      19.12     325.52
      90.00     12 55  6   5761.66      27.07     273.87      27.94      98.65   14 31  8    5161.7      27.99     265.32
     100.00     10 55  1    869.13      13.90     319.94      23.47     116.73   11  9 30     269.1      17.38     312.87
     100.00     14 47 45   5398.51      29.44     247.48      28.27      95.44   16 17 43    4798.5      29.88     238.70
     110.00     11 10 42    819.93       9.79     313.81      21.06     122.91   11 24 22     219.9      14.06     307.31
     110.00     16 48 34   5020.47      34.17     218.98      28.48      88.87   18 12 14    4420.5      33.63     209.78
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TOE-1.8939 TRA  .6051 TC3-5.8788 BAU  .8361    SGT 5214.1 SGR  306.9 SG3  564.9        ST  3350.2 SR   195.9 SS  1809.9
   ROE  .1091 RRA  .0668 RC3 -.3073 FAU .07579    RRT  .1785 RRF  .1645 RTF  .9742        CRT -.9504 CRS  .9237 CST -.9968
   FDE-2.4813 FRA 1.3936 FC3-6.1756 BSP  16336    SGB 5223.1 R23 -.0101 R13  .9742        LSA 3810.2 MSA  141.3 SSA    15.8
   BDE 1.8970 BRA  .6088 BC3 5.8868 FSP  -1829    SGI 5214.4 SG2  302.0 THA    .60        ELI 3355.4 EL2   60.8 ALF 176.82

LAUNCH DATE  JUN  8 1967                          FLIGHT TIME 178.00                          ARRIVAL DATE  DEC  3 1967

  HELIOCENTRIC CONIC                              DISTANCE 501.463
   RL  151.84 LAL   -.00 LOL 256.54 VL  26.608 GAL   2.24 AZL  93.40 HCA 231.98 SMA 127.61 ECC .19379 INC 3.4012 V1  29.341
   RP  107.48 LAP   2.68 LOP 128.47 VP  37.810 GAP   6.55 AZP  87.90 TAL 170.60 TAP  42.58 RCA 102.88 APO 152.34 V2  35.259
   RC 129.165 GL  -28.40 GP     .08 ZAL  75.62 ZAP 151.92 ETS    .73 ZAE 131.58 ETE 179.94 ZAC 108.18 ETC  15.60 CLP-151.92
  PLANETOCENTRIC CONIC
   C3  11.002 VHL  3.317 DLA -27.02 RAL 170.45 RAD 6567.4 VEL 11.506 PTH   2.00 VHP  4.897 DPA  12.28 RAP 159.62 ECC 1.1811
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     10 24  2   1005.18      16.75     331.30      27.63     113.17   10 40 48     405.2      19.75     323.90
      90.00     12 54 31   5801.50      26.63     276.70      30.79     100.00   14 31 13    5201.5      27.74     268.21
     100.00     11 10 55    853.74      14.37     319.04      26.49     116.50   11 25  9     253.7      17.81     311.94
     100.00     14 50 19   5428.17      29.23     249.66      31.22      96.57   16 20 48    4828.2      29.83     240.90
     110.00     11 23 57    812.85      10.05     313.43      23.97     122.84   11 37 30     212.9      14.31     306.91
     110.00     16 53 47   5041.83      34.18     220.65      31.55      89.86   18 17 49    4441.8      33.79     211.43
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TOE-1.9713 TRA  .7265 TC3-5.8136 BAU  .8563    SGT 5334.2 SGR  321.2 SG3  529.1        ST  3433.2 SR   212.4 SS  1757.0
   ROE  .1205 RRA  .0720 RC3 -.3027 FAU .06990    RRT  .1530 RRF  .1382 RTF  .9740        CRT -.9467 CRS  .9198 CST -.9970
   FDE-2.3546 FRA 1.4257 FC3-5.5002 BSP  16763    SGB 5343.8 R23 -.0115 R13  .9740        LSA 3859.9 MSA  140.3 SSA    16.5
   BDE 1.9750 BRA  .7301 BC3 5.8215 FSP  -1722    SGI 5334.4 SG2  317.4 THA    .53        ELI 3439.1 EL2   68.3 ALF 176.65

LAUNCH DATE  JUN  8 1967                          FLIGHT TIME 180.00                          ARRIVAL DATE  DEC  5 1967

  HELIOCENTRIC CONIC                              DISTANCE 507.455
   RL  151.84 LAL   -.00 LOL 256.54 VL  26.578 GAL   2.54 AZL  93.40 HCA 235.23 SMA 127.41 ECC .19664 INC 3.4004 V1  29.341
   RP  107.48 LAP   2.79 LOP 131.72 VP  37.789 GAP   6.93 AZP  88.06 TAL 169.52 TAP  44.75 RCA 102.36 APO 152.46 V2  35.259
   RC 131.355 GL  -27.75 GP     .07 ZAL  73.51 ZAP 153.66 ETS    .64 ZAE 130.84 ETE 180.05 ZAC 106.73 ETC  15.38 CLP-153.66
  PLANETOCENTRIC CONIC
   C3  11.438 VHL  3.382 DLA -27.35 RAL 172.82 RAD 6567.4 VEL 11.525 PTH   2.01 VHP  5.082 DPA  11.72 RAP 161.05 ECC 1.1882
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     10 43 49    979.02      17.44     329.69      30.87     112.66   11  0  8     379.0      20.37     322.24
      90.00     12 53 38   5843.70      26.10     279.67      33.72     101.40   14 31  2    5243.7      27.41     271.25
     100.00     11 26 52    839.90      14.79     318.22      29.61     116.28   11 40 52     239.9      18.20     311.09
     100.00     14 53 16   5458.05      28.97     251.84      34.27      97.69   16 24 14    4858.1      29.74     243.12
     110.00     11 37 10    807.56      10.25     313.14      26.98     122.79   11 50 38     207.6      14.50     306.62
     110.00     16 59 27   5063.16      34.17     222.31      34.72      90.85   18 23 50    4463.2      33.91     213.08
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TOE-2.0469 TRA  .8586 TC3-5.7154 BAU  .8751    SGT 5445.4 SGR  334.5 SG3  496.0        ST  3504.3 SR   229.2 SS  1703.1
   ROE  .1327 RRA  .0769 RC3 -.2950 FAU .06446    RRT  .1272 RRF  .1118 RTF  .9738        CRT -.9430 CRS  .9158 CST -.9971
   FDE-2.2352 FRA 1.4574 FC3-4.8795 BSP  17146    SGB 5455.6 R23 -.0127 R13  .9738        LSA 3900.4 MSA  140.2 SSA    17.0
   BDE 2.0512 BRA  .8620 BC3 5.7230 FSP  -1619    SGI 5445.5 SG2  331.8 THA    .45        ELI 3510.9 EL2   76.1 ALF 176.47
```

LAUNCH DATE JUN 8 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 7 1967

DISTANCE 513.422

HELIOCENTRIC CONIC
RL 151.84 LAL -.00 LOL 256.54 VL 26.548 GAL 2.85 AZL 93.40 HCA 238.48 SMA 127.21 ECC .19968 INC 3.3997 VI 29.341
RP 107.48 LAP 2.90 LOP 134.97 VP 37.767 GAP 7.31 AZP 88.22 TAL 168.43 TAP 46.91 RCA 101.81 APO 152.61 V2 35.259
RC 133.537 GL -27.07 GP .07 ZAL 71.38 ZAP 155.32 ETS .55 ZAE 130.16 ETE 180.15 ZAC 105.19 ETC 15.17 CLP-155.32

PLANETOCENTRIC CONIC
C3 11.938 VHL 3.455 DLA -27.65 RAL 175.23 RAD 6567.5 VEL 11.547 PTH 2.02 VHP 5.272 DPA 11.12 RAP 162.56 ECC 1.1965

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 4 24	951.87	18.15	328.01	34.23	112.12	11 20 16	351.9	20.99	320.49
90.00	12 52 16	600.71	25.45	304.91	36.71	102.85	13 2 17	.7	26.97	296.57
100.00	11 42 43	828.02	15.14	317.52	32.83	116.08	11 56 31	228.0	18.53	310.36
100.00	14 56 38	5487.83	28.68	254.01	37.40	98.80	16 28 6	4887.8	29.60	245.32
110.00	11 50 16	804.31	10.37	312.97	30.07	122.76	12 3 40	204.3	14.61	306.44
110.00	17 5 35	5084.30	34.14	223.96	38.00	91.82	18 30 19	4484.3	34.02	214.72

DIFFERENTIAL CORRECTIONS
TDE-2.1186 TRA 1.0032 TC3-5.5771 BAU .8913
RDE .1458 RRA .0814 RC3 -.2845 FAU .05924
FDE-2.1198 FRA 1.4902 FC3-4.2963 BSP 17442
BDE 2.1237 BRA 1.0065 BC3 5.5844 FSP -1518

MID-COURSE EXECUTION ACCURACY
SGT 5542.9 SGR 346.9 SG3 464.9
RRT .1011 RRF .0851 RTF .9734
SGB 5553.7 R23 -.0137 R13 .9734
SG1 5543.0 SG2 345.1 THA .36

ORBIT DETERMINATION ACCURACY
ST 3560.1 SR 246.2 SS 1646.5
CRT -.9392 CRS .9117 CST -.9972
LSA 3927.8 MSA 141.1 SSA 17.4
EL1 3567.6 EL2 84.3 ALF 176.28

LAUNCH DATE JUN 8 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 9 1967

DISTANCE 519.362

HELIOCENTRIC CONIC
RL 151.84 LAL -.00 LOL 256.54 VL 26.517 GAL 3.18 AZL 93.40 HCA 241.73 SMA 127.01 ECC .20295 INC 3.3990 VI 29.341
RP 107.48 LAP 2.99 LOP 138.22 VP 37.744 GAP 7.70 AZP 88.39 TAL 167.32 TAP 49.04 RCA 101.24 APO 152.79 V2 35.257
RC 135.709 GL -26.35 GP .06 ZAL 69.24 ZAP 156.89 ETS .45 ZAE 129.55 ETE 180.23 ZAC 103.57 ETC 14.96 CLP-156.89

PLANETOCENTRIC CONIC
C3 12.511 VHL 3.537 DLA -27.91 RAL 177.66 RAD 6567.5 VEL 11.571 PTH 2.02 VHP 5.469 DPA 10.49 RAP 164.14 ECC 1.2059

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 26 2	922.78	18.88	326.19	37.72	111.50	11 41 25	322.8	21.64	318.60
90.00	12 50 5	649.65	24.67	308.28	39.74	104.37	13 0 55	49.6	26.40	300.04
100.00	11 58 16	818.59	15.43	316.96	36.13	115.93	12 11 54	218.6	18.79	309.78
100.00	15 0 33	5517.10	28.36	256.12	40.62	99.87	16 32 30	4917.1	29.43	247.48
110.00	12 3 7	803.36	10.40	312.92	33.24	122.75	12 16 30	203.4	14.65	306.38
110.00	17 12 11	5105.11	34.08	225.59	41.36	92.78	18 37 16	4505.1	34.09	216.34

DIFFERENTIAL CORRECTIONS
TDE-2.1925 TRA 1.1547 TC3-5.4211 BAU .9078
RDE .1598 RRA .0855 RC3 -.2716 FAU .05460
FDE-2.0171 FRA 1.5164 FC3-3.7786 BSP 17790
BDE 2.1983 BRA 1.1579 BC3 5.4279 FSP -1433

MID-COURSE EXECUTION ACCURACY
SGT 5639.3 SGR 358.4 SG3 436.7
RRT .0739 RRF .0572 RTF .9732
SGB 5650.7 R23 -.0151 R13 .9732
SG1 5639.3 SG2 357.4 THA .27

ORBIT DETERMINATION ACCURACY
ST 3609.8 SR 263.1 SS 1593.8
CRT -.9357 CRS .9081 CST -.9973
LSA 3952.1 MSA 142.3 SSA 17.7
EL1 3618.2 EL2 92.6 ALF 176.10

LAUNCH DATE JUN 8 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 11 1967

DISTANCE 525.274

HELIOCENTRIC CONIC
RL 151.84 LAL -.00 LOL 256.54 VL 26.485 GAL 3.53 AZL 93.40 HCA 244.97 SMA 126.81 ECC .20644 INC 3.3983 VI 29.341
RP 107.49 LAP 3.08 LOP 141.47 VP 37.720 GAP 8.10 AZP 88.56 TAL 166.18 TAP 51.16 RCA 100.63 APO 152.99 V2 35.255
RC 137.871 GL -25.59 GP .06 ZAL 67.08 ZAP 158.39 ETS .34 ZAE 129.01 ETE 180.30 ZAC 101.88 ETC 14.75 CLP-158.39

PLANETOCENTRIC CONIC
C3 13.165 VHL 3.628 DLA -28.14 RAL 180.12 RAD 6567.5 VEL 11.600 PTH 2.03 VHP 5.672 DPA 9.82 RAP 165.78 ECC 1.2167

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 49 41	888.59	19.72	324.03	41.35	110.74	12 4 30	288.6	22.37	316.36
90.00	12 46 2	705.73	23.67	312.08	42.76	106.02	12 57 48	105.7	25.64	303.97
100.00	12 13 19	812.14	15.62	316.58	39.50	115.82	12 26 51	212.1	18.96	309.38
100.00	15 5 5	5545.45	28.01	258.16	43.91	100.88	16 37 31	4945.4	29.23	249.57
110.00	12 15 37	804.92	10.35	313.00	36.46	122.76	12 29 2	204.9	14.59	306.47
110.00	17 19 17	5125.43	34.00	227.17	44.81	93.72	18 44 42	4525.4	34.15	217.93

DIFFERENTIAL CORRECTIONS
TDE-2.2646 TRA 1.3176 TC3-5.2394 BAU .9232
RDE .1746 RRA .0890 RC3 -.2568 FAU .05029
FDE-1.9197 FRA 1.5426 FC3-3.3072 BSP 18112
BDE 2.2713 BRA 1.3206 BC3 5.2457 FSP -1353

MID-COURSE EXECUTION ACCURACY
SGT 5728.1 SGR 369.0 SG3 410.6
RRT .0465 RRF .0293 RTF .9730
SGB 5740.0 R23 -.0162 R13 .9730
SG1 5728.1 SG2 368.6 THA .17

ORBIT DETERMINATION ACCURACY
ST 3647.3 SR 279.9 SS 1540.5
CRT -.9321 CRS .9045 CST -.9974
LSA 3966.5 MSA 144.5 SSA 17.8
EL1 3656.6 EL2 101.1 ALF 175.90

LAUNCH DATE JUN 8 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 13 1967

DISTANCE 531.156

HELIOCENTRIC CONIC
RL 151.84 LAL -.00 LOL 256.54 VL 26.453 GAL 3.90 AZL 93.40 HCA 248.22 SMA 126.61 ECC .21018 INC 3.3977 VI 29.341
RP 107.50 LAP 3.16 LOP 144.72 VP 37.695 GAP 8.51 AZP 88.74 TAL 165.04 TAP 53.26 RCA 100.00 APO 153.22 V2 35.253
RC 140.023 GL -24.80 GP .06 ZAL 64.93 ZAP 159.83 ETS .24 ZAE 128.51 ETE 180.35 ZAC 100.13 ETC 14.55 CLP-159.83

PLANETOCENTRIC CONIC
C3 13.910 VHL 3.730 DLA -28.32 RAL 182.58 RAD 6567.5 VEL 11.632 PTH 2.04 VHP 5.882 DPA 9.12 RAP 167.47 ECC 1.2289

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 26 8	814.16	21.44	319.25	45.40	108.95	12 39 43	214.2	23.84	311.40
90.00	12 29 13	804.16	21.66	318.60	45.48	108.69	12 42 38	204.2	24.02	310.72
100.00	12 27 40	809.21	15.70	316.40	42.91	115.77	12 41 9	209.2	19.04	309.20
100.00	15 10 23	5572.39	27.65	260.08	47.27	101.83	16 43 15	4972.4	29.00	251.54
110.00	12 27 41	809.18	10.19	313.23	39.74	122.81	12 41 10	209.2	14.44	306.71
110.00	17 26 52	5145.17	33.91	228.70	48.33	94.62	18 52 37	4545.2	34.18	219.47

DIFFERENTIAL CORRECTIONS
TDE-2.3350 TRA 1.4923 TC3-5.0328 BAU .9370
RDE .1904 RRA .0918 RC3 -.2404 FAU .04622
FDE-1.8280 FRA 1.5685 FC3-2.8767 BSP 18400
BDE 2.3427 BRA 1.4951 BC3 5.0386 FSP -1278

MID-COURSE EXECUTION ACCURACY
SGT 5808.7 SGR 378.6 SG3 386.2
RRT .0186 RRF .0010 RTF .9727
SGB 5821.0 R23 -.0172 R13 .9727
SG1 5808.7 SG2 378.6 THA .07

ORBIT DETERMINATION ACCURACY
ST 3672.8 SR 296.5 SS 1487.3
CRT -.9285 CRS .9009 CST -.9975
LSA 3970.9 MSA 147.6 SSA 17.8
EL1 3683.2 EL2 109.8 ALF 175.71

LAUNCH DATE JUN 8 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 15 1967

DISTANCE 537.006

HELIOCENTRIC CONIC
RL 151.84 LAL -.00 LOL 256.54 VL 26.421 GAL 4.28 AZL 93.40 HCA 251.47 SMA 126.40 ECC .21418 INC 3.3972 V1 29.341
RP 107.51 LAP 3.22 LOP 147.98 VP 37.670 GAP 8.93 AZP 88.92 TAL 163.88 TAP 55.34 RCA 99.33 APO 153.47 V2 35.249
RC 142.165 GL -23.98 GP .05 ZAL 62.80 ZAP 161.21 ETS .13 ZAE 128.06 ETE 180.40 ZAC 98.33 ETC 14.36 CLP-161.21

PLANETOCENTRIC CONIC
C3 14.759 VHL 3.842 DLA -28.45 RAL 185.04 RAD 6567.6 VEL 11.668 PTH 2.05 VHP 6.100 DPA 8.39 RAP 169.20 ECC 1.2429

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
87.08	12 12 54	901.91	21.36	325.65	48.83	109.26	12 27 56	301.9	23.79	317.81
92.92	13 2 4	742.60	21.37	313.99	48.84	109.25	13 14 27	142.6	23.80	306.15
100.00	12 41 7	810.33	15.67	316.47	46.35	115.79	12 54 37	210.3	19.01	309.27
100.00	15 16 32	5597.45	27.29	261.85	50.70	102.70	16 49 50	4997.5	28.76	253.36
110.00	12 39 13	816.30	9.93	313.61	43.04	122.88	12 52 49	216.3	14.19	307.11
110.00	17 34 56	5164.25	33.79	230.18	51.91	95.49	19 1 0	4564.2	34.18	220.96

DIFFERENTIAL CORRECTIONS
TOE-2.4011 TRA 1.6810 TC3-4.8004 BAU .9482
RDE .2071 RRA .0939 RC3 -.2228 FAU .04231
FDE-1.7388 FRA 1.5958 FC3-2.4819 BSP 18607
BDE 2.4100 BRA 1.6836 BC3 4.8056 FSP -1203

MID-COURSE EXECUTION ACCURACY
SGT 5878.7 SGR 387.4 SG3 363.4
RRT -.0092 RRF -.0268 RTF .9723
SGB 5891.5 R23 .0179 R13 -.9723
SG1 5878.7 SG2 387.4 THA 179.97

ORBIT DETERMINATION ACCURACY
ST 3683.5 SR 312.6 SS 1432.6
CRT -.9247 CRS .8968 CST -.9976
LSA 3961.7 MSA 151.7 SSA 17.6
EL1 3694.8 EL2 118.7 ALF 175.51

LAUNCH DATE JUN 8 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 17 1967

DISTANCE 542.821

HELIOCENTRIC CONIC
RL 151.84 LAL -.00 LOL 256.54 VL 26.389 GAL 4.69 AZL 93.40 HCA 254.71 SMA 126.19 ECC .21848 INC 3.3966 V1 29.341
RP 107.52 LAP 3.28 LOP 151.23 VP 37.643 GAP 9.35 AZP 89.10 TAL 162.70 TAP 57.41 RCA 98.62 APO 153.76 V2 35.245
RC 144.295 GL -23.14 GP .05 ZAL 60.68 ZAP 162.55 ETS .02 ZAE 127.65 ETE 180.43 ZAC 96.47 ETC 14.19 CLP-162.55

PLANETOCENTRIC CONIC
C3 15.723 VHL 3.965 DLA -28.55 RAL 187.48 RAD 6567.6 VEL 11.709 PTH 2.06 VHP 6.327 DPA 7.63 RAP 170.98 ECC 1.2588

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
86.20	12 15 19	939.80	21.10	328.32	52.28	109.69	12 30 59	339.8	23.60	320.52
93.80	13 19 7	733.14	21.12	313.20	52.28	109.67	13 31 20	133.1	23.61	305.40
100.00	12 53 27	816.01	15.50	316.81	49.80	115.88	13 7 3	216.0	18.86	309.62
100.00	15 23 40	5620.21	26.94	263.45	54.18	103.47	16 57 21	5020.2	28.52	255.01
110.00	12 50 9	826.38	9.55	314.16	46.37	122.98	13 3 55	226.4	13.83	307.67
110.00	17 43 28	5182.60	33.66	231.60	55.54	96.32	19 9 50	4582.6	34.17	222.39

DIFFERENTIAL CORRECTIONS
TOE-2.4693 TRA 1.8785 TC3-4.5620 BAU .9599
RDE .2248 RRA .0951 RC3 -.2045 FAU .03882
FDE-1.6588 FRA 1.6193 FC3-2.1373 BSP 18874
BDE 2.4795 BRA 1.8809 BC3 4.5666 FSP -1140

MID-COURSE EXECUTION ACCURACY
SGT 5947.2 SGR 395.3 SG3 342.5
RRT -.0378 RRF -.0556 RTF .9720
SGB 5960.3 R23 .0186 R13 -.9720
SG1 5947.2 SG2 395.0 THA 179.86

ORBIT DETERMINATION ACCURACY
ST 3688.1 SR 328.2 SS 1381.5
CRT -.9210 CRS .8931 CST -.9977
LSA 3948.9 MSA 156.1 SSA 17.4
EL1 3700.5 EL2 127.4 ALF 175.31

LAUNCH DATE JUN 8 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 19 1967

DISTANCE 548.597

HELIOCENTRIC CONIC
RL 151.84 LAL -.00 LOL 256.54 VL 26.356 GAL 5.13 AZL 93.40 HCA 257.96 SMA 125.99 ECC .22308 INC 3.3961 V1 29.341
RP 107.53 LAP 3.32 LOP 154.48 VP 37.616 GAP 9.79 AZP 89.29 TAL 161.52 TAP 59.48 RCA 97.88 APO 154.09 V2 35.240
RC 146.414 GL -22.28 GP .05 ZAL 58.59 ZAP 163.83 ETS 359.91 ZAE 127.27 ETE 180.45 ZAC 94.58 ETC 14.02 CLP-163.83

PLANETOCENTRIC CONIC
C3 16.818 VHL 4.101 DLA -28.60 RAL 189.89 RAD 6567.7 VEL 11.756 PTH 2.07 VHP 6.563 DPA 6.85 RAP 172.79 ECC 1.2768

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.80	12 21 36	965.96	20.78	330.12	55.76	110.10	12 37 42	366.0	23.33	322.35
94.20	13 32 5	737.70	20.80	313.41	55.76	110.09	13 44 23	137.7	23.35	305.64
100.00	13 4 32	826.58	15.19	317.43	53.25	116.06	13 18 19	226.6	18.57	310.27
100.00	15 31 50	5640.35	26.61	264.86	57.72	104.14	17 5 51	5040.3	28.29	256.46
110.00	13 0 26	839.47	9.07	314.86	49.70	123.10	13 14 26	239.5	13.36	308.39
110.00	17 52 25	5200.23	33.52	232.95	59.22	97.11	19 19 6	4600.2	34.14	223.77

DIFFERENTIAL CORRECTIONS
TOE-2.5362 TRA 2.0890 TC3-4.3098 BAU .9699
RDE .2434 RRA .0953 RC3 -.1858 FAU .03553
FDE-1.5838 FRA 1.6428 FC3-1.8288 BSP 19108
BDE 2.5479 BRA 2.0912 BC3 4.3138 FSP -1080

MID-COURSE EXECUTION ACCURACY
SGT 6008.4 SGR 402.3 SG3 323.0
RRT -.0669 RRF -.0845 RTF .9718
SGB 6021.9 R23 .0193 R13 -.9718
SG1 6008.5 SG2 401.4 THA 179.74

ORBIT DETERMINATION ACCURACY
ST 3682.6 SR 343.1 SS 1331.5
CRT -.9173 CRS .8894 CST -.9978
LSA 3927.6 MSA 161.0 SSA 17.1
EL1 3696.0 EL2 136.1 ALF 175.11

LAUNCH DATE JUN 8 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 21 1967

DISTANCE 554.333

HELIOCENTRIC CONIC
RL 151.84 LAL -.00 LOL 256.54 VL 26.323 GAL 5.58 AZL 93.40 HCA 261.20 SMA 125.78 ECC .22802 INC 3.3955 V1 29.341
RP 107.55 LAP 3.36 LOP 157.73 VP 37.587 GAP 10.25 AZP 89.48 TAL 160.33 TAP 61.53 RCA 97.10 APO 154.46 V2 35.234
RC 148.521 GL -21.41 GP .04 ZAL 56.54 ZAP 165.08 ETS 359.80 ZAE 126.92 ETE 180.47 ZAC 92.64 ETC 13.87 CLP-165.08

PLANETOCENTRIC CONIC
C3 18.062 VHL 4.250 DLA -28.61 RAL 192.27 RAD 6567.7 VEL 11.809 PTH 2.09 VHP 6.810 DPA 6.05 RAP 174.63 ECC 1.2973

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.73	12 30 32	984.26	20.40	331.31	59.26	110.50	12 46 56	384.3	23.01	323.59
94.27	13 42 6	752.45	20.41	314.34	59.27	110.49	13 54 39	152.5	23.02	306.62
100.00	13 14 17	842.22	14.72	318.36	56.68	116.31	13 28 19	242.2	18.13	311.23
100.00	15 41 3	5657.76	26.32	266.07	61.31	104.72	17 15 20	5057.8	28.08	257.71
110.00	13 10 2	855.57	8.47	315.72	53.04	123.24	13 24 18	255.6	12.79	309.28
110.00	18 1 47	5217.17	33.37	234.25	62.93	97.86	19 28 44	4617.2	34.10	225.09

DIFFERENTIAL CORRECTIONS
TOE-2.6020 TRA 2.3126 TC3-4.0491 BAU .9786
RDE .2628 RRA .0945 RC3 -.1672 FAU .03245
FDE-1.5134 FRA 1.6663 FC3-1.5551 BSP 19331
BDE 2.6153 BRA 2.3146 BC3 4.0525 FSP -1024

MID-COURSE EXECUTION ACCURACY
SGT 6063.3 SGR 408.4 SG3 305.0
RRT -.0962 RRF -.1135 RTF .9717
SGB 6077.1 R23 .0197 R13 -.9717
SG1 6063.4 SG2 406.5 THA 179.63

ORBIT DETERMINATION ACCURACY
ST 3667.6 SR 357.0 SS 1282.9
CRT -.9135 CRS .8856 CST -.9978
LSA 3898.3 MSA 166.3 SSA 16.7
EL1 3682.1 EL2 144.7 ALF 174.91

LAUNCH DATE JUN 8 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 23 1967

HELIOCENTRIC CONIC DISTANCE 560.023
RL 151.84 LAL -.00 LOL 256.54 VL 26.290 GAL 6.07 AZL 93.40 HCA 264.44 SMA 125.58 ECC .23332 INC 3.3950 V1 29.341
RP 107.57 LAP 3.38 LOP 160.97 VP 37.558 GAP 10.72 AZP 89.67 TAL 159.13 TAP 63.58 RCA 96.28 APO 154.88 V2 35.228
RC 150.615 GL -20.54 GP .04 ZAL 54.52 ZAP 166.29 ETS 359.68 ZAE 126.60 ETE 180.48 ZAC 90.67 ETC 13.74 CLP-166.29
PLANETOCENTRIC CONIC
C3 19.474 VHL 4.413 DLA -28.58 RAL 194.60 RAD 6567.8 VEL 11.868 PTH 2.11 VHP 7.069 DPA 5.23 RAP 176.49 ECC 1.3205

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.96	12 41 46	995.70	19.95	331.97	62.79	110.90	12 58 21	395.7	22.62	324.29
94.04	13 49 28	776.40	19.97	315.92	62.79	110.88	14 2 24	176.4	22.63	308.24
100.00	13 22 41	862.84	14.09	319.57	60.09	116.64	13 37 4	262.8	17.55	312.49
100.00	15 51 14	5672.53	26.06	267.09	64.94	105.19	17 25 46	5072.5	27.89	258.77
110.00	13 18 56	874.65	7.76	316.74	56.36	123.40	13 33 30	274.6	12.09	310.33
110.00	18 11 28	5233.49	33.21	235.50	66.68	98.59	19 38 42	4633.5	34.04	226.36

DIFFERENTIAL CORRECTIONS
TDE-2.6636 TRA 2.5538 TC3-3.7754 BAU .9837
RDE .2831 RRA .0925 RC3 -.1490 FAU .02941
FDE-1.4450 FRA 1.6924 FC3-1.3076 BSP 19459
BDE 2.6787 BRA 2.5555 BC3 3.7784 FSP -967

MID-COURSE EXECUTION ACCURACY
SGT 6109.1 SGR 413.7 SG3 288.0
RRT -.1253 RRF -.1418 RTF .9714
SGB 6123.0 R23 .0197 R13 -.9714
SG1 6109.3 SG2 410.4 THA 179.51

ORBIT DETERMINATION ACCURACY
ST 3640.5 SR 369.9 SS 1234.3
CRT -.9092 CRS .8811 CST -.9979
LSA 3858.0 MSA 172.3 SSA 16.4
EL1 3656.1 EL2 153.3 ALF 174.71

LAUNCH DATE JUN 8 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 25 1967

HELIOCENTRIC CONIC DISTANCE 565.661
RL 151.84 LAL -.00 LOL 256.54 VL 26.257 GAL 6.58 AZL 93.39 HCA 267.69 SMA 125.37 ECC .23903 INC 3.3945 V1 29.341
RP 107.59 LAP 3.39 LOP 164.22 VP 37.529 GAP 11.21 AZP 89.86 TAL 157.94 TAP 65.62 RCA 95.40 APO 155.34 V2 35.221
RC 152.696 GL -19.66 GP .04 ZAL 52.55 ZAP 167.47 ETS 359.57 ZAE 126.29 ETE 180.48 ZAC 88.68 ETC 13.62 CLP-167.47
PLANETOCENTRIC CONIC
C3 21.077 VHL 4.591 DLA -28.51 RAL 196.87 RAD 6567.9 VEL 11.936 PTH 2.12 VHP 7.340 DPA 4.39 RAP 178.38 ECC 1.3469

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
86.55	12 55 43	998.79	19.44	331.99	66.31	111.27	13 12 22	398.8	22.16	324.36
93.45	13 53 40	811.06	19.46	318.25	66.32	111.26	14 7 11	211.1	22.18	310.62
100.00	13 29 47	888.17	13.31	321.05	63.45	117.01	13 44 35	288.2	16.83	314.02
100.00	16 2 16	5684.95	25.83	267.95	68.62	105.59	17 37 1	5084.9	27.72	259.65
110.00	13 27 6	896.62	6.93	317.90	59.67	123.56	13 42 3	296.6	11.29	311.53
110.00	18 21 27	5249.27	33.05	236.70	70.45	99.28	19 48 56	4649.3	33.98	227.59

DIFFERENTIAL CORRECTIONS
TDE-2.7281 TRA 2.8061 TC3-3.5075 BAU .9890
RDE .3043 RRA .0893 RC3 -.1313 FAU .02670
FDE-1.3839 FRA 1.7162 FC3-1.0969 BSP 19649
BDE 2.7450 BRA 2.8075 BC3 3.5100 FSP -918

MID-COURSE EXECUTION ACCURACY
SGT 6151.9 SGR 418.1 SG3 272.4
RRT -.1552 RRF -.1709 RTF .9713
SGB 6166.1 R23 .0198 R13 -.9713
SG1 6152.3 SG2 413.0 THA 179.39

ORBIT DETERMINATION ACCURACY
ST 3609.8 SR 381.6 SS 1189.6
CRT -.9052 CRS .8771 CST -.9980
LSA 3815.6 MSA 178.0 SSA 16.0
EL1 3626.3 EL2 161.5 ALF 174.52

LAUNCH DATE JUN 8 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 27 1967

HELIOCENTRIC CONIC DISTANCE 571.244
RL 151.84 LAL -.00 LOL 256.54 VL 26.224 GAL 7.12 AZL 93.39 HCA 270.93 SMA 125.17 ECC .24518 INC 3.3940 V1 29.341
RP 107.62 LAP 3.39 LOP 167.47 VP 37.499 GAP 11.72 AZP 90.06 TAL 156.74 TAP 67.67 RCA 94.48 APO 155.85 V2 35.214
RC 154.762 GL -18.78 GP .04 ZAL 50.64 ZAP 168.63 ETS 359.46 ZAE 126.01 ETE 180.48 ZAC 86.66 ETC 13.52 CLP-168.63
PLANETOCENTRIC CONIC
C3 22.899 VHL 4.785 DLA -28.40 RAL 199.09 RAD 6567.9 VEL 12.012 PTH 2.14 VHP 7.626 DPA 3.53 RAP 180.29 ECC 1.3769

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
87.72	13 14 17	987.32	18.88	330.91	69.84	111.62	13 30 44	387.3	21.65	323.33
92.28	13 52 45	862.63	18.89	321.79	69.85	111.61	14 7 8	262.6	21.66	314.21
100.00	13 35 42	917.76	12.39	322.76	66.77	117.42	13 51 0	317.8	15.97	315.80
100.00	16 14 0	5695.45	25.64	268.67	72.33	105.92	17 48 56	5095.5	27.57	260.40
110.00	13 34 34	921.35	6.00	319.21	62.95	123.72	13 49 55	321.3	10.39	312.87
110.00	18 31 38	5264.63	32.87	237.87	74.23	99.95	19 59 23	4664.6	33.90	228.78

DIFFERENTIAL CORRECTIONS
TDE-2.7925 TRA 3.0738 TC3-3.2394 BAU .9923
RDE .3262 RRA .0847 RC3 -.1145 FAU .02413
FDE-1.3271 FRA 1.7406 FC3 -.9124 BSP 19828
BDE 2.8115 BRA 3.0750 BC3 3.2415 FSP -873

MID-COURSE EXECUTION ACCURACY
SGT 6188.5 SGR 421.7 SG3 257.8
RRT -.1853 RRF -.2001 RTF .9713
SGB 6202.8 R23 .0196 R13 -.9713
SG1 6189.0 SG2 414.4 THA 179.27

ORBIT DETERMINATION ACCURACY
ST 3572.6 SR 392.1 SS 1147.1
CRT -.9010 CRS .8730 CST -.9981
LSA 3768.2 MSA 183.7 SSA 15.5
EL1 3590.1 EL2 169.3 ALF 174.34

LAUNCH DATE JUN 8 1967 FLIGHT TIME 204.00 ARRIVAL DATE DEC 29 1967

HELIOCENTRIC CONIC DISTANCE 576.763
RL 151.84 LAL -.00 LOL 256.54 VL 26.191 GAL 7.70 AZL 93.39 HCA 274.17 SMA 124.96 ECC .25181 INC 3.3935 V1 29.341
RP 107.64 LAP 3.38 LOP 170.71 VP 37.468 GAP 12.26 AZP 90.25 TAL 155.55 TAP 69.71 RCA 93.50 APO 156.43 V2 35.205
RC 156.813 GL -17.91 GP .04 ZAL 48.78 ZAP 169.76 ETS 359.36 ZAE 125.74 ETE 180.47 ZAC 84.62 ETC 13.43 CLP-169.76
PLANETOCENTRIC CONIC
C3 24.971 VHL 4.997 DLA -28.26 RAL 201.23 RAD 6568.0 VEL 12.097 PTH 2.17 VHP 7.928 DPA 2.66 RAP 182.21 ECC 1.4110

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 26 5	998.14	16.94	330.87	72.80	113.04	13 42 41	398.1	19.91	323.46
90.00	13 58 6	894.22	19.59	324.39	73.92	110.87	14 13 0	294.2	22.25	316.73
100.00	13 40 34	951.11	11.34	324.68	70.05	117.84	13 56 26	351.1	14.98	317.78
100.00	16 26 15	5704.53	25.47	269.29	76.05	106.21	18 1 20	5104.5	27.44	261.04
110.00	13 41 20	948.70	4.96	320.65	66.21	123.86	13 57 9	348.7	9.38	314.34
110.00	18 41 59	5279.70	32.69	239.01	78.02	100.60	20 9 58	4679.7	33.81	229.95

DIFFERENTIAL CORRECTIONS
TDE-2.8568 TRA 3.3586 TC3-2.9737 BAU .9933
RDE .3488 RRA .0786 RC3 -.0989 FAU .02170
FDE-1.2742 FRA 1.7663 FC3 -.7522 BSP 19976
BDE 2.8780 BRA 3.3595 BC3 2.9754 FSP -830

MID-COURSE EXECUTION ACCURACY
SGT 6219.0 SGR 424.5 SG3 244.2
RRT -.2156 RRF -.2291 RTF .9714
SGB 6233.5 R23 .0192 R13 -.9714
SG1 6219.7 SG2 414.5 THA 179.15

ORBIT DETERMINATION ACCURACY
ST 3529.6 SR 401.1 SS 1106.8
CRT -.8967 CRS .8688 CST -.9981
LSA 3715.9 MSA 189.4 SSA 15.1
EL1 3547.9 EL2 176.7 ALF 174.17

LAUNCH DATE JUN 8 1967 FLIGHT TIME 206.00 ARRIVAL DATE DEC 31 1967

DISTANCE 582.211

HELIOCENTRIC CONIC
RL 151.84 LAL -.00 LOL 256.54 VL 26.159 GAL 8.32 AZL 93.39 HCA 277.40 SMA 124.76 ECC .25897 INC 3.3930 V1 29.341
RP 107.67 LAP 3.36 LOP 173.95 VP 37.437 GAP 12.82 AZP 90.44 TAL 154.36 TAP 71.77 RCA 92.45 APO 157.07 V2 35.197
RC 158.850 GL -17.04 GP .04 ZAL 46.99 ZAP 170.88 ETS 359.25 ZAE 125.47 ETE 180.46 ZAC 82.56 ETC 13.37 CLP-170.88

PLANETOCENTRIC CONIC
C3 27.331 VHL 5.228 DLA -28.08 RAL 203.30 RAD 6568.1 VEL 12.195 PTH 2.19 VHP 8.248 DPA 1.79 RAP 184.14 ECC 1.4498

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 18 22	1072.33	14.91	335.37	75.68	114.36	13 36 14	472.3	18.07	328.12
90.00	14 22 18	864.75	20.29	322.52	77.99	110.19	14 36 43	264.8	22.86	314.78
100.00	13 44 32	987.70	10.17	326.76	73.28	118.26	14 1 0	387.7	13.87	319.93
100.00	16 38 50	5712.66	25.31	269.84	79.79	106.46	18 14 2	5112.7	27.32	261.62
110.00	13 47 27	978.52	3.83	322.21	69.43	123.99	14 3 46	378.5	8.27	315.94
110.00	18 52 24	5294.60	32.50	240.13	81.82	101.23	20 20 38	4694.6	33.70	231.10

DIFFERENTIAL CORRECTIONS
TDE-2.9181 TRA 3.6648 TC3-2.7069 BAU .9896
RDE .3720 RRA .0708 RC3 -.0845 FAU .01928
FDE-1.2231 FRA 1.7952 FC3 -.6106 BSP 20022
BDE 2.9418 BRA 3.6655 BC3 2.7082 FSP -784

MID-COURSE EXECUTION ACCURACY
SGT 6242.1 SGR 426.4 SG3 231.5
RRT -.2455 RRF -.2574 RTF .9715
SGB 6256.6 R23 .0183 R13 -.9715
SG1 6243.0 SG2 413.3 THA 179.03

ORBIT DETERMINATION ACCURACY
ST 3478.6 SR 408.6 SS 1067.8
CRT -.8919 CRS .8639 CST -.9982
LSA 3656.4 MSA 195.1 SSA 14.7
EL1 3497.7 EL2 183.8 ALF 174.00

LAUNCH DATE JUN 8 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 2 1968

DISTANCE 587.578

HELIOCENTRIC CONIC
RL 151.84 LAL -.08 LOL 256.54 VL 26.126 GAL 8.97 AZL 93.39 HCA 280.64 SMA 124.56 ECC .26673 INC 3.3925 V1 29.341
RP 107.70 LAP 3.33 LOP 177.20 VP 37.405 GAP 13.41 AZP 90.63 TAL 153.19 TAP 73.83 RCA 91.34 APO 157.78 V2 35.187
RC 160.871 GL -16.18 GP .03 ZAL 45.25 ZAP 171.98 ETS 359.16 ZAE 125.22 ETE 180.44 ZAC 80.50 ETC 13.33 CLP-171.98

PLANETOCENTRIC CONIC
C3 30.024 VHL 5.479 DLA -27.88 RAL 205.30 RAD 6568.2 VEL 12.304 PTH 2.22 VHP 8.589 DPA .91 RAP 186.08 ECC 1.4941

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 14 30	1134.39	13.13	339.06	78.66	115.31	13 33 24	534.4	16.44	331.94
90.00	14 42 6	849.64	20.64	321.55	81.92	109.82	14 56 15	249.6	23.16	313.78
100.00	13 47 42	1027.04	8.89	328.98	76.46	118.66	14 4 49	427.0	12.65	322.21
100.00	16 51 35	5720.26	25.16	270.36	83.54	106.69	18 26 55	5120.3	27.21	262.15
110.00	13 52 55	1010.62	2.61	323.89	72.61	124.10	14 9 46	410.6	7.06	317.64
110.00	19 2 50	5309.45	32.30	241.24	85.61	101.86	20 31 20	4709.4	33.59	232.24

DIFFERENTIAL CORRECTIONS
TDE-2.9854 TRA 3.9857 TC3-2.4541 BAU .9855
RDE .3960 RRA .0614 RC3 -.0713 FAU .01710
FDE-1.1790 FRA 1.8230 FC3 -.4931 BSP 20155
BDE 3.0115 BRA 3.9862 BC3 2.4551 FSP -747

MID-COURSE EXECUTION ACCURACY
SGT 6261.6 SGR 427.6 SG3 219.6
RRT -.2763 RRF -.2866 RTF .9718
SGB 6276.2 R23 .0176 R13 -.9719
SG1 6262.7 SG2 410.9 THA 178.91

ORBIT DETERMINATION ACCURACY
ST 3428.2 SR 414.6 SS 1033.3
CRT -.8875 CRS .8597 CST -.9983
LSA 3598.8 MSA 200.0 SSA 14.3
EL1 3447.9 EL2 190.0 ALF 173.85

LAUNCH DATE JUN 8 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 4 1968

DISTANCE 592.852

HELIOCENTRIC CONIC
RL 151.84 LAL -.00 LOL 256.54 VL 26.093 GAL 9.67 AZL 93.39 HCA 283.87 SMA 124.36 ECC .27514 INC 3.3919 V1 29.341
RP 107.73 LAP 3.29 LOP 180.43 VP 37.373 GAP 14.04 AZP 90.81 TAL 152.03 TAP 75.90 RCA 90.14 APO 158.58 V2 35.178
RC 162.878 GL -15.34 GP .03 ZAL 43.59 ZAP 173.08 ETS 359.07 ZAE 124.96 ETE 180.42 ZAC 78.42 ETC 13.31 CLP-173.08

PLANETOCENTRIC CONIC
C3 33.103 VHL 5.753 DLA -27.64 RAL 207.21 RAD 6568.3 VEL 12.429 PTH 2.25 VHP 8.953 DPA .02 RAP 188.03 ECC 1.5448

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 11 45	1192.93	11.40	342.49	81.65	116.09	13 31 38	592.9	14.82	335.48
90.00	15 0 6	840.20	20.86	320.94	85.79	109.60	15 14 6	240.2	23.34	313.15
100.00	13 50 11	1068.71	7.52	331.32	79.59	119.02	14 7 59	468.7	11.34	324.61
100.00	17 4 21	5727.68	25.02	270.86	87.28	106.92	18 39 49	5127.7	27.10	262.68
110.00	13 57 47	1044.83	1.30	325.68	75.76	124.16	14 15 12	444.8	5.77	319.45
110.00	19 13 14	5324.34	32.08	242.34	89.38	102.49	20 41 59	4724.3	33.47	233.39

DIFFERENTIAL CORRECTIONS
TDE-3.0547 TRA 4.3272 TC3-2.2099 BAU .9783
RDE .4204 RRA .0502 RC3 -.0595 FAU .01503
FDE-1.1386 FRA 1.8528 FC3 -.3930 BSP 20277
BDE 3.0835 BRA 4.3275 BC3 2.2107 FSP -712

MID-COURSE EXECUTION ACCURACY
SGT 6275.6 SGR 428.0 SG3 208.6
RRT -.3071 RRF -.3157 RTF .9723
SGB 6290.2 R23 .0166 R13 -.9723
SG1 6277.0 SG2 407.2 THA 178.80

ORBIT DETERMINATION ACCURACY
ST 3374.8 SR 419.0 SS 1001.5
CRT -.8831 CRS .8555 CST -.9983
LSA 3539.2 MSA 204.4 SSA 13.8
EL1 3395.1 EL2 195.5 ALF 173.72

LAUNCH DATE JUN 8 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 6 1968

DISTANCE 598.019

HELIOCENTRIC CONIC
RL 151.84 LAL -.00 LOL 256.54 VL 26.061 GAL 10.42 AZL 93.39 HCA 287.10 SMA 124.16 ECC .28429 INC 3.3914 V1 29.341
RP 107.76 LAP 3.24 LOP 183.67 VP 37.341 GAP 14.71 AZP 91.00 TAL 150.89 TAP 78.00 RCA 88.87 APO 159.46 V2 35.167
RC 164.869 GL -14.51 GP .03 ZAL 41.99 ZAP 174.16 ETS 358.99 ZAE 124.70 ETE 180.39 ZAC 76.35 ETC 13.31 CLP-174.16

PLANETOCENTRIC CONIC
C3 36.632 VHL 6.052 DLA -27.38 RAL 209.04 RAD 6568.4 VEL 12.570 PTH 2.28 VHP 9.342 DPA -.87 RAP 189.98 ECC 1.6029

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 9 28	1249.97	9.68	345.79	84.61	116.74	13 30 18	650.0	13.19	338.87
90.00	15 16 57	834.31	20.99	320.56	89.61	109.45	15 30 52	234.3	23.46	312.75
100.00	13 52 4	1112.36	6.07	333.75	82.68	119.32	14 10 36	512.4	9.94	327.09
100.00	17 17 3	5735.19	24.87	271.37	91.00	107.15	18 52 39	5135.2	26.98	263.20
110.00	14 2 3	1080.96	-.08	327.56	78.87	124.18	14 20 4	481.0	4.40	321.35
110.00	19 23 33	5339.35	31.86	243.46	93.14	103.11	20 52 32	4739.3	33.33	234.54

DIFFERENTIAL CORRECTIONS
TDE-3.1259 TRA 4.6918 TC3-1.9737 BAU .9669
RDE .4454 RRA .0370 RC3 -.0491 FAU .01302
FDE-1.1018 FRA 1.8852 FC3 -.3076 BSP 20363
BDE 3.1575 BRA 4.6920 BC3 1.9743 FSP -678

MID-COURSE EXECUTION ACCURACY
SGT 6283.8 SGR 427.6 SG3 198.3
RRT -.3380 RRF -.3447 RTF .9729
SGB 6298.3 R23 .0155 R13 -.9730
SG1 6285.4 SG2 402.3 THA 178.68

ORBIT DETERMINATION ACCURACY
ST 3318.7 SR 421.8 SS 972.5
CRT -.8785 CRS .8513 CST -.9984
LSA 3477.6 MSA 208.2 SSA 13.4
EL1 3339.4 EL2 200.2 ALF 173.61

LAUNCH DATE JUN 8 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 8 1968

HELIOCENTRIC CONIC DISTANCE 603.062
RL 151.84 LAL -.00 LOL 256.54 VL 26.029 GAL 11.23 AZL 93.39 HCA 290.33 SMA 123.97 ECC .29425 INC 3.3908 V1 29.341
RP 107.79 LAP 3.18 LOP 186.91 VP 37.308 GAP 15.43 AZP 91.18 TAL 149.78 TAP 80.12 RCA 87.49 APO 160.45 V2 35.156
RC 166.846 GL -13.69 GP .03 ZAL 40.47 ZAP 175.25 ETS 358.94 ZAE 124.44 ETE 180.36 ZAC 74.28 ETC 13.33 CLP-175.25
PLANETOCENTRIC CONIC
C3 40.689 VHL 6.379 DLA -27.10 RAL 210.78 RAD 6568.6 VEL 12.730 PTH 2.31 VHP 9.761 DPA -1.76 RAP 191.93 ECC 1.6696

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 7 24	1306.30	7.93	349.01	87.55	117.27	13 29 10	706.3	11.53	342.18
90.00	15 32 55	831.05	21.07	320.35	93.38	109.37	15 46 46	231.1	23.52	312.54
100.00	13 53 25	1157.66	4.56	336.26	85.71	119.57	14 12 42	557.7	8.46	329.65
100.00	17 29 35	5742.97	24.71	271.89	94.70	107.38	19 5 18	5143.0	26.85	263.75
110.00	14 5 46	1118.85	-1.53	329.54	81.93	124.15	14 24 25	518.8	2.96	323.34
110.00	19 33 43	5354.54	31.62	244.58	96.87	103.73	21 2 57	4754.5	33.18	235.70

DIFFERENTIAL CORRECTIONS
TOE-3.2009 TRA 5.0809 TC3-1.7481 BAU .9512
RDE .4707 RRA .0218 RC3 -.0401 FAU .01108
FDE-1.0687 FRA 1.9203 FC3 -.2358 BSP 20435
BDE 3.2354 BRA 5.0809 BC3 1.7486 FSP -645

MID-COURSE EXECUTION ACCURACY
SGT 6286.7 SGR 426.5 SG3 188.6
RRT -.3688 RRF -.3737 RTF .9737
SGB 6301.2 R23 .0141 R13 -.9737
SG1 6288.7 SG2 396.3 THA 178.56

ORBIT DETERMINATION ACCURACY
ST 3261.3 SR 422.9 SS 946.5
CRT -.8741 CRS .8472 CST -.9985
LSA 3415.6 MSA 211.3 SSA 13.0
EL1 3282.3 EL2 204.1 ALF 173.51

LAUNCH DATE JUN 8 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 10 1968

HELIOCENTRIC CONIC DISTANCE 607.961
RL 151.84 LAL -.00 LOL 256.54 VL 25.997 GAL 12.10 AZL 93.39 HCA 293.56 SMA 123.78 ECC .30513 INC 3.3902 V1 29.341
RP 107.83 LAP 3.11 LOP 190.14 VP 37.275 GAP 16.20 AZP 91.36 TAL 148.70 TAP 82.27 RCA 86.01 APO 161.55 V2 35.145
RC 168.808 GL -12.90 GP .03 ZAL 39.02 ZAP 176.34 ETS 358.94 ZAE 124.17 ETE 180.33 ZAC 72.21 ETC 13.38 CLP-176.34
PLANETOCENTRIC CONIC
C3 45.369 VHL 6.736 DLA -26.80 RAL 212.43 RAD 6568.7 VEL 12.913 PTH 2.35 VHP 10.214 DPA -2.64 RAP 193.88 ECC 1.7467

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 5 23	1362.30	6.17	352.18	90.45	117.69	13 28 5	762.3	9.83	345.42
90.00	15 48 5	829.91	21.09	320.28	97.11	109.34	16 1 55	229.9	23.54	312.46
100.00	13 54 17	1204.37	2.98	338.83	88.70	119.76	14 14 21	604.4	6.92	332.26
100.00	17 41 53	5751.11	24.54	272.44	98.36	107.62	19 17 44	5151.1	26.72	264.32
110.00	14 8 57	1158.31	-3.04	331.60	84.95	124.06	14 28 15	558.3	1.45	325.40
110.00	19 43 42	5369.93	31.36	245.70	100.57	104.35	21 13 12	4769.9	33.01	236.87

DIFFERENTIAL CORRECTIONS
TOE-3.2774 TRA 5.4998 TC3-1.5311 BAU .9289
RDE .4964 RRA .0042 RC3 -.0326 FAU .00916
FDE-1.0382 FRA 1.9597 FC3 -.1747 BSP 20415
BDE 3.3148 BRA 5.4998 BC3 1.5315 FSP -612

MID-COURSE EXECUTION ACCURACY
SGT 6284.6 SGR 424.6 SG3 179.6
RRT -.3994 RRF -.4023 RTF .9746
SGB 6298.9 R23 .0126 R13 -.9747
SG1 6286.9 SG2 389.1 THA 178.45

ORBIT DETERMINATION ACCURACY
ST 3201.3 SR 422.3 SS 922.9
CRT -.8694 CRS .8429 CST -.9986
LSA 3351.5 MSA 213.7 SSA 12.6
EL1 3222.4 EL2 207.3 ALF 173.43

LAUNCH DATE JUN 8 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 12 1968

HELIOCENTRIC CONIC DISTANCE 612.689
RL 151.84 LAL -.00 LOL 256.54 VL 25.965 GAL 13.04 AZL 93.39 HCA 296.79 SMA 123.59 ECC .31705 INC 3.3896 V1 29.341
RP 107.86 LAP 3.03 LOP 193.37 VP 37.243 GAP 17.02 AZP 91.53 TAL 147.67 TAP 84.45 RCA 84.41 APO 162.77 V2 35.134
RC 170.755 GL -12.11 GP .03 ZAL 37.66 ZAP 177.44 ETS 359.03 ZAE 123.88 ETE 180.30 ZAC 70.16 ETC 13.46 CLP-177.44
PLANETOCENTRIC CONIC
C3 50.788 VHL 7.127 DLA -26.47 RAL 213.98 RAD 6568.9 VEL 13.121 PTH 2.40 VHP 10.704 DPA -3.51 RAP 195.82 ECC 1.8358

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 3 19	1418.17	4.40	355.33	93.31	118.00	13 26 57	818.2	8.11	348.62
90.00	16 2 34	830.48	21.08	320.31	100.78	109.36	16 16 24	230.5	23.53	312.50
100.00	13 54 41	1252.26	1.36	341.46	91.63	119.86	14 15 33	652.3	5.33	334.92
100.00	17 53 53	5759.66	24.37	273.01	101.98	107.87	19 29 52	5159.7	26.58	264.91
110.00	14 11 36	1199.18	-4.59	333.74	87.93	123.91	14 31 35	599.2	-.11	327.53
110.00	19 53 27	5385.51	31.09	246.84	104.22	104.98	21 23 13	4785.5	32.83	238.05

DIFFERENTIAL CORRECTIONS
TOE-3.3637 TRA 5.9444 TC3-1.3293 BAU .9028
RDE .5225 RRA -.0156 RC3 -.0262 FAU .00735
FDE-1.0133 FRA 2.0013 FC3 -.1253 BSP 20479
BDE 3.4040 BRA 5.9444 BC3 1.3296 FSP -584

MID-COURSE EXECUTION ACCURACY
SGT 6277.4 SGR 422.0 SG3 171.2
RRT -.4304 RRF -.4314 RTF .9758
SGB 6291.6 R23 .0110 R13 -.9758
SG1 6280.1 SG2 380.8 THA 178.34

ORBIT DETERMINATION ACCURACY
ST 3143.5 SR 420.1 SS 903.5
CRT -.8653 CRS .8393 CST -.9987
LSA 3290.6 MSA 215.0 SSA 12.2
EL1 3164.6 EL2 209.2 ALF 173.37

LAUNCH DATE JUN 8 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 14 1968

HELIOCENTRIC CONIC DISTANCE 617.215
RL 151.84 LAL -.00 LOL 256.54 VL 25.935 GAL 14.06 AZL 93.39 HCA 300.01 SMA 123.41 ECC .33015 INC 3.3889 V1 29.341
RP 107.90 LAP 2.93 LOP 196.59 VP 37.210 GAP 17.92 AZP 91.70 TAL 146.68 TAP 86.69 RCA 82.66 APO 164.15 V2 35.122
RC 172.686 GL -11.35 GP .03 ZAL 36.37 ZAP 178.56 ETS 359.44 ZAE 123.56 ETE 180.26 ZAC 68.12 ETC 13.56 CLP-178.56
PLANETOCENTRIC CONIC
C3 57.089 VHL 7.556 DLA -26.12 RAL 215.44 RAD 6569.0 VEL 13.358 PTH 2.44 VHP 11.238 DPA -4.38 RAP 197.75 ECC 1.9395

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 1 8	1474.00	2.61	358.45	96.12	118.21	13 25 42	874.0	6.36	351.78
90.00	16 16 23	832.47	21.03	320.44	104.38	109.41	16 30 16	232.5	23.49	312.63
100.00	13 54 39	1301.15	-.30	344.15	94.51	119.89	14 16 20	701.2	3.68	337.62
100.00	18 5 33	5768.59	24.18	273.61	105.54	108.13	19 41 42	5168.6	26.43	265.53
110.00	14 13 44	1241.29	-6.19	335.96	90.86	123.69	14 34 25	641.3	-1.72	329.72
110.00	20 2 58	5401.22	30.81	247.98	107.80	105.59	21 32 59	4801.2	32.64	239.23

DIFFERENTIAL CORRECTIONS
TOE-3.4565 TRA 6.4225 TC3-1.1390 BAU .8694
RDE .5490 RRA -.0379 RC3 -.0211 FAU .00557
FDE -.9921 FRA 2.0475 FC3 -.0844 BSP 20510
BDE 3.4998 BRA 6.4226 BC3 1.1392 FSP -558

MID-COURSE EXECUTION ACCURACY
SGT 6265.5 SGR 418.7 SG3 163.3
RRT -.4613 RRF -.4606 RTF .9771
SGB 6279.5 R23 .0093 R13 -.9771
SG1 6268.5 SG2 371.4 THA 178.23

ORBIT DETERMINATION ACCURACY
ST 3085.6 SR 416.4 SS 887.4
CRT -.8614 CRS .8361 CST -.9988
LSA 3230.4 MSA 215.4 SSA 11.7
EL1 3106.5 EL2 210.1 ALF 173.34

LAUNCH DATE JUN 9 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 18 1967

DISTANCE 153.689

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 21.382 GAL 4.00 AZL 93.43 HCA 59.56 SMA 102.83 ECC .48077 INC 3.4319 V1 29.337
RP 108.94 LAP -2.96 LOP 317.01 VP 33.850 GAP -28.55 AZP 91.74 TAL 175.66 TAP 235.22 RCA 53.39 APO 152.27 V2 34.785
RC 46.068 GL -8.91 GP -.13 ZAL 81.07 ZAP 17.37 ETS 180.28 ZAE 167.19 ETE 127.23 ZAC 110.34 ETC 15.85 CLP 17.36

PLANETOCENTRIC CONIC
C3 67.992 VHL 8.246 DLA -6.80 RAL 173.27 RAD 6569.3 VEL 13.760 PTH 2.51 VHP 16.925 DPA 12.87 RAP 157.46 ECC 2.1190

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 38 35	2305.27	-21.66	47.31	53.54	108.70	7 17 0	1705.3	-18.91	39.72
90.00	16 54 39	5373.77	27.85	245.67	59.16	84.65	18 24 13	4773.8	26.81	237.15
100.00	7 56 41	2053.33	-23.06	28.26	53.01	109.57	8 30 54	1453.3	-20.18	20.65
100.00	18 19 14	5100.95	29.32	225.43	58.99	83.90	19 44 15	4500.9	28.16	216.82
110.00	8 57 30	1862.88	-26.80	12.24	51.44	112.05	9 28 33	1262.9	-23.57	4.56
110.00	19 34 54	4864.16	33.29	206.87	58.40	81.77	20 55 58	4264.2	31.80	197.96

DIFFERENTIAL CORRECTIONS
TOE .4588 TRA-1.0372 TC3 -.0362 BAU .0603
RDE -.5598 RRA -.2637 RC3 .0555 FAU .01708
FDE -.3157 FRA .4280 FC3 -.2175 BSP 2114
BDE .7238 BRA 1.0702 BC3 .0663 FSP -96

MID-COURSE EXECUTION ACCURACY
SGT 795.0 SGR 440.2 SG3 44.6
RRT .0127 RRF -.0121 RTF -.6479
SGB 908.7 R23 -.0003 R13 -.6479
SG1 795.0 SG2 440.1 THA .58

ORBIT DETERMINATION ACCURACY
ST 386.1 SR 392.9 SS 347.0
CRT -.7381 CRS -.8615 CST .9767
LSA 617.9 MSA 204.8 SSA 14.3
EL1 513.5 EL2 199.3 ALF 134.32

LAUNCH DATE JUN 9 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 20 1967

DISTANCE 160.115

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 21.864 GAL 3.78 AZL 93.43 HCA 62.72 SMA 104.52 ECC .45677 INC 3.4272 V1 29.337
RP 108.93 LAP -3.05 LOP 320.17 VP 34.159 GAP -27.08 AZP 91.57 TAL 175.48 TAP 238.20 RCA 56.78 APO 152.26 V2 34.787
RC 45.125 GL -9.66 GP -.14 ZAL 80.87 ZAP 15.74 ETS 180.13 ZAE 168.13 ETE 117.08 ZAC 108.86 ETC 15.62 CLP 15.74

PLANETOCENTRIC CONIC
C3 60.357 VHL 7.769 DLA -7.58 RAL 173.17 RAD 6569.1 VEL 13.480 PTH 2.46 VHP 16.117 DPA 12.31 RAP 158.93 ECC 1.9933

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 44 10	2251.83	-20.45	43.85	51.26	110.02	7 21 42	1651.8	-17.54	36.39
90.00	16 48 12	5369.88	27.82	245.39	57.24	84.51	18 17 42	4769.9	26.77	236.88
100.00	8 1 52	2001.16	-21.83	24.87	50.71	110.95	8 35 13	1401.2	-18.78	17.40
100.00	18 13 11	5095.78	29.28	225.05	57.07	83.70	19 38 7	4495.8	28.10	216.45
110.00	9 1 48	1813.51	-25.50	8.99	49.07	113.58	9 32 1	1213.5	-22.09	1.50
110.00	19 29 44	4856.20	33.22	206.26	56.47	81.42	20 50 41	4256.2	31.67	197.38

DIFFERENTIAL CORRECTIONS
TOE .4593 TRA-1.0184 TC3 -.0235 BAU .0544
RDE -.5303 RRA -.2486 RC3 .0632 FAU .01771
FDE -.3333 FRA .4368 FC3 -.2541 BSP 2261
BDE .7016 BRA 1.0483 BC3 .0674 FSP -107

MID-COURSE EXECUTION ACCURACY
SGT 830.8 SGR 443.6 SG3 49.0
RRT .0111 RRF -.0110 RTF -.6686
SGB 941.8 R23 -.0006 R13 -.6686
SG1 830.8 SG2 443.6 THA .48

ORBIT DETERMINATION ACCURACY
ST 408.0 SR 395.0 SS 368.6
CRT -.7439 CRS -.8673 CST .9762
LSA 644.3 MSA 207.1 SSA 14.6
EL1 530.3 EL2 203.1 ALF 136.24

LAUNCH DATE JUN 9 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 22 1967

DISTANCE 166.590

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 22.311 GAL 3.55 AZL 93.42 HCA 65.88 SMA 106.17 ECC .43400 INC 3.4228 V1 29.337
RP 108.93 LAP -3.12 LOP 323.34 VP 34.449 GAP -25.68 AZP 91.40 TAL 175.35 TAP 241.23 RCA 60.09 APO 152.25 V2 34.790
RC 44.335 GL -10.46 GP -.14 ZAL 80.80 ZAP 14.12 ETS 179.95 ZAE 168.71 ETE 105.04 ZAC 107.37 ETC 15.40 CLP 14.12

PLANETOCENTRIC CONIC
C3 53.663 VHL 7.325 DLA -8.34 RAL 172.94 RAD 6568.9 VEL 13.230 PTH 2.42 VHP 15.342 DPA 11.74 RAP 160.39 ECC 1.8832

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 49 14	2198.43	-19.17	40.46	48.92	111.25	7 25 52	1598.4	-16.12	33.12
90.00	16 41 18	5365.59	27.79	245.07	55.18	84.36	18 10 44	4765.6	26.72	236.57
100.00	8 6 32	1949.05	-20.52	21.55	48.34	112.22	8 39 1	1349.1	-17.33	14.21
100.00	18 6 41	5090.20	29.24	224.65	55.01	83.49	19 31 31	4490.2	28.03	216.05
110.00	9 5 34	1764.21	-24.12	5.83	46.64	114.99	9 34 58	1164.2	-20.55	358.50
110.00	19 24 8	4847.80	33.13	205.62	54.39	81.05	20 44 56	4247.8	31.54	196.76

DIFFERENTIAL CORRECTIONS
TOE .4584 TRA-1.0006 TC3 -.0084 BAU .0518
RDE -.5017 RRA -.2339 RC3 .0717 FAU .01840
FDE -.3518 FRA .4453 FC3 -.2969 BSP 2356
BDE .6796 BRA 1.0276 BC3 .0721 FSP -120

MID-COURSE EXECUTION ACCURACY
SGT 868.6 SGR 446.3 SG3 53.9
RRT .0111 RRF -.0100 RTF -.6865
SGB 976.5 R23 .0003 R13 -.6865
SG1 868.6 SG2 446.3 THA .44

ORBIT DETERMINATION ACCURACY
ST 430.0 SR 396.3 SS 391.1
CRT -.7484 CRS -.8730 CST .9753
LSA 671.4 MSA 209.3 SSA 14.9
EL1 547.0 EL2 206.6 ALF 138.11

LAUNCH DATE JUN 9 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 24 1967

DISTANCE 173.110

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 22.725 GAL 3.31 AZL 93.42 HCA 69.04 SMA 107.78 ECC .41243 INC 3.4185 V1 29.337
RP 108.92 LAP -3.19 LOP 326.50 VP 34.722 GAP -24.35 AZP 91.22 TAL 175.27 TAP 244.31 RCA 63.33 APO 152.23 V2 34.793
RC 43.707 GL -11.28 GP -.15 ZAL 80.84 ZAP 12.50 ETS 179.76 ZAE 168.80 ETE 91.75 ZAC 105.88 ETC 15.19 CLP 12.50

PLANETOCENTRIC CONIC
C3 47.794 VHL 6.913 DLA -9.09 RAL 172.58 RAD 6568.8 VEL 13.006 PTH 2.37 VHP 14.599 DPA 11.17 RAP 161.85 ECC 1.7866

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 53 46	2145.32	-17.83	37.14	46.51	112.37	7 29 31	1545.3	-14.64	29.92
90.00	16 33 57	5361.04	27.76	244.74	52.99	84.19	18 3 18	4761.0	26.67	236.25
100.00	8 10 40	1897.23	-19.15	18.31	45.92	113.40	8 42 17	1297.2	-15.83	11.10
100.00	17 59 44	5084.36	29.19	224.22	52.81	83.27	19 24 29	4484.4	27.95	215.63
110.00	9 8 48	1715.21	-22.68	2.76	44.18	116.29	9 37 23	1115.2	-18.96	355.59
110.00	19 18 6	4839.15	33.03	204.97	52.18	80.67	20 38 45	4239.1	31.39	196.12

DIFFERENTIAL CORRECTIONS
TOE .4603 TRA -.9795 TC3 .0131 BAU .0524
RDE -.4741 RRA -.2196 RC3 .0809 FAU .01919
FDE -.3723 FRA .4526 FC3 -.3476 BSP 2514
BDE .6608 BRA 1.0038 BC3 .0819 FSP -135

MID-COURSE EXECUTION ACCURACY
SGT 906.5 SGR 448.2 SG3 59.3
RRT .0089 RRF -.0082 RTF -.7055
SGB 1011.2 R23 .0001 R13 -.7055
SG1 906.5 SG2 448.2 THA .33

ORBIT DETERMINATION ACCURACY
ST 454.3 SR 396.8 SS 415.3
CRT -.7559 CRS -.8794 CST .9750
LSA 701.4 MSA 210.1 SSA 15.2
EL1 566.0 EL2 208.5 ALF 140.08

LAUNCH DATE JUN 9 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 26 1967

HELIOCENTRIC CONIC DISTANCE 179.669

```
RL  151.86 LAL   -.00 LOL 257.50 VL  23.108 GAL   3.05 AZL  93.41 HCA  72.20 SMA 109.34 ECC .39205 INC 3.4145 V1  29.337
RP  108.90 LAP  -3.25 LOP 329.67 VP  34.978 GAP -23.08 AZP  91.04 TAL 175.24 TAP 247.45 RCA  66.47 APO 152.20 V2  34.797
RC   43.245 GL  -12.15 GP    -.16 ZAL  81.00 ZAP  10.87 ETS 179.52 ZAE 168.34 ETE  78.50 ZAC 104.40 ETC  15.00 CLP  10.87
```

PLANETOCENTRIC CONIC

```
C3  42.650 VHL  6.531 DLA  -9.83 RAL 172.11 RAD 6568.6 VEL 12.807 PTH   2.33 VHP 13.886 DPA  10.59 RAP 163.30 ECC 1.7019
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 57 45	2092.74	-16.44	33.91	44.06	113.39	7 32 38	1492.7	-13.13	26.79
90.00	16 26 9	5356.40	27.73	244.41	50.68	84.03	17 55 26	4756.4	26.61	235.92
100.00	8 14 15	1845.95	-17.74	15.16	43.46	114.46	8 45 1	1245.9	-14.29	8.07
100.00	17 52 21	5078.43	29.14	223.78	50.50	83.04	19 16 59	4478.4	27.88	215.21
110.00	9 11 29	1666.74	-21.18	359.79	41.68	117.48	9 39 16	1066.7	-17.33	352.77
110.00	19 11 36	4830.39	32.94	204.30	49.85	80.29	20 32 7	4230.4	31.25	195.49

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE  .4627 TRA -.9574 TC3  .0392 BAU  .0564   SGT  945.6 SGR  449.2 SG3   65.2     ST   479.8 SR   396.5 SS   440.9
 RDE -.4476 RRA -.2056 RC3  .0909 FAU .02005   RRT  .0064 RRF -.0062 RTF -.7235     CRT -.7641 CRS -.8859 CST  .9748
 FDE -.3944 FRA  .4593 FC3 -.4070 BSP   2665   SGB 1046.9 R23 -.0001 R13 -.7235     LSA  733.1 MSA  210.1 SSA   15.5
 BDE  .6438 BRA  .9792 BC3  .0990 FSP   -151   SG1  945.6 SG2  449.2 THA    .23     EL1  586.2 EL2  209.4 ALF 142.05
```

LAUNCH DATE JUN 9 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 28 1967

HELIOCENTRIC CONIC DISTANCE 186.264

```
RL  151.86 LAL   -.00 LOL 257.50 VL  23.463 GAL   2.80 AZL  93.41 HCA  75.37 SMA 110.84 ECC .37284 INC 3.4106 V1  29.337
RP  108.89 LAP  -3.30 LOP 332.84 VP  35.217 GAP -21.87 AZP  90.86 TAL 175.28 TAP 250.64 RCA  69.52 APO 152.17 V2  34.801
RC   42.956 GL  -13.05 GP    -.17 ZAL  81.29 ZAP   9.23 ETS 179.23 ZAE 167.34 ETE  66.51 ZAC 102.93 ETC  14.82 CLP   9.23
```

PLANETOCENTRIC CONIC

```
C3  38.144 VHL  6.176 DLA -10.55 RAL 171.50 RAD 6568.5 VEL 12.630 PTH   2.29 VHP 13.201 DPA  10.00 RAP 164.73 ECC 1.6277
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 1 11	2040.92	-15.01	30.78	41.57	114.29	7 35 12	1440.9	-11.61	23.75
90.00	16 17 55	5351.83	27.70	244.08	48.27	83.87	17 47 7	4751.8	26.56	235.60
100.00	8 17 16	1795.44	-16.29	12.11	40.95	115.42	8 47 11	1195.4	-12.73	5.13
100.00	17 44 31	5072.54	29.10	223.35	48.08	82.82	19 9 3	4472.5	27.80	214.79
110.00	9 13 36	1619.06	-19.66	356.93	39.15	118.54	9 40 35	1019.1	-15.69	350.05
110.00	19 4 41	4821.70	32.83	203.64	47.42	79.91	20 25 2	4221.7	31.09	194.85

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE  .4660 TRA -.9341 TC3  .0718 BAU  .0634   SGT  985.8 SGR  449.5 SG3   71.8     ST   506.8 SR   395.4 SS   468.1
 RDE -.4222 RRA -.1922 RC3  .1016 FAU .02103   RRT  .0038 RRF -.0039 RTF -.7408     CRT -.7730 CRS -.8926 CST  .9747
 FDE -.4186 FRA  .4651 FC3 -.4772 BSP   2822   SGB 1083.4 R23 -.0004 R13 -.7408     LSA  767.0 MSA  209.3 SSA   15.8
 BDE  .6288 BRA  .9537 BC3  .1244 FSP   -169   SG1  985.8 SG2  449.5 THA    .13     EL1  607.8 EL2  209.1 ALF 143.98
```

LAUNCH DATE JUN 9 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 30 1967

HELIOCENTRIC CONIC DISTANCE 192.888

```
RL  151.86 LAL   -.00 LOL 257.50 VL  23.790 GAL   2.54 AZL  93.41 HCA  78.53 SMA 112.30 ECC .35479 INC 3.4068 V1  29.337
RP  108.87 LAP  -3.34 LOP 336.01 VP  35.442 GAP -20.71 AZP  90.68 TAL 175.36 TAP 253.90 RCA  72.45 APO 152.14 V2  34.806
RC   42.841 GL  -13.98 GP    -.18 ZAL  81.69 ZAP   7.58 ETS 178.85 ZAE 165.92 ETE  56.44 ZAC 101.47 ETC  14.65 CLP   7.58
```

PLANETOCENTRIC CONIC

```
C3  34.199 VHL  5.848 DLA -11.25 RAL 170.77 RAD 6568.3 VEL 12.473 PTH   2.26 VHP 12.543 DPA   9.41 RAP 166.14 ECC 1.5628
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 4 1	1990.16	-13.57	27.75	39.04	115.09	7 37 11	1390.2	-10.07	20.81
90.00	16 9 16	5347.44	27.67	243.76	45.76	83.71	17 38 23	4747.4	26.51	235.29
100.00	8 19 42	1745.99	-14.82	9.17	38.42	116.26	8 48 48	1146.0	-11.17	2.28
100.00	17 36 16	5066.85	29.05	222.94	45.57	82.61	19 0 43	4466.8	27.72	214.38
110.00	9 15 7	1572.41	-18.12	354.19	36.60	119.50	9 41 20	972.4	-14.05	347.43
110.00	18 57 19	4813.19	32.73	203.00	44.90	79.54	20 17 33	4213.2	30.94	194.24

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE  .4693 TRA -.9103 TC3  .1104 BAU  .0722   SGT 1027.1 SGR  448.8 SG3   79.1     ST   534.6 SR   393.5 SS   497.0
 RDE -.3979 RRA -.1792 RC3  .1129 FAU .02211   RRT  .0013 RRF -.0015 RTF -.7569     CRT -.7822 CRS -.8993 CST  .9747
 FDE -.4450 FRA  .4703 FC3 -.5596 BSP   2966   SGB 1120.9 R23 -.0003 R13 -.7569     LSA  802.6 MSA  207.9 SSA   16.1
 BDE  .6153 BRA  .9277 BC3  .1579 FSP   -189   SG1 1027.1 SG2  448.8 THA    .04     EL1  630.4 EL2  207.9 ALF 145.85
```

LAUNCH DATE JUN 9 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 1 1967

HELIOCENTRIC CONIC DISTANCE 199.539

```
RL  151.86 LAL   -.00 LOL 257.50 VL  24.093 GAL   2.28 AZL  93.40 HCA  81.70 SMA 113.69 ECC .33785 INC 3.4030 V1  29.337
RP  108.86 LAP  -3.37 LOP 339.18 VP  35.651 GAP -19.60 AZP  90.49 TAL 175.51 TAP 257.21 RCA  75.28 APO 152.10 V2  34.812
RC   42.900 GL  -14.93 GP    -.19 ZAL  82.22 ZAP   5.91 ETS 178.29 ZAE 164.21 ETE  48.30 ZAC 100.02 ETC  14.49 CLP   5.91
```

PLANETOCENTRIC CONIC

```
C3  30.749 VHL  5.545 DLA -11.92 RAL 169.92 RAD 6568.2 VEL 12.334 PTH   2.22 VHP 11.912 DPA   8.83 RAP 167.54 ECC 1.5060
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 6 15	1940.71	-12.12	24.84	36.48	115.79	7 38 36	1340.7	-8.55	17.97
90.00	16 0 12	5343.33	27.64	243.47	43.18	83.56	17 29 15	4743.3	26.46	235.00
100.00	8 21 31	1697.85	-13.35	6.36	35.85	117.00	8 49 49	1097.8	-9.62	359.55
100.00	17 27 37	5061.43	29.00	222.54	42.99	82.41	18 51 58	4461.4	27.64	214.00
110.00	9 16 3	1527.06	-16.58	351.57	34.03	120.33	9 41 31	927.1	-12.43	344.93
110.00	18 49 34	4804.97	32.63	202.38	42.30	79.19	20 9 39	4205.0	30.79	193.64

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE  .4743 TRA -.8842 TC3  .1569 BAU  .0824   SGT 1068.8 SGR  447.4 SG3   87.3     ST   564.5 SR   390.8 SS   528.1
 RDE -.3747 RRA -.1668 RC3  .1249 FAU .02332   RRT -.0025 RRF  .0017 RTF -.7725     CRT -.7929 CRS -.9064 CST  .9749
 FDE -.4744 FRA  .4741 FC3 -.6567 BSP   3139   SGB 1158.6 R23  .0006 R13  .7725     LSA  841.3 MSA  205.4 SSA   16.4
 BDE  .6044 BRA  .8998 BC3  .2005 FSP   -212   SG1 1068.8 SG2  447.4 THA 179.93     EL1  655.2 EL2  205.2 ALF 147.68
```

LAUNCH DATE JUN 9 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 3 1967

HELIOCENTRIC CONIC DISTANCE 206.210

RL	151.86	LAL	-.00	LOL	257.50	VL	24.373	GAL	2.03	AZL	93.40	HCA	84.87	SMA	115.03	ECC	.32201	INC	3.3994	V1	29.337
RP	108.84	LAP	-3.39	LOP	342.35	VP	35.847	GAP	-18.54	AZP	90.30	TAL	175.71	TAP	260.58	RCA	77.99	APO	152.07	V2	34.819
RC	43.133	GL	-15.92	GP	-.20	ZAL	82.86	ZAP	4.22	ETS	177.34	ZAE	162.32	ETE	41.82	ZAC	98.59	ETC	14.35	CLP	4.22

PLANETOCENTRIC CONIC

C3	27.735	VHL	5.266	DLA	-12.58	RAL	168.94	RAD	6568.1	VEL	12.211	PTH	2.19	VHP	11.305	DPA	8.24	RAP	168.91	ECC	1.4564

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 7 52	1892.85	-10.69	22.05	33.90	116.38	7 39 25	1292.9	-7.06	15.25
90.00	15 50 47	5339.57	27.61	243.19	40.53	83.43	17 19 46	4739.6	26.41	234.73
100.00	8 22 44	1651.30	-11.90	3.66	33.27	117.63	8 50 16	1051.3	-8.10	356.93
100.00	17 18 36	5056.36	28.95	222.17	40.34	82.22	18 42 52	4456.4	27.57	213.64
110.00	9 16 23	1483.28	-15.06	349.09	31.45	121.06	9 41 7	883.3	-10.83	342.54
110.00	18 41 26	4797.15	32.53	201.79	39.64	78.86	20 1 23	4197.1	30.65	193.08

DIFFERENTIAL CORRECTIONS

TDE	.4792	TRA	-.8575	TC3	.2109	BAU	.0933	SGT	1111.2	SGR	445.0	SG3	96.4	ST	595.0	SR	387.3	SS	561.1
RDE	-.3528	RRA	-.1549	RC3	.1372	FAU	.02468	RRT	-.0059	RRF	.0052	RTF	-.7870	CRT	-.8036	CRS	-.9135	CST	.9751
FDE	-.5067	FRA	.4769	FC3	-.7704	BSP	3286	SGB	1197.0	R23	.0004	R13	.7870	LSA	881.8	MSA	202.5	SSA	16.8
BDE	.5950	BRA	.8714	BC3	.2516	FSP	-237	SG1	1111.2	SG2	445.0	THA	179.84	EL1	680.8	EL2	201.5	ALF	149.42

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

LAUNCH DATE JUN 9 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 5 1967

HELIOCENTRIC CONIC DISTANCE 212.899

RL	151.86	LAL	-.00	LOL	257.50	VL	24.631	GAL	1.78	AZL	93.40	HCA	88.03	SMA	116.30	ECC	.30723	INC	3.3957	V1	29.337
RP	108.81	LAP	-3.39	LOP	345.53	VP	36.030	GAP	-17.52	AZP	90.12	TAL	175.97	TAP	264.00	RCA	80.57	APO	152.03	V2	34.826
RC	43.534	GL	-16.92	GP	-.21	ZAL	83.62	ZAP	2.51	ETS	175.14	ZAE	160.36	ETE	36.65	ZAC	97.20	ETC	14.22	CLP	2.50

PLANETOCENTRIC CONIC

C3	25.105	VHL	5.010	DLA	-13.20	RAL	167.84	RAD	6568.0	VEL	12.103	PTH	2.17	VHP	10.722	DPA	7.66	RAP	170.25	ECC	1.4132

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 8 52	1846.86	-9.28	19.40	31.31	116.87	7 39 39	1246.9	-5.61	12.65
90.00	15 41 3	5336.19	27.58	242.95	37.83	83.31	17 9 59	4736.2	26.37	234.49
100.00	8 23 20	1606.59	-10.47	1.11	30.68	118.16	8 50 6	1006.6	-6.63	354.43
100.00	17 9 16	5051.68	28.91	221.83	37.64	82.04	18 33 28	4451.7	27.51	213.31
110.00	9 16 6	1441.29	-13.57	346.75	28.86	121.68	9 40 8	841.3	-9.28	340.27
110.00	18 32 59	4789.75	32.43	201.24	36.94	78.54	19 52 48	4189.8	30.51	192.55

DIFFERENTIAL CORRECTIONS

TDE	.4848	TRA	-.8298	TC3	.2724	BAU	.1043	SGT	1154.0	SGR	441.8	SG3	106.5	ST	626.8	SR	383.1	SS	596.2
RDE	-.3321	RRA	-.1436	RC3	.1497	FAU	.02620	RRT	-.0101	RRF	.0091	RTF	-.8004	CRT	-.8149	CRS	-.9205	CST	.9755
FDE	-.5426	FRA	.4785	FC3	-.9033	BSP	3445	SGB	1235.6	R23	.0003	R13	.8004	LSA	924.8	MSA	198.9	SSA	17.1
BDE	.5876	BRA	.8421	BC3	.3109	FSP	-267	SG1	1154.0	SG2	441.7	THA	179.74	EL1	707.8	EL2	196.7	ALF	151.08

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

LAUNCH DATE JUN 9 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 7 1967

HELIOCENTRIC CONIC DISTANCE 219.601

RL	151.86	LAL	-.00	LOL	257.50	VL	24.868	GAL	1.54	AZL	93.39	HCA	91.20	SMA	117.51	ECC	.29347	INC	3.3921	V1	29.337
RP	108.79	LAP	-3.39	LOP	348.70	VP	36.200	GAP	-16.54	AZP	89.93	TAL	176.28	TAP	267.49	RCA	83.02	APO	152.00	V2	34.834
RC	44.099	GL	-17.94	GP	-.22	ZAL	84.48	ZAP	.77	ETS	163.17	ZAE	158.41	ETE	32.48	ZAC	95.83	ETC	14.10	CLP	.74

PLANETOCENTRIC CONIC

C3	22.813	VHL	4.776	DLA	-13.79	RAL	166.64	RAD	6567.9	VEL	12.008	PTH	2.14	VHP	10.163	DPA	7.09	RAP	171.55	ECC	1.3755

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 9 13	1803.00	-7.93	16.90	28.71	117.27	7 39 16	1203.0	-4.21	10.19
90.00	15 31 5	5333.17	27.56	242.73	35.10	83.21	16 59 58	4733.2	26.33	234.28
100.00	8 23 17	1564.01	-9.09	358.70	28.08	118.60	8 49 21	964.0	-5.21	352.07
100.00	16 59 41	5047.39	28.87	221.52	34.91	81.88	18 23 49	4447.4	27.44	213.00
110.00	9 15 13	1401.36	-12.13	344.55	26.27	122.21	9 38 34	801.4	-7.79	338.14
110.00	18 24 15	4782.81	32.33	200.72	34.20	78.25	19 43 58	4182.8	30.38	192.05

DIFFERENTIAL CORRECTIONS

TDE	.4910	TRA	-.8009	TC3	.3437	BAU	.1159	SGT	1197.3	SGR	437.6	SG3	117.9	ST	659.6	SR	378.2	SS	633.5
RDE	-.3125	RRA	-.1329	RC3	.1623	FAU	.02793	RRT	-.0144	RRF	.0132	RTF	-.8134	CRT	-.8265	CRS	-.9275	CST	.9760
FDE	-.5824	FRA	.4791	FC3	-1.0599	BSP	3613	SGB	1274.7	R23	.0004	R13	.8134	LSA	970.1	MSA	194.8	SSA	17.4
BDE	.5820	BRA	.8119	BC3	.3801	FSP	-300	SG1	1197.3	SG2	437.6	THA	179.65	EL1	736.0	EL2	190.8	ALF	152.66

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

LAUNCH DATE JUN 9 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 9 1967

HELIOCENTRIC CONIC DISTANCE 226.312

RL	151.86	LAL	-.00	LOL	257.50	VL	25.087	GAL	1.31	AZL	93.39	HCA	94.37	SMA	118.66	ECC	.28070	INC	3.3885	V1	29.337
RP	108.76	LAP	-3.38	LOP	351.88	VP	36.359	GAP	-15.60	AZP	89.74	TAL	176.65	TAP	271.02	RCA	85.35	APO	151.96	V2	34.842
RC	44.820	GL	-18.96	GP	-.24	ZAL	85.45	ZAP	1.08	ETS	12.39	ZAE	156.51	ETE	29.07	ZAC	94.50	ETC	13.99	CLP	-1.05

PLANETOCENTRIC CONIC

C3	20.820	VHL	4.563	DLA	-14.34	RAL	165.33	RAD	6567.8	VEL	11.925	PTH	2.12	VHP	9.626	DPA	6.53	RAP	172.81	ECC	1.3426

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 8 56	1761.53	-6.62	14.54	26.11	117.59	7 38 17	1161.5	-2.88	7.87
90.00	15 20 56	5330.48	27.53	242.54	32.35	83.11	16 49 47	4730.5	26.29	234.09
100.00	8 22 37	1523.77	-7.78	356.44	25.48	118.95	8 48 1	923.8	-3.85	349.85
100.00	16 49 56	5043.46	28.83	221.23	32.16	81.74	18 14 0	4443.5	27.39	212.73
110.00	9 13 44	1363.68	-10.75	342.50	23.69	122.64	9 36 27	763.7	-6.37	336.14
110.00	18 15 19	4776.32	32.24	200.24	31.45	77.98	19 34 55	4176.3	30.25	191.59

DIFFERENTIAL CORRECTIONS

TDE	.4977	TRA	-.7700	TC3	.4226	BAU	.1273	SGT	1239.0	SGR	432.6	SG3	130.6	ST	693.1	SR	372.5	SS	673.2
RDE	-.2942	RRA	-.1228	RC3	.1745	FAU	.02985	RRT	-.0199	RRF	.0180	RTF	-.8257	CRT	-.8387	CRS	-.9343	CST	.9767
FDE	-.6268	FRA	.4779	FC3	-1.2413	BSP	3774	SGB	1312.4	R23	.0007	R13	.8257	LSA	1017.8	MSA	190.1	SSA	17.7
BDE	.5782	BRA	.7797	BC3	.4572	FSP	-336	SG1	1239.1	SG2	432.5	THA	179.55	EL1	765.1	EL2	183.8	ALF	154.13

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

LAUNCH DATE JUN 9 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 11 1967

HELIOCENTRIC CONIC DISTANCE 233.029

RL 151.86 LAL -.00 LOL 257.50 VL 25.288 GAL 1.08 AZL 93.38 HCA 97.55 SMA 119.74 ECC .26888 INC 3.3848 V1 29.337
RP 108.71 LAP -3.36 LOP 355.06 VP 36.506 GAP -14.70 AZP 89.55 TAL 177.06 TAP 274.61 RCA 87.55 APO 151.94 V2 34.851
RC 45.690 GL -19.98 GP -.25 ZAL 86.50 ZAP 2.91 ETS 4.66 ZAE 154.72 ETE 26.25 ZAC 93.22 ETC 13.89 CLP -2.90

PLANETOCENTRIC CONIC

C3 19.089 VHL 4.369 DLA -14.86 RAL 163.94 RAD 6567.8 VEL 11.852 PTH 2.10 VHP 9.111 DPA 5.98 RAP 174.03 ECC 1.3142

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 8 0	1722.67	-5.39	12.35	23.52	117.84	7 36 43	1122.7	-1.63	5.70
90.00	15 10 43	5328.04	27.51	242.36	29.61	83.02	16 39 31	4728.0	26.26	233.92
100.00	8 21 20	1486.10	-6.53	354.34	22.90	119.24	8 46 6	886.1	-2.58	347.77
100.00	16 40 5	5039.84	28.79	220.97	29.41	81.60	18 4 5	4439.8	27.33	212.47
110.00	9 11 39	1328.46	-9.45	340.60	21.12	123.00	9 33 48	728.5	-5.04	334.29
110.00	18 6 15	4770.25	32.15	199.78	28.70	77.72	19 25 45	4170.2	30.13	191.16

DIFFERENTIAL CORRECTIONS
TDE .5045 TRA -.7392 TC3 .5096 BAU .1385
RDE -.2770 RRA -.1132 RC3 .1862 FAU .03204
FDE -.6766 FRA .4746 FC3-1.4532 BSP 3935
BDE .5755 BRA .7478 BC3 .5426 FSP -378

MID-COURSE EXECUTION ACCURACY
SGT 1281.3 SGR 426.7 SG3 144.9
RRT -.0253 RRF .0235 RTF -.8366
SGB 1350.5 R23 .0003 R13 .8366
SG1 1281.4 SG2 426.5 THA 179.46

ORBIT DETERMINATION ACCURACY
ST 726.9 SR 366.3 SS 715.4
CRT -.8505 CRS -.9411 CST .9773
LSA 1067.5 MSA 185.6 SSA 18.0
EL1 794.6 EL2 176.2 ALF 155.52

LAUNCH DATE JUN 9 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 13 1967

HELIOCENTRIC CONIC DISTANCE 239.749

RL 151.86 LAL -.00 LOL 257.50 VL 25.472 GAL .86 AZL 93.38 HCA 100.72 SMA 120.76 ECC .25797 INC 3.3811 V1 29.337
RP 108.71 LAP -3.32 LOP 358.24 VP 36.643 GAP -13.83 AZP 89.37 TAL 177.52 TAP 278.24 RCA 89.61 APO 151.91 V2 34.860
RC 46.700 GL -20.99 GP -.27 ZAL 87.62 ZAP 4.81 ETS 2.83 ZAE 153.08 ETE 23.88 ZAC 91.99 ETC 13.81 CLP -4.80

PLANETOCENTRIC CONIC

C3 17.588 VHL 4.194 DLA -15.33 RAL 162.46 RAD 6567.7 VEL 11.789 PTH 2.08 VHP 8.616 DPA 5.45 RAP 175.20 ECC 1.2895

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 6 28	1686.61	-4.24	10.33	20.96	118.02	7 34 35	1086.6	-.46	3.69
90.00	15 0 31	5325.77	27.49	242.20	26.88	82.94	16 29 17	4725.8	26.23	233.76
100.00	8 19 26	1451.18	-5.36	352.40	20.34	119.45	8 43 37	851.2	-1.40	345.86
100.00	16 30 14	5036.43	28.76	220.72	26.68	81.48	17 54 10	4436.4	27.28	212.23
110.00	9 9 1	1295.84	-8.24	338.85	18.58	123.29	9 30 37	695.8	-3.80	332.58
110.00	17 57 8	4764.54	32.07	199.36	25.97	77.48	19 16 32	4164.5	30.02	190.75

DIFFERENTIAL CORRECTIONS
TDE .5113 TRA -.7086 TC3 .6024 BAU .1490
RDE -.2610 RRA -.1043 RC3 .1970 FAU .03450
FDE -.7326 FRA .4709 FC3-1.6979 BSP 4076
BDE .5740 BRA .7163 BC3 .6338 FSP -426

MID-COURSE EXECUTION ACCURACY
SGT 1323.2 SGR 419.9 SG3 161.1
RRT -.0312 RRF .0295 RTF -.8466
SGB 1388.2 R23 -.0001 R13 .8466
SG1 1323.3 SG2 419.6 THA 179.37

ORBIT DETERMINATION ACCURACY
ST 760.8 SR 359.4 SS 760.5
CRT -.8619 CRS -.9474 CST .9779
LSA 1119.4 MSA 181.1 SSA 18.2
EL1 824.4 EL2 168.2 ALF 156.82

LAUNCH DATE JUN 9 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 15 1967

HELIOCENTRIC CONIC DISTANCE 246.468

RL 151.86 LAL -.00 LOL 257.50 VL 25.641 GAL .66 AZL 93.38 HCA 103.90 SMA 121.72 ECC .24793 INC 3.3773 V1 29.337
RP 108.68 LAP -3.28 LOP 1.42 VP 36.770 GAP -13.00 AZP 89.19 TAL 178.01 TAP 281.91 RCA 91.54 APO 151.89 V2 34.870
RC 47.841 GL -21.98 GP -.30 ZAL 88.81 ZAP 6.77 ETS 2.00 ZAE 151.61 ETE 21.88 ZAC 90.81 ETC 13.74 CLP -6.76

PLANETOCENTRIC CONIC

C3 16.290 VHL 4.036 DLA -15.76 RAL 160.93 RAD 6567.7 VEL 11.733 PTH 2.07 VHP 8.143 DPA 4.94 RAP 176.30 ECC 1.2681

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 4 20	1653.52	-3.18	8.47	18.43	118.15	7 31 54	1053.5	.61	1.84
90.00	14 50 26	5323.56	27.48	242.04	24.18	82.87	16 19 9	4723.6	26.20	233.60
100.00	8 16 58	1419.15	-4.29	350.63	17.82	119.61	8 40 38	819.1	-.31	344.10
100.00	16 20 29	5033.17	28.73	220.48	23.98	81.36	17 44 22	4433.2	27.23	212.00
110.00	9 5 53	1265.95	-7.12	337.26	16.08	123.52	9 26 59	666.0	-2.66	331.01
110.00	17 48 4	4759.12	31.99	198.96	23.27	77.26	19 7 23	4159.1	29.91	190.37

DIFFERENTIAL CORRECTIONS
TDE .5173 TRA -.6757 TC3 .6997 BAU .1589
RDE -.2461 RRA -.0959 RC3 .2065 FAU .03724
FDE -.7946 FRA .4640 FC3-1.9790 BSP 4228
BDE .5728 BRA .6825 BC3 .7296 FSP -481

MID-COURSE EXECUTION ACCURACY
SGT 1360.7 SGR 412.2 SG3 179.0
RRT -.0381 RRF .0362 RTF -.8558
SGB 1421.8 R23 -.0003 R13 .8558
SG1 1360.8 SG2 411.8 THA 179.27

ORBIT DETERMINATION ACCURACY
ST 793.0 SR 352.0 SS 807.3
CRT -.8733 CRS -.9535 CST .9785
LSA 1171.8 MSA 176.4 SSA 18.4
EL1 852.8 EL2 159.4 ALF 158.00

LAUNCH DATE JUN 9 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 17 1967

HELIOCENTRIC CONIC DISTANCE 253.183

RL 151.86 LAL -.00 LOL 257.50 VL 25.795 GAL .46 AZL 93.37 HCA 107.07 SMA 122.61 ECC .23872 INC 3.3733 V1 29.337
RP 108.64 LAP -3.22 LOP 4.60 VP 36.888 GAP -12.19 AZP 89.01 TAL 178.54 TAP 285.61 RCA 93.34 APO 151.88 V2 34.881
RC 49.103 GL -22.94 GP -.32 ZAL 90.04 ZAP 8.80 ETS 1.51 ZAE 150.33 ETE 20.17 ZAC 89.71 ETC 13.67 CLP -8.80

PLANETOCENTRIC CONIC

C3 15.169 VHL 3.895 DLA -16.14 RAL 159.36 RAD 6567.6 VEL 11.686 PTH 2.06 VHP 7.689 DPA 4.46 RAP 177.34 ECC 1.2496

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 1 39	1623.51	-2.22	6.79	15.96	118.24	7 28 42	1023.5	1.57	.17
90.00	14 40 34	5321.30	27.46	241.88	21.53	82.79	16 9 15	4721.3	26.17	233.45
100.00	8 13 59	1390.10	-3.31	349.03	15.35	119.73	8 37 9	790.1	.67	342.51
100.00	16 10 55	5029.93	28.69	220.25	21.34	81.24	17 34 45	4429.9	27.18	211.77
110.00	9 2 16	1238.87	-6.10	335.83	13.62	123.70	9 22 55	638.9	-1.63	329.60
110.00	17 39 7	4753.94	31.91	198.57	20.62	77.04	18 58 21	4153.9	29.80	190.00

DIFFERENTIAL CORRECTIONS
TDE .5243 TRA -.6413 TC3 .8045 BAU .1688
RDE -.2323 RRA -.0881 RC3 .2145 FAU .04040
FDE -.8645 FRA .4545 FC3-2.3056 BSP 4391
BDE .5734 BRA .6473 BC3 .8326 FSP -543

MID-COURSE EXECUTION ACCURACY
SGT 1397.2 SGR 403.6 SG3 199.4
RRT -.0466 RRF .0435 RTF -.8651
SGB 1454.3 R23 .0005 R13 .8652
SG1 1397.3 SG2 403.1 THA 179.16

ORBIT DETERMINATION ACCURACY
ST 825.8 SR 344.1 SS 856.9
CRT -.8850 CRS -.9593 CST .9795
LSA 1226.8 MSA 171.5 SSA 18.5
EL1 882.0 EL2 150.0 ALF 159.13

LAUNCH DATE JUN 9 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 19 1967

HELIOCENTRIC CONIC DISTANCE 259.894

RL 151.86 LAL -.00 LOL 257.50 VL 25.936 GAL .27 AZL 93.37 HCA 110.25 SMA 123.44 ECC .23030 INC 3.3693 VI 29.337
RP 108.61 LAP -3.16 LOP 7.78 VP 36.997 GAP -11.41 AZP 88.83 TAL 179.09 TAP 289.34 RCA 95.01 APO 151.87 V2 34.891
RC 50.476 GL -23.86 GP -.35 ZAL 91.30 ZAP 10.92 ETS 1.18 ZAE 149.27 ETE 18.69 ZAC 88.69 ETC 13.62 CLP -10.92

PLANETOCENTRIC CONIC

C3 14.203 VHL 3.769 DLA -16.47 RAL 157.76 RAD 6567.6 VEL 11.644 PTH 2.04 VHP 7.255 DPA 4.00 RAP 178.30 ECC 1.2337

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 58 28	1596.60	-1.35	5.29	13.55	118.29	7 25 5	996.6	2.44	358.66
90.00	14 31 1	5318.91	27.44	241.71	18.96	82.70	15 59 40	4718.9	26.14	233.28
100.00	8 10 32	1364.08	-2.43	347.60	12.95	119.80	8 33 16	764.1	1.55	341.08
100.00	16 1 39	5026.67	28.66	220.01	18.76	81.12	17 25 25	4426.7	27.13	211.54
110.00	8 58 15	1214.59	-5.18	334.55	11.24	123.84	9 18 30	614.6	-.70	328.33
110.00	17 30 25	4748.92	31.83	198.20	18.05	76.84	18 49 34	4148.9	29.70	189.65

DIFFERENTIAL CORRECTIONS
TDE .5259 TRA -.6127 TC3 .9050 BAU .1769
RDE -.2193 RRA -.0809 RC3 .2207 FAU .04394
FDE -.9412 FRA .4471 FC3-2.6785 BSP 4457
BDE .5699 BRA .6180 BC3 .9315 FSP -609

MID-COURSE EXECUTION ACCURACY
SGT 1431.1 SGR 394.1 SG3 222.4
RRT -.0509 RRF .0498 RTF -.8713
SGB 1484.4 R23 -.0019 R13 .8713
SG1 1431.3 SG2 393.5 THA 179.13

ORBIT DETERMINATION ACCURACY
ST 851.3 SR 335.7 SS 907.6
CRT -.8934 CRS -.9642 CST .9795
LSA 1277.6 MSA 169.0 SSA 18.6
EL1 904.0 EL2 142.0 ALF 160.08

LAUNCH DATE JUN 9 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 21 1967

HELIOCENTRIC CONIC DISTANCE 266.595

RL 151.86 LAL -.00 LOL 257.50 VL 26.065 GAL .10 AZL 93.37 HCA 113.44 SMA 124.21 ECC .22263 INC 3.3651 VI 29.337
RP 108.58 LAP -3.09 LOP 10.97 VP 37.097 GAP -10.67 AZP 88.66 TAL 179.65 TAP 293.09 RCA 96.56 APO 151.86 V2 34.903
RC 51.950 GL -24.73 GP -.38 ZAL 92.58 ZAP 13.14 ETS .95 ZAE 148.44 ETE 17.41 ZAC 87.77 ETC 13.58 CLP -13.13

PLANETOCENTRIC CONIC

C3 13.371 VHL 3.657 DLA -16.75 RAL 156.17 RAD 6567.5 VEL 11.608 PTH 2.03 VHP 6.840 DPA 3.58 RAP 179.17 ECC 1.2201

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 54 52	1572.80	-.58	3.97	11.22	118.31	7 21 4	972.8	3.21	357.33
90.00	14 21 54	5316.29	27.41	241.52	16.47	82.61	15 50 30	4716.3	26.11	233.09
100.00	8 6 41	1341.05	-1.65	346.33	10.62	119.85	8 29 2	741.0	2.33	339.81
100.00	15 52 46	5023.28	28.62	219.77	16.28	80.99	17 16 29	4423.3	27.08	211.30
110.00	8 53 55	1193.09	-4.36	333.42	8.93	123.94	9 13 48	593.1	.12	327.21
110.00	17 22 1	4744.00	31.76	197.84	15.56	76.63	18 41 5	4144.0	29.59	189.30

DIFFERENTIAL CORRECTIONS
TDE .5302 TRA -.5826 TC3 .9950 BAU .1823
RDE -.2073 RRA -.0741 RC3 .2249 FAU .04773
FDE-1.0294 FRA .4397 FC3-3.0904 BSP 4410
BDE .5693 BRA .5873 BC3 1.0201 FSP -671

MID-COURSE EXECUTION ACCURACY
SGT 1458.9 SGR 383.8 SG3 247.8
RRT -.0618 RRF .0592 RTF -.8771
SGB 1508.6 R23 -.0010 R13 .8771
SG1 1459.2 SG2 383.0 THA 179.00

ORBIT DETERMINATION ACCURACY
ST 878.8 SR 327.0 SS 962.6
CRT -.9027 CRS -.9687 CST .9802
LSA 1333.4 MSA 165.7 SSA 18.5
EL1 928.2 EL2 133.2 ALF 161.03

LAUNCH DATE JUN 9 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 23 1967

HELIOCENTRIC CONIC DISTANCE 273.288

RL 151.86 LAL -.00 LOL 257.50 VL 26.181 GAL -.06 AZL 93.36 HCA 116.62 SMA 124.92 ECC .21567 INC 3.3606 VI 29.337
RP 108.54 LAP -3.00 LOP 14.16 VP 37.190 GAP -9.95 AZP 88.49 TAL 180.23 TAP 296.85 RCA 97.98 APO 151.86 V2 34.914
RC 53.515 GL -25.56 GP -.41 ZAL 93.84 ZAP 15.46 ETS .78 ZAE 147.85 ETE 16.30 ZAC 86.94 ETC 13.55 CLP -15.46

PLANETOCENTRIC CONIC

C3 12.657 VHL 3.558 DLA -16.99 RAL 154.59 RAD 6567.5 VEL 11.578 PTH 2.02 VHP 6.444 DPA 3.19 RAP 179.94 ECC 1.2083

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 50 53	1552.06	.09	2.81	8.98	118.32	7 16 45	952.1	3.87	356.17
90.00	14 13 16	5313.39	27.39	241.31	14.09	82.51	15 41 50	4713.4	26.07	232.89
100.00	8 2 31	1320.96	-.97	345.23	8.39	119.88	8 24 31	721.0	3.01	338.71
100.00	15 44 20	5019.72	28.58	219.51	13.89	80.86	17 8 0	4419.7	27.03	211.05
110.00	8 49 19	1174.31	-3.65	332.44	6.72	124.01	9 8 53	574.3	.84	326.23
110.00	17 14 1	4739.13	31.68	197.48	13.17	76.43	18 33 0	4139.1	29.49	188.96

DIFFERENTIAL CORRECTIONS
TDE .5396 TRA -.5254 TC3 1.1314 BAU .1952
RDE -.1963 RRA -.0684 RC3 .2259 FAU .05316
FDE-1.1404 FRA .3857 FC3-3.6360 BSP 4980
BDE .5742 BRA .5299 BC3 1.1538 FSP -822

MID-COURSE EXECUTION ACCURACY
SGT 1478.6 SGR 372.9 SG3 279.8
RRT -.0788 RRF .0745 RTF -.8883
SGB 1524.9 R23 .0002 R13 .8883
SG1 1478.9 SG2 371.6 THA 178.79

ORBIT DETERMINATION ACCURACY
ST 909.0 SR 318.0 SS 1029.2
CRT -.9182 CRS -.9755 CST .9818
LSA 1400.4 MSA 158.5 SSA 18.5
EL1 955.5 EL2 119.9 ALF 161.90

LAUNCH DATE JUN 9 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 25 1967

HELIOCENTRIC CONIC DISTANCE 279.968

RL 151.86 LAL -.00 LOL 257.50 VL 26.286 GAL -.21 AZL 93.36 HCA 119.81 SMA 125.58 ECC .20937 INC 3.3559 VI 29.337
RP 108.50 LAP -2.91 LOP 17.34 VP 37.275 GAP -9.25 AZP 88.33 TAL 180.81 TAP 300.61 RCA 99.28 APO 151.87 V2 34.926
RC 55.163 GL -26.32 GP -.46 ZAL 95.09 ZAP 17.91 ETS .65 ZAE 147.52 ETE 15.34 ZAC 86.24 ETC 13.52 CLP -17.91

PLANETOCENTRIC CONIC

C3 12.045 VHL 3.471 DLA -17.19 RAL 153.05 RAD 6567.5 VEL 11.551 PTH 2.02 VHP 6.067 DPA 2.85 RAP 180.59 ECC 1.1982

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 46 41	1534.17	.67	1.81	6.85	118.31	7 12 15	934.2	4.44	355.17
90.00	14 5 12	5310.22	27.36	241.08	11.83	82.40	15 33 42	4710.2	26.02	232.67
100.00	7 58 7	1303.62	-.38	344.28	6.27	119.89	8 19 51	703.6	3.60	337.76
100.00	15 36 26	5016.00	28.54	219.24	11.63	80.73	17 0 2	4416.0	26.97	210.79
110.00	8 44 35	1158.06	-3.03	331.59	4.61	124.06	9 3 53	558.1	1.46	325.38
110.00	17 6 28	4734.33	31.60	197.13	10.91	76.24	18 25 22	4134.3	29.39	188.62

DIFFERENTIAL CORRECTIONS
TDE .5376 TRA -.5117 TC3 1.2060 BAU .1976
RDE -.1858 RRA -.0624 RC3 .2254 FAU .05792
FDE-1.2502 FRA .3930 FC3-4.1627 BSP 4767
BDE .5688 BRA .5154 BC3 1.2269 FSP -883

MID-COURSE EXECUTION ACCURACY
SGT 1506.7 SGR 360.8 SG3 312.4
RRT -.0845 RRF .0826 RTF -.8906
SGB 1549.3 R23 -.0028 R13 .8906
SG1 1507.0 SG2 359.4 THA 178.77

ORBIT DETERMINATION ACCURACY
ST 926.7 SR 308.5 SS 1088.[illegible]
CRT -.9220 CRS -.9778 CST .9815
LSA 1453.3 MSA 159.5 SSA 18.1
EL1 970.0 EL2 114.1 ALF 162.69

LAUNCH DATE JUN 9 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 27 1967

HELIOCENTRIC CONIC DISTANCE 286.634

```
RL  151.86 LAL   -.00 LOL 257.50 VL  26.381 GAL   -.35 AZL  93.35 HCA 122.99 SMA 126.17 ECC .20370 INC 3.3509 V1  29.337
RP  108.46 LAP  -2.81 LOP  20.53 VP  37.354 GAP  -8.57 AZP  88.17 TAL 181.38 TAP 304.37 RCA 100.47 APO 151.87 V2  34.938
RC  56.885 GL  -27.02 GP   -.50 ZAL  96.29 ZAP  20.50 ETS    .55 ZAE 147.45 ETE  14.50 ZAC  85.67 ETC  13.51 CLP -20.49
```

PLANETOCENTRIC CONIC

```
C3  11.522 VHL  3.394 DLA -17.34 RAL 151.57 RAD 6567.4 VEL 11.529 PTH   2.01 VHP  5.709 DPA   2.56 RAP 181.12 ECC 1.1896
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 42 17	1519.00	1.16	.97	4.84	118.30	7 7 36	919.0	4.93	354.32
90.00	13 57 45	5306.76	27.33	240.83	9.70	82.28	15 26 12	4706.8	25.98	232.43
100.00	7 53 36	1288.90	.12	343.47	4.26	119.89	8 15 5	688.9	4.10	336.94
100.00	15 29 8	5012.09	28.50	218.96	9.50	80.58	16 52 40	4412.1	26.91	210.52
110.00	8 39 47	1144.21	-2.50	330.86	2.63	124.10	8 58 51	544.2	1.99	324.66
110.00	16 59 26	4729.55	31.53	196.78	8.77	76.04	18 18 15	4129.6	29.29	188.29

DIFFERENTIAL CORRECTIONS

```
TDE  .5370 TRA -.4775 TC3 1.2934 BAU  .2021
RDE -.1760 RRA -.0572 RC3  .2219 FAU .06393
FDE-1.3789 FRA  .3662 FC3-4.8038 BSP  4884
BDE  .5651 BRA  .4809 BC3 1.3123 FSP  -1009
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1518.4 SGR  348.1 SG3  350.7
RRT -.0976 RRF  .0954 RTF -.8957
SGB 1557.8 R23 -.0032 R13  .8958
SG1 1518.8 SG2  346.4 THA 178.65
```

ORBIT DETERMINATION ACCURACY

```
ST   941.6 SR   298.7 SS  1153.1
CRT -.9299 CRS -.9813 CST  .9821
LSA 1510.1 MSA  157.1 SSA   17.8
EL1  982.2 EL2  105.3 ALF 163.37
```

LAUNCH DATE JUN 9 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 29 1967

HELIOCENTRIC CONIC DISTANCE 293.285

```
RL  151.86 LAL   -.00 LOL 257.50 VL  26.467 GAL   -.48 AZL  93.35 HCA 126.18 SMA 126.72 ECC .19861 INC 3.3455 V1  29.337
RP  108.43 LAP  -2.70 LOP  23.73 VP  37.426 GAP  -7.92 AZP  88.02 TAL 181.93 TAP 308.12 RCA 101.55 APO 151.88 V2  34.951
RC  58.673 GL  -27.65 GP   -.56 ZAL  97.44 ZAP  23.25 ETS    .48 ZAE 147.66 ETE  13.79 ZAC  85.25 ETC  13.50 CLP -23.24
```

PLANETOCENTRIC CONIC

```
C3  11.074 VHL  3.328 DLA -17.46 RAL 150.16 RAD 6567.4 VEL 11.509 PTH   2.00 VHP  5.369 DPA   2.33 RAP 181.50 ECC 1.1822
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 37 52	1506.27	1.57	.26	2.97	118.28	7 2 58	906.3	5.33	353.60
90.00	13 50 57	5303.07	27.29	240.57	7.71	82.15	15 19 20	4703.1	25.93	232.17
100.00	7 49 4	1276.52	.54	342.79	2.40	119.89	8 10 21	676.5	4.51	336.26
100.00	15 22 26	5008.06	28.46	218.67	7.51	80.44	16 45 54	4408.1	26.84	210.24
110.00	8 35 2	1132.50	-2.05	330.25	.78	124.13	8 53 55	532.5	2.44	324.05
110.00	16 52 57	4724.85	31.45	196.43	6.79	75.85	18 11 42	4124.8	29.18	187.96

DIFFERENTIAL CORRECTIONS

```
TDE  .5317 TRA -.4494 TC3 1.3585 BAU  .2036
RDE -.1668 RRA -.0524 RC3  .2159 FAU .07073
FDE-1.5251 FRA  .3417 FC3-5.5296 BSP  4862
BDE  .5572 BRA  .4525 BC3 1.3755 FSP  -1141
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1521.0 SGR  334.7 SG3  394.2
RRT -.1104 RRF  .1093 RTF -.8979
SGB 1557.4 R23 -.0052 R13  .8979
SG1 1521.4 SG2  332.6 THA 178.54
```

ORBIT DETERMINATION ACCURACY

```
ST   947.6 SR   288.5 SS  1222.2
CRT -.9356 CRS -.9842 CST  .9820
LSA 1565.3 MSA  156.8 SSA   17.3
EL1  985.7 EL2   98.0 ALF 163.94
```

LAUNCH DATE JUN 9 1967 FLIGHT TIME 114.00 ARRIVAL DATE OCT 1 1967

HELIOCENTRIC CONIC DISTANCE 299.921

```
RL  151.86 LAL   -.00 LOL 257.50 VL  26.543 GAL   -.59 AZL  93.34 HCA 129.38 SMA 127.21 ECC .19407 INC 3.3396 V1  29.337
RP  108.39 LAP  -2.58 LOP  26.92 VP  37.492 GAP  -7.29 AZP  87.88 TAL 182.46 TAP 311.84 RCA 102.52 APO 151.90 V2  34.964
RC  60.521 GL  -28.22 GP   -.62 ZAL  98.52 ZAP  26.17 ETS    .43 ZAE 148.16 ETE  13.18 ZAC  85.01 ETC  13.50 CLP -26.16
```

PLANETOCENTRIC CONIC

```
C3  10.691 VHL  3.270 DLA -17.55 RAL 148.84 RAD 6567.4 VEL 11.493 PTH   2.00 VHP  5.048 DPA   2.16 RAP 181.72 ECC 1.1759
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 33 28	1495.75	1.91	359.67	1.24	118.26	6 58 24	895.7	5.67	353.01
90.00	13 44 49	5299.20	27.26	240.29	5.88	82.02	15 13 8	4699.2	25.87	231.90
100.00	7 44 36	1266.25	.89	342.23	.67	119.88	8 5 42	666.2	4.86	335.69
100.00	15 16 22	5003.93	28.41	218.37	5.68	80.29	16 39 46	4403.9	26.77	209.95
110.00	8 30 24	1122.73	-1.68	329.74	359.06	124.15	8 49 7	522.7	2.81	323.54
110.00	16 47 3	4720.21	31.37	196.09	4.95	75.67	18 5 43	4120.2	29.08	187.64

DIFFERENTIAL CORRECTIONS

```
TDE  .5254 TRA -.4189 TC3 1.4120 BAU  .2040
RDE -.1580 RRA -.0481 RC3  .2071 FAU .07844
FDE-1.6922 FRA  .3082 FC3-6.3519 BSP  4927
BDE  .5487 BRA  .4217 BC3 1.4271 FSP  -1310
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1514.3 SGR  320.7 SG3  443.7
RRT -.1275 RRF  .1266 RTF -.9005
SGB 1547.9 R23 -.0066 R13  .9005
SG1 1514.9 SG2  317.9 THA 178.38
```

ORBIT DETERMINATION ACCURACY

```
ST   949.6 SR   278.2 SS  1296.5
CRT -.9414 CRS -.9868 CST  .9822
LSA 1623.4 MSA  155.9 SSA   16.7
EL1  985.4 EL2   90.4 ALF 164.45
```

LAUNCH DATE JUN 9 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 3 1967

HELIOCENTRIC CONIC DISTANCE 306.539

```
RL  151.86 LAL   -.00 LOL 257.50 VL  26.611 GAL   -.69 AZL  93.33 HCA 132.57 SMA 127.65 ECC .19004 INC 3.3332 V1  29.337
RP  108.35 LAP  -2.45 LOP  30.12 VP  37.552 GAP  -6.69 AZP  87.74 TAL 182.96 TAP 315.53 RCA 103.39 APO 151.91 V2  34.977
RC  62.420 GL  -28.72 GP   -.70 ZAL  99.52 ZAP  29.29 ETS    .40 ZAE 148.97 ETE  12.68 ZAC  84.95 ETC  13.50 CLP -29.28
```

PLANETOCENTRIC CONIC

```
C3  10.363 VHL  3.219 DLA -17.61 RAL 147.62 RAD 6567.4 VEL 11.478 PTH   2.00 VHP  4.745 DPA   2.06 RAP 181.76 ECC 1.1706
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 29 15	1487.10	2.18	359.19	359.66	118.24	6 54 2	887.1	5.94	352.52
90.00	13 39 21	5295.25	27.22	240.01	4.21	81.88	15 7 36	4695.2	25.82	231.62
100.00	7 40 19	1257.78	1.17	341.77	359.09	119.87	8 1 16	657.8	5.14	335.22
100.00	15 10 58	4999.80	28.36	218.07	4.00	80.14	16 34 18	4399.8	26.71	209.66
110.00	8 26 0	1114.61	-1.37	329.32	357.50	124.16	8 44 35	514.6	3.12	323.11
110.00	16 41 45	4715.73	31.29	195.77	3.27	75.49	18 0 21	4115.7	28.98	187.32

DIFFERENTIAL CORRECTIONS

```
TDE  .5126 TRA -.3925 TC3 1.4362 BAU  .2008
RDE -.1497 RRA -.0440 RC3  .1958 FAU .08706
FDE-1.8762 FRA  .2742 FC3-7.2731 BSP  4839
BDE  .5340 BRA  .3950 BC3 1.4495 FSP  -1482
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1491.5 SGR  306.0 SG3  498.9
RRT -.1451 RRF  .1456 RTF -.9001
SGB 1522.6 R23 -.0095 R13  .9002
SG1 1492.2 SG2  302.6 THA 178.22
```

ORBIT DETERMINATION ACCURACY

```
ST   938.8 SR   267.6 SS  1371.8
CRT -.9455 CRS -.9889 CST  .9818
LSA 1676.3 MSA  156.3 SSA   16.0
EL1  972.6 EL2   84.1 ALF 164.80
```

LAUNCH DATE JUN 9 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 5 1967

HELIOCENTRIC CONIC DISTANCE 313.140

```
RL  151.86 LAL   -.00 LOL 257.50 VL  26.672 GAL   -.78 AZL  93.33 HCA 135.77 SMA 128.05 ECC .18648 INC 3.3261 V1  29.337
RP  108.31 LAP  -2.32 LOP  33.31 VP  37.607 GAP  -6.10 AZP  87.62 TAL 183.43 TAP 319.19 RCA 104.17 APO 151.93 V2  34.990
RC  64.367 GL  -29.16 GP   -.79 ZAL 100.43 ZAP  32.63 ETS    .39 ZAE 150.10 ETE  12.29 ZAC  85.11 ETC  13.51 CLP -32.62
```

PLANETOCENTRIC CONIC

```
C3  10.083 VHL  3.175 DLA -17.65 RAL 146.52 RAD 6567.4 VEL 11.466 PTH   1.99 VHP  4.462 DPA   2.04 RAP 181.60 ECC 1.1659
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 25 15	1480.06	2.41	358.79	358.23	118.22	6 49 55	880.1	6.17	352.13
90.00	13 34 33	5291.27	27.18	239.72	2.70	81.74	15 2 44	4691.3	25.76	231.34
100.00	7 36 17	1250.86	1.41	341.39	357.68	119.86	7 57 8	650.9	5.37	334.84
100.00	15 6 12	4995.70	28.31	217.78	2.50	79.99	16 29 28	4395.7	26.64	209.37
110.00	8 21 54	1107.93	-1.11	328.97	356.10	124.17	8 40 22	507.9	3.38	322.76
110.00	16 37 4	4711.40	31.22	195.45	1.77	75.31	17 55 35	4111.4	28.89	187.02

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .4971 TRA -.3655 TC3 1.4396 BAU  .1956    SGT 1455.8 SGR  290.9 SG3  561.4     ST   921.1 SR   256.9 SS  1453.7
RDE -.1418 RRA -.0404 RC3  .1817 FAU .09680    RRT -.1679 RRF  .1697 RTF -.8990     CRT -.9493 CRS -.9908 CST  .9814
FDE-2.0865 FRA  .2305 FC3-8.3116 BSP   4752   SGB 1484.6 R23 -.0129 R13  .8992     LSA 1732.9 MSA  156.2 SSA   15.2
BDE  .5169 BRA  .3677 BC3 1.4511 FSP  -1684    SG1 1456.6 SG2  286.6 THA 178.00     EL1  953.0 EL2   78.0 ALF 165.07
```

LAUNCH DATE JUN 9 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 7 1967

HELIOCENTRIC CONIC DISTANCE 319.722

```
RL  151.86 LAL   -.00 LOL 257.50 VL  26.724 GAL   -.86 AZL  93.32 HCA 138.97 SMA 128.40 ECC .18336 INC 3.3181 V1  29.337
RP  108.27 LAP  -2.18 LOP  36.51 VP  37.657 GAP  -5.52 AZP  87.50 TAL 183.84 TAP 322.81 RCA 104.85 APO 151.94 V2  35.003
RC  66.356 GL  -29.54 GP   -.89 ZAL 101.24 ZAP  36.21 ETS    .40 ZAE 151.56 ETE  12.00 ZAC  85.51 ETC  13.53 CLP -36.20
```

PLANETOCENTRIC CONIC

```
C3   9.842 VHL  3.137 DLA -17.67 RAL 145.54 RAD 6567.4 VEL 11.456 PTH   1.99 VHP  4.199 DPA   2.10 RAP 181.21 ECC 1.1620
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 21 35	1474.35	2.59	358.47	356.97	118.21	6 46 9	874.3	6.35	351.80
90.00	13 30 24	5287.37	27.14	239.44	1.37	81.61	14 58 31	4687.4	25.70	231.07
100.00	7 32 35	1245.22	1.60	341.08	356.42	119.85	7 53 21	645.2	5.56	334.53
100.00	15 2 5	4991.73	28.27	217.49	1.16	79.84	16 25 16	4391.7	26.57	209.10
110.00	8 18 10	1102.42	-.90	328.68	354.85	124.17	8 36 32	502.4	3.59	322.48
110.00	16 32 59	4707.29	31.15	195.15	.43	75.15	17 51 27	4107.3	28.80	186.74

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .4736 TRA -.3440 TC3 1.4055 BAU  .1862    SGT 1400.1 SGR  275.3 SG3  630.6     ST   887.6 SR   246.1 SS  1536.0
RDE -.1342 RRA -.0369 RC3  .1648 FAU .10758    RRT -.1923 RRF  .1974 RTF -.8938     CRT -.9511 CRS -.9922 CST  .9802
FDE-2.3154 FRA  .1904 FC3-9.4632 BSP   4567   SGB 1426.9 R23 -.0192 R13  .8940     LSA 1784.0 MSA  157.4 SSA   14.4
BDE  .4922 BRA  .3459 BC3 1.4151 FSP  -1908    SG1 1401.2 SG2  270.0 THA 177.75     EL1  918.1 EL2   73.5 ALF 165.13
```

LAUNCH DATE JUN 9 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 9 1967

HELIOCENTRIC CONIC DISTANCE 326.285

```
RL  151.86 LAL   -.00 LOL 257.50 VL  26.771 GAL   -.93 AZL  93.31 HCA 142.17 SMA 128.70 ECC .18064 INC 3.3090 V1  29.337
RP  108.22 LAP  -2.03 LOP  39.71 VP  37.702 GAP  -4.97 AZP  87.39 TAL 184.21 TAP 326.38 RCA 105.45 APO 151.95 V2  35.016
RC  68.382 GL  -29.85 GP   -1.01 ZAL 101.94 ZAP  40.05 ETS    .43 ZAE 153.38 ETE  11.82 ZAC  86.15 ETC  13.55 CLP -40.04
```

PLANETOCENTRIC CONIC

```
C3   9.634 VHL  3.104 DLA -17.68 RAL 144.69 RAD 6567.3 VEL 11.447 PTH   1.99 VHP  3.956 DPA   2.25 RAP 180.57 ECC 1.1586
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 18 18	1469.69	2.74	358.21	355.87	118.19	6 42 48	869.7	6.49	351.54
90.00	13 26 54	5283.59	27.11	239.17	.21	81.48	14 54 57	4683.6	25.65	230.81
100.00	7 29 18	1240.60	1.76	340.82	355.32	119.85	7 49 59	640.6	5.72	334.27
100.00	14 58 35	4987.92	28.22	217.22	360.00	79.71	16 21 43	4387.9	26.51	208.83
110.00	8 14 52	1097.86	-.73	328.45	353.77	124.18	8 33 10	497.9	3.76	322.24
110.00	16 29 31	4703.42	31.08	194.87	359.26	75.00	17 47 54	4103.4	28.71	186.47

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .4432 TRA -.3259 TC3 1.3345 BAU  .1729    SGT 1324.6 SGR  259.5 SG3  706.8     ST   840.2 SR   235.3 SS  1620.8
RDE -.1270 RRA -.0337 RC3  .1449 FAU .11944    RRT -.2212 RRF  .2318 RTF -.8842     CRT -.9512 CRS -.9934 CST  .9782
FDE-2.5660 FRA  .1510 FC-10.7327 BSP   4291   SGB 1349.8 R23 -.0296 R13  .8844     LSA 1833.8 MSA  159.0 SSA   13.5
BDE  .4611 BRA  .3277 BC3 1.3424 FSP  -2150    SG1 1325.9 SG2  252.9 THA 177.42     EL1  869.7 EL2   70.1 ALF 164.98
```

LAUNCH DATE JUN 9 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 11 1967

HELIOCENTRIC CONIC DISTANCE 332.828

```
RL  151.86 LAL   -.00 LOL 257.50 VL  26.810 GAL   -.98 AZL  93.30 HCA 145.37 SMA 128.97 ECC .17830 INC 3.2985 V1  29.337
RP  108.18 LAP  -1.87 LOP  42.92 VP  37.742 GAP  -4.43 AZP  87.28 TAL 184.52 TAP 329.89 RCA 105.98 APO 151.97 V2  35.029
RC  70.443 GL  -30.11 GP   -1.16 ZAL 102.53 ZAP  44.17 ETS    .47 ZAE 155.55 ETE  11.78 ZAC  87.07 ETC  13.58 CLP -44.16
```

PLANETOCENTRIC CONIC

```
C3   9.454 VHL  3.075 DLA -17.69 RAL 143.98 RAD 6567.3 VEL 11.439 PTH   1.98 VHP  3.734 DPA   2.49 RAP 179.68 ECC 1.1556
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 15 29	1465.90	2.87	358.00	354.93	118.18	6 39 55	865.9	6.61	351.32
90.00	13 24 1	5279.96	27.07	238.91	359.21	81.35	14 52 1	4680.0	25.59	230.56
100.00	7 26 28	1236.81	1.89	340.62	354.39	119.84	7 47 5	636.8	5.84	334.06
100.00	14 55 43	4984.28	28.18	216.95	359.00	79.58	16 18 47	4384.3	26.45	208.58
110.00	8 12 2	1094.09	-.59	328.25	352.84	124.18	8 30 16	494.1	3.90	322.04
110.00	16 26 39	4699.77	31.02	194.61	358.26	74.85	17 44 59	4099.8	28.63	186.22

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .4059 TRA -.3095 TC3 1.2209 BAU  .1551    SGT 1225.6 SGR  244.0 SG3  789.4     ST   778.2 SR   225.1 SS  1708.5
RDE -.1204 RRA -.0308 RC3  .1216 FAU .13222    RRT -.2577 RRF  .2769 RTF -.8678     CRT -.9498 CRS -.9944 CST  .9750
FDE-2.8390 FRA  .1058 FC-12.1085 BSP   3943   SGB 1249.7 R23 -.0463 R13  .8683     LSA 1884.0 MSA  160.5 SSA   12.5
BDE  .4234 BRA  .3110 BC3 1.2269 FSP  -2417    SG1 1227.3 SG2  235.4 THA 176.95     EL1  807.2 EL2   67.9 ALF 164.53
```

LAUNCH DATE JUN 9 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 13 1967

HELIOCENTRIC CONIC DISTANCE 339.351

```
RL  151.86 LAL   -.00 LOL 257.50 VL  26.844 GAL  -1.02 AZL  93.29 HCA 148.58 SMA 129.20 ECC .17630 INC 3.2860 V1  29.337
RP  108.14 LAP  -1.71 LOP  46.12 VP  37.779 GAP  -3.91 AZP  87.19 TAL 184.77 TAP 333.35 RCA 106.42 APO 151.98 V2  35.042
RC  72.534 GL  -30.31 GP   -1.34 ZAL 103.01 ZAP  48.58 ETS    .53 ZAE 158.09 ETE  11.88 ZAC  88.28 ETC  13.62 CLP -48.56
```

PLANETOCENTRIC CONIC

```
C3   9.295 VHL  3.049 DLA -17.68 RAL 143.40 RAD 6567.3 VEL 11.432 PTH   1.98 VHP  3.534 DPA   2.81 RAP 178.51 ECC 1.1530
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 13 8	1462.80	2.97	357.83	354.16	118.17	6 37 30	862.8	6.71	351.15
90.00	13 21 47	5276.45	27.03	238.66	358.38	81.23	14 49 43	4676.5	25.54	230.31
100.00	7 24 8	1233.70	1.99	340.44	353.62	119.83	7 44 41	633.7	5.95	333.89
100.00	14 53 28	4980.79	28.13	216.70	358.17	79.45	16 16 29	4380.8	26.39	208.34
110.00	8 9 41	1090.95	-.47	328.08	352.08	124.18	8 27 52	490.9	4.02	321.87
110.00	16 24 24	4696.31	30.95	194.36	357.43	74.72	17 42 40	4096.3	28.55	185.98

DIFFERENTIAL CORRECTIONS

```
TOE  .3616 TRA -.2963 TC3 1.0658 BAU  .1330
ROE -.1144 RRA -.0280 RC3  .0941 FAU .14598
FOE-3.1332 FRA  .0644 FC-13.5966 BSP  3533
BOE  .3793 BRA  .2977 BC3 1.0699 FSP  -2715
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1107.2 SGR  229.2 SG3  878.7
RRT -.3014 RRF  .3359 RTF -.8405
SGB 1130.6 R23 -.0759 R13  .8415
SG1 1109.4 SG2  218.1 THA 176.29
```

ORBIT DETERMINATION ACCURACY

```
ST   702.1 SR   215.6 SS  1799.7
CRT -.9456 CRS -.9953 CST  .9698
LSA 1937.0 MSA  161.8 SSA   11.5
EL1  731.4 EL2   67.3 ALF 163.67
```

LAUNCH DATE JUN 9 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 15 1967

HELIOCENTRIC CONIC DISTANCE 345.855

```
RL  151.86 LAL   -.00 LOL 257.50 VL  26.872 GAL  -1.05 AZL  93.27 HCA 151.79 SMA 129.39 ECC .17461 INC 3.2712 V1  29.337
RP  108.10 LAP  -1.55 LOP  49.33 VP  37.811 GAP  -3.40 AZP  87.12 TAL 184.95 TAP 336.75 RCA 106.80 APO 151.98 V2  35.056
RC  74.652 GL  -30.45 GP   -1.56 ZAL 103.38 ZAP  53.28 ETS    .60 ZAE 160.99 ETE  12.15 ZAC  89.78 ETC  13.67 CLP -53.26
```

PLANETOCENTRIC CONIC

```
C3   9.154 VHL  3.025 DLA -17.67 RAL 142.97 RAD 6567.3 VEL 11.426 PTH   1.98 VHP  3.357 DPA   3.22 RAP 177.06 ECC 1.1506
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 11 16	1460.31	3.05	357.69	353.54	118.17	6 35 37	860.3	6.79	351.01
90.00	13 20 11	5272.98	27.00	238.42	357.72	81.11	14 48 4	4673.0	25.49	230.07
100.00	7 22 17	1231.17	2.08	340.31	353.00	119.83	7 42 48	631.2	6.03	333.75
100.00	14 51 51	4977.36	28.09	216.46	357.51	79.33	16 14 49	4377.4	26.33	208.10
110.00	8 7 52	1088.35	-.37	327.95	351.48	124.18	8 26 1	488.3	4.12	321.74
110.00	16 22 46	4692.95	30.89	194.11	356.76	74.58	17 40 59	4092.9	28.47	185.75

DIFFERENTIAL CORRECTIONS

```
TOE  .3068 TRA -.2865 TC3  .8595 BAU  .1055
ROE -.1091 RRA -.0254 RC3  .0613 FAU .16030
FOE-3.4312 FRA  .0242 FC-15.1606 BSP  3000
BOE  .3256 BRA  .2876 BC3  .8617 FSP  -3023
```

MID-COURSE EXECUTION ACCURACY

```
SGT  965.5 SGR  216.0 SG3  971.3
RRT -.3452 RRF  .4120 RTF -.7899
SGB  989.4 R23 -.1351 R13  .7923
SG1  968.5 SG2  202.1 THA 175.38
```

ORBIT DETERMINATION ACCURACY

```
ST   605.7 SR   207.2 SS  1886.5
CRT -.9357 CRS -.9960 CST  .9599
LSA 1985.4 MSA  163.4 SSA   10.5
EL1  636.4 EL2   69.6 ALF 162.03
```

LAUNCH DATE JUN 9 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 17 1967

HELIOCENTRIC CONIC DISTANCE 352.338

```
RL  151.86 LAL   -.00 LOL 257.50 VL  26.896 GAL  -1.06 AZL  93.25 HCA 155.00 SMA 129.55 ECC .17322 INC 3.2527 V1  29.337
RP  108.06 LAP  -1.37 LOP  52.53 VP  37.840 GAP  -2.91 AZP  87.05 TAL 185.08 TAP 340.08 RCA 107.11 APO 151.99 V2  35.069
RC  76.795 GL  -30.53 GP   -1.83 ZAL 103.63 ZAP  58.27 ETS    .67 ZAE 164.25 ETE  12.66 ZAC  91.56 ETC  13.72 CLP -58.25
```

PLANETOCENTRIC CONIC

```
C3   9.024 VHL  3.004 DLA -17.64 RAL 142.68 RAD 6567.3 VEL 11.420 PTH   1.98 VHP  3.204 DPA   3.69 RAP 175.33 ECC 1.1485
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 9 53	1458.48	3.10	357.59	353.08	118.16	6 34 12	858.5	6.85	350.90
90.00	13 19 17	5269.33	26.96	238.16	357.22	80.99	14 47 6	4669.3	25.43	229.82
100.00	7 20 55	1229.26	2.14	340.20	352.55	119.82	7 41 25	629.3	6.09	333.64
100.00	14 50 56	4973.78	28.04	216.20	357.00	79.20	16 13 50	4373.8	26.27	207.85
110.00	8 6 33	1086.30	-.29	327.84	351.03	124.18	8 24 40	486.3	4.20	321.63
110.00	16 21 47	4689.50	30.83	193.86	356.26	74.45	17 39 57	4089.5	28.39	185.51

DIFFERENTIAL CORRECTIONS

```
TOE  .2443 TRA -.2795 TC3  .5995 BAU  .0724
ROE -.1051 RRA -.0229 RC3  .0220 FAU .17449
FOE-3.7379 FRA -.0074 FC-16.7388 BSP  2374
BOE  .2660 BRA  .2804 BC3  .5999 FSP  -3341
```

MID-COURSE EXECUTION ACCURACY

```
SGT  812.3 SGR  206.1 SG3 1065.1
RRT -.3763 RRF  .5106 RTF -.6927
SGB  838.0 R23 -.2534 R13  .6989
SG1  816.2 SG2 -190.0 THA 174.23
```

ORBIT DETERMINATION ACCURACY

```
ST   495.4 SR   201.0 SS  1975.1
CRT -.9152 CRS -.9967 CST  .9405
LSA 2039.5 MSA  164.7 SSA    9.5
EL1  529.2 EL2   75.8 ALF 159.19
```

LAUNCH DATE JUN 9 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 19 1967

HELIOCENTRIC CONIC DISTANCE 358.801

```
RL  151.86 LAL   -.00 LOL 257.50 VL  26.914 GAL  -1.06 AZL  93.23 HCA 158.22 SMA 129.67 ECC .17210 INC 3.2292 V1  29.337
RP  108.02 LAP  -1.20 LOP  55.74 VP  37.865 GAP  -2.42 AZP  87.00 TAL 185.13 TAP 343.35 RCA 107.36 APO 151.99 V2  35.082
RC  78.958 GL  -30.53 GP   -2.18 ZAL 103.76 ZAP  63.51 ETS    .74 ZAE 167.84 ETE  13.48 ZAC  93.61 ETC  13.78 CLP -63.49
```

PLANETOCENTRIC CONIC

```
C3   8.903 VHL  2.984 DLA -17.60 RAL 142.55 RAD 6567.3 VEL 11.415 PTH   1.98 VHP  3.075 DPA   4.19 RAP 173.33 ECC 1.1465
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 8 55	1457.47	3.14	357.53	352.78	118.16	6 33 13	857.5	6.88	350.85
90.00	13 19 10	5265.11	26.91	237.86	356.87	80.84	14 46 55	4665.1	25.37	229.53
100.00	7 20 0	1228.13	2.18	340.14	352.25	119.82	7 40 28	628.1	6.13	333.58
100.00	14 50 46	4969.68	27.99	215.91	356.65	79.06	16 13 36	4369.7	26.20	207.57
110.00	8 5 42	1084.93	-.23	327.77	350.74	124.18	8 23 47	484.9	4.25	321.56
110.00	16 21 33	4685.65	30.76	193.59	355.90	74.30	17 39 39	4085.7	28.30	185.25

DIFFERENTIAL CORRECTIONS

```
TOE  .1703 TRA -.2767 TC3  .2831 BAU- .0338
ROE -.1025 RRA -.0204 RC3 -.0263 FAU .18797
FOE-4.0126 FRA -.0160 FC-18.2796 BSP  1614
BOE  .1987 BRA  .2774 BC3  .2843 FSP  -3627
```

MID-COURSE EXECUTION ACCURACY

```
SGT  667.9 SGR  201.7 SG3 1153.9
RRT -.3274 RRF  .6272 RTF -.4870
SGB  697.7 R23 -.4800 R13  .5018
SG1  671.5 SG2  189.5 THA 173.86
```

ORBIT DETERMINATION ACCURACY

```
ST   367.3 SR   197.2 SS  2048.9
CRT -.8601 CRS -.9973 CST  .8895
LSA 2084.3 MSA  166.4 SSA    8.4
EL1  406.9 EL2   90.8 ALF 153.81
```

LAUNCH DATE JUN 9 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 21 1967

DISTANCE 365.244

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.928 GAL -1.06 AZL 93.20 HCA 161.43 SMA 129.77 ECC .17122 INC 3.1980 V1 29.337
RP 107.98 LAP -1.02 LOP 58.96 VP 37.886 GAP -1.95 AZP 86.97 TAL 185.12 TAP 346.56 RCA 107.55 APO 151.99 V2 35.094
RC 81.139 GL -30.46 GP -2.63 ZAL 103.78 ZAP 68.98 ETS .80 ZAE 171.73 ETE 14.80 ZAC 95.90 ETC 13.83 CLP -68.96

PLANETOCENTRIC CONIC
C3 8.782 VHL 2.963 DLA -17.53 RAL 142.57 RAD 6567.3 VEL 11.409 PTH 1.97 VHP 2.972 DPA 4.67 RAP 171.08 ECC 1.1445

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 8 14	1457.80	3.13	357.55	352.63	118.16	6 32 32	857.8	6.87	350.87
90.00	13 20 1	5259.56	26.85	237.46	356.67	80.65	14 47 41	4659.6	25.28	229.14
100.00	7 19 23	1228.24	2.18	340.15	352.10	119.82	7 39 51	628.2	6.13	333.59
100.00	14 51 34	4964.36	27.92	215.53	356.45	78.87	16 14 18	4364.4	26.10	207.20
110.00	8 5 14	1084.59	-.22	327.75	350.60	124.18	8 23 18	484.6	4.26	321.54
110.00	16 22 12	4680.77	30.67	193.23	355.69	74.11	17 40 13	4080.8	28.19	184.92

DIFFERENTIAL CORRECTIONS
TDE .0881 TRA -.2757 TC3 -.0871 BAU .0145
RDE -.1021 RRA -.0178 RC3 -.0871 FAU .19996
FDE-4.2514 FRA -.0056 FC-19.7127 BSP 834
BDE .1348 BRA .2763 BC3 .1232 FSP -3887

MID-COURSE EXECUTION ACCURACY
SGT 586.6 SGR 207.1 SG3 1234.2
RRT -.0890 RRF .7522 RTF -.0943
SGB 622.1 R23 -.7456 R13 .1037
SG1 586.9 SG2 206.2 THA 177.95

ORBIT DETERMINATION ACCURACY
ST 239.0 SR 197.6 SS 2112.3
CRT -.6730 CRS -.9979 CST .7113
LSA 2128.3 MSA 167.8 SSA 7.4
EL1 284.8 EL2 122.6 ALF 142.93

LAUNCH DATE JUN 9 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 23 1967

DISTANCE 371.667

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.938 GAL -1.04 AZL 93.15 HCA 164.65 SMA 129.84 ECC .17057 INC 3.1540 V1 29.337
RP 107.94 LAP -.83 LOP 62.17 VP 37.905 GAP -1.50 AZP 86.96 TAL 185.05 TAP 349.70 RCA 107.69 APO 151.98 V2 35.107
RC 83.336 GL -30.25 GP -3.25 ZAL 103.70 ZAP 74.61 ETS .83 ZAE 175.86 ETE 17.21 ZAC 98.39 ETC 13.84 CLP -74.59

PLANETOCENTRIC CONIC
C3 8.654 VHL 2.942 DLA -17.38 RAL 142.76 RAD 6567.3 VEL 11.404 PTH 1.97 VHP 2.894 DPA 5.05 RAP 168.61 ECC 1.1424

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 7 32	1460.56	3.04	357.70	352.62	118.17	6 31 53	860.6	6.78	351.02
90.00	13 22 15	5251.21	26.76	236.87	356.60	80.37	14 49 46	4651.2	25.15	228.57
100.00	7 18 49	1230.57	2.10	340.27	352.10	119.83	7 39 20	630.6	6.05	333.72
100.00	14 53 39	4956.44	27.82	214.96	356.38	78.59	16 16 16	4356.4	25.96	206.65
110.00	8 4 56	1086.09	-.28	327.83	350.61	124.18	8 23 2	486.1	4.21	321.62
110.00	16 24 1	4673.68	30.54	192.72	355.61	73.83	17 41 55	4073.7	28.02	184.43

DIFFERENTIAL CORRECTIONS
TDE .0007 TRA -.2740 TC3 -.5015 BAU .0612
RDE -.1051 RRA -.0150 RC3 -.1676 FAU .21027
FDE-4.4452 FRA .0143 FC-21.0353 BSP 686
BDE .1051 BRA .2744 BC3 .5287 FSP -4133

MID-COURSE EXECUTION ACCURACY
SGT 632.2 SGR 229.2 SG3 1305.0
RRT .3170 RRF .8640 RTF .3795
SGB 672.5 R23 .7667 R13 .4136
SG1 636.9 SG2 215.8 THA 7.41

ORBIT DETERMINATION ACCURACY
ST 168.0 SR 204.9 SS 2166.9
CRT .0375 CRS -.9985 CST .0068
LSA 2176.5 MSA 168.2 SSA 6.3
EL1 205.2 EL2 167.6 ALF 84.69

LAUNCH DATE JUN 9 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 25 1967

DISTANCE 378.070

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.944 GAL -1.00 AZL 93.09 HCA 167.87 SMA 129.88 ECC .17014 INC 3.0875 V1 29.337
RP 107.91 LAP -.65 LOP 65.39 VP 37.921 GAP -1.05 AZP 86.98 TAL 184.90 TAP 352.78 RCA 107.78 APO 151.98 V2 35.119
RC 85.546 GL -29.85 GP -4.17 ZAL 103.51 ZAP 80.33 ETS .79 ZAE 179.78 ETE 169.58 ZAC 101.03 ETC 13.78 CLP -80.31

PLANETOCENTRIC CONIC
C3 8.503 VHL 2.916 DLA -17.09 RAL 143.15 RAD 6567.3 VEL 11.397 PTH 1.97 VHP 2.843 DPA 5.17 RAP 165.95 ECC 1.1399

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 6 15	1468.10	2.80	358.12	352.75	118.19	6 30 44	868.1	6.54	351.45
90.00	13 26 39	5237.02	26.59	235.86	356.64	79.89	14 53 56	4637.0	24.93	227.59
100.00	7 17 47	1237.29	1.87	340.64	352.24	119.84	7 38 25	637.3	5.83	334.09
100.00	14 57 49	4943.06	27.63	214.01	356.41	78.12	16 20 12	4343.1	25.71	205.74
110.00	8 4 25	1091.20	-.47	328.10	350.77	124.18	8 22 36	491.2	4.01	321.89
110.00	16 27 40	4661.92	30.31	191.88	355.63	73.38	17 45 22	4061.9	27.74	183.63

DIFFERENTIAL CORRECTIONS
TDE -.0921 TRA -.2727 TC3 -.9688 BAU .1146
RDE -.1130 RRA -.0113 RC3 -.2794 FAU .21701
FDE-4.5250 FRA .0859 FC-22.0941 BSP 1565
BDE .1458 BRA .2729 BC3 1.0083 FSP -4283

MID-COURSE EXECUTION ACCURACY
SGT 816.2 SGR 276.3 SG3 1352.7
RRT .6439 RRF .9406 RTF .6880
SGB 861.7 R23 .6098 R13 .7241
SG1 836.7 SG2 206.2 THA 13.11

ORBIT DETERMINATION ACCURACY
ST 247.7 SR 222.1 SS 2186.3
CRT .7532 CRS -.9991 CST -.7292
LSA 2205.0 MSA 169.0 SSA 5.2
EL1 311.8 EL2 116.1 ALF 40.88

LAUNCH DATE JUN 9 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 27 1967

DISTANCE 384.452

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.947 GAL -.96 AZL 92.97 HCA 171.10 SMA 129.90 ECC .16991 INC 2.9740 V1 29.337
RP 107.87 LAP -.46 LOP 68.60 VP 37.934 GAP -.61 AZP 87.06 TAL 184.69 TAP 355.79 RCA 107.83 APO 151.97 V2 35.131
RC 87.767 GL -29.04 GP -5.71 ZAL 103.26 ZAP 86.06 ETS .62 ZAE 175.21 ETE 201.52 ZAC 103.82 ETC 13.51 CLP -86.04

PLANETOCENTRIC CONIC
C3 8.296 VHL 2.880 DLA -16.48 RAL 143.82 RAD 6567.3 VEL 11.388 PTH 1.97 VHP 2.821 DPA 4.70 RAP 163.04 ECC 1.1365

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 2 54	1486.48	2.20	359.15	353.02	118.24	6 27 41	886.5	5.96	352.49
90.00	13 35 19	5209.35	26.25	233.91	356.74	78.97	15 2 8	4609.3	24.46	225.70
100.00	7 14 58	1253.98	1.30	341.56	352.52	119.87	7 35 52	654.0	5.27	335.01
100.00	15 5 57	4917.09	27.25	212.17	356.50	77.22	16 27 54	4317.1	25.22	203.96
110.00	8 2 40	1104.53	-.98	328.79	351.09	124.17	8 21 5	504.5	3.51	322.59
110.00	16 34 44	4639.30	29.86	190.28	355.70	72.53	17 52 3	4039.3	27.18	182.11

DIFFERENTIAL CORRECTIONS
TDE -.1827 TRA -.2675 TC3-1.4847 BAU .1723
RDE -.1308 RRA -.0063 RC3 -.4583 FAU .22104
FDE-4.4876 FRA .1685 FC-23.0671 BSP 2694
BDE .2246 BRA .2676 BC3 1.5539 FSP -4396

MID-COURSE EXECUTION ACCURACY
SGT 1082.4 SGR 370.9 SG3 1383.4
RRT .8160 RRF .9810 RTF .8317
SGB 1144.2 R23 .4782 R13 .8583
SG1 1125.4 SG2 206.2 THA 16.18

ORBIT DETERMINATION ACCURACY
ST 400.5 SR 260.3 SS 2177.9
CRT .9149 CRS -.9995 CST -.9043
LSA 2223.3 MSA 168.7 SSA 4.1
EL1 469.2 EL2 89.7 ALF 32.05

LAUNCH DATE JUN 9 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 29 1967

HELIOCENTRIC CONIC DISTANCE 390.815

RL 151.86 LAL -.00 LOL 257.50 VL 26.946 GAL -.90 AZL 92.73 HCA 174.32 SMA 129.89 ECC .16986 INC 2.7305 V1 29.337
RP 107.83 LAP -.27 LOP 71.82 VP 37.944 GAP -.18 AZP 87.28 TAL 184.42 TAP 358.74 RCA 107.83 APO 151.96 V2 35.143
RC 89.996 GL -27.15 GP -8.92 ZAL 103.01 ZAP 91.68 ETS .11 ZAE 169.92 ETE 210.89 ZAC 106.89 ETC 12.63 CLP -91.70

PLANETOCENTRIC CONIC

C3 7.931 VHL 2.816 DLA -14.89 RAL 145.01 RAD 6567.3 VEL 11.372 PTH 1.96 VHP 2.835 DPA 2.62 RAP 159.59 ECC 1.1305

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 52 49	1535.67	.62	1.89	353.44	118.31	6 18 25	935.7	4.40	355.25
90.00	13 54 55	5143.47	25.31	229.31	356.78	76.85	15 20 38	4543.5	23.25	221.25
100.00	7 6 7	1299.18	-.23	344.04	352.97	119.89	7 27 46	699.2	3.75	337.51
100.00	15 24 18	4855.19	26.25	207.85	356.52	75.16	16 45 13	4255.2	23.95	199.80
110.00	7 56 23	1141.70	-2.40	330.73	351.61	124.11	8 15 25	541.7	2.09	324.53
110.00	16 50 31	4585.43	28.70	186.51	355.67	70.58	18 6 56	3985.4	25.78	178.55

DIFFERENTIAL CORRECTIONS
TDE -.2536 TRA -.2486 TC3-2.0662 BAU .2353
RDE -.1676 RRA .0058 RC3 -.8099 FAU .21782
FDE-4.1240 FRA .3654 FC-23.7766 BSP 3912
BDE .3040 BRA .2487 BC3 2.2193 FSP -4318

MID-COURSE EXECUTION ACCURACY
SGT 1376.4 SGR 569.7 SG3 1367.0
RRT .8934 RRF .9963 RTF .8960
SGB 1489.7 R23 .3794 R13 .9213
SG1 1470.3 SG2 239.6 THA 20.87

ORBIT DETERMINATION ACCURACY
ST 540.5 SR 341.3 SS 2058.0
CRT .9534 CRS -.9998 CST -.9484
LSA 2148.6 MSA 166.3 SSA 2.9
EL1 633.1 EL2 87.9 ALF 31.73

LAUNCH DATE JUN 9 1967 FLIGHT TIME 144.00 ARRIVAL DATE OCT 31 1967

HELIOCENTRIC CONIC DISTANCE 397.158

RL 151.86 LAL -.00 LOL 257.50 VL 26.942 GAL -.83 AZL 91.86 HCA 177.55 SMA 129.87 ECC .16998 INC 1.8367 V1 29.337
RP 107.80 LAP -.08 LOP 75.05 VP 37.952 GAP .24 AZP 88.14 TAL 184.08 TAP 1.63 RCA 107.79 APO 151.94 V2 35.154
RC 92.232 GL -19.39 GP -19.90 ZAL 103.21 ZAP 96.81 ETS 358.05 ZAE 159.35 ETE 231.58 ZAC 111.05 ETC 8.62 CLP -97.24

PLANETOCENTRIC CONIC

C3 6.940 VHL 2.634 DLA -7.88 RAL 148.43 RAD 6567.2 VEL 11.328 PTH 1.95 VHP 2.986 DPA -6.79 RAP 153.49 ECC 1.1142

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 7 51	1746.88	-6.16	13.72	354.87	117.69	5 36 58	1146.9	-2.41	7.05
90.00	15 7 12	4884.22	20.18	212.06	356.57	69.71	16 28 36	4284.2	17.24	204.63
100.00	6 25 24	1496.71	-6.88	354.93	354.48	119.16	6 50 21	896.7	-2.94	348.36
100.00	16 32 20	4609.62	20.95	191.55	356.26	68.17	17 49 10	4009.6	17.80	184.17
110.00	7 24 59	1310.17	-8.77	339.62	353.32	123.17	7 46 49	710.2	-4.35	333.33
110.00	17 49 15	4368.93	22.97	172.31	355.29	63.96	19 2 4	3768.9	19.28	165.12

DIFFERENTIAL CORRECTIONS
TDE -.2038 TRA -.1616 TC3-2.8381 BAU .3237
RDE -.2270 RRA .0743 RC3-2.0283 FAU .19033
FDE-2.5211 FRA .9053 FC-23.7420 BSP 5338
BDE .3051 BRA .1779 BC3 3.4884 FSP -3561

MID-COURSE EXECUTION ACCURACY
SGT 1599.5 SGR 1188.5 SG3 1192.5
RRT .9253 RRF .9998 RTF .9255
SGB 1992.7 R23 .2497 R13 .9681
SG1 1958.4 SG2 368.1 THA 35.98

ORBIT DETERMINATION ACCURACY
ST 458.1 SR 497.2 SS 1426.0
CRT .9444 CRS -.9999 CST -.9414
LSA 1571.2 MSA 148.2 SSA 2.1
EL1 666.7 EL2 112.3 ALF 47.48

LAUNCH DATE JUN 9 1967 FLIGHT TIME 146.00 ARRIVAL DATE NOV 2 1967

HELIOCENTRIC CONIC DISTANCE 403.485

RL 151.86 LAL -.00 LOL 257.50 VL 26.936 GAL -.76 AZL 98.21 HCA 180.78 SMA 129.82 ECC .17027 INC 8.1829 V1 29.337
RP 107.77 LAP .11 LOP 78.27 VP 37.957 GAP .65 AZP 81.79 TAL 183.69 TAP 4.47 RCA 107.72 APO 151.93 V2 35.165
RC 94.474 GL -54.56 GP 49.40 ZAL 96.87 ZAP 98.50 ETS 11.13 ZAE 125.25 ETE 112.48 ZAC 91.82 ETC 25.60 CLP-103.12

PLANETOCENTRIC CONIC

C3 22.270 VHL 4.719 DLA -40.70 RAL 134.14 RAD 6567.9 VEL 11.985 PTH 2.14 VHP 4.195 DPA 56.56 RAP 187.89 ECC 1.3665

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.45	5 46 9	1554.88	26.58	18.61	8.56	122.04	6 12 4	954.9	30.61	11.15
120.55	12 34 52	5569.58	26.59	259.38	8.57	122.03	14 7 42	4969.6	30.62	251.92
59.45	5 46 9	1554.88	26.58	18.61	8.56	122.04	6 12 4	954.9	30.61	11.15
120.55	12 34 52	5569.58	26.59	259.38	8.57	122.03	14 7 42	4969.6	30.62	251.92
59.45	5 46 9	1554.88	26.58	18.61	8.56	122.04	6 12 4	954.9	30.61	11.15
120.55	12 34 52	5569.58	26.59	259.38	8.57	122.03	14 7 42	4969.6	30.62	251.92

DIFFERENTIAL CORRECTIONS
TDE-1.0958 TRA -.4350 TC3 -.7514 BAU .3602
RDE 1.8029 RRA .0673 RC3 .9483 FAU .07028
FDE-5.1423 FRA -.2387 FC3-2.7320 BSP 4822
BDE 2.1098 BRA .4402 BC3 1.2099 FSP -1064

MID-COURSE EXECUTION ACCURACY
SGT 1660.8 SGR 2367.3 SG3 584.6
RRT -.9212 RRF -.9999 RTF .9257
SGB 2891.8 R23 .1166 R13 -.9932
SG1 2841.3 SG2 538.3 THA 124.28

ORBIT DETERMINATION ACCURACY
ST 1346.9 SR 2189.4 SS 2263.4
CRT -.9901 CRS 1.0000 CST -.9906
LSA 3420.6 MSA 172.2 SSA .5
EL1 2565.4 EL2 161.7 ALF 121.48

LAUNCH DATE JUN 9 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 4 1967

HELIOCENTRIC CONIC DISTANCE 409.794

RL 151.86 LAL -.00 LOL 257.50 VL 26.927 GAL -.66 AZL 94.33 HCA 184.01 SMA 129.76 ECC .17072 INC 4.3245 V1 29.337
RP 107.73 LAP .30 LOP 81.50 VP 37.961 GAP 1.05 AZP 85.68 TAL 183.22 TAP 7.23 RCA 107.61 APO 151.91 V2 35.175
RC 96.719 GL -38.64 GP 12.05 ZAL 99.20 ZAP 107.16 ETS 4.54 ZAE 154.68 ETE 145.50 ZAC 107.18 ETC 19.97 CLP-107.56

PLANETOCENTRIC CONIC

C3 10.594 VHL 3.255 DLA -26.42 RAL 142.63 RAD 6567.4 VEL 11.488 PTH 2.00 VHP 2.976 DPA 24.37 RAP 161.72 ECC 1.1743

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 13 33	1049.48	15.54	333.99	358.78	113.97	8 31 3	449.5	18.65	326.70
90.00	11 15 12	5741.76	27.26	272.44	2.38	97.96	12 50 54	5141.8	28.08	263.87
100.00	9 5 16	882.49	13.49	320.72	357.77	116.93	9 19 58	282.5	16.99	313.68
100.00	13 6 11	5383.99	29.53	246.41	2.67	94.88	14 35 55	4784.0	29.89	237.62
110.00	9 22 30	828.38	9.48	314.26	355.41	123.00	9 36 18	228.4	13.76	307.78
110.00	15 5 26	5010.86	34.15	218.23	2.82	88.43	16 28 57	4410.9	33.56	209.04

DIFFERENTIAL CORRECTIONS
TDE -.7952 TRA -.3017 TC3-2.5536 BAU .3743
RDE .2778 RRA -.0185 RC3 .6815 FAU .17951
FDE-5.6112 FRA .3417 FC-14.6697 BSP 6382
BDE .8423 BRA .3023 BC3 2.6429 FSP -3357

MID-COURSE EXECUTION ACCURACY
SGT 2252.6 SGR 661.2 SG3 1188.5
RRT -.9401 RRF -.9995 RTF .9457
SGB 2347.7 R23 .2994 R13 -.9537
SG1 2337.6 SG2 217.2 THA 164.43

ORBIT DETERMINATION ACCURACY
ST 1411.9 SR 489.3 SS 2541.0
CRT -.9889 CRS 1.0000 CST -.9892
LSA 2942.2 MSA 181.8 SSA .9
EL1 1492.7 EL2 68.7 ALF 161.04

LAUNCH DATE JUN 9 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 6 1967

DISTANCE 416.075

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.915 GAL -.56 AZL 93.91 HCA 187.24 SMA 129.68 ECC .17131 INC 3.9083 V1 29.337
RP 107.70 LAP .49 LOP 84.72 VP 37.962 GAP 1.45 AZP 86.12 TAL 182.71 TAP 9.95 RCA 107.47 APO 151.90 V2 35.185
RC 98.967 GL -35.96 GP 6.58 ZAL 98.69 ZAP 112.15 ETS 3.52 ZAE 154.35 ETE 160.10 ZAC 110.33 ETC 18.68 CLP-112.30

PLANETOCENTRIC CONIC
C3 9.767 VHL 3.125 DLA -24.30 RAL 144.68 RAD 6567.4 VEL 11.452 PTH 1.99 VHP 3.006 DPA 19.84 RAP 158.04 ECC 1.1607

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 40 37	1173.41	11.99	341.35	358.40	115.85	8 0 11	573.4	15.37	334.31
90.00	12 4 28	5585.28	28.23	261.10	2.73	92.36	13 37 33	4985.3	28.26	252.44
100.00	8 41 22	977.31	10.50	326.17	357.63	118.15	8 57 39	377.3	14.18	319.32
100.00	13 46 25	5256.61	29.89	236.96	2.77	89.93	15 14 1	4656.6	29.56	228.17
110.00	9 9 20	889.58	7.19	317.53	355.64	123.51	9 24 10	289.6	11.55	311.14
110.00	15 34 56	4917.10	33.74	210.94	2.54	84.14	16 56 53	4317.1	32.56	201.90

DIFFERENTIAL CORRECTIONS
TDE -.8652 TRA -.2875 TC3-3.2644 BAU .4290
RDE .1487 RRA -.0066 RC3 .3700 FAU .18931
FDE-5.3150 FRA .3276 FC-16.7796 BSP 7842
BDE .8779 BRA .2875 BC3 3.2853 FSP -3863

MID-COURSE EXECUTION ACCURACY
SGT 2648.3 SGR 357.7 SG3 1238.2
RRT -.9464 RRF -.9929 RTF .9610
SGB 2672.4 R23 .2529 R13 -.9624
SG1 2669.9 SG2 114.6 THA 172.70

ORBIT DETERMINATION ACCURACY
ST 1596.8 SR 272.7 SS 2532.7
CRT -.9923 CRS 1.0000 CST -.9917
LSA 3001.3 MSA 174.7 SSA 1.9
EL1 1619.5 EL2 33.3 ALF 170.38

LAUNCH DATE JUN 9 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 8 1967

DISTANCE 422.341

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.902 GAL -.44 AZL 93.75 HCA 190.48 SMA 129.59 ECC .17206 INC 3.7479 V1 29.337
RP 107.67 LAP .68 LOP 87.95 VP 37.961 GAP 1.84 AZP 86.31 TAL 182.14 TAP 12.62 RCA 107.29 APO 151.89 V2 35.195
RC 101.218 GL -34.82 GP 4.44 ZAL 97.80 ZAP 116.65 ETS 3.13 ZAE 152.03 ETE 166.83 ZAC 112.12 ETC 18.21 CLP-116.74

PLANETOCENTRIC CONIC
C3 9.485 VHL 3.080 DLA -23.67 RAL 146.19 RAD 6567.3 VEL 11.440 PTH 1.98 VHP 3.084 DPA 18.27 RAP 156.05 ECC 1.1561

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 36 42	1202.42	11.12	343.04	359.23	116.21	7 56 44	602.4	14.55	336.05
90.00	12 20 29	5544.71	28.30	258.14	3.61	90.88	13 52 53	4944.7	28.13	249.48
100.00	8 39 5	1001.03	9.74	327.52	358.51	118.40	8 55 46	401.0	13.46	320.70
100.00	14 0 46	5221.34	29.86	234.34	3.60	88.55	15 27 47	4621.3	29.34	225.57
110.00	9 9 29	905.73	6.59	318.38	356.59	123.62	9 24 34	305.7	10.96	312.02
110.00	15 46 52	4889.40	33.52	208.81	3.28	82.89	17 8 21	4289.4	32.18	199.83

DIFFERENTIAL CORRECTIONS
TDE -.9497 TRA -.2608 TC3-3.7622 BAU .4777
RDE .1035 RRA -.0024 RC3 .1909 FAU .18249
FDE-4.9698 FRA .4597 FC-16.6576 BSP 8902
BDE .9553 BRA .2608 BC3 3.7670 FSP -3785

MID-COURSE EXECUTION ACCURACY
SGT 2961.7 SGR 225.7 SG3 1196.0
RRT -.9127 RRF -.9575 RTF .9663
SGB 2970.3 R23 .1829 R13 -.9667
SG1 2968.9 SG2 92.0 THA 176.02

ORBIT DETERMINATION ACCURACY
ST 1775.3 SR 192.6 SS 2466.1
CRT -.9951 CRS .9996 CST -.9928
LSA 3039.8 MSA 172.9 SSA 3.1
EL1 1785.6 EL2 19.0 ALF 173.84

LAUNCH DATE JUN 9 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 10 1967

DISTANCE 428.589

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.886 GAL -.32 AZL 93.66 HCA 193.72 SMA 129.48 ECC .17294 INC 3.6620 V1 29.337
RP 107.65 LAP .87 LOP 91.19 VP 37.958 GAP 2.23 AZP 86.44 TAL 181.52 TAP 15.23 RCA 107.09 APO 151.87 V2 35.204
RC 103.470 GL -34.15 GP 3.30 ZAL 96.73 ZAP 120.82 ETS 2.91 ZAE 149.49 ETE 170.57 ZAC 113.31 ETC 17.97 CLP-120.88

PLANETOCENTRIC CONIC
C3 9.358 VHL 3.059 DLA -23.52 RAL 147.63 RAD 6567.3 VEL 11.435 PTH 1.98 VHP 3.180 DPA 17.51 RAP 154.75 ECC 1.1540

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 40 7	1207.84	10.96	343.36	.43	116.28	8 0 15	607.8	14.40	336.37
90.00	12 28 29	5534.05	28.31	257.36	4.79	90.49	14 0 43	4934.0	28.08	248.70
100.00	8 42 52	1005.30	9.60	327.76	359.71	118.45	8 59 37	405.3	13.32	320.95
100.00	14 8 25	5211.82	29.84	233.63	4.77	88.18	15 35 17	4611.8	29.27	224.87
110.00	9 13 48	908.30	6.49	318.52	357.82	123.64	9 28 56	308.3	10.87	312.16
110.00	15 53 58	4881.59	33.46	208.21	4.43	82.54	17 15 20	4281.6	32.06	199.25

DIFFERENTIAL CORRECTIONS
TDE-1.0376 TRA -.2302 TC3-4.1743 BAU .5223
RDE .0836 RRA .0021 RC3 .0747 FAU .17270
FDE-4.6678 FRA .5659 FC-15.9767 BSP 9842
BDE 1.0410 BRA .2302 BC3 4.1750 FSP -3628

MID-COURSE EXECUTION ACCURACY
SGT 3243.6 SGR 163.1 SG3 1137.5
RRT -.7993 RRF -.8428 RTF .9698
SGB 3247.7 R23 .1114 R13 -.9699
SG1 3246.2 SG2 98.0 THA 177.70

ORBIT DETERMINATION ACCURACY
ST 1950.0 SR 156.6 SS 2405.6
CRT -.9975 CRS .9985 CST -.9937
LSA 3096.0 MSA 169.8 SSA 4.3
EL1 1956.3 EL2 11.1 ALF 175.42

LAUNCH DATE JUN 9 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 12 1967

DISTANCE 434.817

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.868 GAL -.18 AZL 93.61 HCA 196.96 SMA 129.36 ECC .17397 INC 3.6086 V1 29.337
RP 107.62 LAP 1.05 LOP 94.42 VP 37.953 GAP 2.61 AZP 86.55 TAL 180.84 TAP 17.80 RCA 106.86 APO 151.87 V2 35.212
RC 105.723 GL -33.67 GP 2.59 ZAL 95.51 ZAP 124.67 ETS 2.77 ZAE 147.04 ETE 172.92 ZAC 114.09 ETC 17.82 CLP-124.71

PLANETOCENTRIC CONIC
C3 9.305 VHL 3.050 DLA -23.59 RAL 149.09 RAD 6567.3 VEL 11.432 PTH 1.98 VHP 3.290 DPA 17.05 RAP 153.91 ECC 1.1531

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 47 1	1203.00	11.10	343.07	1.86	116.22	8 7 4	603.0	14.54	336.08
90.00	12 33 15	5536.68	28.31	257.55	6.19	90.58	14 5 32	4936.7	28.09	248.89
100.00	8 49 36	1000.99	9.74	327.51	1.14	118.40	9 6 17	401.0	13.46	320.70
100.00	14 13 21	5213.93	29.85	233.79	6.18	88.26	15 40 15	4613.9	29.29	225.03
110.00	9 20 17	904.77	6.62	318.33	359.25	123.61	9 35 22	304.8	11.00	311.97
110.00	15 59 10	4882.91	33.47	208.31	5.84	82.60	17 20 33	4282.9	32.08	199.35

DIFFERENTIAL CORRECTIONS
TDE-1.1242 TRA -.1939 TC3-4.5262 BAU .5631
RDE .0741 RRA .0068 RC3 -.0105 FAU .16134
FDE-4.3735 FRA .6698 FC-15.0101 BSP 10698
BDE 1.1267 BRA .1940 BC3 4.5262 FSP -3426

MID-COURSE EXECUTION ACCURACY
SGT 3498.9 SGR 139.9 SG3 1069.5
RRT -.5750 RRF -.6147 RTF .9718
SGB 3501.7 R23 .0676 R13 -.9718
SG1 3499.8 SG2 114.5 THA 178.68

ORBIT DETERMINATION ACCURACY
ST 2116.6 SR 139.2 SS 2339.2
CRT -.9988 CRS .9962 CST -.9943
LSA 3153.3 MSA 167.2 SSA 5.4
EL1 2121.1 EL2 6.7 ALF 176.24

LAUNCH DATE JUN 9 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 14 1967

HELIOCENTRIC CONIC DISTANCE 441.026

RL 151.86 LAL -.00 LOL 257.50 VL 26.849 GAL -.03 AZL 93.57 HCA 200.20 SMA 129.23 ECC .17513 INC 3.5717 VI 29.337
RP 107.60 LAP 1.23 LOP 97.66 VP 37.946 GAP 2.99 AZP 86.65 TAL 180.13 TAP 20.32 RCA 106.60 APO 151.86 V2 35.220
RC 107.975 GL -33.27 GP 2.11 ZAL 94.18 ZAP 128.24 ETS 2.66 ZAE 144.78 ETE 174.53 ZAC 114.54 ETC 17.68 CLP-128.27

PLANETOCENTRIC CONIC

C3 9.298 VHL 3.049 DLA -23.78 RAL 150.62 RAD 6567.3 VEL 11.432 PTH 1.98 VHP 3.410 DPA 16.71 RAP 153.42 ECC 1.1530

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 56 5	1192.51	11.42	342.46	3.47	116.09	8 15 57	592.5	14.83	335.45
90.00	12 36 25	5546.89	28.30	258.30	7.77	90.96	14 8 51	4946.9	28.14	249.64
100.00	8 58 12	991.99	10.03	327.00	2.75	118.31	9 14 44	392.0	13.73	320.18
100.00	14 16 59	5222.64	29.86	234.43	7.77	88.60	15 44 1	4622.6	29.35	225.67
110.00	9 28 11	897.98	6.88	317.97	.84	123.57	9 43 8	298.0	11.24	311.60
110.00	16 3 29	4889.41	33.52	208.81	7.45	82.89	17 24 59	4289.4	32.18	199.83

DIFFERENTIAL CORRECTIONS
TDE-1.2232 TRA -.1949 TC3-4.9375 BAU .6139
RDE .0707 RRA .0131 RC3 -.0715 FAU .15648
FDE-4.1778 FRA .5381 FC-14.5688 BSP 11924
BDE 1.2252 BRA .1954 BC3 4.9380 FSP -3430

MID-COURSE EXECUTION ACCURACY
SGT 3809.2 SGR 142.3 SG3 1028.8
RRT -.3403 RRF -.3687 RTF .9779
SGB 3811.9 R23 .0378 R13 -.9779
SG1 3809.5 SG2 133.8 THA 179.27

ORBIT DETERMINATION ACCURACY
ST 2303.2 SR 133.0 SS 2316.0
CRT -.9988 CRS .9938 CST -.9955
LSA 3265.3 MSA 154.4 SSA 6.6
EL1 2307.1 EL2 6.6 ALF 176.70

LAUNCH DATE JUN 9 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 16 1967

HELIOCENTRIC CONIC DISTANCE 447.218

RL 151.86 LAL -.00 LOL 257.50 VL 26.828 GAL .14 AZL 93.54 HCA 203.44 SMA 129.09 ECC .17643 INC 3.5448 VI 29.337
RP 107.58 LAP 1.41 LOP 100.89 VP 37.938 GAP 3.36 AZP 86.75 TAL 179.36 TAP 22.80 RCA 106.32 APO 151.87 V2 35.227
RC 110.226 GL -32.90 GP 1.76 ZAL 92.73 ZAP 131.54 ETS 2.56 ZAE 142.71 ETE 175.69 ZAC 114.68 ETC 17.54 CLP-131.56

PLANETOCENTRIC CONIC

C3 9.327 VHL 3.054 DLA -24.06 RAL 152.24 RAD 6567.3 VEL 11.433 PTH 1.98 VHP 3.538 DPA 16.40 RAP 153.25 ECC 1.1535

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 6 52	1178.05	11.85	341.62	5.27	115.91	8 26 30	578.0	15.24	334.58
90.00	12 38 35	5562.52	28.28	259.44	9.53	91.53	14 11 18	4962.5	28.19	250.78
100.00	9 8 17	979.80	10.42	326.31	4.53	118.18	9 24 36	379.8	14.11	319.46
100.00	14 19 51	5236.00	29.88	235.43	9.54	89.12	15 47 7	4636.0	29.44	226.65
110.00	9 37 13	889.05	7.22	317.50	2.59	123.50	9 52 2	289.0	11.57	311.12
110.00	16 7 24	4899.52	33.61	209.58	9.25	83.35	17 29 4	4299.5	32.32	200.59

DIFFERENTIAL CORRECTIONS
TDE-1.2916 TRA -.0986 TC3-5.1018 BAU .6363
RDE .0696 RRA .0168 RC3 -.1286 FAU .13911
FDE-3.8378 FRA .8703 FC-12.9128 BSP 12114
BDE 1.2935 BRA .1000 BC3 5.1034 FSP -2967

MID-COURSE EXECUTION ACCURACY
SGT 3952.6 SGR 156.3 SG3 935.5
RRT -.1275 RRF -.1534 RTF .9734
SGB 3955.7 R23 .0293 R13 -.9734
SG1 3952.7 SG2 155.0 THA 179.71

ORBIT DETERMINATION ACCURACY
ST 2425.8 SR 131.1 SS 2208.4
CRT -.9970 CRS .9870 CST -.9950
LSA 3279.0 MSA 163.0 SSA 7.8
EL1 2429.4 EL2 10.2 ALF 176.92

LAUNCH DATE JUN 9 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 18 1967

HELIOCENTRIC CONIC DISTANCE 453.389

RL 151.86 LAL -.00 LOL 257.50 VL 26.806 GAL .31 AZL 93.52 HCA 206.68 SMA 128.94 ECC .17786 INC 3.5240 VI 29.337
RP 107.56 LAP 1.58 LOP 104.13 VP 37.928 GAP 3.74 AZP 86.85 TAL 178.55 TAP 25.23 RCA 106.01 APO 151.87 V2 35.233
RC 112.475 GL -32.54 GP 1.50 ZAL 91.18 ZAP 134.59 ETS 2.46 ZAE 140.84 ETE 176.56 ZAC 114.57 ETC 17.38 CLP-134.61

PLANETOCENTRIC CONIC

C3 9.386 VHL 3.064 DLA -24.38 RAL 153.96 RAD 6567.3 VEL 11.436 PTH 1.98 VHP 3.674 DPA 16.09 RAP 153.35 ECC 1.1545

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 18 59	1160.95	12.35	340.62	7.24	115.68	8 38 20	560.9	15.71	333.55
90.00	12 40 9	5582.10	28.24	260.87	11.43	92.24	14 13 11	4982.1	28.25	252.21
100.00	9 19 29	965.60	10.88	325.50	6.47	118.02	9 35 35	365.6	14.54	318.63
100.00	14 22 20	5252.67	29.89	236.67	11.47	89.77	15 49 52	4652.7	29.54	227.88
110.00	9 47 8	878.91	7.60	316.96	4.50	123.43	10 1 47	278.9	11.94	310.56
110.00	16 11 11	4912.13	33.70	210.56	11.22	83.91	17 33 3	4312.1	32.49	201.53

DIFFERENTIAL CORRECTIONS
TDE-1.3777 TRA -.0445 TC3-5.3324 BAU .6695
RDE .0715 RRA .0222 RC3 -.1710 FAU .12880
FDE-3.6236 FRA .9381 FC-11.8801 BSP 12884
BDE 1.3795 BRA .0497 BC3 5.3352 FSP -2811

MID-COURSE EXECUTION ACCURACY
SGT 4162.0 SGR 176.0 SG3 875.3
RRT -.0088 RRF -.0314 RTF .9740
SGB 4165.7 R23 .0228 R13 -.9740
SG1 4162.0 SG2 175.9 THA 179.98

ORBIT DETERMINATION ACCURACY
ST 2578.5 SR 134.5 SS 2160.2
CRT -.9940 CRS .9811 CST -.9954
LSA 3362.7 MSA 159.5 SSA 8.9
EL1 2582.0 EL2 14.7 ALF 177.03

LAUNCH DATE JUN 9 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 20 1967

HELIOCENTRIC CONIC DISTANCE 459.542

RL 151.86 LAL -.00 LOL 257.50 VL 26.782 GAL .50 AZL 93.51 HCA 209.92 SMA 128.78 ECC .17944 INC 3.5075 VI 29.337
RP 107.54 LAP 1.75 LOP 107.37 VP 37.917 GAP 4.11 AZP 86.96 TAL 177.71 TAP 27.63 RCA 105.67 APO 151.89 V2 35.239
RC 114.720 GL -32.16 GP 1.30 ZAL 89.54 ZAP 137.43 ETS 2.37 ZAE 139.16 ETE 177.24 ZAC 114.23 ETC 17.21 CLP-137.44

PLANETOCENTRIC CONIC

C3 9.476 VHL 3.078 DLA -24.74 RAL 155.77 RAD 6567.3 VEL 11.440 PTH 1.98 VHP 3.817 DPA 15.76 RAP 153.68 ECC 1.1559

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 32 19	1141.67	12.92	339.49	9.37	115.42	8 51 21	541.7	16.24	332.38
90.00	12 41 17	5605.10	28.16	262.55	13.49	93.08	14 14 42	5005.1	28.29	253.89
100.00	9 31 43	949.89	11.38	324.61	8.58	117.83	9 47 33	349.9	15.01	317.70
100.00	14 24 34	5272.10	29.89	238.11	13.55	90.53	15 52 26	4672.1	29.64	229.32
110.00	9 57 50	867.99	8.00	316.38	6.56	123.34	10 12 18	268.0	12.34	309.96
110.00	16 14 57	4926.77	33.80	211.69	13.36	84.58	17 37 3	4326.8	32.68	202.63

DIFFERENTIAL CORRECTIONS
TDE-1.4557 TRA .0253 TC3-5.5143 BAU .6990
RDE .0750 RRA .0277 RC3 -.2055 FAU .11877
FDE-3.3963 FRA 1.0298 FC-10.8510 BSP 13432
BDE 1.4577 BRA .0376 BC3 5.5181 FSP -2603

MID-COURSE EXECUTION ACCURACY
SGT 4343.9 SGR 196.8 SG3 815.3
RRT .0632 RRF .0443 RTF .9738
SGB 4348.4 R23 -.0174 R13 .9738
SG1 4343.9 SG2 196.4 THA .16

ORBIT DETERMINATION ACCURACY
ST 2711.5 SR 140.7 SS 2096.2
CRT -.9898 CRS .9739 CST -.9956
LSA 3426.6 MSA 157.8 SSA 10.0
EL1 2715.1 EL2 20.0 ALF 177.06

LAUNCH DATE JUN 9 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 22 1967

DISTANCE 465.675

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.757 GAL .70 AZL 93.49 HCA 213.17 SMA 128.62 ECC .18116 INC 3.4939 V1 29.337
RP 107.52 LAP 1.91 LOP 110.62 VP 37.904 GAP 4.48 AZP 87.07 TAL 176.82 TAP 29.99 RCA 105.32 APO 151.91 V2 35.244
RC 116.961 GL -31.76 GP 1.14 ZAL 87.80 ZAP 140.06 ETS 2.28 ZAE 137.65 ETE 177.78 ZAC 113.69 ETC 17.01 CLP-140.07

PLANETOCENTRIC CONIC
C3 9.596 VHL 3.098 DLA -25.13 RAL 157.68 RAD 6567.3 VEL 11.445 PTH 1.99 VHP 3.966 DPA 15.40 RAP 154.22 ECC 1.1579

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 46 46	1120.65	13.53	338.25	11.66	115.11	9 5 27	520.7	16.81	331.10
90.00	12 42 4	5631.08	28.05	264.44	15.69	94.03	14 15 55	5031.1	28.32	255.79
100.00	9 44 51	933.16	11.91	323.65	10.84	117.62	10 0 24	333.2	15.51	316.71
100.00	14 26 41	5293.80	29.86	239.72	15.78	91.38	15 54 54	4693.8	29.74	230.92
110.00	10 9 12	856.73	8.43	315.78	8.76	123.25	10 23 29	256.7	12.74	309.35
110.00	16 18 48	4943.00	33.90	212.95	15.65	85.31	17 41 11	4343.0	32.88	203.86

DIFFERENTIAL CORRECTIONS
TDE-1.5366 TRA .0971 TC3-5.6658 BAU .7275
RDE .0799 RRA .0335 RC3 -.2330 FAU .10969
FDE-3.2024 FRA 1.0921 FC3-9.8952 BSP 14035
BDE 1.5386 BRA .1027 BC3 5.6706 FSP -2440

MID-COURSE EXECUTION ACCURACY
SGT 4520.9 SGR 217.6 SG3 761.3
RRT .1019 RRF .0846 RTF .9739
SGB 4526.1 R23 -.0150 R13 .9739
SG1 4521.0 SG2 216.5 THA .28

ORBIT DETERMINATION ACCURACY
ST 2844.6 SR 149.3 SS 2043.3
CRT -.9852 CRS .9670 CST -.9958
LSA 3502.1 MSA 154.6 SSA 11.1
EL1 2848.4 EL2 25.5 ALF 177.04

LAUNCH DATE JUN 9 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 24 1967

DISTANCE 471.788

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.731 GAL .92 AZL 93.48 HCA 216.41 SMA 128.44 ECC .18303 INC 3.4824 V1 29.337
RP 107.51 LAP 2.07 LOP 113.86 VP 37.890 GAP 4.84 AZP 87.20 TAL 175.90 TAP 32.31 RCA 104.93 APO 151.95 V2 35.248
RC 119.197 GL -31.33 GP 1.01 ZAL 85.99 ZAP 142.51 ETS 2.19 ZAE 136.29 ETE 178.21 ZAC 112.96 ETC 16.81 CLP-142.52

PLANETOCENTRIC CONIC
C3 9.750 VHL 3.123 DLA -25.52 RAL 159.69 RAD 6567.4 VEL 11.452 PTH 1.99 VHP 4.120 DPA 15.00 RAP 154.95 ECC 1.1605

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 2 16	1098.14	14.18	336.91	14.12	114.77	9 20 34	498.1	17.40	329.72
90.00	12 42 33	5659.86	27.90	266.53	18.02	95.06	14 16 53	5059.9	28.31	257.89
100.00	9 58 45	915.74	12.46	322.64	13.25	117.39	10 14 1	315.7	16.03	315.68
100.00	14 28 45	5317.49	29.81	241.48	18.16	92.31	15 57 22	4717.5	29.81	232.68
110.00	10 21 10	845.43	8.85	315.18	11.11	123.15	10 35 15	245.4	13.15	308.72
110.00	16 22 49	4960.57	33.99	214.31	18.09	86.12	17 45 30	4360.6	33.08	205.19

DIFFERENTIAL CORRECTIONS
TDE-1.6156 TRA .1766 TC3-5.7836 BAU .7546
RDE .0859 RRA .0393 RC3 -.2543 FAU .10141
FDE-3.0206 FRA 1.1473 FC3-9.0048 BSP 14574
BDE 1.6179 BRA .1810 BC3 5.7892 FSP -2281

MID-COURSE EXECUTION ACCURACY
SGT 4686.5 SGR 237.6 SG3 711.4
RRT .1213 RRF .1053 RTF .9740
SGB 4692.5 R23 -.0133 R13 .9740
SG1 4686.5 SG2 235.9 THA .35

ORBIT DETERMINATION ACCURACY
ST 2968.4 SR 159.5 SS 1989.5
CRT -.9803 CRS .9602 CST -.9960
LSA 3573.8 MSA 151.5 SSA 12.2
EL1 2972.5 EL2 31.4 ALF 176.98

LAUNCH DATE JUN 9 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 26 1967

DISTANCE 477.881

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.704 GAL 1.15 AZL 93.47 HCA 219.66 SMA 128.26 ECC .18504 INC 3.4726 V1 29.337
RP 107.50 LAP 2.22 LOP 117.10 VP 37.874 GAP 5.21 AZP 87.33 TAL 174.94 TAP 34.60 RCA 104.53 APO 152.00 V2 35.252
RC 121.426 GL -30.86 GP .90 ZAL 84.10 ZAP 144.80 ETS 2.10 ZAE 135.08 ETE 178.57 ZAC 112.07 ETC 16.58 CLP-144.81

PLANETOCENTRIC CONIC
C3 9.940 VHL 3.153 DLA -25.92 RAL 161.78 RAD 6567.4 VEL 11.460 PTH 1.99 VHP 4.279 DPA 14.57 RAP 155.84 ECC 1.1636

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 18 46	1074.30	14.85	335.48	16.73	114.39	9 36 40	474.3	18.02	328.24
90.00	12 42 45	5691.34	27.69	268.81	20.48	96.19	14 17 36	5091.3	28.26	260.19
100.00	10 13 22	897.96	13.01	321.62	15.81	117.15	10 28 20	298.0	16.55	314.61
100.00	14 30 49	5342.91	29.73	243.37	20.67	93.30	15 59 52	4742.9	29.87	234.57
110.00	10 33 37	834.42	9.26	314.59	13.59	123.05	10 47 31	234.4	13.54	308.11
110.00	16 27 4	4979.21	34.07	215.76	20.69	86.97	17 50 3	4379.2	33.27	206.61

DIFFERENTIAL CORRECTIONS
TDE-1.6941 TRA .2638 TC3-5.8655 BAU .7803
RDE .0929 RRA .0452 RC3 -.2702 FAU .09378
FDE-2.8535 FRA 1.1956 FC3-8.1678 BSP 15112
BDE 1.6966 BRA .2676 BC3 5.8718 FSP -2143

MID-COURSE EXECUTION ACCURACY
SGT 4841.6 SGR 256.6 SG3 665.1
RRT .1278 RRF .1124 RTF .9740
SGB 4848.4 R23 -.0125 R13 .9740
SG1 4841.8 SG2 254.5 THA .39

ORBIT DETERMINATION ACCURACY
ST 3084.9 SR 171.2 SS 1936.9
CRT -.9753 CRS .9537 CST -.9962
LSA 3643.5 MSA 148.3 SSA 13.2
EL1 3089.4 EL2 37.7 ALF 176.90

LAUNCH DATE JUN 9 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 28 1967

DISTANCE 483.954

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.676 GAL 1.39 AZL 93.46 HCA 222.91 SMA 128.08 ECC .18722 INC 3.4641 V1 29.337
RP 107.49 LAP 2.36 LOP 120.35 VP 37.857 GAP 5.58 AZP 87.46 TAL 173.96 TAP 36.86 RCA 104.10 APO 152.06 V2 35.255
RC 123.648 GL -30.35 GP .81 ZAL 82.14 ZAP 146.95 ETS 2.01 ZAE 133.99 ETE 178.87 ZAC 111.03 ETC 16.35 CLP-146.95

PLANETOCENTRIC CONIC
C3 10.169 VHL 3.189 DLA -26.32 RAL 163.95 RAD 6567.4 VEL 11.470 PTH 1.99 VHP 4.444 DPA 14.09 RAP 156.87 ECC 1.1673

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 36 14	1049.21	15.55	333.97	19.49	113.96	9 53 43	449.2	18.66	326.68
90.00	12 42 39	5725.52	27.41	271.28	23.06	97.39	14 18 4	5125.5	28.15	262.69
100.00	10 28 36	880.11	13.56	320.58	18.51	116.90	10 43 16	280.1	17.06	313.54
100.00	14 32 58	5369.85	29.60	245.36	23.32	94.34	16 2 28	4769.8	29.89	236.57
110.00	10 46 28	823.98	9.64	314.03	16.21	122.95	11 0 12	224.0	13.92	307.53
110.00	16 31 34	4998.74	34.12	217.28	23.42	87.87	17 54 53	4398.7	33.45	208.10

DIFFERENTIAL CORRECTIONS
TDE-1.7695 TRA .3636 TC3-5.8970 BAU .8026
RDE .1009 RRA .0510 RC3 -.2809 FAU .08632
FDE-2.6941 FRA 1.2496 FC3-7.3490 BSP 15538
BDE 1.7724 BRA .3671 BC3 5.9037 FSP -1999

MID-COURSE EXECUTION ACCURACY
SGT 4978.3 SGR 274.6 SG3 621.1
RRT .1258 RRF .1106 RTF .9736
SGB 4985.9 R23 -.0123 R13 .9736
SG1 4978.5 SG2 272.5 THA .40

ORBIT DETERMINATION ACCURACY
ST 3188.9 SR 183.9 SS 1881.6
CRT -.9702 CRS .9471 CST -.9963
LSA 3704.3 MSA 146.1 SSA 14.2
EL1 3193.9 EL2 44.5 ALF 176.80

LAUNCH DATE JUN 9 1967 FLIGHT TIME 174.00 ARRIVAL DATE NOV 30 1967

HELIOCENTRIC CONIC DISTANCE 490.005

RL 151.86 LAL -.00 LOL 257.50 VL 26.648 GAL 1.64 AZL 93.46 HCA 226.15 SMA 127.89 ECC .18956 INC 3.4565 VI 29.337
RP 107.48 LAP 2.49 LOP 123.60 VP 37.839 GAP 5.95 AZP 87.60 TAL 172.94 TAP 39.10 RCA 103.65 APO 152.13 V2 35.257
RC 125.861 GL -29.80 GP .74 ZAL 80.12 ZAP 148.96 ETS 1.91 ZAE 133.01 ETE 179.12 ZAC 109.86 ETC 16.11 CLP-148.97

PLANETOCENTRIC CONIC

C3 10.441 VHL 3.231 DLA -26.70 RAL 166.21 RAD 6567.4 VEL 11.482 PTH 2.00 VHP 4.613 DPA 13.58 RAP 158.03 ECC 1.1718

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 54 40	1022.90	16.27	332.38	22.41	113.50	10 11 43	422.9	19.31	325.02
90.00	12 42 11	5762.46	27.06	273.92	25.75	98.68	14 18 14	5162.5	27.98	265.38
100.00	10 44 19	862.55	14.10	319.55	21.35	116.63	10 58 41	262.5	17.56	312.47
100.00	14 35 14	5398.04	29.44	247.44	26.08	95.42	16 5 12	4798.0	29.88	238.67
110.00	10 59 38	814.45	10.00	313.51	18.96	122.86	11 13 13	214.4	14.26	307.00
110.00	16 36 24	5018.91	34.16	218.86	26.29	88.80	18 0 3	4418.9	33.62	209.66

DIFFERENTIAL CORRECTIONS
TOE-1.8452 TRA .4704 TC3-5.8995 BAU .8245
RDE .1098 RRA .0567 RC3 -.2870 FAU .07963
FDE-2.5484 FRA 1.2951 FC3-6.6024 BSP 15984
BDE 1.8485 BRA .4738 BC3 5.9065 FSP -1876

MID-COURSE EXECUTION ACCURACY
SGT 5110.0 SGR 291.5 SG3 581.1
RRT .1177 RRF .1026 RTF .9734
SGB 5118.3 R23 -.0124 R13 .9734
SG1 5110.1 SG2 289.5 THA .39

ORBIT DETERMINATION ACCURACY
ST 3285.8 SR 197.7 SS 1827.9
CRT -.9651 CRS .9409 CST -.9965
LSA 3762.5 MSA 144.1 SSA 15.1
EL1 3291.4 EL2 51.6 ALF 176.68

LAUNCH DATE JUN 9 1967 FLIGHT TIME 176.00 ARRIVAL DATE DEC 2 1967

HELIOCENTRIC CONIC DISTANCE 496.033

RL 151.86 LAL -.00 LOL 257.50 VL 26.618 GAL 1.91 AZL 93.45 HCA 229.40 SMA 127.70 ECC .19207 INC 3.4497 VI 29.337
RP 107.48 LAP 2.62 LOP 126.85 VP 37.820 GAP 6.32 AZP 87.75 TAL 171.90 TAP 41.30 RCA 103.17 APO 152.22 V2 35.258
RC 128.066 GL -29.21 GP .67 ZAL 78.05 ZAP 150.85 ETS 1.82 ZAE 132.13 ETE 179.34 ZAC 108.57 ETC 15.87 CLP-150.86

PLANETOCENTRIC CONIC

C3 10.761 VHL 3.280 DLA -27.07 RAL 168.53 RAD 6567.4 VEL 11.496 PTH 2.00 VHP 4.788 DPA 13.03 RAP 159.31 ECC 1.1771

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 14 6	995.23	17.02	330.69	25.47	112.98	10 30 41	395.2	19.98	323.27
90.00	12 41 18	5802.40	26.62	276.76	28.53	100.03	14 18 0	5202.4	27.73	268.27
100.00	11 0 24	845.62	14.61	318.56	24.32	116.37	11 14 30	245.6	18.04	311.44
100.00	14 37 40	5427.24	29.23	249.59	28.96	96.53	16 8 8	4827.2	29.83	240.83
110.00	11 12 59	806.10	10.30	313.06	21.82	122.77	11 26 26	206.1	14.55	306.54
110.00	16 41 35	5039.52	34.18	220.47	29.28	89.76	18 5 34	4439.5	33.77	211.25

DIFFERENTIAL CORRECTIONS
TOE-1.9217 TRA .5843 TC3-5.8729 BAU .8460
RDE .1196 RRA .0623 RC3 -.2888 FAU .07363
FDE-2.4172 FRA 1.3325 FC3-5.9233 BSP 16430
BDE 1.9254 BRA .5876 BC3 5.8800 FSP -1767

MID-COURSE EXECUTION ACCURACY
SGT 5237.0 SGR 307.3 SG3 544.8
RRT .1049 RRF .0896 RTF .9733
SGB 5246.0 R23 -.0129 R13 .9733
SG1 5237.1 SG2 305.6 THA .35

ORBIT DETERMINATION ACCURACY
ST 3376.0 SR 212.2 SS 1777.0
CRT -.9604 CRS .9354 CST -.9967
LSA 3818.3 MSA 142.1 SSA 15.9
EL1 3382.1 EL2 59.0 ALF 176.54

LAUNCH DATE JUN 9 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 4 1967

HELIOCENTRIC CONIC DISTANCE 502.039

RL 151.86 LAL -.00 LOL 257.50 VL 26.588 GAL 2.20 AZL 93.44 HCA 232.65 SMA 127.50 ECC .19476 INC 3.4436 VI 29.337
RP 107.48 LAP 2.74 LOP 130.10 VP 37.799 GAP 6.70 AZP 87.91 TAL 170.83 TAP 43.48 RCA 102.67 APO 152.33 V2 35.259
RC 130.261 GL -28.57 GP .62 ZAL 75.93 ZAP 152.65 ETS 1.72 ZAE 131.35 ETE 179.51 ZAC 107.18 ETC 15.63 CLP-152.65

PLANETOCENTRIC CONIC

C3 11.136 VHL 3.337 DLA -27.42 RAL 170.91 RAD 6567.4 VEL 11.512 PTH 2.01 VHP 4.968 DPA 12.45 RAP 160.68 ECC 1.1833

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 34 38	965.78	17.79	328.87	28.68	112.40	10 50 44	365.8	20.67	321.39
90.00	12 39 47	5845.87	26.07	279.83	31.39	101.47	14 17 12	5245.9	27.39	271.41
100.00	11 16 44	829.71	15.09	317.62	27.41	116.11	11 30 34	229.7	18.48	310.47
100.00	14 40 21	5457.17	28.98	251.78	31.95	97.66	16 11 18	4857.2	29.74	243.05
110.00	11 26 26	799.25	10.56	312.69	24.79	122.70	11 39 45	199.3	14.79	306.15
110.00	16 47 9	5060.39	34.18	222.10	32.39	90.72	18 11 29	4460.4	33.90	212.86

DIFFERENTIAL CORRECTIONS
TOE-1.9963 TRA .7095 TC3-5.8064 BAU .8655
RDE .1303 RRA .0676 RC3 -.2866 FAU .06795
FDE-2.2930 FRA 1.3711 FC3-5.2824 BSP 16815
BDE 2.0006 BRA .7128 BC3 5.8135 FSP -1661

MID-COURSE EXECUTION ACCURACY
SGT 5352.6 SGR 322.1 SG3 510.9
RRT .0890 RRF .0735 RTF .9731
SGB 5362.2 R23 -.0135 R13 .9731
SG1 5352.6 SG2 320.8 THA .31

ORBIT DETERMINATION ACCURACY
ST 3454.3 SR 227.3 SS 1724.6
CRT -.9557 CRS .9300 CST -.9968
LSA 3864.9 MSA 141.2 SSA 16.6
EL1 3461.1 EL2 66.8 ALF 176.40

LAUNCH DATE JUN 9 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 6 1967

HELIOCENTRIC CONIC DISTANCE 508.021

RL 151.86 LAL -.00 LOL 257.50 VL 26.557 GAL 2.50 AZL 93.44 HCA 235.90 SMA 127.30 ECC .19764 INC 3.4380 VI 29.337
RP 107.48 LAP 2.85 LOP 133.35 VP 37.777 GAP 7.08 AZP 88.07 TAL 169.74 TAP 45.64 RCA 102.14 APO 152.46 V2 35.259
RC 132.447 GL -27.89 GP .57 ZAL 73.78 ZAP 154.34 ETS 1.62 ZAE 130.64 ETE 179.67 ZAC 105.69 ETC 15.39 CLP-154.35

PLANETOCENTRIC CONIC

C3 11.570 VHL 3.401 DLA -27.74 RAL 173.35 RAD 6567.4 VEL 11.531 PTH 2.01 VHP 5.153 DPA 11.83 RAP 162.13 ECC 1.1904

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 56 34	933.51	18.62	326.86	32.04	111.73	11 12 8	333.5	21.40	319.30
90.00	12 37 15	605.95	25.37	305.27	34.31	103.02	12 47 21	5.9	26.91	296.94
100.00	11 33 9	815.23	15.53	316.76	30.61	115.87	11 46 45	215.2	18.88	309.57
100.00	14 43 21	5487.50	28.69	253.98	35.03	98.78	16 14 48	4887.5	29.60	245.30
110.00	11 39 51	794.20	10.74	312.42	27.86	122.65	11 53 5	194.2	14.97	305.87
110.00	16 53 8	5081.30	34.15	223.73	35.62	91.69	18 17 50	4481.3	34.00	214.49

DIFFERENTIAL CORRECTIONS
TOE-2.0697 TRA .8440 TC3-5.7080 BAU .8840
RDE .1420 RRA .0726 RC3 -.2808 FAU .06269
FDE-2.1766 FRA 1.4059 FC3-4.6912 BSP 17192
BDE 2.0746 BRA .8471 BC3 5.7149 FSP -1565

MID-COURSE EXECUTION ACCURACY
SGT 5460.1 SGR 335.9 SG3 479.4
RRT .0706 RRF .0547 RTF .9728
SGB 5470.5 R23 -.0143 R13 .9728
SG1 5460.2 SG2 335.0 THA .25

ORBIT DETERMINATION ACCURACY
ST 3521.5 SR 242.9 SS 1671.5
CRT -.9511 CRS .9249 CST -.9969
LSA 3903.1 MSA 140.9 SSA 17.1
EL1 3529.1 EL2 74.8 ALF 176.25

LAUNCH DATE JUN 9 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 8 1967

DISTANCE 513.978

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.526 GAL 2.82 AZL 93.43 HCA 239.15 SMA 127.10 ECC .20073 INC 3.4327 V1 29.337
RP 107.48 LAP 2.95 LOP 136.60 VP 37.755 GAP 7.46 AZP 88.24 TAL 168.63 TAP 47.77 RCA 101.59 APO 152.61 V2 35.258
RC 134.624 GL -27.17 GP .53 ZAL 71.61 ZAP 155.95 ETS 1.52 ZAE 130.00 ETE 179.79 ZAC 104.12 ETC 15.15 CLP-155.96

PLANETOCENTRIC CONIC
C3 12.071 VHL 3.474 DLA -28.02 RAL 175.82 RAD 6567.5 VEL 11.552 PTH 2.02 VHP 5.344 DPA 11.18 RAP 163.67 ECC 1.1987

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 20 48	895.42	19.56	324.47	35.56	110.89	11 35 44	295.4	22.23	316.81
90.00	12 32 44	661.82	24.46	309.11	37.25	104.73	12 43 46	61.8	26.25	300.90
100.00	11 49 29	802.66	15.90	316.01	33.90	115.65	12 2 52	202.7	19.22	308.80
100.00	14 46 44	5517.85	28.35	256.18	38.20	99.89	16 18 42	4917.8	29.43	247.54
110.00	11 53 8	791.22	10.85	312.26	31.01	122.62	12 6 19	191.2	15.08	305.70
110.00	16 59 35	5102.06	34.09	225.35	38.94	92.64	18 24 37	4502.1	34.08	216.10

DIFFERENTIAL CORRECTIONS
TDE-2.1394 TRA .9911 TC3-5.5700 BAU .8999
RDE .1547 RRA .0771 RC3 -.2720 FAU .05767
FDE-2.0643 FRA 1.4414 FC3-4.1365 BSP 17483
BDE 2.1450 BRA .9941 BC3 5.5766 FSP -1469

MID-COURSE EXECUTION ACCURACY
SGT 5554.8 SGR 348.6 SG3 449.8
RRT .0507 RRF .0345 RTF .9724
SGB 5565.7 R23 -.0150 R13 .9724
SG1 5554.8 SG2 348.2 THA .18

ORBIT DETERMINATION ACCURACY
ST 3573.5 SR 258.8 SS 1615.9
CRT -.9465 CRS .9197 CST -.9970
LSA 3927.8 MSA 141.7 SSA 17.5
EL1 3581.9 EL2 83.3 ALF 176.08

LAUNCH DATE JUN 9 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 10 1967

DISTANCE 519.908

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.495 GAL 3.16 AZL 93.43 HCA 242.39 SMA 126.90 ECC .20403 INC 3.4278 V1 29.337
RP 107.48 LAP 3.04 LOP 139.85 VP 37.731 GAP 7.85 AZP 88.41 TAL 167.50 TAP 49.89 RCA 101.00 APO 152.79 V2 35.256
RC 136.791 GL -26.41 GP .49 ZAL 69.43 ZAP 157.49 ETS 1.43 ZAE 129.43 ETE 179.90 ZAC 102.47 ETC 14.93 CLP-157.50

PLANETOCENTRIC CONIC
C3 12.646 VHL 3.556 DLA -28.27 RAL 178.32 RAD 6567.5 VEL 11.577 PTH 2.02 VHP 5.541 DPA 10.50 RAP 165.26 ECC 1.2081

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 52 12	835.64	20.96	320.65	39.36	109.48	12 6 8	235.6	23.43	312.84
90.00	12 21 16	741.39	22.98	314.47	40.07	107.02	12 33 38	141.4	25.09	306.44
100.00	12 5 30	792.58	16.19	315.41	37.27	115.47	12 18 43	192.6	19.49	308.17
100.00	14 50 39	5547.73	27.98	258.32	41.45	100.96	16 23 7	4947.7	29.21	249.73
110.00	12 6 8	790.59	10.87	312.22	34.24	122.61	12 19 19	190.6	15.10	305.67
110.00	17 6 31	5122.48	34.02	226.94	42.35	93.58	18 31 53	4522.5	34.14	217.70

DIFFERENTIAL CORRECTIONS
TDE-2.2106 TRA 1.1460 TC3-5.4121 BAU .9161
RDE .1683 RRA .0811 RC3 -.2604 FAU .05318
FDE-1.9633 FRA 1.4718 FC3-3.6405 BSP 17813
BDE 2.2170 BRA 1.1489 BC3 5.4184 FSP -1387

MID-COURSE EXECUTION ACCURACY
SGT 5647.8 SGR 360.4 SG3 422.9
RRT .0287 RRF .0122 RTF .9722
SGB 5659.3 R23 -.0158 R13 .9722
SG1 5647.8 SG2 360.2 THA .11

ORBIT DETERMINATION ACCURACY
ST 3618.6 SR 274.8 SS 1563.4
CRT -.9423 CRS .9151 CST -.9971
LSA 3948.8 MSA 143.0 SSA 17.8
EL1 3627.9 EL2 91.8 ALF 175.90

LAUNCH DATE JUN 9 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 12 1967

DISTANCE 525.809

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.463 GAL 3.51 AZL 93.42 HCA 245.64 SMA 126.69 ECC .20757 INC 3.4232 V1 29.337
RP 107.49 LAP 3.12 LOP 143.10 VP 37.706 GAP 8.25 AZP 88.59 TAL 166.35 TAP 51.99 RCA 100.39 APO 152.99 V2 35.254
RC 138.949 GL -25.62 GP .46 ZAL 67.24 ZAP 158.96 ETS 1.33 ZAE 128.91 ETE 179.99 ZAC 100.76 ETC 14.71 CLP-158.97

PLANETOCENTRIC CONIC
C3 13.306 VHL 3.648 DLA -28.48 RAL 180.83 RAD 6567.5 VEL 11.606 PTH 2.03 VHP 5.745 DPA 9.79 RAP 166.92 ECC 1.2190

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
86.85	11 50 19	885.16	21.88	324.61	43.05	108.69	12 5 4	285.2	24.23	316.72
93.15	12 43 13	713.78	21.89	312.07	43.06	108.68	12 55 6	113.8	24.24	304.17
100.00	12 20 59	785.59	16.40	314.99	40.71	115.35	12 34 5	185.6	19.68	307.73
100.00	14 55 14	5576.62	27.59	260.38	44.78	101.98	16 28 10	4976.6	28.96	251.85
110.00	12 18 46	792.56	10.80	312.33	37.52	122.63	12 31 59	192.6	15.03	305.78
110.00	17 13 56	5142.42	33.92	228.49	45.84	94.49	18 39 38	4542.4	34.17	219.25

DIFFERENTIAL CORRECTIONS
TDE-2.2808 TRA 1.3118 TC3-5.2290 BAU .9312
RDE .1829 RRA .0846 RC3 -.2467 FAU .04899
FDE-1.8689 FRA 1.5009 FC3-3.1876 BSP 18131
BDE 2.2881 BRA 1.3146 BC3 5.2348 FSP -1311

MID-COURSE EXECUTION ACCURACY
SGT 5734.3 SGR 371.1 SG3 398.0
RRT .0054 RRF -.0115 RTF .9720
SGB 5746.3 R23 -.0167 R13 .9720
SG1 5734.3 SG2 371.1 THA .02

ORBIT DETERMINATION ACCURACY
ST 3652.7 SR 290.9 SS 1511.1
CRT -.9381 CRS .9106 CST -.9973
LSA 3960.9 MSA 145.2 SSA 17.9
EL1 3662.9 EL2 100.5 ALF 175.72

LAUNCH DATE JUN 9 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 14 1967

DISTANCE 531.680

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.430 GAL 3.89 AZL 93.42 HCA 248.89 SMA 126.48 ECC .21136 INC 3.4188 V1 29.337
RP 107.50 LAP 3.19 LOP 146.35 VP 37.681 GAP 8.66 AZP 88.77 TAL 165.18 TAP 54.07 RCA 99.75 APO 153.22 V2 35.251
RC 141.095 GL -24.80 GP .43 ZAL 65.05 ZAP 160.37 ETS 1.24 ZAE 128.44 ETE 180.06 ZAC 98.99 ETC 14.50 CLP-160.37

PLANETOCENTRIC CONIC
C3 14.060 VHL 3.750 DLA -28.64 RAL 183.35 RAD 6567.6 VEL 11.638 PTH 2.04 VHP 5.956 DPA 9.05 RAP 168.63 ECC 1.2314

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.50	11 49 8	933.51	21.74	328.10	46.45	109.13	12 4 41	333.5	24.15	320.24
94.50	13 4 29	689.51	21.75	310.24	46.46	109.12	13 15 58	89.5	24.16	302.37
100.00	12 35 41	782.35	16.49	314.80	44.19	115.29	12 48 44	182.4	19.76	307.53
100.00	15 0 36	5603.94	27.19	262.31	48.17	102.92	16 34 0	5003.9	28.70	253.83
110.00	12 30 56	797.32	10.63	312.59	40.85	122.68	12 44 13	197.3	14.86	306.05
110.00	17 21 51	5161.74	33.81	229.99	49.41	95.37	18 47 53	4561.7	34.18	220.76

DIFFERENTIAL CORRECTIONS
TDE-2.3492 TRA 1.4889 TC3-5.0225 BAU .9451
RDE .1985 RRA .0873 RC3 -.2311 FAU .04510
FDE-1.7800 FRA 1.5284 FC3-2.7768 BSP 18418
BDE 2.3576 BRA 1.4914 BC3 5.0278 FSP -1240

MID-COURSE EXECUTION ACCURACY
SGT 5813.1 SGR 381.0 SG3 374.8
RRT -.0190 RRF -.0361 RTF .9718
SGB 5825.6 R23 .0176 R13 -.9718
SG1 5813.1 SG2 380.9 THA 179.93

ORBIT DETERMINATION ACCURACY
ST 3674.7 SR 306.8 SS 1459.0
CRT -.9339 CRS .9063 CST -.9974
LSA 3962.8 MSA 148.1 SSA 17.8
EL1 3685.9 EL2 109.3 ALF 175.54

LAUNCH DATE JUN 9 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 16 1967

HELIOCENTRIC CONIC DISTANCE 537.519

RL 151.86 LAL -.00 LOL 257.50 VL 26.398 GAL 4.28 AZL 93.41 HCA 252.13 SMA 126.28 ECC .21541 INC 3.4147 V1 29.337
RP 107.51 LAP 3.25 LOP 149.60 VP 37.654 GAP 9.07 AZP 88.95 TAL 164.01 TAP 56.14 RCA 99.07 APO 153.48 V2 35.247
RC 143.232 GL -23.95 GP .41 ZAL 62.88 ZAP 161.72 ETS 1.15 ZAE 128.01 ETE 180.13 ZAC 97.16 ETC 14.30 CLP-161.73

PLANETOCENTRIC CONIC

C3 14.919 VHL 3.863 DLA -28.77 RAL 185.86 RAD 6567.6 VEL 11.675 PTH 2.05 VHP 6.175 DPA 8.28 RAP 170.38 ECC 1.2455

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.71	11 52 39	967.63	21.53	330.53	49.90	109.55	12 8 47	367.6	24.00	322.69
95.29	13 20 59	681.71	21.54	309.59	49.91	109.54	13 32 20	81.7	24.01	301.75
100.00	12 49 22	783.54	16.46	314.87	47.69	115.31	13 2 25	183.5	19.73	307.61
100.00	15 6 57	5629.07	26.80	264.07	51.63	103.77	16 40 46	5029.1	28.42	255.65
110.00	12 42 32	805.02	10.34	313.01	44.20	122.76	12 55 57	205.0	14.59	306.48
110.00	17 30 16	5180.36	33.68	231.42	53.03	96.22	18 56 36	4580.4	34.17	222.22

DIFFERENTIAL CORRECTIONS
TDE-2.4129 TRA 1.6812 TC3-4.7870 BAU .9558
RDE .2151 RRA .0892 RC3 .2143 FAU .04128
FDE-1.6928 FRA 1.5586 FC3-2.3957 BSP 18610
BDE 2.4224 BRA 1.6835 BC3 4.7918 FSP -1168

MID-COURSE EXECUTION ACCURACY
SGT 5880.4 SGR 389.8 SG3 352.9
RRT -.0436 RRF -.0606 RTF .9714
SGB 5893.3 R23 .0180 R13 -.9714
SG1 5880.4 SG2 389.5 THA 179.83

ORBIT DETERMINATION ACCURACY
ST 3681.2 SR 322.2 SS 1404.8
CRT -.9295 CRS .9014 CST -.9974
LSA 3950.3 MSA 152.4 SSA 17.7
EL1 3693.4 EL2 118.5 ALF 175.34

LAUNCH DATE JUN 9 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 18 1967

HELIOCENTRIC CONIC DISTANCE 543.322

RL 151.86 LAL -.00 LOL 257.50 VL 26.365 GAL 4.70 AZL 93.41 HCA 255.38 SMA 126.07 ECC .21976 INC 3.4106 V1 29.337
RP 107.53 LAP 3.30 LOP 152.85 VP 37.627 GAP 9.50 AZP 89.14 TAL 162.82 TAP 58.20 RCA 98.36 APO 153.77 V2 35.243
RC 145.356 GL -23.08 GP .39 ZAL 60.73 ZAP 163.03 ETS 1.07 ZAE 127.62 ETE 180.17 ZAC 95.29 ETC 14.12 CLP-163.04

PLANETOCENTRIC CONIC

C3 15.898 VHL 3.987 DLA -28.85 RAL 188.35 RAD 6567.6 VEL 11.717 PTH 2.06 VHP 6.402 DPA 7.49 RAP 172.16 ECC 1.2616

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.25	11 58 54	993.82	21.26	332.35	53.40	109.97	12 15 27	393.8	23.79	324.55
95.75	13 34 35	684.14	21.27	309.66	53.40	109.96	13 45 59	84.1	23.79	301.86
100.00	13 1 46	789.79	16.28	315.24	51.20	115.42	13 14 55	189.8	19.57	308.00
100.00	15 14 24	5651.44	26.42	265.63	55.15	104.51	16 48 36	5051.4	28.16	257.26
110.00	12 53 30	815.78	9.95	313.59	47.58	122.87	13 7 6	215.8	14.21	307.08
110.00	17 39 9	5198.22	33.54	232.80	56.71	97.02	19 5 47	4598.2	34.15	223.61

DIFFERENTIAL CORRECTIONS
TDE-2.4788 TRA 1.8821 TC3-4.5461 BAU .9672
RDE .2326 RRA .0902 RC3 -.1967 FAU .03788
FDE-1.6149 FRA 1.5846 FC3-2.0627 BSP 18868
BDE 2.4897 BRA 1.8842 BC3 4.5504 FSP -1107

MID-COURSE EXECUTION ACCURACY
SGT 5946.8 SGR 397.8 SG3 332.9
RRT -.0697 RRF -.0867 RTF .9712
SGB 5960.0 R23 .0187 R13 -.9712
SG1 5946.8 SG2 396.8 THA 179.73

ORBIT DETERMINATION ACCURACY
ST 3682.1 SR 337.2 SS 1354.5
CRT -.9253 CRS .8971 CST -.9975
LSA 3934.6 MSA 156.8 SSA 17.4
EL1 3695.3 EL2 127.4 ALF 175.15

LAUNCH DATE JUN 9 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 20 1967

HELIOCENTRIC CONIC DISTANCE 549.086

RL 151.86 LAL -.00 LOL 257.50 VL 26.332 GAL 5.14 AZL 93.41 HCA 258.62 SMA 125.86 ECC .22442 INC 3.4067 V1 29.337
RP 107.54 LAP 3.34 LOP 156.10 VP 37.599 GAP 9.94 AZP 89.33 TAL 161.62 TAP 60.25 RCA 97.61 APO 154.10 V2 35.237
RC 147.469 GL -22.20 GP .37 ZAL 58.61 ZAP 164.30 ETS .99 ZAE 127.26 ETE 180.21 ZAC 93.38 ETC 13.95 CLP-164.30

PLANETOCENTRIC CONIC

C3 17.011 VHL 4.124 DLA -28.88 RAL 190.80 RAD 6567.7 VEL 11.764 PTH 2.08 VHP 6.640 DPA 6.68 RAP 173.98 ECC 1.2800

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.06	12 7 5	1014.48	20.92	333.74	56.92	110.38	12 24 0	414.5	23.50	325.98
95.94	13 46 0	694.43	20.93	310.29	56.93	110.37	13 57 34	94.4	23.52	302.52
100.00	13 12 43	801.51	15.93	315.94	54.69	115.63	13 26 4	201.5	19.25	308.72
100.00	15 23 3	5670.68	26.09	266.96	58.73	105.13	16 57 34	5070.7	27.91	258.64
110.00	13 3 46	829.63	9.43	314.33	50.96	123.01	13 17 36	229.6	13.72	307.85
110.00	17 48 29	5215.32	33.39	234.11	60.43	97.78	19 15 24	4615.3	34.11	224.94

DIFFERENTIAL CORRECTIONS
TDE-2.5433 TRA 2.0955 TC3-4.2927 BAU .9771
RDE .2511 RRA .0903 RC3 -.1786 FAU .03470
FDE-1.5418 FRA 1.6098 FC3-1.7658 BSP 19108
BDE 2.5557 BRA 2.0974 BC3 4.2965 FSP -1051

MID-COURSE EXECUTION ACCURACY
SGT 6006.2 SGR 404.9 SG3 314.3
RRT -.0965 RRF -.1132 RTF .9711
SGB 6019.8 R23 .0192 R13 -.9711
SG1 6006.3 SG2 403.0 THA 179.63

ORBIT DETERMINATION ACCURACY
ST 3672.7 SR 351.5 SS 1305.2
CRT -.9211 CRS .8928 CST -.9976
LSA 3910.1 MSA 161.8 SSA 17.1
EL1 3686.9 EL2 136.3 ALF 174.96

LAUNCH DATE JUN 9 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 22 1967

HELIOCENTRIC CONIC DISTANCE 554.808

RL 151.86 LAL -.00 LOL 257.50 VL 26.298 GAL 5.60 AZL 93.40 HCA 261.87 SMA 125.65 ECC .22942 INC 3.4029 V1 29.337
RP 107.56 LAP 3.37 LOP 159.35 VP 37.570 GAP 10.40 AZP 89.52 TAL 160.42 TAP 62.29 RCA 96.82 APO 154.48 V2 35.231
RC 149.570 GL -21.31 GP .35 ZAL 56.53 ZAP 165.52 ETS .92 ZAE 126.92 ETE 180.24 ZAC 91.43 ETC 13.80 CLP-165.53

PLANETOCENTRIC CONIC

C3 18.277 VHL 4.275 DLA -28.88 RAL 193.22 RAD 6567.7 VEL 11.818 PTH 2.09 VHP 6.888 DPA 5.85 RAP 175.83 ECC 1.3008

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.09	12 17 0	1030.24	20.51	334.73	60.47	110.78	12 34 11	430.2	23.16	327.02
95.91	13 55 21	712.00	20.53	311.42	60.48	110.77	14 7 13	112.0	23.17	303.70
100.00	13 22 9	818.85	15.42	316.98	58.16	115.93	13 35 47	218.9	18.78	309.80
100.00	15 32 54	5686.66	25.80	268.06	62.37	105.64	17 7 41	5086.7	27.70	259.78
110.00	13 13 20	846.59	8.80	315.24	54.33	123.16	13 27 26	246.6	13.11	308.79
110.00	17 58 12	5231.69	33.23	235.36	64.19	98.51	19 25 24	4631.7	34.05	226.22

DIFFERENTIAL CORRECTIONS
TDE-2.6063 TRA 2.3231 TC3-4.0291 BAU .9853
RDE .2705 RRA .0892 RC3 -.1605 FAU .03168
FDE-1.4729 FRA 1.6357 FC3-1.5005 BSP 19319
BDE 2.6203 BRA 2.3248 BC3 4.0323 FSP -997

MID-COURSE EXECUTION ACCURACY
SGT 6058.9 SGR 411.0 SG3 296.9
RRT -.1237 RRF -.1400 RTF .9709
SGB 6072.8 R23 .0195 R13 -.9709
SG1 6059.1 SG2 407.8 THA 179.52

ORBIT DETERMINATION ACCURACY
ST 3653.6 SR 364.9 SS 1257.[illegible]
CRT -.9168 CRS .8884 CST -.9977
LSA 3877.4 MSA 167.3 SSA 16.7
EL1 3668.9 EL2 145.1 ALF 174.76

LAUNCH DATE JUN 9 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 24 1967

DISTANCE 560.484

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.265 GAL 6.09 AZL 93.40 HCA 265.11 SMA 125.44 ECC .23480 INC 3.3991 VI 29.337
RP 107.58 LAP 3.39 LOP 162.60 VP 37.540 GAP 10.87 AZP 89.71 TAL 159.21 TAP 64.32 RCA 95.99 APO 154.90 V2 35.225
RC 151.657 GL -20.41 GP .33 ZAL 54.49 ZAP 166.72 ETS .86 ZAE 126.61 ETE 180.26 ZAC 89.44 ETC 13.66 CLP-166.72

PLANETOCENTRIC CONIC
C3 19.716 VHL 4.440 DLA -28.83 RAL 195.59 RAD 6567.8 VEL 11.878 PTH 2.11 VHP 7.148 DPA 5.01 RAP 177.71 ECC 1.3245

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.35	12 28 33	1041.29	20.05	335.36	64.04	111.16	12 45 55	441.3	22.75	327.68
95.65	14 2 41	736.66	20.06	313.04	64.04	111.15	14 14 57	136.7	22.76	305.37
100.00	13 30 4	841.64	14.73	318.32	61.59	116.31	13 44 6	241.6	18.15	311.20
100.00	15 43 51	5699.59	25.56	268.95	66.05	106.05	17 18 50	5099.6	27.51	260.69
110.00	13 22 8	866.58	8.06	316.31	57.69	123.33	13 36 35	266.6	12.39	309.89
110.00	18 8 16	5247.41	33.07	236.56	67.98	99.20	19 35 43	4647.4	33.98	227.44

DIFFERENTIAL CORRECTIONS
TOE-2.6651 TRA 2.5678 TC3-3.7535 BAU .9901
ROE .2908 RRA .0869 RC3 -.1428 FAU .02872
FOE-1.4060 FRA 1.6637 FC3-1.2612 BSP 19439
BOE 2.6809 BRA 2.5693 BC3 3.7562 FSP -942

MID-COURSE EXECUTION ACCURACY
SGT 6102.7 SGR 416.2 SG3 280.6
RRT -.1509 RRF -.1663 RTF .9706
SGB 6116.9 R23 .0194 R13 -.9707
SG1 6103.0 SG2 411.5 THA 179.41

ORBIT DETERMINATION ACCURACY
ST 3622.8 SR 377.2 SS 1209.1
CRT -.9121 CRS .8834 CST -.9977
LSA 3833.8 MSA 173.4 SSA 16.4
EL1 3639.1 EL2 153.9 ALF 174.57

LAUNCH DATE JUN 9 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 26 1967

DISTANCE 566.108

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.232 GAL 6.62 AZL 93.40 HCA 268.35 SMA 125.24 ECC .24058 INC 3.3954 VI 29.337
RP 107.60 LAP 3.39 LOP 165.84 VP 37.510 GAP 11.36 AZP 89.90 TAL 158.00 TAP 66.35 RCA 95.11 APO 155.37 V2 35.217
RC 153.730 GL -19.51 GP .32 ZAL 52.50 ZAP 167.88 ETS .81 ZAE 126.32 ETE 180.27 ZAC 87.44 ETC 13.54 CLP-167.89

PLANETOCENTRIC CONIC
C3 21.351 VHL 4.621 DLA -28.74 RAL 197.89 RAD 6567.9 VEL 11.947 PTH 2.13 VHP 7.421 DPA 4.15 RAP 179.60 ECC 1.3514

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.86	12 41 54	1046.99	19.52	335.56	67.61	111.53	12 59 21	447.0	22.27	327.93
95.14	14 7 45	769.07	19.53	315.20	67.61	111.51	14 20 34	169.1	22.28	307.58
100.00	13 36 36	869.42	13.89	319.95	64.97	116.74	13 51 5	269.4	17.37	312.89
100.00	15 55 44	5709.91	25.36	269.65	69.78	106.37	17 30 54	5109.9	27.36	261.42
110.00	13 30 13	889.51	7.20	317.53	61.03	123.51	13 45 2	289.5	11.55	311.14
110.00	18 18 36	5262.59	32.90	237.71	71.78	99.86	19 46 19	4662.6	33.91	228.62

DIFFERENTIAL CORRECTIONS
TOE-2.7273 TRA 2.8235 TC3-3.4841 BAU .9952
ROE .3119 RRA .0834 RC3 -.1256 FAU .02607
FOE-1.3466 FRA 1.6892 FC3-1.0572 BSP 19630
BOE 2.7450 BRA 2.8247 BC3 3.4864 FSP -896

MID-COURSE EXECUTION ACCURACY
SGT 6143.9 SGR 420.6 SG3 265.6
RRT -.1792 RRF -.1938 RTF .9706
SGB 6158.3 R23 .0194 R13 -.9706
SG1 6144.4 SG2 413.8 THA 179.29

ORBIT DETERMINATION ACCURACY
ST 3588.9 SR 388.4 SS 1165.3
CRT -.9077 CRS .8789 CST -.9978
LSA 3789.0 MSA 179.2 SSA 15.9
EL1 3606.3 EL2 162.2 ALF 174.38

LAUNCH DATE JUN 9 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 28 1967

DISTANCE 571.674

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.198 GAL 7.17 AZL 93.39 HCA 271.59 SMA 125.03 ECC .24682 INC 3.3917 VI 29.337
RP 107.63 LAP 3.39 LOP 169.09 VP 37.479 GAP 11.88 AZP 90.09 TAL 156.80 TAP 68.39 RCA 94.17 APO 155.89 V2 35.210
RC 155.789 GL -18.61 GP .31 ZAL 50.57 ZAP 169.02 ETS .79 ZAE 126.05 ETE 180.27 ZAC 85.41 ETC 13.44 CLP-169.03

PLANETOCENTRIC CONIC
C3 23.211 VHL 4.818 DLA -28.62 RAL 200.13 RAD 6567.9 VEL 12.025 PTH 2.15 VHP 7.710 DPA 3.27 RAP 181.52 ECC 1.3820

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.68	12 57 36	1045.39	18.93	335.19	71.17	111.87	13 15 1	445.4	21.73	327.62
94.32	14 9 55	811.16	18.94	318.04	71.18	111.86	14 23 27	211.2	21.75	310.47
100.00	13 41 54	901.58	12.90	321.83	68.31	117.20	13 56 55	301.6	16.44	314.83
100.00	16 8 19	5718.24	25.20	270.22	73.53	106.63	17 43 37	5118.2	27.24	262.01
110.00	13 37 33	915.23	6.23	318.89	64.34	123.68	13 52 49	315.2	10.61	312.54
110.00	18 29 9	5277.35	32.72	238.83	75.60	100.50	19 57 6	4677.4	33.82	229.77

DIFFERENTIAL CORRECTIONS
TOE-2.7888 TRA 3.0953 TC3-3.2140 BAU .9979
ROE .3338 RRA .0784 RC3 -.1093 FAU .02356
FOE-1.2912 FRA 1.7156 FC3 -.8787 BSP 19798
BOE 2.8087 BRA 3.0963 BC3 3.2159 FSP -852

MID-COURSE EXECUTION ACCURACY
SGT 6178.6 SGR 424.2 SG3 251.6
RRT -.2079 RRF -.2214 RTF .9707
SGB 6193.2 R23 .0191 R13 -.9707
SG1 6179.3 SG2 414.9 THA 179.18

ORBIT DETERMINATION ACCURACY
ST 3548.4 SR 398.2 SS 1123.5
CRT -.9031 CRS .8743 CST -.9979
LSA 3738.6 MSA 185.0 SSA 15.5
EL1 3566.6 EL2 170.2 ALF 174.20

LAUNCH DATE JUN 9 1967 FLIGHT TIME 204.00 ARRIVAL DATE DEC 30 1967

DISTANCE 577.176

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.165 GAL 7.76 AZL 93.39 HCA 274.83 SMA 124.82 ECC .25354 INC 3.3880 VI 29.337
RP 107.65 LAP 3.38 LOP 172.33 VP 37.448 GAP 12.42 AZP 90.29 TAL 155.59 TAP 70.42 RCA 93.18 APO 156.47 V2 35.201
RC 157.834 GL -17.72 GP .30 ZAL 48.70 ZAP 170.14 ETS .78 ZAE 125.79 ETE 180.27 ZAC 83.36 ETC 13.36 CLP-170.15

PLANETOCENTRIC CONIC
C3 25.329 VHL 5.033 DLA -28.46 RAL 202.30 RAD 6568.0 VEL 12.112 PTH 2.17 VHP 8.014 DPA 2.39 RAP 183.44 ECC 1.4168

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
87.04	13 17 32	1030.32	18.28	333.81	74.72	112.19	13 34 43	430.3	21.14	326.29
92.96	14 7 18	869.07	18.30	322.01	74.73	112.18	14 21 47	269.1	21.15	314.49
100.00	13 46 8	937.47	11.77	323.89	71.59	117.68	14 1 46	337.5	15.38	316.97
100.00	16 21 23	5725.19	25.07	270.69	77.31	106.84	17 56 48	5125.2	27.13	262.50
110.00	13 44 11	943.59	5.16	320.38	67.62	123.84	13 59 55	343.6	9.57	314.07
110.00	18 39 49	5291.83	32.53	239.92	79.43	101.12	20 8 1	4691.8	33.72	230.89

DIFFERENTIAL CORRECTIONS
TOE-2.8504 TRA 3.3841 TC3-2.9473 BAU .9985
ROE .3564 RRA .0719 RC3 -.0941 FAU .02118
FOE-1.2397 FRA 1.7429 FC3 -.7238 BSP 19946
BOE 2.8726 BRA 3.3849 BC3 2.9488 FSP -810

MID-COURSE EXECUTION ACCURACY
SGT 6207.6 SGR 426.9 SG3 238.4
RRT -.2368 RRF -.2490 RTF .9708
SGB 6222.3 R23 .0187 R13 -.9708
SG1 6208.4 SG2 414.7 THA 179.06

ORBIT DETERMINATION ACCURACY
ST 3502.3 SR 406.7 SS 1084.0
CRT -.8984 CRS .8696 CST -.9980
LSA 3683.8 MSA 190.7 SSA 15.1
EL1 3521.4 EL2 177.7 ALF 174.03

LAUNCH DATE JUN 9 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 1 1968

HELIOCENTRIC CONIC DISTANCE 582.605

RL 151.86 LAL -.00 LOL 257.50 VL 26.132 GAL 8.38 AZL 93.38 HCA 278.07 SMA 124.62 ECC .26081 INC 3.3842 V1 29.337
RP 107.68 LAP 3.35 LOP 175.58 VP 37.417 GAP 12.98 AZP 90.48 TAL 154.40 TAP 72.46 RCA 92.12 APO 157.12 V2 35.192
RC 159.863 GL -16.84 GP .29 ZAL 46.88 ZAP 171.25 ETS .81 ZAE 125.53 ETE 180.26 ZAC 81.29 ETC 13.30 CLP-171.25

PLANETOCENTRIC CONIC

C3 27.743 VHL 5.267 DLA -28.27 RAL 204.40 RAD 6568.1 VEL 12.211 PTH 2.19 VHP 8.337 DPA 1.50 RAP 185.38 ECC 1.4566

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 36 1	1020.12	16.35	332.21	77.71	113.45	13 53 1	420.1	19.38	324.85
90.00	14 5 32	924.42	18.84	326.30	78.80	111.54	14 20 56	324.4	21.60	318.71
100.00	13 49 30	976.46	10.53	326.12	74.82	118.14	14 5 46	376.5	14.21	319.27
100.00	16 34 44	5731.35	24.94	271.11	81.10	107.03	18 10 15	5131.4	27.04	262.93
110.00	13 50 9	974.41	3.99	322.00	70.86	123.98	14 6 24	374.4	8.42	315.72
110.00	18 50 34	5306.17	32.34	240.99	83.26	101.72	20 19 0	4706.2	33.62	231.99

DIFFERENTIAL CORRECTIONS
TDE-2.9086 TRA 3.6951 TC3-2.6798 BAU .9944
RDE .3795 RRA .0637 RC3 -.0802 FAU .01881
FDE-1.1898 FRA 1.7736 FC3 -.5869 BSP 19984
BDE 2.9332 BRA 3.6956 BC3 2.6810 FSP -767

MID-COURSE EXECUTION ACCURACY
SGT 6229.5 SGR 428.7 SG3 226.2
RRT -.2653 RRF -.2759 RTF .9709
SGB 6244.2 R23 .0178 R13 -.9710
SG1 6230.5 SG2 413.3 THA 178.95

ORBIT DETERMINATION ACCURACY
ST 3448.5 SR 413.5 SS 1045.7
CRT -.8932 CRS .8642 CST -.9980
LSA 3621.8 MSA 196.5 SSA 14.7
EL1 3468.2 EL2 184.9 ALF 173.87

LAUNCH DATE JUN 9 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 3 1968

HELIOCENTRIC CONIC DISTANCE 587.950

RL 151.86 LAL -.00 LOL 257.50 VL 26.099 GAL 9.05 AZL 93.38 HCA 281.30 SMA 124.42 ECC .26869 INC 3.3804 V1 29.337
RP 107.71 LAP 3.31 LOP 178.82 VP 37.384 GAP 13.58 AZP 90.66 TAL 153.22 TAP 74.52 RCA 90.99 APO 157.85 V2 35.183
RC 161.876 GL -15.97 GP .28 ZAL 45.14 ZAP 172.34 ETS .89 ZAE 125.28 ETE 180.25 ZAC 79.22 ETC 13.27 CLP-172.34

PLANETOCENTRIC CONIC

C3 30.500 VHL 5.523 DLA -28.05 RAL 206.41 RAD 6568.2 VEL 12.324 PTH 2.22 VHP 8.682 DPA .60 RAP 187.33 ECC 1.5020

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 24 25	1107.63	13.91	337.47	80.43	114.92	13 42 52	507.6	17.15	330.30
90.00	14 33 11	884.30	19.83	323.76	83.03	110.64	14 47 55	284.3	22.46	316.08
100.00	13 52 7	1018.02	9.18	328.48	78.01	118.57	14 9 5	418.0	12.93	321.69
100.00	16 48 10	5737.18	24.83	271.50	84.88	107.20	18 23 47	5137.2	26.95	263.34
110.00	13 55 28	1007.49	2.72	323.73	74.06	124.09	14 12 15	407.5	7.18	317.48
110.00	19 1 18	5320.47	32.14	242.06	87.07	102.33	20 29 59	4720.5	33.50	233.09

DIFFERENTIAL CORRECTIONS
TDE-2.9729 TRA 4.0204 TC3-2.4264 BAU .9898
RDE .4034 RRA .0539 RC3 -.0675 FAU .01667
FDE-1.1468 FRA 1.8032 FC3 -.4732 BSP 20119
BDE 3.0001 BRA 4.0207 BC3 2.4274 FSP -731

MID-COURSE EXECUTION ACCURACY
SGT 6247.4 SGR 429.8 SG3 214.8
RRT -.2948 RRF -.3039 RTF .9713
SGB 6262.2 R23 .0170 R13 -.9714
SG1 6248.7 SG2 410.6 THA 178.83

ORBIT DETERMINATION ACCURACY
ST 3395.4 SR 418.9 SS 1012.0
CRT -.8883 CRS .8595 CST -.9981
LSA 3562.0 MSA 201.5 SSA 14.2
EL1 3415.8 EL2 191.2 ALF 173.73

LAUNCH DATE JUN 9 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 5 1968

HELIOCENTRIC CONIC DISTANCE 593.200

RL 151.86 LAL -.00 LOL 257.50 VL 26.066 GAL 9.76 AZL 93.38 HCA 284.53 SMA 124.22 ECC .27723 INC 3.3765 V1 29.337
RP 107.74 LAP 3.27 LOP 182.05 VP 37.352 GAP 14.22 AZP 90.85 TAL 152.05 TAP 76.59 RCA 89.78 APO 158.66 V2 35.172
RC 163.875 GL -15.12 GP .27 ZAL 43.47 ZAP 173.42 ETS 1.04 ZAE 125.03 ETE 180.23 ZAC 77.14 ETC 13.25 CLP-173.43

PLANETOCENTRIC CONIC

C3 33.656 VHL 5.801 DLA -27.80 RAL 208.34 RAD 6568.3 VEL 12.451 PTH 2.25 VHP 9.049 DPA -.29 RAP 189.28 ECC 1.5539

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 18 53	1175.55	11.92	341.48	83.34	115.88	13 38 29	575.5	15.31	334.43
90.00	14 54 5	865.93	20.26	322.59	87.02	110.21	15 8 31	265.9	22.83	314.86
100.00	13 54 6	1061.72	7.75	330.93	81.14	118.96	14 11 47	461.7	11.56	324.21
100.00	17 1 34	5743.04	24.71	271.90	88.66	107.38	18 37 17	5143.0	26.85	263.75
110.00	14 0 10	1042.66	1.38	325.57	77.22	124.16	14 17 32	442.7	5.85	319.34
110.00	19 11 59	5334.86	31.92	243.12	90.88	102.92	20 40 54	4734.9	33.37	234.19

DIFFERENTIAL CORRECTIONS
TDE-3.0390 TRA 4.3670 TC3-2.1812 BAU .9818
RDE .4278 RRA .0422 RC3 -.0561 FAU .01463
FDE-1.1075 FRA 1.8348 FC3 -.3763 BSP 20226
BDE 3.0689 BRA 4.3672 BC3 2.1819 FSP -696

MID-COURSE EXECUTION ACCURACY
SGT 6259.8 SGR 430.0 SG3 204.2
RRT -.3245 RRF -.3318 RTF .9719
SGB 6274.5 R23 .0160 R13 -.9719
SG1 6261.3 SG2 406.7 THA 178.72

ORBIT DETERMINATION ACCURACY
ST 3339.7 SR 422.7 SS 980.9
CRT -.8834 CRS .8549 CST -.9982
LSA 3500.2 MSA 205.9 SSA 13.8
EL1 3360.5 EL2 196.8 ALF 173.60

LAUNCH DATE JUN 9 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 7 1968

HELIOCENTRIC CONIC DISTANCE 598.341

RL 151.86 LAL -.00 LOL 257.50 VL 26.033 GAL 10.53 AZL 93.37 HCA 287.76 SMA 124.02 ECC .28652 INC 3.3725 V1 29.337
RP 107.78 LAP 3.21 LOP 185.29 VP 37.319 GAP 14.89 AZP 91.03 TAL 150.91 TAP 78.67 RCA 88.49 APO 159.56 V2 35.162
RC 165.860 GL -14.28 GP .26 ZAL 41.86 ZAP 174.50 ETS 1.30 ZAE 124.78 ETE 180.21 ZAC 75.06 ETC 13.26 CLP-174.51

PLANETOCENTRIC CONIC

C3 37.276 VHL 6.105 DLA -27.52 RAL 210.18 RAD 6568.5 VEL 12.595 PTH 2.28 VHP 9.443 DPA -1.19 RAP 191.24 ECC 1.6135

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 15 1	1238.10	10.04	345.11	86.26	116.62	13 35 39	638.1	13.53	338.17
90.00	15 12 37	854.98	20.52	321.89	90.92	109.95	15 26 52	255.0	23.05	314.13
100.00	13 55 32	1107.17	6.25	333.46	84.22	119.29	14 13 59	507.2	10.10	326.80
100.00	17 14 48	5749.18	24.58	272.31	92.42	107.56	18 50 37	5149.2	26.75	264.18
110.00	14 4 16	1079.72	-.04	327.50	80.34	124.18	14 22 16	479.7	4.45	321.29
110.00	19 22 33	5349.40	31.70	244.20	94.66	103.52	20 51 42	4749.4	33.23	235.31

DIFFERENTIAL CORRECTIONS
TDE-3.1074 TRA 4.7366 TC3-1.9455 BAU .9698
RDE .4526 RRA .0285 RC3 -.0462 FAU .01266
FDE-1.0717 FRA 1.8688 FC3 -.2940 BSP 20311
BDE 3.1401 BRA 4.7367 BC3 1.9460 FSP -664

MID-COURSE EXECUTION ACCURACY
SGT 6266.6 SGR 429.5 SG3 194.2
RRT -.3542 RRF -.3597 RTF .9726
SGB 6281.3 R23 .0148 R13 -.9726
SG1 6268.5 SG2 401.5 THA 178.60

ORBIT DETERMINATION ACCURACY
ST 3281.7 SR 424.8 SS 952.7
CRT -.8785 CRS .8502 CST -.9983
LSA 3437.1 MSA 209.8 SSA 13.4
EL1 3303.0 EL2 201.6 ALF 173.49

LAUNCH DATE JUN 9 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 9 1968

DISTANCE 603.354

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 26.001 GAL 11.35 AZL 93.37 HCA 290.99 SMA 123.83 ECC .29665 INC 3.3683 V1 29.337
RP 107.81 LAP 3.14 LOP 188.52 VP 37.286 GAP 15.62 AZP 91.21 TAL 149.79 TAP 80.79 RCA 87.09 APO 160.56 V2 35.151
RC 167.829 GL -13.45 GP .25 ZAL 40.34 ZAP 175.58 ETS 1.76 ZAE 124.52 ETE 180.19 ZAC 72.98 ETC 13.29 CLP-175.59

PLANETOCENTRIC CONIC
C3 41.442 VHL 6.438 DLA -27.23 RAL 211.92 RAD 6568.6 VEL 12.760 PTH 2.32 VHP 9.868 DPA -2.08 RAP 193.19 ECC 1.6820

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 11 53	1298.21	8.19	348.55	89.17	117.20	13 33 31	698.2	11.77	341.70
90.00	15 29 43	848.39	20.67	321.47	94.76	109.79	15 43 51	248.4	23.18	313.70
100.00	13 56 29	1154.10	4.68	336.06	87.26	119.56	14 15 43	554.1	8.58	329.45
100.00	17 27 47	5755.78	24.45	272.75	96.15	107.76	19 3 43	5155.8	26.65	264.64
110.00	14 7 50	1118.48	-1.52	329.52	83.41	124.15	14 26 28	518.5	2.97	323.32
110.00	19 32 56	5364.16	31.46	245.28	98.41	104.12	21 2 20	4764.2	33.08	236.43

DIFFERENTIAL CORRECTIONS
TDE-3.1753 TRA 5.1352 TC3-1.7164 BAU .9512
RDE .4777 RRA .0126 RC3 -.0377 FAU .01068
FDE-1.0380 FRA 1.9071 FC3 -.2231 BSP 20287
BDE 3.2111 BRA 5.1352 BC3 1.7168 FSP -629

MID-COURSE EXECUTION ACCURACY
SGT 6268.1 SGR 428.1 SG3 184.9
RRT -.3836 RRF -.3871 RTF .9734
SGB 6282.7 R23 .0133 R13 -.9734
SG1 6270.3 SG2 395.2 THA 178.49

ORBIT DETERMINATION ACCURACY
ST 3220.1 SR 425.2 SS 926.7
CRT -.8733 CRS .8451 CST -.9984
LSA 3370.9 MSA 213.2 SSA 13.0
EL1 3241.5 EL2 205.8 ALF 173.40

LAUNCH DATE JUN 9 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 11 1968

DISTANCE 608.217

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 25.969 GAL 12.23 AZL 93.36 HCA 294.22 SMA 123.64 ECC .30773 INC 3.3640 V1 29.337
RP 107.84 LAP 3.07 LOP 191.75 VP 37.253 GAP 16.40 AZP 91.38 TAL 148.71 TAP 82.93 RCA 85.59 APO 161.68 V2 35.139
RC 169.783 GL -12.65 GP .25 ZAL 38.89 ZAP 176.66 ETS 2.60 ZAE 124.25 ETE 180.16 ZAC 70.92 ETC 13.35 CLP-176.67

PLANETOCENTRIC CONIC
C3 46.251 VHL 6.801 DLA -26.91 RAL 213.58 RAD 6568.7 VEL 12.947 PTH 2.36 VHP 10.326 DPA -2.97 RAP 195.14 ECC 1.7612

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 9 5	1357.03	6.34	351.89	92.05	117.66	13 31 42	757.0	10.00	345.11
90.00	15 45 43	844.85	20.75	321.24	98.52	109.71	15 59 47	244.8	23.25	313.46
100.00	13 57 0	1202.25	3.05	338.72	90.24	119.75	14 17 2	602.3	6.99	332.14
100.00	17 40 29	5762.90	24.30	273.23	99.83	107.97	19 16 32	5162.9	26.53	265.14
110.00	14 10 51	1158.76	-3.06	331.62	86.44	124.06	14 30 9	558.8	1.44	325.42
110.00	19 43 7	5379.15	31.20	246.38	102.12	104.72	21 12 46	4779.1	32.91	237.57

DIFFERENTIAL CORRECTIONS
TDE-3.2527 TRA 5.5564 TC3-1.5036 BAU .9299
RDE .5033 RRA -.0053 RC3 -.0304 FAU .00885
FDE-1.0101 FRA 1.9468 FC3 -.1657 BSP 20358
BDE 3.2914 BRA 5.5564 BC3 1.5039 FSP -600

MID-COURSE EXECUTION ACCURACY
SGT 6264.9 SGR 426.1 SG3 176.2
RRT -.4135 RRF -.4153 RTF .9744
SGB 6279.4 R23 .0118 R13 -.9745
SG1 6267.4 SG2 387.8 THA 178.38

ORBIT DETERMINATION ACCURACY
ST 3161.2 SR 424.1 SS 904.9
CRT -.8686 CRS .8410 CST -.9985
LSA 3308.4 MSA 215.3 SSA 12.5
EL1 3182.7 EL2 208.7 ALF 173.33

LAUNCH DATE JUN 9 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 13 1968

DISTANCE 612.904

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 25.937 GAL 13.19 AZL 93.36 HCA 297.45 SMA 123.45 ECC .31986 INC 3.3594 V1 29.337
RP 107.88 LAP 2.98 LOP 194.98 VP 37.220 GAP 17.24 AZP 91.55 TAL 147.67 TAP 85.12 RCA 83.96 APO 162.93 V2 35.128
RC 171.722 GL -11.86 GP .24 ZAL 37.52 ZAP 177.76 ETS 4.41 ZAE 123.96 ETE 180.13 ZAC 68.86 ETC 13.44 CLP-177.77

PLANETOCENTRIC CONIC
C3 51.826 VHL 7.199 DLA -26.57 RAL 215.14 RAD 6568.9 VEL 13.160 PTH 2.40 VHP 10.824 DPA -3.85 RAP 197.09 ECC 1.8529

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 6 24	1415.09	4.50	355.15	94.89	117.99	13 29 59	815.1	8.21	348.44
90.00	16 0 48	843.63	20.78	321.16	102.23	109.68	16 14 52	243.6	23.28	313.38
100.00	13 57 5	1251.43	1.39	341.42	93.17	119.86	14 17 56	651.4	5.35	334.87
100.00	17 52 49	5770.56	24.14	273.74	103.47	108.19	19 29 0	5170.6	26.40	265.67
110.00	14 13 20	1200.40	-4.64	333.81	89.42	123.90	14 33 20	600.4	-.16	327.59
110.00	19 53 3	5394.35	30.94	247.48	105.78	105.32	21 22 58	4794.3	32.73	238.72

DIFFERENTIAL CORRECTIONS
TDE-3.3362 TRA 6.0074 TC3-1.3025 BAU .9026
RDE .5293 RRA -.0256 RC3 -.0244 FAU .00707
FDE -.9862 FRA 1.9902 FC3 -.1180 BSP 20415
BDE 3.3779 BRA 6.0075 BC3 1.3027 FSP -573

MID-COURSE EXECUTION ACCURACY
SGT 6256.5 SGR 423.3 SG3 168.0
RRT -.4435 RRF -.4435 RTF .9757
SGB 6270.8 R23 .0103 R13 -.9757
SG1 6259.4 SG2 379.3 THA 178.27

ORBIT DETERMINATION ACCURACY
ST 3102.5 SR 421.3 SS 886.4
CRT -.8641 CRS .8371 CST -.9986
LSA 3246.8 MSA 216.6 SSA 12.1
EL1 3123.9 EL2 210.6 ALF 173.28

LAUNCH DATE JUN 9 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 15 1968

DISTANCE 617.383

HELIOCENTRIC CONIC
RL 151.86 LAL -.00 LOL 257.50 VL 25.906 GAL 14.23 AZL 93.35 HCA 300.67 SMA 123.26 ECC .33320 INC 3.3546 V1 29.337
RP 107.92 LAP 2.88 LOP 198.21 VP 37.187 GAP 18.15 AZP 91.71 TAL 146.69 TAP 87.35 RCA 82.19 APO 164.33 V2 35.116
RC 173.647 GL -11.09 GP .23 ZAL 36.24 ZAP 178.86 ETS 10.02 ZAE 123.65 ETE 180.10 ZAC 66.83 ETC 13.55 CLP-178.88

PLANETOCENTRIC CONIC
C3 58.316 VHL 7.636 DLA -26.21 RAL 216.59 RAD 6569.1 VEL 13.404 PTH 2.45 VHP 11.367 DPA -4.71 RAP 199.02 ECC 1.9597

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 3 44	1472.68	2.65	358.38	97.68	118.20	13 28 16	872.7	6.40	351.71
90.00	16 15 7	844.21	20.77	321.20	105.85	109.69	16 29 11	244.2	23.26	313.42
100.00	13 56 45	1301.45	-.31	344.16	96.04	119.89	14 18 27	701.4	3.67	337.64
100.00	18 4 47	5778.72	23.96	274.28	107.05	108.43	19 41 5	5178.7	26.26	266.24
110.00	14 15 18	1243.22	-6.26	336.06	92.35	123.67	14 36 2	643.2	-1.79	329.82
110.00	20 2 43	5409.71	30.65	248.59	109.37	105.92	21 32 52	4809.7	32.53	239.87

DIFFERENTIAL CORRECTIONS
TDE-3.4263 TRA 6.4924 TC3-1.1133 BAU .8681
RDE .5555 RRA -.0485 RC3 -.0196 FAU .00530
FDE -.9660 FRA 2.0383 FC3 -.0786 BSP 20456
BDE 3.4711 BRA 6.4926 BC3 1.1135 FSP -547

MID-COURSE EXECUTION ACCURACY
SGT 6243.3 SGR 419.8 SG3 160.4
RRT -.4733 RRF -.4717 RTF .9770
SGB 6257.4 R23 .0086 R13 -.9770
SG1 6246.5 SG2 369.6 THA 178.17

ORBIT DETERMINATION ACCURACY
ST 3043.7 SR 417.0 SS 871.2
CRT -.8598 CRS .8335 CST -.9987
LSA 3185.9 MSA 216.9 SSA 11.7
EL1 3064.9 EL2 211.5 ALF 173.25

LAUNCH DATE JUN 10 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 19 1967

HELIOCENTRIC CONIC DISTANCE 154.472

RL 151.88 LAL -.00 LOL 258.45 VL 21.539 GAL 3.53 AZL 93.46 HCA 60.18 SMA 103.39 ECC .47221 INC 3.4619 V1 29.334
RP 108.94 LAP -3.00 LOP 318.59 VP 33.954 GAP -28.02 AZP 91.72 TAL 176.03 TAP 236.22 RCA 54.57 APO 152.21 V2 34.786
RC 45.578 GL -9.27 GP -.25 ZAL 81.97 ZAP 16.82 ETS 179.81 ZAE 167.93 ETE 121.62 ZAC 109.37 ETC 15.65 CLP 16.82

PLANETOCENTRIC CONIC

C3 64.957 VHL 8.060 DLA -7.15 RAL 173.17 RAD 6569.2 VEL 13.650 PTH 2.49 VHP 16.633 DPA 12.38 RAP 158.41 ECC 2.0690

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 36 56	2283.27	-21.17	45.88	52.59	109.25	7 14 59	1683.3	-18.35	38.34
90.00	16 47 37	5373.95	27.85	245.68	58.39	84.66	18 17 11	4773.9	26.82	237.17
100.00	7 54 51	2031.89	-22.56	26.86	52.05	110.15	8 28 43	1431.9	-19.61	19.31
100.00	18 12 23	5100.56	29.32	225.41	58.22	83.88	19 37 23	4500.6	28.16	216.79
110.00	8 55 17	1842.69	-26.28	10.90	50.45	112.69	9 25 59	1242.7	-22.97	3.30
110.00	19 28 26	4862.52	33.28	206.75	57.64	81.70	20 49 29	4262.5	31.77	197.84

DIFFERENTIAL CORRECTIONS

TDE .4520 TRA-1.0108 TC3 -.0277 BAU .0557
RDE -.5467 RRA -.2551 RC3 .0579 FAU .01732
FDE -.3153 FRA .4170 FC3 -.2308 BSP 2124
BDE .7093 BRA 1.0425 BC3 .0642 FSP -98

MID-COURSE EXECUTION ACCURACY

SGT 793.5 SGR 439.5 SG3 45.5
RRT .0096 RRF -.0094 RTF -.6497
SGB 907.1 R23 -.0004 R13 -.6497
SG1 793.6 SG2 439.5 THA .44

ORBIT DETERMINATION ACCURACY

ST 387.9 SR 392.5 SS 347.3
CRT -.7420 CRS -.8663 CST .9759
LSA 619.4 MSA 203.1 SSA 14.4
EL1 515.0 EL2 198.2 ALF 134.54

LAUNCH DATE JUN 10 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 21 1967

HELIOCENTRIC CONIC DISTANCE 160.916

RL 151.88 LAL -.00 LOL 258.45 VL 22.012 GAL 3.33 AZL 93.45 HCA 63.34 SMA 105.07 ECC .44851 INC 3.4532 V1 29.334
RP 108.93 LAP -3.09 LOP 321.75 VP 34.258 GAP -26.57 AZP 91.55 TAL 175.89 TAP 239.23 RCA 57.95 APO 152.20 V2 34.788
RC 44.711 GL -10.04 GP -.26 ZAL 81.84 ZAP 15.19 ETS 179.59 ZAE 168.68 ETE 110.27 ZAC 107.90 ETC 15.43 CLP 15.19

PLANETOCENTRIC CONIC

C3 57.642 VHL 7.592 DLA -7.91 RAL 173.00 RAD 6569.0 VEL 13.379 PTH 2.45 VHP 15.833 DPA 11.82 RAP 159.86 ECC 1.9486

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 42 10	2229.82	-19.94	42.45	50.25	110.54	7 19 20	1629.8	-16.96	35.04
90.00	16 40 58	5369.42	27.82	245.35	56.38	84.49	18 10 27	4769.4	26.77	236.84
100.00	7 59 42	1979.72	-21.30	23.50	49.69	111.48	8 32 42	1379.7	-18.19	16.08
100.00	18 6 7	5094.76	29.27	224.98	56.21	83.66	19 31 2	4494.8	28.09	216.38
110.00	8 59 14	1793.30	-24.94	7.69	48.02	114.17	9 29 8	1193.3	-21.47	.26
110.00	19 23 4	4853.94	33.19	206.09	55.60	81.32	20 43 58	4253.9	31.64	197.21

DIFFERENTIAL CORRECTIONS

TDE .4507 TRA -.9932 TC3 -.0144 BAU .0519
RDE -.5177 RRA -.2403 RC3 .0658 FAU .01797
FDE -.3328 FRA .4252 FC3 -.2699 BSP 2223
BDE .6864 BRA 1.0219 BC3 .0673 FSP -109

MID-COURSE EXECUTION ACCURACY

SGT 830.0 SGR 442.9 SG3 50.1
RRT .0095 RRF -.0083 RTF -.6685
SGB 940.7 R23 .0006 R13 -.6685
SG1 830.0 SG2 442.8 THA .40

ORBIT DETERMINATION ACCURACY

ST 408.9 SR 394.5 SS 368.8
CRT -.7463 CRS -.8720 CST .9749
LSA 645.2 MSA 205.8 SSA 14.7
EL1 531.0 EL2 202.2 ALF 136.38

LAUNCH DATE JUN 10 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 23 1967

HELIOCENTRIC CONIC DISTANCE 167.408

RL 151.88 LAL -.00 LOL 258.45 VL 22.451 GAL 3.11 AZL 93.44 HCA 66.51 SMA 106.72 ECC .42603 INC 3.4450 V1 29.334
RP 108.92 LAP -3.16 LOP 324.92 VP 34.544 GAP -25.19 AZP 91.37 TAL 175.79 TAP 242.30 RCA 61.25 APO 152.18 V2 34.791
RC 44.000 GL -10.85 GP -.27 ZAL 81.84 ZAP 13.56 ETS 179.33 ZAE 168.98 ETE 97.30 ZAC 106.42 ETC 15.23 CLP 13.56

PLANETOCENTRIC CONIC

C3 51.237 VHL 7.158 DLA -8.66 RAL 172.70 RAD 6568.9 VEL 13.138 PTH 2.40 VHP 15.066 DPA 11.24 RAP 161.31 ECC 1.8432

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 46 53	2176.59	-18.63	39.09	47.85	111.72	7 23 9	1576.6	-15.52	31.80
90.00	16 33 52	5364.49	27.79	244.99	54.22	84.32	18 3 17	4764.5	26.71	236.49
100.00	8 4 0	1927.75	-19.97	20.21	47.27	112.72	8 36 8	1327.8	-16.72	12.93
100.00	17 59 25	5088.56	29.23	224.52	54.05	83.43	19 24 14	4488.6	28.01	215.93
110.00	9 2 39	1744.11	-23.54	4.56	45.55	115.54	9 31 43	1144.1	-19.90	357.30
110.00	19 17 16	4844.96	33.10	205.41	53.42	80.92	20 38 1	4245.0	31.49	196.55

DIFFERENTIAL CORRECTIONS

TDE .4521 TRA -.9724 TC3 .0044 BAU .0511
RDE -.4897 RRA -.2258 RC3 .0745 FAU .01871
FDE -.3520 FRA .4323 FC3 -.3161 BSP 2373
BDE .6664 BRA .9983 BC3 .0746 FSP -123

MID-COURSE EXECUTION ACCURACY

SGT 866.6 SGR 445.4 SG3 55.1
RRT .0072 RRF -.0064 RTF -.6883
SGB 974.3 R23 .0003 R13 -.6883
SG1 866.6 SG2 445.4 THA .29

ORBIT DETERMINATION ACCURACY

ST 432.1 SR 395.8 SS 391.8
CRT -.7535 CRS -.8783 CST .9746
LSA 673.6 MSA 207.1 SSA 15.0
EL1 549.0 EL2 204.8 ALF 138.33

LAUNCH DATE JUN 10 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 25 1967

HELIOCENTRIC CONIC DISTANCE 173.943

RL 151.88 LAL -.00 LOL 258.45 VL 22.856 GAL 2.88 AZL 93.44 HCA 69.67 SMA 108.32 ECC .40477 INC 3.4371 V1 29.334
RP 108.91 LAP -3.22 LOP 328.09 VP 34.813 GAP -23.87 AZP 91.20 TAL 175.75 TAP 245.42 RCA 64.48 APO 152.16 V2 34.795
RC 43.455 GL -11.69 GP -.29 ZAL 81.95 ZAP 11.93 ETS 179.01 ZAE 168.75 ETE 83.77 ZAC 104.95 ETC 15.03 CLP 11.92

PLANETOCENTRIC CONIC

C3 45.630 VHL 6.755 DLA -9.40 RAL 172.27 RAD 6568.7 VEL 12.923 PTH 2.36 VHP 14.330 DPA 10.66 RAP 162.75 ECC 1.7510

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 51 1	2123.79	-17.27	35.81	45.39	112.80	7 26 25	1523.8	-14.03	28.63
90.00	16 26 20	5359.34	27.75	244.62	51.94	84.13	17 55 39	4759.3	26.65	236.13
100.00	8 7 45	1876.24	-18.58	17.02	44.79	113.85	8 39 1	1276.2	-15.20	9.85
100.00	17 52 17	5082.12	29.17	224.05	51.76	83.18	19 16 59	4482.1	27.92	215.47
110.00	9 5 30	1695.38	-22.07	1.53	43.03	116.79	9 33 46	1095.4	-18.30	354.43
110.00	19 11 1	4835.75	33.00	204.71	51.12	80.52	20 31 37	4235.8	31.34	195.88

DIFFERENTIAL CORRECTIONS

TDE .4535 TRA -.9515 TC3 .0275 BAU .0539
RDE -.4627 RRA -.2117 RC3 .0839 FAU .01952
FDE -.3724 FRA .4389 FC3 -.3703 BSP 2514
BDE .6479 BRA .9748 BC3 .0883 FSP -138

MID-COURSE EXECUTION ACCURACY

SGT 904.7 SGR 447.2 SG3 60.6
RRT .0053 RRF -.0046 RTF -.7069
SGB 1009.2 R23 .0004 R13 -.7069
SG1 904.7 SG2 447.2 THA .20

ORBIT DETERMINATION ACCURACY

ST 456.3 SR 396.3 SS 415.9
CRT -.7609 CRS -.8846 CST .9742
LSA 703.4 MSA 207.9 SSA 15.3
EL1 567.9 EL2 206.6 ALF 140.27

LAUNCH DATE JUN 10 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 27 1967

DISTANCE 180.516

HELIOCENTRIC CONIC

RL	151.88	LAL	-.00	LOL	258.45	VL	23.232	GAL	2.64	AZL	93.43	HCA	72.83	SMA	109.87	ECC	.38471	INC	3.4296	V1	29.334
RP	108.90	LAP	-3.28	LOP	331.26	VP	35.064	GAP	-22.62	AZP	91.01	TAL	175.77	TAP	248.60	RCA	67.60	APO	152.14	V2	34.799
RC	43.079	GL	-12.57	GP	-.30	ZAL	82.19	ZAP	10.29	ETS	178.62	ZAE	167.96	ETE	71.05	ZAC	103.48	ETC	14.85	CLP	10.28

PLANETOCENTRIC CONIC

C3	40.723	VHL	6.381	DLA	-10.11	RAL	171.72	RAD	6568.6	VEL	12.731	PTH	2.31	VHP	13.624	OPA	10.08	RAP	164.18	ECC	1.6702

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 54 34	2071.71	-15.87	32.63	42.88	113.77	7 29 6	1471.7	-12.52	25.55
90.00	16 18 22	5354.10	27.71	244.24	49.54	83.95	17 47 36	4754.1	26.59	235.76
100.00	8 10 54	1825.44	-17.16	13.92	42.27	114.86	8 41 20	1225.4	-13.66	6.87
100.00	17 44 42	5075.61	29.12	223.58	49.35	82.94	19 9 18	4475.6	27.84	215.01
110.00	9 7 47	1647.35	-20.57	358.62	40.48	117.92	9 35 14	1047.3	-16.67	351.66
110.00	19 4 19	4826.47	32.89	204.00	48.70	80.12	20 24 46	4226.5	31.18	195.20

DIFFERENTIAL CORRECTIONS

TDE	.4564	TRA	-.9285	TC3	.0567	BAU	.0598
RDE	-.4368	RRA	-.1981	RC3	.0941	FAU	.02043
FDE	-.3951	FRA	.4444	FC3	-.4344	BSP	2667
BDE	.6317	BRA	.9494	BC3	.1098	FSP	-155

MID-COURSE EXECUTION ACCURACY

SGT	943.5	SGR	448.2	SG3	66.8		
RRT	.0023	RRF	-.0020	RTF	-.7249		
SGB	1044.6	R23	.0001	R13	-.7249		
SG1	943.5	SG2	448.2	THA	.08		

ORBIT DETERMINATION ACCURACY

ST	482.1	SR	395.9	SS	441.8
CRT	-.7697	CRS	-.8913	CST	.9741
LSA	735.6	MSA	207.6	SSA	15.6
EL1	588.5	EL2	207.1	ALF	142.22

LAUNCH DATE JUN 10 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 29 1967

DISTANCE 187.123

HELIOCENTRIC CONIC

RL	151.88	LAL	-.00	LOL	258.45	VL	23.579	GAL	2.39	AZL	93.42	HCA	76.00	SMA	111.37	ECC	.36584	INC	3.4224	V1	29.334
RP	108.88	LAP	-3.32	LOP	334.42	VP	35.300	GAP	-21.42	AZP	90.83	TAL	175.84	TAP	251.83	RCA	70.63	APO	152.11	V2	34.804
RC	42.876	GL	-13.47	GP	-.32	ZAL	82.55	ZAP	8.64	ETS	178.10	ZAE	166.69	ETE	60.09	ZAC	102.02	ETC	14.68	CLP	8.63

PLANETOCENTRIC CONIC

C3	36.432	VHL	6.036	DLA	-10.81	RAL	171.03	RAD	6568.4	VEL	12.562	PTH	2.28	VHP	12.946	OPA	9.49	RAP	165.59	ECC	1.5996

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 57 32	2020.61	-14.44	29.56	40.34	114.63	7 31 12	1420.6	-11.00	22.57
90.00	16 9 58	5348.93	27.68	243.87	47.04	83.76	17 39 7	4748.9	26.52	235.39
100.00	8 13 28	1775.62	-15.70	10.93	39.72	115.77	8 43 4	1175.6	-12.11	3.98
100.00	17 36 42	5069.16	29.07	223.10	46.85	82.69	19 1 12	4469.2	27.75	214.55
110.00	9 9 27	1600.28	-19.04	355.82	37.91	118.94	9 36 8	1000.3	-15.04	348.99
110.00	18 57 12	4817.26	32.78	203.31	46.18	79.72	20 17 30	4217.3	31.02	194.53

DIFFERENTIAL CORRECTIONS

TDE	.4596	TRA	-.9044	TC3	.0922	BAU	.0681
RDE	-.4121	RRA	-.1849	RC3	.1050	FAU	.02146
FDE	-.4197	FRA	.4489	FC3	-.5099	BSP	2817
BDE	.6173	BRA	.9231	BC3	.1397	FSP	-173

MID-COURSE EXECUTION ACCURACY

SGT	983.2	SGR	448.3	SG3	73.6		
RRT	-.0008	RRF	.0009	RTF	-.7420		
SGB	1080.6	R23	-.0001	R13	.7420		
SG1	983.2	SG2	448.3	THA	179.97		

ORBIT DETERMINATION ACCURACY

ST	509.0	SR	394.8	SS	469.3
CRT	-.7791	CRS	-.8982	CST	.9740
LSA	769.6	MSA	206.6	SSA	15.9
EL1	610.2	EL2	206.5	ALF	144.12

LAUNCH DATE JUN 10 1967 FLIGHT TIME 82.00 ARRIVAL DATE AUG 31 1967

DISTANCE 193.758

HELIOCENTRIC CONIC

RL	151.88	LAL	-.00	LOL	258.45	VL	23.899	GAL	2.15	AZL	93.42	HCA	79.16	SMA	112.81	ECC	.34812	INC	3.4153	V1	29.334
RP	108.87	LAP	-3.35	LOP	337.60	VP	35.520	GAP	-20.28	AZP	90.64	TAL	175.97	TAP	255.13	RCA	73.54	APO	152.08	V2	34.809
RC	42.849	GL	-14.41	GP	-.34	ZAL	83.03	ZAP	6.97	ETS	177.37	ZAE	165.08	ETE	51.14	ZAC	100.57	ETC	14.52	CLP	6.96

PLANETOCENTRIC CONIC

C3	32.681	VHL	5.717	DLA	-11.48	RAL	170.22	RAD	6568.3	VEL	12.412	PTH	2.24	VHP	12.295	OPA	8.90	RAP	166.98	ECC	1.5379

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 59 52	1970.78	-13.00	26.60	37.76	115.38	7 32 43	1370.8	-9.48	19.70
90.00	16 1 10	5343.93	27.64	243.51	44.45	83.59	17 30 14	4743.9	26.46	235.04
100.00	8 15 24	1727.06	-14.25	8.06	37.13	116.56	8 44 11	1127.1	-10.57	1.20
100.00	17 28 18	5062.88	29.01	222.65	44.26	82.46	18 52 41	4462.9	27.66	214.10
110.00	9 10 31	1554.46	-17.51	353.15	35.31	119.84	9 36 26	954.5	-13.41	346.44
110.00	18 49 41	4808.24	32.67	202.63	43.58	79.33	20 9 49	4208.2	30.85	193.88

DIFFERENTIAL CORRECTIONS

TDE	.4638	TRA	-.8794	TC3	.1354	BAU	.0780
RDE	-.3885	RRA	-.1723	RC3	.1164	FAU	.02261
FDE	-.4468	FRA	.4525	FC3	-.5990	BSP	2979
BDE	.6050	BRA	.8961	BC3	.1785	FSP	-195

MID-COURSE EXECUTION ACCURACY

SGT	1024.1	SGR	447.6	SG3	81.2		
RRT	-.0042	RRF	.0040	RTF	-.7587		
SGB	1117.7	R23	-.0000	R13	.7587		
SG1	1024.1	SG2	447.6	THA	179.87		

ORBIT DETERMINATION ACCURACY

ST	537.5	SR	393.0	SS	498.5
CRT	-.7893	CRS	-.9053	CST	.9742
LSA	806.0	MSA	204.7	SSA	16.3
EL1	633.6	EL2	204.7	ALF	145.98

LAUNCH DATE JUN 10 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 2 1967

DISTANCE 200.417

HELIOCENTRIC CONIC

RL	151.88	LAL	-.00	LOL	258.45	VL	24.195	GAL	1.90	AZL	93.41	HCA	82.33	SMA	114.19	ECC	.33153	INC	3.4084	V1	29.334
RP	108.85	LAP	-3.38	LOP	340.77	VP	35.726	GAP	-19.18	AZP	90.46	TAL	176.16	TAP	258.48	RCA	76.33	APO	152.05	V2	34.815
RC	42.995	GL	-15.37	GP	-.35	ZAL	83.63	ZAP	5.28	ETS	176.19	ZAE	163.25	ETE	44.00	ZAC	99.15	ETC	14.37	CLP	5.27

PLANETOCENTRIC CONIC

C3	29.407	VHL	5.423	DLA	-12.13	RAL	169.29	RAD	6568.2	VEL	12.279	PTH	2.21	VHP	11.670	OPA	8.30	RAP	168.35	ECC	1.4840

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 1 34	1922.50	-11.58	23.77	35.15	116.02	7 33 36	1322.5	-7.99	16.94
90.00	15 52 0	5339.16	27.60	243.16	41.79	83.42	17 20 59	4739.2	26.40	234.70
100.00	8 16 43	1680.05	-12.80	5.32	34.53	117.25	8 44 43	1080.1	-9.05	358.54
100.00	17 19 32	5056.84	28.96	222.21	41.60	82.23	18 43 49	4456.8	27.58	213.67
110.00	9 10 58	1510.14	-15.99	350.61	32.70	120.62	9 36 8	910.1	-11.81	344.00
110.00	18 41 47	4799.52	32.56	201.97	40.90	78.96	20 1 46	4199.5	30.69	193.25

DIFFERENTIAL CORRECTIONS

TDE	.4688	TRA	-.8528	TC3	.1856	BAU	.0887
RDE	-.3661	RRA	-.1602	RC3	.1282	FAU	.02389
FDE	-.4768	FRA	.4549	FC3	-.7034	BSP	3139
BDE	.5948	BRA	.8677	BC3	.2256	FSP	-219

MID-COURSE EXECUTION ACCURACY

SGT	1065.4	SGR	446.0	SG3	89.7		
RRT	-.0085	RRF	.0079	RTF	-.7741		
SGB	1155.0	R23	.0001	R13	.7741		
SG1	1065.5	SG2	446.0	THA	179.75		

ORBIT DETERMINATION ACCURACY

ST	567.3	SR	390.3	SS	529.8
CRT	-.8004	CRS	-.9124	CST	.9744
LSA	844.8	MSA	202.0	SSA	16.6
EL1	658.4	EL2	201.6	ALF	147.78

```
LAUNCH DATE  JUN 10 1967                          FLIGHT TIME  86.00                          ARRIVAL DATE  SEP  4 1967

 HELIOCENTRIC CONIC                                DISTANCE 207.096
  RL  151.88 LAL   -.00 LOL 258.45 VL  24.469 GAL   1.66 AZL  93.40 HCA  85.49 SMA 115.51 ECC .31603 INC 3.4015 V1  29.334
  RP  108.83 LAP  -3.39 LOP 343.94 VP  35.919 GAP -18.13 AZP  90.27 TAL 176.40 TAP 261.90 RCA  79.01 APO 152.02 V2  34.822
  RC  43.312 GL  -16.36 GP    -.38 ZAL  84.36 ZAP   3.58 ETS 173.92 ZAE 161.30 ETE  38.32 ZAC  97.74 ETC  14.24 CLP   3.56
 PLANETOCENTRIC CONIC
  C3  26.551 VHL  5.153 DLA -12.75 RAL 168.23 RAD 6568.1 VEL 12.163 PTH   2.18 VHP 11.071 DPA   7.72 RAP 169.69 ECC 1.4370
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     7  2 37   1876.05     -10.18     21.08      32.53      116.57    7 33 53    1276.0      -6.53      14.30
     90.00    15 42 31   5334.69      27.57    242.84      39.07       83.26   17 11 26    4734.7      26.35     234.39
    100.00     8 17 22   1634.86     -11.38      2.72      31.90      117.83    8 44 37    1034.9      -7.56     356.01
    100.00    17 10 27   5051.12      28.90    221.79      38.88       82.02   18 34 38    4451.1      27.50     213.27
    110.00     9 10 46   1467.59     -14.50    348.21      30.08      121.30    9 35 14     867.6     -10.25     341.69
    110.00    18 33 32   4791.15      32.45    201.34      38.17       78.60   19 53 23    4191.1      30.54     192.65
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TDE  .4730 TRA -.8262 TC3  .2427 BAU  .0995      SGT 1107.4 SGR  443.6 SG3   99.1      ST   597.1 SR   386.9 SS   562.4
  RDE -.3449 RRA -.1486 RC3  .1404 FAU .02531      RRT -.0120 RRF  .0117 RTF -.7880      CRT -.8108 CRS -.9193 CST  .9746
  FDE -.5093 FRA  .4565 FC3 -.8254 BSP   3281      SGB 1193.0 R23 -.0004 R13  .7880      LSA  884.6 MSA  199.2 SSA   16.9
  BDE  .5854 BRA  .8395 BC3  .2804 FSP   -245      SG1 1107.4 SG2  443.5 THA 179.67      EL1  683.4 EL2  197.9 ALF 149.45

LAUNCH DATE  JUN 10 1967                          FLIGHT TIME  88.00                          ARRIVAL DATE  SEP  6 1967

 HELIOCENTRIC CONIC                                DISTANCE 213.790
  RL  151.88 LAL   -.00 LOL 258.45 VL  24.720 GAL   1.42 AZL  93.39 HCA  88.66 SMA 116.77 ECC .30159 INC 3.3948 V1  29.334
  RP  108.80 LAP  -3.39 LOP 347.11 VP  36.098 GAP -17.12 AZP  90.08 TAL 176.70 TAP 265.37 RCA  81.55 APO 151.99 V2  34.830
  RC  43.796 GL  -17.36 GP    -.40 ZAL  85.19 ZAP   1.86 ETS 167.44 ZAE 159.33 ETE  33.76 ZAC  96.37 ETC  14.12 CLP   1.81
 PLANETOCENTRIC CONIC
  C3  24.064 VHL  4.905 DLA -13.34 RAL 167.06 RAD 6568.0 VEL 12.060 PTH   2.16 VHP 10.495 DPA   7.13 RAP 171.00 ECC 1.3960
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     7  2 59   1831.72      -8.82     18.54      29.89      117.02    7 33 31    1231.7      -5.12      11.80
     90.00    15 32 47   5330.51      27.53    242.54      36.31       83.11   17  1 38    4730.5      26.29     234.09
    100.00     8 17 22   1591.75      -9.99       .27      29.26      118.32    8 43 54     991.8      -6.13     353.61
    100.00    17  1  6   5045.71      28.85    221.40      36.12       81.82   18 25 12    4445.7      27.42     212.88
    110.00     9  9 57   1427.06     -13.06    345.96      27.45      121.88    9 33 44     827.1      -8.75     339.51
    110.00    18 25  0   4783.17      32.34    200.75      35.40       78.26   19 44 43    4183.2      30.38     192.08
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TDE  .4793 TRA -.7972 TC3  .3091 BAU  .1109      SGT 1149.3 SGR  440.2 SG3  109.6      ST   629.2 SR   382.8 SS   597.7
  RDE -.3250 RRA -.1377 RC3  .1526 FAU .02692      RRT -.0176 RRF  .0167 RTF -.8018      CRT -.8229 CRS -.9265 CST  .9751
  FDE -.5460 FRA  .4561 FC3 -.9684 BSP   3445      SGB 1230.8 R23 -.0001 R13  .8018      LSA  928.0 MSA  195.2 SSA   17.3
  BDE  .5791 BRA  .8090 BC3  .3447 FSP   -275      SG1 1149.4 SG2  440.2 THA 179.55      EL1  710.9 EL2  192.5 ALF 151.08

LAUNCH DATE  JUN 10 1967                          FLIGHT TIME  90.00                          ARRIVAL DATE  SEP  8 1967

 HELIOCENTRIC CONIC                                DISTANCE 220.497
  RL  151.88 LAL   -.00 LOL 258.45 VL  24.952 GAL   1.19 AZL  93.39 HCA  91.83 SMA 117.97 ECC .28817 INC 3.3880 V1  29.334
  RP  108.78 LAP  -3.39 LOP 350.29 VP  36.265 GAP -16.16 AZP  89.89 TAL 177.06 TAP 268.89 RCA  83.97 APO 151.96 V2  34.838
  RC  44.440 GL  -18.36 GP    -.43 ZAL  86.13 ZAP    .43 ETS  93.51 ZAE 157.39 ETE  30.05 ZAC  95.03 ETC  14.01 CLP    .03
 PLANETOCENTRIC CONIC
  C3  21.901 VHL  4.680 DLA -13.88 RAL 165.78 RAD 6567.9 VEL 11.970 PTH   2.13 VHP  9.942 DPA   6.56 RAP 172.28 ECC 1.3604
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     7  2 42   1789.78      -7.51     16.14      27.25      117.38    7 32 32    1189.8      -3.78       9.45
     90.00    15 22 53   5326.59      27.50    242.26      33.53       82.97   16 51 39    4726.6      26.24     233.82
    100.00     8 16 42   1551.00      -8.67    357.97      26.63      118.72    8 42 33     951.0      -4.77     351.35
    100.00    16 51 33   5040.60      28.80    221.02      33.33       81.63   18 15 34    4440.6      27.34     212.52
    110.00     9  8 30   1388.78     -11.67    343.86      24.83      122.36    9 31 38     788.8      -7.32     337.47
    110.00    18 16 15   4775.59      32.23    200.18      32.61       77.94   19 35 51    4175.6      30.24     191.54
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TDE  .4856 TRA -.7676 TC3  .3858 BAU  .1228      SGT 1192.1 SGR  436.0 SG3  121.5      ST   661.8 SR   378.1 SS   635.2
  RDE -.3063 RRA -.1273 RC3  .1646 FAU .02878      RRT -.0228 RRF  .0219 RTF -.8148      CRT -.8349 CRS -.9336 CST  .9756
  FDE -.5869 FRA  .4540 FC3-1.1375 BSP   3595      SGB 1269.3 R23 -.0005 R13  .8148      LSA  973.4 MSA  191.0 SSA   17.6
  BDE  .5741 BRA  .7781 BC3  .4194 FSP   -310      SG1 1192.1 SG2  435.9 THA 179.45      EL1  739.0 EL2  186.3 ALF 152.62

LAUNCH DATE  JUN 10 1967                          FLIGHT TIME  92.00                          ARRIVAL DATE  SEP 10 1967

 HELIOCENTRIC CONIC                                DISTANCE 227.211
  RL  151.88 LAL   -.00 LOL 258.45 VL  25.165 GAL    .96 AZL  93.38 HCA  95.01 SMA 119.10 ECC .27574 INC 3.3812 V1  29.334
  RP  108.75 LAP  -3.37 LOP 353.47 VP  36.420 GAP -15.23 AZP  89.70 TAL 177.46 TAP 272.47 RCA  86.26 APO 151.94 V2  34.846
  RC  45.237 GL  -19.37 GP    -.46 ZAL  87.16 ZAP   1.85 ETS  13.93 ZAE 155.54 ETE  27.00 ZAC  93.73 ETC  13.91 CLP  -1.79
 PLANETOCENTRIC CONIC
  C3  20.023 VHL  4.475 DLA -14.39 RAL 164.40 RAD 6567.8 VEL 11.891 PTH   2.11 VHP  9.412 DPA   5.99 RAP 173.51 ECC 1.3295
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     7  1 44   1750.47      -6.27     13.92      24.62      117.67    7 30 55    1150.5      -2.52       7.25
     90.00    15 12 52   5322.88      27.47    241.99      30.74       82.84   16 41 35    4722.9      26.19     233.56
    100.00     8 15 23   1512.83      -7.41    355.83      24.00      119.04    8 40 36     912.8      -3.49     349.24
    100.00    16 41 54   5035.75      28.75    220.67      30.54       81.45   18  5 50    4435.8      27.27     212.18
    110.00     9  6 26   1352.96     -10.36    341.92      22.22      122.76    9 28 59     753.0      -5.97     335.58
    110.00    18  7 21   4768.38      32.13    199.64      29.81       77.64   19 26 49    4168.4      30.09     191.02
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TDE  .4917 TRA -.7373 TC3  .4682 BAU  .1339      SGT 1233.7 SGR  430.9 SG3  134.7      ST   694.3 SR   372.7 SS   674.2
  RDE -.2887 RRA -.1175 RC3  .1761 FAU .03079      RRT -.0287 RRF  .0277 RTF -.8268      CRT -.8467 CRS -.9402 CST  .9762
  FDE -.6316 FRA  .4512 FC3-1.3311 BSP   3770      SGB 1306.8 R23 -.0006 R13  .8268      LSA 1019.9 MSA  186.6 SSA   17.9
  BDE  .5702 BRA  .7467 BC3  .5003 FSP   -348      SG1 1233.8 SG2  430.7 THA 179.35      EL1  767.3 EL2  179.4 ALF 154.03
```

LAUNCH DATE JUN 10 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 12 1967

DISTANCE 233.930

HELIOCENTRIC CONIC
RL 151.88 LAL -.00 LOL 258.45 VL 25.361 GAL .75 AZL 93.37 HCA 98.18 SMA 120.16 ECC .26426 INC 3.3744 V1 29.334
RP 108.72 LAP -3.34 LOP 356.65 VP 36.564 GAP -14.34 AZP 89.52 TAL 177.92 TAP 276.09 RCA 88.41 APO 151.92 V2 34.856
RC 46.178 GL -20.37 GP -.49 ZAL 88.27 ZAP 3.70 ETS 7.19 ZAE 153.82 ETE 24.44 ZAC 92.48 ETC 13.83 CLP -3.67

PLANETOCENTRIC CONIC
C3 18.395 VHL 4.289 DLA -14.86 RAL 162.95 RAD 6567.7 VEL 11.823 PTH 2.09 VHP 8.903 DPA 5.44 RAP 174.69 ECC 1.3027

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 0 7	1714.00	-5.12	11.86	22.01	117.89	7 28 41	1114.0	-1.35	5.21
90.00	15 2 51	5319.29	27.44	241.73	27.95	82.72	16 31 30	4719.3	26.15	233.30
100.00	8 13 26	1477.44	-6.24	353.86	21.39	119.29	8 38 4	877.4	-2.29	347.30
100.00	16 32 13	5031.09	28.71	220.33	27.75	81.28	17 56 4	4431.1	27.20	211.85
110.00	9 3 46	1319.78	-9.13	340.13	19.63	123.08	9 25 46	719.8	-4.71	333.83
110.00	17 58 23	4761.50	32.03	199.13	27.03	77.36	19 17 44	4161.5	29.95	190.53

DIFFERENTIAL CORRECTIONS
TDE .4979 TRA -.7069 TC3 .5574 BAU .1446
RDE -.2724 RRA -.1084 RC3 .1868 FAU .03310
FDE -.6827 FRA .4468 FC3-1.5580 BSP 3919
BDE .5675 BRA .7152 BC3 .5879 FSP -392

MID-COURSE EXECUTION ACCURACY
SGT 1275.0 SGR 424.9 SG3 149.6
RRT -.0353 RRF .0344 RTF -.8374
SGB 1343.9 R23 -.0011 R13 .8374
SG1 1275.1 SG2 424.6 THA 179.24

ORBIT DETERMINATION ACCURACY
ST 727.0 SR 366.7 SS 716.6
CRT -.8583 CRS -.9467 CST .9768
LSA 1069.1 MSA 182.2 SSA 18.2
EL1 795.9 EL2 171.9 ALF 155.36

LAUNCH DATE JUN 10 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 14 1967

DISTANCE 240.650

HELIOCENTRIC CONIC
RL 151.88 LAL -.00 LOL 258.45 VL 25.540 GAL .54 AZL 93.37 HCA 101.35 SMA 121.16 ECC .25368 INC 3.3674 V1 29.334
RP 108.69 LAP -3.30 LOP 359.83 VP 36.698 GAP -13.48 AZP 89.34 TAL 178.41 TAP 279.76 RCA 90.43 APO 151.90 V2 34.865
RC 47.255 GL -21.34 GP -.53 ZAL 89.46 ZAP 5.63 ETS 4.88 ZAE 152.26 ETE 22.29 ZAC 91.29 ETC 13.76 CLP -5.60

PLANETOCENTRIC CONIC
C3 16.987 VHL 4.121 DLA -15.27 RAL 161.42 RAD 6567.7 VEL 11.763 PTH 2.08 VHP 8.416 DPA 4.91 RAP 175.81 ECC 1.2796

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 57 52	1680.56	-4.05	9.99	19.43	118.05	7 25 53	1080.6	-.27	3.35
90.00	14 52 56	5315.72	27.41	241.48	25.20	82.59	16 21 32	4715.7	26.10	233.05
100.00	8 10 53	1444.99	-5.16	352.06	18.82	119.49	8 34 58	845.0	-1.19	345.52
100.00	16 22 37	5026.52	28.66	220.00	24.99	81.11	17 46 23	4426.5	27.13	211.53
110.00	9 0 33	1289.38	-8.00	338.51	17.07	123.35	9 22 3	689.4	-3.56	332.24
110.00	17 49 26	4754.90	31.93	198.65	24.27	77.08	19 8 41	4154.9	29.82	190.07

DIFFERENTIAL CORRECTIONS
TDE .5019 TRA -.6773 TC3 .6498 BAU .1541
RDE -.2572 RRA -.0997 RC3 .1963 FAU .03568
FDE -.7382 FRA .4408 FC3-1.8187 BSP 4005
BDE .5640 BRA .6846 BC3 .6788 FSP -439

MID-COURSE EXECUTION ACCURACY
SGT 1313.9 SGR 418.0 SG3 166.3
RRT -.0411 RRF .0412 RTF -.8459
SGB 1378.8 R23 -.0025 R13 .8459
SG1 1314.1 SG2 417.6 THA 179.17

ORBIT DETERMINATION ACCURACY
ST 756.8 SR 360.2 SS 759.6
CRT -.8686 CRS -.9527 CST .9770
LSA 1116.9 MSA 178.5 SSA 18.5
EL1 821.9 EL2 164.4 ALF 156.55

LAUNCH DATE JUN 10 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 16 1967

DISTANCE 247.369

HELIOCENTRIC CONIC
RL 151.88 LAL -.00 LOL 258.45 VL 25.704 GAL .34 AZL 93.36 HCA 104.53 SMA 122.10 ECC .24396 INC 3.3602 V1 29.334
RP 108.66 LAP -3.25 LOP 3.01 VP 36.822 GAP -12.65 AZP 89.16 TAL 178.94 TAP 283.47 RCA 92.31 APO 151.89 V2 34.875
RC 48.458 GL -22.30 GP -.57 ZAL 90.70 ZAP 7.63 ETS 3.71 ZAE 150.89 ETE 20.44 ZAC 90.16 ETC 13.69 CLP -7.61

PLANETOCENTRIC CONIC
C3 15.770 VHL 3.971 DLA -15.64 RAL 159.85 RAD 6567.6 VEL 11.711 PTH 2.06 VHP 7.949 DPA 4.39 RAP 176.87 ECC 1.2595

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 55 1	1650.27	-3.08	8.29	16.89	118.16	7 22 31	1050.3	.71	1.66
90.00	14 43 14	5312.06	27.38	241.21	22.49	82.46	16 11 46	4712.1	26.05	232.80
100.00	8 7 44	1415.61	-4.17	350.44	16.28	119.63	8 31 20	815.6	-.19	343.90
100.00	16 13 11	5021.96	28.61	219.67	22.28	80.94	17 36 53	4422.0	27.06	211.21
110.00	8 56 50	1261.84	-6.96	337.05	14.56	123.55	9 17 51	661.8	-2.51	330.80
110.00	17 40 35	4748.49	31.83	198.17	21.55	76.82	18 59 44	4148.5	29.69	189.62

DIFFERENTIAL CORRECTIONS
TDE .5088 TRA -.6459 TC3 .7501 BAU .1639
RDE -.2432 RRA -.0917 RC3 .2042 FAU .03858
FDE -.8021 FRA .4331 FC3-2.1178 BSP 4115
BDE .5640 BRA .6524 BC3 .7774 FSP -491

MID-COURSE EXECUTION ACCURACY
SGT 1352.9 SGR 410.2 SG3 185.1
RRT -.0504 RRF .0501 RTF -.8555
SGB 1413.7 R23 -.0027 R13 .8555
SG1 1353.1 SG2 409.7 THA 179.04

ORBIT DETERMINATION ACCURACY
ST 789.7 SR 353.3 SS 806.7
CRT -.8800 CRS -.9585 CST .9779
LSA 1169.8 MSA 174.0 SSA 18.7
EL1 851.0 EL2 155.7 ALF 157.72

LAUNCH DATE JUN 10 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 18 1967

DISTANCE 254.083

HELIOCENTRIC CONIC
RL 151.88 LAL -.00 LOL 258.45 VL 25.854 GAL .16 AZL 93.35 HCA 107.71 SMA 122.98 ECC .23507 INC 3.3529 V1 29.334
RP 108.63 LAP -3.19 LOP 6.19 VP 36.936 GAP -11.86 AZP 88.98 TAL 179.50 TAP 287.20 RCA 94.07 APO 151.88 V2 34.886
RC 49.776 GL -23.21 GP -.62 ZAL 91.97 ZAP 9.71 ETS 3.00 ZAE 149.73 ETE 18.85 ZAC 89.11 ETC 13.64 CLP -9.69

PLANETOCENTRIC CONIC
C3 14.721 VHL 3.837 DLA -15.96 RAL 158.24 RAD 6567.6 VEL 11.666 PTH 2.05 VHP 7.502 DPA 3.90 RAP 177.85 ECC 1.2423

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 51 37	1623.20	-2.21	6.78	14.41	118.24	7 18 40	1023.2	1.58	.15
90.00	14 33 50	5308.22	27.34	240.94	19.84	82.33	16 2 18	4708.2	26.00	232.53
100.00	8 4 5	1389.35	-3.28	348.99	13.81	119.73	8 27 15	789.3	.70	342.46
100.00	16 4 2	5017.31	28.56	219.33	19.63	80.77	17 27 40	4417.3	26.99	210.88
110.00	8 52 39	1237.21	-6.03	335.74	12.11	123.71	9 13 16	637.2	-1.56	329.51
110.00	17 31 58	4742.21	31.73	197.71	18.90	76.56	18 51 0	4142.2	29.56	189.17

DIFFERENTIAL CORRECTIONS
TDE .5088 TRA -.6134 TC3 .8512 BAU .1726
RDE -.2301 RRA -.0843 RC3 .2102 FAU .04191
FDE -.8676 FRA .4215 FC3-2.4646 BSP 4318
BDE .5584 BRA .6191 BC3 .8767 FSP -563

MID-COURSE EXECUTION ACCURACY
SGT 1382.5 SGR 401.5 SG3 206.0
RRT -.0558 RRF .0568 RTF -.8626
SGB 1439.7 R23 -.0043 R13 .8626
SG1 1382.7 SG2 400.8 THA 178.99

ORBIT DETERMINATION ACCURACY
ST 811.9 SR 345.9 SS 850.2
CRT -.8892 CRS -.9637 CST .9780
LSA 1213.4 MSA 170.6 SSA 18.8
EL1 870.1 EL2 147.6 ALF 158.61

LAUNCH DATE JUN 10 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 20 1967

HELIOCENTRIC CONIC DISTANCE 260.794

RL 151.88 LAL -.00 LOL 258.45 VL 25.990 GAL -.02 AZL 93.35 HCA 110.89 SMA 123.79 ECC .22695 INC 3.3453 V1 29.334
RP 108.59 LAP -3.13 LOP 9.38 VP 37.042 GAP -11.09 AZP 88.81 TAL 180.07 TAP 290.96 RCA 95.69 APO 151.88 V2 34.897
RC 51.201 GL -24.08 GP -.67 ZAL 93.26 ZAP 11.88 ETS 2.53 ZAE 148.78 ETE 17.46 ZAC 88.15 ETC 13.60 CLP -11.86

PLANETOCENTRIC CONIC

C3 13.819 VHL 3.717 DLA -16.23 RAL 156.63 RAD 6567.5 VEL 11.628 PTH 2.04 VHP 7.075 DPA 3.44 RAP 178.76 ECC 1.2274

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 47 45	1599.30	-1.44	5.44	12.01	118.28	7 14 24	999.3	2.35	358.82
90.00	14 24 50	5304.16	27.30	240.65	17.27	82.19	15 53 14	4704.2	25.94	232.24
100.00	8 0 0	1366.15	-2.50	347.71	11.42	119.80	8 22 47	766.1	1.48	341.19
100.00	15 55 16	5012.55	28.51	218.99	17.07	80.60	17 18 48	4412.5	26.91	210.55
110.00	8 48 7	1215.42	-5.21	334.60	9.73	123.83	9 8 23	615.4	-.73	328.37
110.00	17 23 38	4736.05	31.63	197.25	16.33	76.31	18 42 34	4136.0	29.43	188.74

DIFFERENTIAL CORRECTIONS
TDE .5071 TRA -.6238 TC3 .9578 BAU .1813
RDE -.2180 RRA -.0768 RC3 .2141 FAU .04545
FDE -.9453 FRA .4406 FC3-2.8477 BSP 4910
BDE .5519 BRA .6285 BC3 .9815 FSP -691

MID-COURSE EXECUTION ACCURACY
SGT 1456.2 SGR 391.7 SG3 230.3
RRT -.0453 RRF .0625 RTF -.8642
SGB 1508.0 R23 -.0204 R13 .8643
SG1 1456.4 SG2 391.2 THA 179.25

ORBIT DETERMINATION ACCURACY
ST 837.6 SR 338.0 SS 900.8
CRT -.8878 CRS -.9663 CST .9753
LSA 1263.0 MSA 177.7 SSA 18.7
EL1 891.3 EL2 146.2 ALF 159.72

LAUNCH DATE JUN 10 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 22 1967

HELIOCENTRIC CONIC DISTANCE 267.490

RL 151.88 LAL -.00 LOL 258.45 VL 26.114 GAL -.19 AZL 93.34 HCA 114.07 SMA 124.54 ECC .21958 INC 3.3374 V1 29.334
RP 108.56 LAP -3.05 LOP 12.56 VP 37.140 GAP -10.35 AZP 88.64 TAL 180.67 TAP 294.74 RCA 97.19 APO 151.88 V2 34.908
RC 52.722 GL -24.89 GP -.73 ZAL 94.56 ZAP 14.15 ETS 2.19 ZAE 148.08 ETE 16.25 ZAC 87.28 ETC 13.57 CLP -14.13

PLANETOCENTRIC CONIC

C3 13.043 VHL 3.612 DLA -16.45 RAL 155.03 RAD 6567.5 VEL 11.594 PTH 2.03 VHP 6.667 DPA 3.01 RAP 179.56 ECC 1.2147

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 43 27	1578.67	-.77	4.29	9.69	118.31	7 9 45	978.7	3.02	357.66
90.00	14 16 20	5299.69	27.26	240.33	14.80	82.03	15 44 40	4699.7	25.88	231.93
100.00	7 55 31	1346.09	-1.82	346.61	9.11	119.84	8 17 57	746.1	2.16	340.09
100.00	15 46 56	5007.50	28.45	218.63	14.60	80.42	17 10 24	4407.5	26.83	210.20
110.00	8 43 16	1196.52	-4.49	333.60	7.44	123.92	9 3 13	596.5	-.01	327.39
110.00	17 15 41	4729.84	31.53	196.80	13.85	76.06	18 34 31	4129.8	29.29	188.31

DIFFERENTIAL CORRECTIONS
TDE .5226 TRA -.5422 TC3 1.0634 BAU .1892
RDE -.2070 RRA -.0712 RC3 .2152 FAU .05012
FDE-1.0464 FRA .3806 FC3-3.3264 BSP 4550
BDE .5621 BRA .5469 BC3 1.0850 FSP -721

MID-COURSE EXECUTION ACCURACY
SGT 1442.8 SGR 382.0 SG3 258.1
RRT -.0859 RRF .0855 RTF -.8785
SGB 1492.5 R23 -.0045 R13 .8785
SG1 1443.2 SG2 380.5 THA 178.60

ORBIT DETERMINATION ACCURACY
ST 871.9 SR 330.4 SS 963.3
CRT -.9119 CRS -.9742 CST .9798
LSA 1330.6 MSA 162.3 SSA 18.8
EL1 923.6 EL2 128.0 ALF 160.55

LAUNCH DATE JUN 10 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 24 1967

HELIOCENTRIC CONIC DISTANCE 274.178

RL 151.88 LAL -.00 LOL 258.45 VL 26.227 GAL -.34 AZL 93.33 HCA 117.26 SMA 125.23 ECC .21290 INC 3.3290 V1 29.334
RP 108.52 LAP -2.96 LOP 15.75 VP 37.230 GAP -9.64 AZP 88.47 TAL 181.26 TAP 298.52 RCA 98.57 APO 151.89 V2 34.920
RC 54.330 GL -25.65 GP -.80 ZAL 95.84 ZAP 16.54 ETS 1.95 ZAE 147.62 ETE 15.18 ZAC 86.53 ETC 13.55 CLP -16.52

PLANETOCENTRIC CONIC

C3 12.378 VHL 3.518 DLA -16.63 RAL 153.45 RAD 6567.5 VEL 11.566 PTH 2.02 VHP 6.278 DPA 2.62 RAP 180.26 ECC 1.2037

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 38 51	1561.02	-.20	3.31	7.48	118.32	7 4 52	961.0	3.59	356.67
90.00	14 8 23	5294.92	27.22	239.98	12.45	81.87	15 36 38	4694.9	25.81	231.60
100.00	7 50 47	1328.91	-1.24	345.67	6.90	119.87	8 12 56	728.9	2.75	339.15
100.00	15 39 8	5002.26	28.39	218.25	12.24	80.22	17 2 31	4402.3	26.75	209.83
110.00	8 38 14	1180.26	-3.87	332.75	5.26	123.99	8 57 54	580.3	.61	326.54
110.00	17 8 11	4723.67	31.43	196.35	11.50	75.81	18 26 54	4123.7	29.16	187.88

DIFFERENTIAL CORRECTIONS
TDE .5217 TRA -.5145 TC3 1.1583 BAU .1949
RDE -.1967 RRA -.0652 RC3 .2138 FAU .05500
FDE-1.1457 FRA .3656 FC3-3.8464 BSP 4605
BDE .5576 BRA .5186 BC3 1.1779 FSP -812

MID-COURSE EXECUTION ACCURACY
SGT 1466.6 SGR 370.9 SG3 289.1
RRT -.0967 RRF .0980 RTF -.8834
SGB 1512.7 R23 -.0068 R13 .8835
SG1 1467.0 SG2 369.0 THA 178.50

ORBIT DETERMINATION ACCURACY
ST 889.6 SR 322.1 SS 1018.0
CRT -.9191 CRS -.9778 CST .9800
LSA 1380.3 MSA 160.8 SSA 18.7
EL1 938.4 EL2 120.3 ALF 161.27

LAUNCH DATE JUN 10 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 26 1967

HELIOCENTRIC CONIC DISTANCE 280.852

RL 151.88 LAL -.00 LOL 258.45 VL 26.328 GAL -.48 AZL 93.32 HCA 120.44 SMA 125.86 ECC .20688 INC 3.3201 V1 29.334
RP 108.48 LAP -2.86 LOP 18.94 VP 37.313 GAP -8.95 AZP 88.32 TAL 181.86 TAP 302.30 RCA 99.82 APO 151.90 V2 34.932
RC 56.016 GL -26.34 GP -.88 ZAL 97.09 ZAP 19.06 ETS 1.76 ZAE 147.42 ETE 14.23 ZAC 85.90 ETC 13.54 CLP -19.04

PLANETOCENTRIC CONIC

C3 11.808 VHL 3.436 DLA -16.75 RAL 151.93 RAD 6567.5 VEL 11.541 PTH 2.01 VHP 5.908 DPA 2.28 RAP 180.83 ECC 1.1943

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 34 2	1546.26	.28	2.49	5.39	118.32	6 59 48	946.3	4.06	355.85
90.00	14 1 4	5289.76	27.17	239.62	10.22	81.69	15 29 14	4689.8	25.74	231.24
100.00	7 45 51	1314.50	-.75	344.88	4.82	119.88	8 7 46	714.5	3.23	338.35
100.00	15 31 56	4996.75	28.33	217.85	10.01	80.03	16 55 12	4396.8	26.66	209.45
110.00	8 33 5	1166.55	-3.35	332.03	3.19	124.04	8 52 32	566.5	1.14	325.83
110.00	17 1 11	4717.47	31.32	195.89	9.27	75.56	18 19 49	4117.5	29.02	187.45

DIFFERENTIAL CORRECTIONS
TDE .5258 TRA -.4776 TC3 1.2588 BAU .2014
RDE -.1873 RRA -.0600 RC3 .2092 FAU .06074
FDE-1.2675 FRA .3336 FC3-4.4534 BSP 4804
BDE .5581 BRA .4814 BC3 1.2761 FSP -935

MID-COURSE EXECUTION ACCURACY
SGT 1486.2 SGR 359.3 SG3 325.3
RRT -.1170 RRF .1177 RTF -.8908
SGB 1529.0 R23 -.0072 R13 .8909
SG1 1486.8 SG2 356.7 THA 178.28

ORBIT DETERMINATION ACCURACY
ST 911.9 SR 313.8 SS 1083.5
CRT -.9288 CRS -.9818 CST .9810
LSA 1441.8 MSA 157.4 SSA 18.4
EL1 958.0 EL2 110.7 ALF 162.02

LAUNCH DATE JUN 10 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 28 1967

HELIOCENTRIC CONIC DISTANCE 287.513
RL 151.88 LAL -.00 LOL 258.45 VL 26.420 GAL -.61 AZL 93.31 HCA 123.63 SMA 126.44 ECC .20147 INC 3.3107 V1 29.334
RP 108.45 LAP -2.76 LOP 22.13 VP 37.389 GAP -8.28 AZP 88.16 TAL 182.44 TAP 306.07 RCA 100.97 APO 151.92 V2 34.945
RC 57.772 GL -26.97 GP -.98 ZAL 98.29 ZAP 21.73 ETS 1.63 ZAE 147.50 ETE 13.40 ZAC 85.42 ETC 13.53 CLP -21.71

PLANETOCENTRIC CONIC
C3 11.320 VHL 3.364 DLA -16.84 RAL 150.48 RAD 6567.4 VEL 11.520 PTH 2.01 VHP 5.557 DPA 1.98 RAP 181.27 ECC 1.1863

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 29 7	1534.10	.67	1.81	3.43	118.31	6 54 41	934.1	4.45	355.17
90.00	13 54 24	5284.31	27.11	239.23	8.14	81.50	15 22 29	4684.3	25.66	230.86
100.00	7 40 52	1302.59	-.35	344.22	2.87	119.89	8 2 35	702.6	3.63	337.70
100.00	15 25 21	4991.06	28.26	217.44	7.93	79.82	16 48 32	4391.1	26.56	209.05
110.00	8 27 56	1155.13	-2.92	331.43	1.26	124.07	8 47 11	555.1	1.57	325.23
110.00	16 54 46	4711.29	31.22	195.44	7.18	75.31	18 13 17	4111.3	28.89	187.02

DIFFERENTIAL CORRECTIONS
TDE .5203 TRA -.4496 TC3 1.3281 BAU .2033
RDE -.1784 RRA -.0551 RC3 .2018 FAU .06699
FDE-1.3955 FRA .3082 FC3-5.1234 BSP 4764
BDE .5500 BRA .4530 BC3 1.3434 FSP -1051

MID-COURSE EXECUTION ACCURACY
SGT 1491.3 SGR 346.8 SG3 364.9
RRT -.1342 RRF .1365 RTF -.8933
SGB 1531.1 R23 -.0100 R13 .8934
SG1 1492.0 SG2 343.5 THA 178.11

ORBIT DETERMINATION ACCURACY
ST 918.4 SR 305.2 SS 1144.8
CRT -.9347 CRS -.9847 CST .9809
LSA 1490.7 MSA 156.9 SSA 18.0
EL1 962.2 EL2 103.5 ALF 162.54

LAUNCH DATE JUN 10 1967 FLIGHT TIME 112.00 ARRIVAL DATE SEP 30 1967

HELIOCENTRIC CONIC DISTANCE 294.158
RL 151.88 LAL -.00 LOL 258.45 VL 26.502 GAL -.73 AZL 93.30 HCA 126.82 SMA 126.97 ECC .19663 INC 3.3004 V1 29.334
RP 108.41 LAP -2.64 LOP 25.32 VP 37.459 GAP -7.64 AZP 88.02 TAL 183.00 TAP 309.82 RCA 102.00 APO 151.93 V2 34.957
RC 59.590 GL -27.52 GP -1.08 ZAL 99.43 ZAP 24.57 ETS 1.53 ZAE 147.87 ETE 12.65 ZAC 85.10 ETC 13.54 CLP -24.55

PLANETOCENTRIC CONIC
C3 10.901 VHL 3.302 DLA -16.90 RAL 149.12 RAD 6567.4 VEL 11.502 PTH 2.00 VHP 5.224 DPA 1.73 RAP 181.55 ECC 1.1794

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 24 12	1524.33	.98	1.26	1.61	118.30	6 49 36	924.3	4.76	354.62
90.00	13 48 26	5278.58	27.05	238.82	6.21	81.30	15 16 24	4678.6	25.57	230.46
100.00	7 35 54	1292.97	-.02	343.70	1.05	119.89	7 57 27	693.0	3.96	337.17
100.00	15 19 25	4985.17	28.19	217.02	6.00	79.61	16 42 30	4385.2	26.46	208.64
110.00	8 22 53	1145.80	-2.56	330.95	359.46	124.10	8 41 58	545.8	1.93	324.74
110.00	16 48 56	4705.10	31.11	194.99	5.24	75.06	18 7 21	4105.1	28.75	186.59

DIFFERENTIAL CORRECTIONS
TDE .5139 TRA -.4195 TC3 1.3891 BAU .2044
RDE -.1701 RRA -.0506 RC3 .1910 FAU .07421
FDE-1.5427 FRA .2726 FC3-5.8933 BSP 4785
BDE .5413 BRA .4226 BC3 1.4022 FSP -1196

MID-COURSE EXECUTION ACCURACY
SGT 1488.5 SGR 333.9 SG3 410.3
RRT -.1563 RRF .1602 RTF -.8959
SGB 1525.5 R23 -.0131 R13 .8960
SG1 1489.5 SG2 329.6 THA 177.89

ORBIT DETERMINATION ACCURACY
ST 920.9 SR 296.6 SS 1211.5
CRT -.9407 CRS -.9874 CST .9809
LSA 1542.4 MSA 156.3 SSA 17.4
EL1 962.7 EL2 96.3 ALF 162.97

LAUNCH DATE JUN 10 1967 FLIGHT TIME 114.00 ARRIVAL DATE OCT 2 1967

HELIOCENTRIC CONIC DISTANCE 300.787
RL 151.88 LAL -.00 LOL 258.45 VL 26.575 GAL -.84 AZL 93.29 HCA 130.02 SMA 127.44 ECC .19233 INC 3.2893 V1 29.334
RP 108.37 LAP -2.52 LOP 28.52 VP 37.523 GAP -7.02 AZP 87.88 TAL 183.53 TAP 313.54 RCA 102.93 APO 151.95 V2 34.970
RC 61.464 GL -28.01 GP -1.21 ZAL 100.49 ZAP 27.59 ETS 1.46 ZAE 148.53 ETE 11.99 ZAC 84.97 ETC 13.54 CLP -27.57

PLANETOCENTRIC CONIC
C3 10.542 VHL 3.247 DLA -16.92 RAL 147.85 RAD 6567.4 VEL 11.486 PTH 2.00 VHP 4.911 DPA 1.55 RAP 181.66 ECC 1.1735

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 19 22	1516.65	1.23	.83	359.94	118.29	6 44 39	916.7	5.00	354.19
90.00	13 43 9	5272.62	26.99	238.39	4.44	81.10	15 11 2	4672.6	25.48	230.05
100.00	7 31 3	1285.36	.24	343.28	359.39	119.89	7 52 28	685.4	4.21	336.75
100.00	15 14 9	4979.15	28.11	216.59	4.22	79.39	16 37 9	4379.1	26.36	208.22
110.00	8 17 59	1138.31	-2.28	330.56	357.82	124.12	8 36 58	538.3	2.22	324.35
110.00	16 43 43	4698.96	31.00	194.55	3.46	74.82	18 2 2	4099.0	28.61	186.16

DIFFERENTIAL CORRECTIONS
TDE .5048 TRA -.3903 TC3 1.4347 BAU .2037
RDE -.1625 RRA -.0466 RC3 .1767 FAU .08248
FDE-1.7099 FRA .2316 FC3-6.7731 BSP 4794
BDE .5303 BRA .3931 BC3 1.4456 FSP -1365

MID-COURSE EXECUTION ACCURACY
SGT 1476.5 SGR 320.7 SG3 462.3
RRT -.1830 RRF .1887 RTF -.8978
SGB 1510.9 R23 -.0169 R13 .8980
SG1 1477.7 SG2 315.0 THA 177.62

ORBIT DETERMINATION ACCURACY
ST 917.1 SR 288.0 SS 1282.7
CRT -.9459 CRS -.9897 CST .9809
LSA 1595.2 MSA 155.8 SSA 16.8
EL1 957.0 EL2 89.5 ALF 163.31

LAUNCH DATE JUN 10 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 4 1967

HELIOCENTRIC CONIC DISTANCE 307.398
RL 151.88 LAL -.00 LOL 258.45 VL 26.640 GAL -.93 AZL 93.28 HCA 133.21 SMA 127.86 ECC .18852 INC 3.2771 V1 29.334
RP 108.33 LAP -2.39 LOP 31.71 VP 37.581 GAP -6.42 AZP 87.75 TAL 184.02 TAP 317.24 RCA 103.76 APO 151.97 V2 34.983
RC 63.388 GL -28.42 GP -1.35 ZAL 101.46 ZAP 30.82 ETS 1.42 ZAE 149.51 ETE 11.40 ZAC 85.03 ETC 13.56 CLP -30.80

PLANETOCENTRIC CONIC
C3 10.234 VHL 3.199 DLA -16.92 RAL 146.70 RAD 6567.4 VEL 11.473 PTH 1.99 VHP 4.617 DPA 1.43 RAP 181.57 ECC 1.1684

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 14 44	1510.76	1.42	.51	358.43	118.28	6 39 55	910.8	5.19	353.86
90.00	13 38 35	5266.52	26.93	237.96	2.83	80.89	15 6 21	4666.5	25.39	229.62
100.00	7 26 25	1279.46	.44	342.96	357.88	119.89	7 47 45	679.5	4.41	336.42
100.00	15 9 35	4973.06	28.03	216.15	2.61	79.18	16 32 28	4373.1	26.25	207.80
110.00	8 13 22	1132.40	-2.05	330.25	356.32	124.13	8 32 14	532.4	2.44	324.04
110.00	16 39 8	4692.88	30.89	194.11	1.85	74.58	17 57 21	4092.9	28.47	185.75

DIFFERENTIAL CORRECTIONS
TDE .4890 TRA -.3669 TC3 1.4447 BAU .1989
RDE -.1554 RRA -.0429 RC3 .1591 FAU .09152
FDE-1.8927 FRA .1939 FC3-7.7419 BSP 4688
BDE .5131 BRA .3694 BC3 1.4535 FSP -1545

MID-COURSE EXECUTION ACCURACY
SGT 1446.8 SGR 307.1 SG3 519.5
RRT -.2128 RRF .2221 RTF -.8962
SGB 1479.0 R23 -.0234 R13 .8965
SG1 1448.3 SG2 299.7 THA 177.30

ORBIT DETERMINATION ACCURACY
ST 900.1 SR 279.4 SS 1354.2
CRT -.9492 CRS -.9915 CST .9802
LSA 1642.4 MSA 156.7 SSA 16.1
EL1 938.7 EL2 84.3 ALF 163.44

LAUNCH DATE JUN 10 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 6 1967

HELIOCENTRIC CONIC DISTANCE 313.991

RL	151.88	LAL	-.00	LOL	258.45	VL	26.697	GAL	-1.01	AZL	93.26	HCA	136.41	SMA	128.24	ECC	.18517	INC	3.2634	VI	29.334
RP	108.29	LAP	-2.25	LOP	34.91	VP	37.634	GAP	-5.83	AZP	87.63	TAL	184.47	TAP	320.89	RCA	104.49	APO	151.99	V2	34.996
RC	65.357	GL	-28.77	GP	-1.53	ZAL	102.34	ZAP	34.29	ETS	1.41	ZAE	150.82	ETE	10.87	ZAC	85.33	ETC	13.57	CLP	-34.26

PLANETOCENTRIC CONIC

C3	9.967	VHL	3.157	DLA	-16.89	RAL	145.66	RAD	6567.4	VEL	11.461	PTH	1.99	VHP	4.342	DPA	1.38	RAP	181.26	ECC	1.1640

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 10 23	1506.42	1.56	.26	357.07	118.28	6 35 29	906.4	5.33	353.61
90.00	13 34 42	5260.32	26.86	237.51	1.39	80.68	15 2 23	4660.3	25.30	229.20
100.00	7 22 5	1275.05	.59	342.71	356.53	119.89	7 43 20	675.0	4.56	336.18
100.00	15 5 41	4966.93	27.95	215.71	1.17	78.96	16 28 28	4366.9	26.15	207.38
110.00	8 9 4	1127.85	-1.88	330.01	354.99	124.14	8 27 52	527.9	2.62	323.81
110.00	16 35 11	4686.89	30.78	193.67	.40	74.35	17 53 18	4086.9	28.33	185.34

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.4684	TRA	-.3451	TC3	1.4258	BAU	.1909	SGT	1400.5	SGR	293.6	SG3	583.6	ST	872.8	SR	271.2	SS	1429.3
RDE	-.1489	RRA	-.0395	RC3	.1376	FAU	.10164	RRT	-.2492	RRF	.2635	RTF	-.8921	CRT	-.9515	CRS	-.9930	CST	.9791
FDE	-2.0965	FRA	.1504	FC3	-8.8278	BSP	4527	SGB	1430.9	R23	-.0327	R13	.8925	LSA	1689.1	MSA	157.8	SSA	15.3
BDE	.4915	BRA	.3473	BC3	1.4325	FSP	-1749	SG1	1402.5	SG2	283.9	THA	176.88	EL1	910.5	EL2	79.9	ALF	163.40

LAUNCH DATE JUN 10 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 8 1967

HELIOCENTRIC CONIC DISTANCE 320.565

RL	151.88	LAL	-.00	LOL	258.45	VL	26.747	GAL	-1.08	AZL	93.25	HCA	139.61	SMA	128.57	ECC	.18224	INC	3.2483	VI	29.334
RP	108.25	LAP	-2.10	LOP	38.11	VP	37.682	GAP	-5.27	AZP	87.52	TAL	184.87	TAP	324.49	RCA	105.14	APO	152.00	V2	35.009
RC	67.365	GL	-29.05	GP	-1.73	ZAL	103.12	ZAP	38.00	ETS	1.41	ZAE	152.47	ETE	10.38	ZAC	85.87	ETC	13.59	CLP	-37.96

PLANETOCENTRIC CONIC

C3	9.736	VHL	3.120	DLA	-16.85	RAL	144.76	RAD	6567.4	VEL	11.451	PTH	1.99	VHP	4.088	DPA	1.40	RAP	180.71	ECC	1.1602

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 6 21	1503.38	1.66	.09	355.88	118.27	6 31 25	903.4	5.43	353.44
90.00	13 31 32	5254.04	26.79	237.07	.12	80.47	14 59 6	4654.0	25.20	228.76
100.00	7 18 6	1271.88	.70	342.54	355.35	119.89	7 39 18	671.9	4.67	336.00
100.00	15 2 28	4960.76	27.87	215.27	359.90	78.74	16 25 9	4360.8	26.04	206.95
110.00	8 5 10	1124.45	-1.75	329.83	353.82	124.14	8 23 54	524.5	2.75	323.63
110.00	16 31 54	4680.96	30.67	193.25	359.12	74.12	17 49 55	4081.0	28.19	184.93

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.4435	TRA	-.3241	TC3	1.3796	BAU	.1801	SGT	1338.4	SGR	280.7	SG3	655.6	ST	835.9	SR	263.6	SS	1509.4
RDE	-.1431	RRA	-.0365	RC3	.1115	FAU	.11300	RRT	-.2944	RRF	.3155	RTF	-.8856	CRT	-.9531	CRS	-.9943	CST	.9776
FDE	-2.3247	FRA	.0993	FC	-10.0488	BSP	4346	SGB	1367.5	R23	-.0460	R13	.8862	LSA	1738.2	MSA	158.7	SSA	14.5
BDE	.4660	BRA	.3262	BC3	1.3841	FSP	-1985	SG1	1341.0	SG2	267.7	THA	176.32	EL1	873.2	EL2	76.3	ALF	163.14

LAUNCH DATE JUN 10 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 10 1967

HELIOCENTRIC CONIC DISTANCE 327.119

RL	151.88	LAL	-.00	LOL	258.45	VL	26.790	GAL	-1.14	AZL	93.23	HCA	142.82	SMA	128.86	ECC	.17970	INC	3.2309	VI	29.334
RP	108.20	LAP	-1.95	LOP	41.31	VP	37.725	GAP	-4.72	AZP	87.42	TAL	185.22	TAP	328.04	RCA	105.71	APO	152.02	V2	35.023
RC	69.409	GL	-29.27	GP	-1.97	ZAL	103.78	ZAP	41.98	ETS	1.43	ZAE	154.47	ETE	9.91	ZAC	86.68	ETC	13.62	CLP	-41.94

PLANETOCENTRIC CONIC

C3	9.532	VHL	3.087	DLA	-16.79	RAL	143.99	RAD	6567.3	VEL	11.442	PTH	1.98	VHP	3.855	DPA	1.50	RAP	179.91	ECC	1.1569

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 2 43	1501.43	1.72	359.99	354.85	118.27	6 27 45	901.4	5.49	353.33
90.00	13 29 3	5247.67	26.72	236.62	359.02	80.25	14 56 30	4647.7	25.10	228.32
100.00	7 14 31	1269.78	.77	342.43	354.32	119.88	7 35 41	669.8	4.74	335.89
100.00	14 59 56	4954.56	27.79	214.83	358.80	78.52	16 22 31	4354.6	25.93	206.52
110.00	8 1 41	1122.02	-1.65	329.71	352.81	124.15	8 20 23	522.0	2.84	323.50
110.00	16 29 16	4675.08	30.56	192.82	358.02	73.89	17 47 11	4075.1	28.05	184.53

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.4109	TRA	-.3076	TC3	1.2912	BAU	.1649	SGT	1254.0	SGR	268.9	SG3	734.1	ST	783.6	SR	256.8	SS	1590.2
RDE	-.1380	RRA	-.0337	RC3	.0804	FAU	.12537	RRT	-.3462	RRF	.3791	RTF	-.8728	CRT	-.9527	CRS	-.9954	CST	.9749
FDE	-2.5703	FRA	.0489	FC	-11.3863	BSP	4067	SGB	1282.5	R23	-.0685	R13	.8739	LSA	1784.0	MSA	160.3	SSA	13.6
BDE	.4334	BRA	.3094	BC3	1.2937	FSP	-2243	SG1	1257.6	SG2	251.6	THA	175.58	EL1	821.2	EL2	74.5	ALF	162.51

LAUNCH DATE JUN 10 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 12 1967

HELIOCENTRIC CONIC DISTANCE 333.654

RL	151.88	LAL	-.00	LOL	258.45	VL	26.828	GAL	-1.19	AZL	93.21	HCA	146.02	SMA	129.11	ECC	.17752	INC	3.2106	VI	29.334
RP	108.16	LAP	-1.79	LOP	44.52	VP	37.763	GAP	-4.19	AZP	87.34	TAL	185.51	TAP	331.53	RCA	106.19	APO	152.03	V2	35.036
RC	71.485	GL	-29.42	GP	-2.26	ZAL	104.34	ZAP	46.24	ETS	1.47	ZAE	156.85	ETE	9.43	ZAC	87.77	ETC	13.64	CLP	-46.20

PLANETOCENTRIC CONIC

C3	9.351	VHL	3.058	DLA	-16.72	RAL	143.37	RAD	6567.3	VEL	11.434	PTH	1.98	VHP	3.643	DPA	1.66	RAP	178.83	ECC	1.1539

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 59 30	1500.46	1.75	359.93	353.99	118.27	6 24 31	900.5	5.52	353.28
90.00	13 27 17	5241.14	26.64	236.15	358.09	80.03	14 54 38	4641.1	24.99	227.87
100.00	7 11 22	1268.60	.81	342.36	353.46	119.88	7 32 30	668.6	4.78	335.82
100.00	14 58 6	4948.23	27.70	214.38	357.86	78.30	16 20 35	4348.2	25.81	206.09
110.00	7 58 39	1120.45	-1.59	329.62	351.96	124.15	8 17 20	520.4	2.90	323.42
110.00	16 27 18	4669.15	30.45	192.40	357.08	73.66	17 45 7	4069.2	27.91	184.13

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.3706	TRA	-.2950	TC3	1.1584	BAU	.1449	SGT	1147.7	SGR	259.4	SG3	818.8	ST	716.0	SR	251.4	SS	1671.9
RDE	-.1338	RRA	-.0311	RC3	.0432	FAU	.13868	RRT	-.4040	RRF	.4568	RTF	-.8505	CRT	-.9496	CRS	-.9962	CST	.9703
FDE	-2.8323	FRA	.0021	FC	-12.8386	BSP	3674	SGB	1176.6	R23	-.1071	R13	.8527	LSA	1828.9	MSA	162.1	SSA	12.6
BDE	.3940	BRA	.2966	BC3	1.1592	FSP	-2513	SG1	1152.6	SG2	236.2	THA	174.55	EL1	755.2	EL2	74.7	ALF	161.37

LAUNCH DATE JUN 10 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 14 1967

HELIOCENTRIC CONIC DISTANCE 340.168

RL 151.88 LAL -.00 LOL 258.45 VL 26.859 GAL -1.22 AZL 93.19 HCA 149.23 SMA 129.32 ECC .17567 INC 3.1867 V1 29.334
RP 108.12 LAP -1.63 LOP 47.72 VP 37.798 GAP -3.67 AZP 87.26 TAL 185.74 TAP 334.97 RCA 106.61 APO 152.04 V2 35.049
RC 73.590 GL -29.50 GP -2.61 ZAL 104.78 ZAP 50.80 ETS 1.51 ZAE 159.59 ETE 8.86 ZAC 89.16 ETC 13.66 CLP -50.75

PLANETOCENTRIC CONIC

C3 9.187 VHL 3.031 DLA -16.62 RAL 142.89 RAD 6567.3 VEL 11.427 PTH 1.98 VHP 3.454 DPA 1.89 RAP 177.46 ECC 1.1512

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 56 42	1500.45	1.75	359.93	353.28	118.27	6 21 42	900.4	5.52	353.27
90.00	13 26 15	5234.27	26.56	235.67	357.32	79.80	14 53 30	4634.3	24.88	227.40
100.00	7 8 38	1268.34	.82	342.35	352.76	119.88	7 29 46	668.3	4.79	335.81
100.00	14 57 0	4941.61	27.61	213.91	357.09	78.07	16 19 22	4341.6	25.69	205.64
110.00	7 56 5	1119.68	-1.56	329.58	351.27	124.15	8 14 45	519.7	2.93	323.38
110.00	16 26 3	4663.03	30.33	191.96	356.30	73.43	17 43 46	4063.0	27.76	183.71

DIFFERENTIAL CORRECTIONS
TDE .3233 TRA -.2844 TC3 .9825 BAU .1207
RDE -.1309 RRA -.0288 RC3 -.0018 FAU .15282
FDE-3.1080 FRA -.0467 FC-14.4011 BSP 3228
BDE .3488 BRA .2858 BC3 .9825 FSP -2813

MID-COURSE EXECUTION ACCURACY
SGT 1021.3 SGR 253.8 SG3 909.2
RRT -.4626 RRF .5496 RTF -.8131
SGB 1052.3 R23 -.1742 R13 .8180
SG1 1028.3 SG2 223.5 THA 173.11

ORBIT DETERMINATION ACCURACY
ST 634.2 SR 248.0 SS 1754.9
CRT -.9432 CRS -.9970 CST .9628
LSA 1875.2 MSA 163.4 SSA 11.6
EL1 676.5 EL2 77.2 ALF 159.48

LAUNCH DATE JUN 10 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 16 1967

HELIOCENTRIC CONIC DISTANCE 346.663

RL 151.88 LAL -.00 LOL 258.45 VL 26.885 GAL -1.24 AZL 93.16 HCA 152.44 SMA 129.50 ECC .17413 INC 3.1577 V1 29.334
RP 108.08 LAP -1.46 LOP 50.93 VP 37.829 GAP -3.17 AZP 87.20 TAL 185.90 TAP 338.34 RCA 106.95 APO 152.05 V2 35.062
RC 75.721 GL -29.51 GP -3.04 ZAL 105.11 ZAP 55.65 ETS 1.55 ZAE 162.70 ETE 8.06 ZAC 90.84 ETC 13.68 CLP -55.59

PLANETOCENTRIC CONIC

C3 9.034 VHL 3.006 DLA -16.51 RAL 142.56 RAD 6567.3 VEL 11.420 PTH 1.98 VHP 3.288 DPA 2.17 RAP 175.80 ECC 1.1487

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 54 17	1501.45	1.72	359.99	352.74	118.27	6 19 18	901.5	5.49	353.33
90.00	13 26 3	5226.77	26.47	235.14	356.71	79.55	14 53 10	4626.8	24.76	226.89
100.00	7 6 19	1269.03	.79	342.38	352.22	119.88	7 27 28	669.0	4.76	335.85
100.00	14 56 42	4934.43	27.51	213.40	356.47	77.82	16 18 57	4334.4	25.55	205.14
110.00	7 53 58	1119.76	-1.57	329.59	350.75	124.15	8 12 37	519.8	2.92	323.38
110.00	16 25 33	4656.46	30.20	191.49	355.68	73.18	17 43 9	4056.5	27.60	183.27

DIFFERENTIAL CORRECTIONS
TDE .2655 TRA -.2788 TC3 .7455 BAU .0903
RDE -.1292 RRA -.0266 RC3 -.0557 FAU .16679
FDE-3.3740 FRA -.0809 FC-15.9829 BSP 2648
BDE .2953 BRA .2800 BC3 .7476 FSP -3107

MID-COURSE EXECUTION ACCURACY
SGT 874.2 SGR 254.2 SG3 999.0
RRT -.4969 RRF .6515 RTF -.7392
SGB 910.4 R23 -.2991 R13 .7511
SG1 883.8 SG2 218.2 THA 171.24

ORBIT DETERMINATION ACCURACY
ST 532.9 SR 246.9 SS 1829.0
CRT -.9278 CRS -.9976 CST .9475
LSA 1913.8 MSA 165.3 SSA 10.6
EL1 581.2 EL2 84.4 ALF 156.20

LAUNCH DATE JUN 10 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 18 1967

HELIOCENTRIC CONIC DISTANCE 353.137

RL 151.88 LAL -.00 LOL 258.45 VL 26.906 GAL -1.25 AZL 93.12 HCA 155.65 SMA 129.64 ECC .17287 INC 3.1218 V1 29.334
RP 108.04 LAP -1.29 LOP 54.14 VP 37.856 GAP -2.68 AZP 87.16 TAL 185.99 TAP 341.65 RCA 107.23 APO 152.05 V2 35.075
RC 77.474 GL -29.43 GP -3.56 ZAL 105.33 ZAP 60.77 ETS 1.58 ZAE 166.16 ETE 6.68 ZAC 92.81 ETC 13.68 CLP -60.71

PLANETOCENTRIC CONIC

C3 8.887 VHL 2.981 DLA -16.36 RAL 142.39 RAD 6567.3 VEL 11.414 PTH 1.98 VHP 3.147 DPA 2.45 RAP 173.85 ECC 1.1463

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 52 10	1503.80	1.65	.12	352.35	118.27	6 17 13	903.8	5.41	353.46
90.00	13 26 48	5218.10	26.36	234.53	356.24	79.26	14 53 46	4618.1	24.61	226.29
100.00	7 4 19	1270.99	.73	342.49	351.84	119.88	7 25 30	671.0	4.70	335.96
100.00	14 57 20	4926.15	27.39	212.81	356.01	77.53	16 19 26	4326.2	25.40	204.58
110.00	7 52 13	1120.93	-1.61	329.65	350.37	124.15	8 10 54	520.9	2.88	323.44
110.00	16 25 55	4648.98	30.06	190.96	355.20	72.89	17 43 24	4049.0	27.42	182.76

DIFFERENTIAL CORRECTIONS
TDE .2012 TRA -.2749 TC3 .4636 BAU .0570
RDE -.1298 RRA -.0245 RC3 -.1232 FAU .18112
FDE-3.6399 FRA -.1119 FC-17.6439 BSP 2025
BDE .2394 BRA .2759 BC3 .4797 FSP -3421

MID-COURSE EXECUTION ACCURACY
SGT 727.4 SGR 264.7 SG3 1091.7
RRT -.4661 RRF .7563 RTF -.5973
SGB 774.0 R23 -.5041 R13 .6280
SG1 738.9 SG2 230.5 THA 169.32

ORBIT DETERMINATION ACCURACY
ST 420.6 SR 249.9 SS 1904.1
CRT -.8948 CRS -.9981 CST .9156
LSA 1958.9 MSA 166.5 SSA 9.6
EL1 479.3 EL2 97.9 ALF 150.66

LAUNCH DATE JUN 10 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 20 1967

HELIOCENTRIC CONIC DISTANCE 359.590

RL 151.88 LAL -.00 LOL 258.45 VL 26.922 GAL -1.25 AZL 93.08 HCA 158.87 SMA 129.75 ECC .17186 INC 3.0756 V1 29.334
RP 108.00 LAP -1.11 LOP 57.35 VP 37.879 GAP -2.20 AZP 87.13 TAL 186.02 TAP 344.89 RCA 107.45 APO 152.05 V2 35.088
RC 80.046 GL -29.25 GP -4.24 ZAL 105.44 ZAP 66.13 ETS 1.59 ZAE 169.91 ETE 3.73 ZAC 95.05 ETC 13.65 CLP -66.07

PLANETOCENTRIC CONIC

C3 8.738 VHL 2.956 DLA -16.16 RAL 142.38 RAD 6567.3 VEL 11.407 PTH 1.97 VHP 3.031 DPA 2.69 RAP 171.62 ECC 1.1438

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 50 11	1508.09	1.51	.36	352.11	118.28	6 15 19	908.1	5.28	353.70
90.00	13 28 43	5207.36	26.22	233.77	355.92	78.91	14 55 30	4607.4	24.43	225.56
100.00	7 2 30	1274.74	.60	342.70	351.60	119.89	7 23 45	674.7	4.57	336.16
100.00	14 59 5	4915.95	27.24	212.09	355.68	77.18	16 21 1	4315.9	25.20	203.89
110.00	7 50 45	1123.61	-1.71	329.79	350.16	124.15	8 9 28	523.6	2.78	323.58
110.00	16 27 19	4639.84	29.87	190.31	354.87	72.55	17 44 39	4039.8	27.19	182.15

DIFFERENTIAL CORRECTIONS
TDE .1271 TRA -.2745 TC3 .1177 BAU .0278
RDE -.1327 RRA -.0223 RC3 -.2071 FAU .19385
FDE-3.8581 FRA -.1155 FC-19.2059 BSP 1351
BDE .1837 BRA .2754 BC3 .2382 FSP -3701

MID-COURSE EXECUTION ACCURACY
SGT 610.2 SGR 288.3 SG3 1174.9
RRT -.2670 RRF .8478 RTF -.3016
SGB 674.9 R23 -.7729 R13 .3570
SG1 616.3 SG2 275.1 THA 171.01

ORBIT DETERMINATION ACCURACY
ST 297.1 SR 257.5 SS 1960.6
CRT -.7985 CRS -.9986 CST .8231
LSA 1992.6 MSA 167.9 SSA 8.5
EL1 373.3 EL2 123.4 ALF 140.10

LAUNCH DATE JUN 10 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 22 1967

HELIOCENTRIC CONIC DISTANCE 366.024

```
RL  151.88 LAL   -.00 LOL 258.45 VL  26.934 GAL  -1.23 AZL  93.01 HCA 162.09 SMA 129.84 ECC .17110 INC 3.0138 V1  29.334
RP  107.96 LAP   -.93 LOP  60.56 VP  37.899 GAP  -1.74 AZP  87.13 TAL 185.98 TAP 348.06 RCA 107.62 APO 152.05 V2  35.101
RC  82.236 GL  -28.91 GP   -5.12 ZAL 105.45 ZAP  71.69 ETS   1.55 ZAE 173.84 ETE 355.27 ZAC  97.52 ETC  13.56 CLP -71.62
```

PLANETOCENTRIC CONIC

```
C3   8.579 VHL  2.929 DLA -15.86 RAL 142.55 RAD 6567.3 VEL 11.400 PTH   1.97 VHP  2.942 DPA   2.79 RAP 169.13 ECC 1.1412
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 48 2	1515.56	1.27	.77	352.02	118.29	6 13 18	915.6	5.04	354.12
90.00	13 32 14	5192.92	26.03	232.76	355.73	78.43	14 58 47	4592.9	24.17	224.58
100.00	7 0 36	1281.44	.37	343.06	351.52	119.89	7 21 57	681.4	4.35	336.53
100.00	15 2 22	4902.27	27.03	211.13	355.49	76.72	16 24 4	4302.3	24.93	202.96
110.00	7 49 20	1128.76	-1.91	330.06	350.09	124.14	8 8 9	528.8	2.58	323.85
110.00	16 30 7	4627.71	29.62	189.46	354.67	72.10	17 47 15	4027.7	26.89	181.34

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE  .0469 TRA -.2758 TC3 -.2832 BAU  .0486   SGT  592.0 SGR  331.3 SG3 1247.3   ST   191.7 SR   272.3 SS  2002.1
RDE -.1390 RRA -.0195 RC3 -.3158 FAU .20474   RRT  .1430 RRF  .9169 RTF  .1625   CRT -.4387 CRS -.9990 CST  .4704
FDE-4.0217 FRA -.0892 FC-20.6606 BSP    979   SGB  678.4 R23  .8910 R13  .2190   LSA 2022.5 MSA  169.3 SSA    7.5
BDE  .1467 BRA  .2765 BC3  .4241 FSP  -3933   SG1  594.7 SG2  326.4 THA   6.56   EL1  291.5 EL2  160.9 ALF 115.38
```

LAUNCH DATE JUN 10 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 24 1967

HELIOCENTRIC CONIC DISTANCE 372.437

```
RL  151.88 LAL   -.00 LOL 258.45 VL  26.942 GAL  -1.20 AZL  92.93 HCA 165.31 SMA 129.89 ECC .17055 INC 2.9255 V1  29.334
RP  107.92 LAP   -.74 LOP  63.78 VP  37.917 GAP  -1.28 AZP  87.17 TAL 185.87 TAP 351.17 RCA 107.74 APO 152.04 V2  35.113
RC  84.440 GL  -28.33 GP   -6.35 ZAL 105.36 ZAP  77.38 ETS   1.42 ZAE 177.15 ETE 315.22 ZAC 100.19 ETC  13.36 CLP -77.30
```

PLANETOCENTRIC CONIC

```
C3   8.395 VHL  2.897 DLA -15.38 RAL 142.94 RAD 6567.3 VEL 11.392 PTH   1.97 VHP  2.881 DPA   2.62 RAP 166.39 ECC 1.1382
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 45 8	1528.66	.84	1.50	352.08	118.31	6 10 37	928.7	4.62	354.86
90.00	13 38 12	5171.62	25.73	231.27	355.65	77.75	15 4 24	4571.6	23.78	223.14
100.00	6 58 4	1293.35	-.03	343.72	351.59	119.89	7 19 37	693.4	3.95	337.19
100.00	15 7 58	4882.16	26.70	209.72	355.40	76.04	16 29 20	4282.2	24.52	201.60
110.00	7 47 34	1138.28	-2.27	330.55	350.19	124.12	8 6 33	538.3	2.22	324.35
110.00	16 34 57	4610.00	29.24	188.22	354.56	71.45	17 51 47	4010.0	26.43	180.16

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE -.0360 TRA -.2754 TC3 -.7340 BAU  .0975   SGT  710.7 SGR  402.7 SG3 1305.5   ST   184.2 SR   297.9 SS  2021.7
RDE -.1505 RRA -.0163 RC3 -.4645 FAU .21330   RRT  .5402 RRF  .9613 RTF  .5637   CRT  .4189 CRS -.9993 CST -.3924
FDE-4.1026 FRA -.0463 FC-21.9973 BSP   1465   SGB  816.8 R23  .6789 R13  .6825   LSA 2044.8 MSA  169.5 SSA    6.4
BDE  .1548 BRA  .2759 BC3  .8687 FSP  -4131   SG1  751.3 SG2  320.5 THA  21.02   EL1  311.6 EL2  159.9 ALF  70.00
```

LAUNCH DATE JUN 10 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 26 1967

HELIOCENTRIC CONIC DISTANCE 378.830

```
RL  151.88 LAL   -.00 LOL 258.45 VL  26.947 GAL  -1.16 AZL  92.79 HCA 168.53 SMA 129.92 ECC .17021 INC 2.7897 V1  29.334
RP  107.89 LAP   -.55 LOP  67.00 VP  37.931 GAP   -.84 AZP  87.27 TAL 185.69 TAP 354.22 RCA 107.81 APO 152.03 V2  35.125
RC  86.655 GL  -27.33 GP   -8.21 ZAL 105.21 ZAP  83.10 ETS   1.14 ZAE 175.34 ETE 242.15 ZAC 103.03 ETC  12.94 CLP -83.03
```

PLANETOCENTRIC CONIC

```
C3   8.158 VHL  2.856 DLA -14.56 RAL 143.60 RAD 6567.3 VEL 11.382 PTH   1.97 VHP  2.850 DPA   1.86 RAP 163.38 ECC 1.1343
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 40 15	1552.76	.07	2.85	352.30	118.32	6 6 7	952.8	3.85	356.21
90.00	13 48 24	5136.80	25.20	228.85	355.65	76.64	15 14 1	4536.8	23.12	220.80
100.00	6 53 47	1315.50	-.78	344.93	351.82	119.88	7 15 42	715.5	3.20	338.41
100.00	15 17 33	4849.30	26.14	207.44	355.39	74.97	16 38 23	4249.3	23.82	199.41
110.00	7 44 34	1156.41	-2.97	331.50	350.46	124.07	8 3 51	556.4	1.53	325.30
110.00	16 43 15	4581.15	28.60	186.22	354.52	70.43	17 59 36	3981.1	25.67	178.27

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE -.1187 TRA -.2735 TC3-1.2504 BAU  .1554   SGT  942.5 SGR  517.7 SG3 1338.7   ST   293.4 SR   339.7 SS  1996.2
RDE -.1692 RRA -.0111 RC3 -.6832 FAU .21791   RRT  .7637 RRF  .9850 RTF  .7746   CRT  .8253 CRS -.9996 CST -.8123
FDE-4.0363 FRA  .0448 FC-23.1252 BSP   2484   SGB 1075.3 R23  .4971 R13  .8511   LSA 2038.9 MSA  170.0 SSA    5.3
BDE  .2067 BRA  .2737 BC3 1.4249 FSP  -4251   SG1 1031.0 SG2  305.5 THA  25.12   EL1  429.3 EL2  131.1 ALF  50.05
```

LAUNCH DATE JUN 10 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 28 1967

HELIOCENTRIC CONIC DISTANCE 385.203

```
RL  151.88 LAL   -.00 LOL 258.45 VL  26.947 GAL  -1.11 AZL  92.55 HCA 171.75 SMA 129.93 ECC .17005 INC 2.5485 V1  29.334
RP  107.85 LAP   -.37 LOP  70.21 VP  37.942 GAP   -.41 AZP  87.48 TAL 185.44 TAP 357.20 RCA 107.83 APO 152.02 V2  35.137
RC  88.880 GL  -25.39 GP  -11.39 ZAL 105.05 ZAP  88.76 ETS    .54 ZAE 170.12 ETE 229.63 ZAC 106.09 ETC  11.99 CLP -88.73
```

PLANETOCENTRIC CONIC

```
C3   7.807 VHL  2.794 DLA -12.90 RAL 144.73 RAD 6567.3 VEL 11.367 PTH   1.96 VHP  2.858 DPA   -.17 RAP 159.92 ECC 1.1285
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 30 10	1602.12	-1.53	5.60	352.73	118.28	5 56 52	1002.1	2.26	358.97
90.00	14 7 28	5071.19	24.10	224.37	355.67	74.66	15 31 59	4471.2	21.76	216.48
100.00	6 44 50	1361.24	-2.33	347.44	352.28	119.81	7 7 31	761.2	1.65	340.92
100.00	15 35 29	4787.31	24.98	203.20	355.38	73.03	16 55 16	4187.3	22.42	195.34
110.00	7 38 1	1194.64	-4.42	333.50	350.98	123.93	7 57 56	594.6	.06	327.29
110.00	16 58 47	4526.67	27.30	182.51	354.48	68.58	18 14 13	3926.7	24.15	174.77

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE -.1874 TRA -.2625 TC3-1.8392 BAU  .2214   SGT 1228.4 SGR  719.0 SG3 1340.1   ST   419.6 SR   410.2 SS  1896.9
RDE -.1999 RRA -.0010 RC3-1.0573 FAU .21744   RRT  .8671 RRF  .9956 RTF  .8699   CRT  .9188 CRS -.9998 CST -.9121
FDE-3.7409 FRA  .1914 FC-24.1134 BSP   3757   SGB 1423.4 R23  .3736 R13  .9230   LSA 1978.4 MSA  168.6 SSA    4.2
BDE  .2740 BRA  .2625 BC3 2.1214 FSP  -4270   SG1 1387.6 SG2  317.1 THA  28.54   EL1  574.8 EL2  118.2 ALF  44.29
```

LAUNCH DATE JUN 10 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 30 1967

DISTANCE 391.555

HELIOCENTRIC CONIC
RL 151.88 LAL -.00 LOL 258.45 VL 26.945 GAL -1.05 AZL 92.00 HCA 174.98 SMA 129.91 ECC .17008 INC 2.0013 V1 29.334
RP 107.82 LAP -.17 LOP 73.43 VP 37.951 GAP .02 AZP 88.01 TAL 185.14 TAP .11 RCA 107.82 APO 152.01 V2 35.149
RC 91.113 GL -20.56 GP -18.28 ZAL 105.06 ZAP 94.12 ETS 359.08 ZAE 162.00 ETE 233.89 ZAC 109.60 ETC 9.48 CLP -94.34

PLANETOCENTRIC CONIC
C3 7.173 VHL 2.678 DLA -8.59 RAL 147.01 RAD 6567.2 VEL 11.339 PTH 1.95 VHP 2.949 DPA -5.73 RAP 155.23 ECC 1.1181

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 3 48	1729.89	-5.62	12.76	353.81	117.80	5 32 38	1129.9	-1.86	6.10
90.00	14 52 0	4912.88	20.85	213.90	355.70	70.39	16 13 53	4312.9	17.99	206.40
100.00	6 20 58	1480.93	-6.36	354.05	353.41	119.27	6 45 39	880.9	-2.41	347.49
100.00	16 17 31	4637.08	21.63	193.31	355.39	68.85	17 34 48	4037.1	18.56	185.85
110.00	7 19 43	1297.00	-8.28	338.92	352.23	123.28	7 41 20	697.0	-3.85	332.64
110.00	17 35 16	4393.76	23.70	173.87	354.43	64.61	18 48 30	3793.8	20.08	166.59

DIFFERENTIAL CORRECTIONS
TDE -.2083 TRA -.2291 TC3-2.5996 BAU .3083
RDE -.2405 RRA .0299 RC3-1.8923 FAU .20505
FDE-2.8647 FRA .4715 FC-24.7476 BSP 5487
BDE -.3182 BRA .2310 BC3 3.2154 FSP -4022

MID-COURSE EXECUTION ACCURACY
SGT 1543.8 SGR 1138.6 SG3 1264.9
RRT .9152 RRF .9992 RTF .9152
SGB 1918.2 R23 .2669 R13 .9630
SG1 1880.9 SG2 376.5 THA 35.67

ORBIT DETERMINATION ACCURACY
ST 471.6 SR 515.7 SS 1566.6
CRT .9359 CRS -.9999 CST -.9317
LSA 1707.5 MSA 165.0 SSA 3.3
EL1 687.7 EL2 124.6 ALF 47.73

LAUNCH DATE JUN 10 1967 FLIGHT TIME 144.00 ARRIVAL DATE NOV 1 1967

DISTANCE 397.887

HELIOCENTRIC CONIC
RL 151.88 LAL -.00 LOL 258.45 VL 26.940 GAL -.98 AZL 89.49 HCA 178.20 SMA 129.87 ECC .17027 INC .4844 V1 29.334
RP 107.78 LAP .02 LOP 76.66 VP 37.958 GAP .43 AZP 90.51 TAL 184.76 TAP 2.97 RCA 107.76 APO 151.99 V2 35.160
RC 93.352 GL 5.51 GP -43.21 ZAL 105.33 ZAP 97.29 ETS 353.84 ZAE 138.00 ETE 248.13 ZAC 113.30 ETC 358.60 CLP-100.03

PLANETOCENTRIC CONIC
C3 6.246 VHL 2.499 DLA 15.52 RAL 157.06 RAD 6567.2 VEL 11.298 PTH 1.94 VHP 3.775 DPA -27.99 RAP 143.22 ECC 1.1028

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 35 14	2479.80	-25.00	59.01	5.95	103.76	3 16 33	1879.8	-22.86	50.99
90.00	18 40 45	4115.04	-2.70	167.24	3.06	61.80	19 49 20	3515.0	-6.45	160.57
100.00	4 5 5	2190.00	-25.87	37.44	5.69	105.52	4 41 35	1590.0	-23.49	29.45
100.00	19 53 35	3880.08	-1.91	149.53	2.62	60.16	20 58 15	3280.1	-5.87	142.97
110.00	5 32 17	1917.16	-28.14	15.89	4.87	110.26	6 4 15	1317.2	-25.12	8.02
110.00	20 42 52	3725.68	.11	136.55	1.35	55.82	21 44 58	3125.7	-4.38	130.34

DIFFERENTIAL CORRECTIONS
TDE .1276 TRA -.0423 TC3-3.6111 BAU .4972
RDE .0171 RRA .2630 RC3-4.7338 FAU .12784
FDE .0891 FRA .9907 FC-17.7189 BSP 9157
BDE .1288 BRA .2664 BC3 5.9539 FSP -2483

MID-COURSE EXECUTION ACCURACY
SGT 1831.3 SGR 2447.9 SG3 792.1
RRT .9413 RRF 1.0000 RTF .9417
SGB 3057.1 R23 .1202 R13 .9927
SG1 3015.6 SG2 501.9 THA 53.68

ORBIT DETERMINATION ACCURACY
ST 299.1 SR 204.5 SS 255.3
CRT .1583 CRS -.9975 CST -.2256
LSA 345.7 MSA 277.3 SSA 2.7
EL1 302.2 EL2 199.8 ALF 11.07

LAUNCH DATE JUN 10 1967 FLIGHT TIME 146.00 ARRIVAL DATE NOV 3 1967

DISTANCE 404.210

HELIOCENTRIC CONIC
RL 151.88 LAL -.00 LOL 258.45 VL 26.932 GAL -.89 AZL 98.24 HCA 181.44 SMA 129.82 ECC .17063 INC 8.2449 V1 29.334
RP 107.75 LAP .21 LOP 79.88 VP 37.962 GAP .84 AZP 81.76 TAL 184.34 TAP 5.79 RCA 107.67 APO 151.97 V2 35.170
RC 95.596 GL -54.50 GP 49.37 ZAL 97.53 ZAP 100.12 ETS 13.19 ZAE 124.92 ETE 114.82 ZAC 92.37 ETC 26.39 CLP-105.66

PLANETOCENTRIC CONIC
C3 22.488 VHL 4.742 DLA -40.60 RAL 134.07 RAD 6567.9 VEL 11.994 PTH 2.14 VHP 4.230 DPA 56.93 RAP 187.02 ECC 1.3701

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.60	5 42 37	1555.37	26.44	18.55	8.60	122.01	6 8 32	955.4	30.46	11.10
120.40	12 30 0	5573.82	26.45	259.65	8.61	122.00	14 2 54	4973.8	30.47	252.19
59.60	5 42 37	1555.37	26.44	18.55	8.60	122.01	6 8 32	955.4	30.46	11.10
120.40	12 30 0	5573.82	26.45	259.65	8.61	122.00	14 2 54	4973.8	30.47	252.19
59.60	5 42 37	1555.37	26.44	18.55	8.60	122.01	6 8 32	955.4	30.46	11.10
120.40	12 30 0	5573.82	26.45	259.65	8.61	122.00	14 2 54	4973.8	30.47	252.19

DIFFERENTIAL CORRECTIONS
TDE-1.3611 TRA -.6709 TC3-1.1515 BAU .5219
RDE 1.9836 RRA .2939 RC3 1.2990 FAU .09749
FDE-5.6391 FRA -.9013 FC3-3.7531 BSP 11658
BDE 2.4057 BRA .7324 BC3 1.7359 FSP -2270

MID-COURSE EXECUTION ACCURACY
SGT 2244.2 SGR 2735.1 SG3 675.6
RRT -.9426 RRF -.9999 RTF .9472
SGB 3538.0 R23 .1214 R13 -.9926
SG1 3488.9 SG2 587.3 THA 129.04

ORBIT DETERMINATION ACCURACY
ST 1675.7 SR 2401.1 SS 2495.1
CRT -.9910 CRS 1.0000 CST -.9917
LSA 3841.8 MSA 198.2 SSA .4
EL1 2922.2 EL2 183.8 ALF 124.83

LAUNCH DATE JUN 10 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 5 1967

DISTANCE 410.509

HELIOCENTRIC CONIC
RL 151.88 LAL -.00 LOL 258.45 VL 26.921 GAL -.79 AZL 94.89 HCA 184.67 SMA 129.75 ECC .17113 INC 4.8852 V1 29.334
RP 107.72 LAP .40 LOP 83.11 VP 37.964 GAP 1.24 AZP 85.13 TAL 183.84 TAP 8.51 RCA 107.54 APO 151.95 V2 35.180
RC 97.843 GL -41.66 GP 18.68 ZAL 99.57 ZAP 108.79 ETS 7.44 ZAE 149.32 ETE 138.35 ZAC 105.52 ETC 22.12 CLP-109.88

PLANETOCENTRIC CONIC
C3 11.900 VHL 3.450 DLA -29.15 RAL 141.16 RAD 6567.5 VEL 11.545 PTH 2.02 VHP 3.100 DPA 30.75 RAP 163.93 ECC 1.1958

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.79	8 34 55	968.53	22.90	331.11	1.90	108.54	8 51 4	368.5	25.22	323.14
97.21	10 34 15	5870.76	22.91	280.72	1.91	108.53	12 12 5	5270.8	25.23	272.75
100.00	9 59 54	692.96	19.01	309.35	.30	113.51	10 11 27	93.0	22.03	301.86
100.00	11 51 57	5621.56	26.92	263.55	3.17	103.52	13 25 38	5021.6	28.51	255.11
110.00	9 45 20	738.84	12.76	309.40	356.88	121.99	9 57 39	138.8	16.89	302.73
110.00	14 23 0	5148.45	33.89	228.96	4.47	94.77	15 48 49	4548.5	34.18	219.72

DIFFERENTIAL CORRECTIONS
TDE -.9539 TRA -.3820 TC3-2.4340 BAU .4148
RDE .4722 RRA -.0031 RC3 .9350 FAU .16729
FDE-5.8132 FRA -.0113 FC-12.1706 BSP 7367
BDE 1.0644 BRA .3820 BC3 2.6074 FSP -3172

MID-COURSE EXECUTION ACCURACY
SGT 2420.3 SGR 1015.5 SG3 1105.6
RRT -.9446 RRF -.9996 RTF .9498
SGB 2624.7 R23 .2664 R13 -.9636
SG1 2606.4 SG2 309.6 THA 158.05

ORBIT DETERMINATION ACCURACY
ST 1600.0 SR 784.5 SS 2587.3
CRT -.9903 CRS 1.0000 CST -.9908
LSA 3136.0 MSA 187.5 SSA 1.0
EL1 1779.3 EL2 97.8 ALF 154.01

LAUNCH DATE JUN 10 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 7 1967

HELIOCENTRIC CONIC DISTANCE 416.780

RL 151.88 LAL -.00 LOL 258.45 VL 26.908 GAL -.68 AZL 94.27 HCA 187.91 SMA 129.66 ECC .17178 INC 4.2710 V1 29.334
RP 107.69 LAP .59 LOP 86.34 VP 37.964 GAP 1.64 AZP 85.77 TAL 183.29 TAP 11.20 RCA 107.39 APO 151.93 V2 35.190
RC 100.092 GL -38.11 GP 11.00 ZAL 99.26 ZAP 113.95 ETS 5.83 ZAE 151.25 ETE 153.87 ZAC 109.40 ETC 20.38 CLP-114.43

PLANETOCENTRIC CONIC

C3 10.548 VHL 3.248 DLA -26.24 RAL 143.65 RAD 6567.4 VEL 11.486 PTH 2.00 VHP 3.081 DPA 24.14 RAP 159.28 ECC 1.1736

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 9 28	1062.80	15.17	334.79	359.60	114.20	8 27 11	462.8	18.32	327.53
90.00	11 19 34	5726.69	27.40	271.36	3.31	97.43	12 55 1	5126.7	28.15	262.77
100.00	9 2 19	892.11	13.19	321.28	358.62	117.07	9 17 11	292.1	16.72	314.26
100.00	13 9 24	5372.61	29.59	245.57	3.57	94.45	14 38 57	4772.6	29.89	236.77
110.00	9 20 42	834.42	9.26	314.59	356.30	123.05	9 34 37	234.4	13.54	308.11
110.00	15 7 31	5003.06	34.14	217.62	3.69	88.07	16 30 54	4403.1	33.49	208.44

DIFFERENTIAL CORRECTIONS
TDE -.9812 TRA -.3465 TC3-3.1757 BAU .4557
RDE .2576 RRA -.0039 RC3 .5973 FAU .18045
FDE-5.4271 FRA .0988 FC-14.8105 BSP 8425
BDE 1.0145 BRA .3465 BC3 3.2314 FSP -3665

MID-COURSE EXECUTION ACCURACY
SGT 2777.8 SGR 597.6 SG3 1172.8
RRT -.9529 RRF -.9967 RTF .9623
SGB 2841.4 R23 .2504 R13 -.9656
SG1 2835.8 SG2 177.6 THA 168.37

ORBIT DETERMINATION ACCURACY
ST 1744.2 SR 454.7 SS 2550.3
CRT -.9925 CRS 1.0000 CST -.9924
LSA 3117.9 MSA 178.8 SSA 2.1
EL1 1801.7 EL2 54.0 ALF 165.48

LAUNCH DATE JUN 10 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 9 1967

HELIOCENTRIC CONIC DISTANCE 423.036

RL 151.88 LAL -.00 LOL 258.45 VL 26.893 GAL -.56 AZL 94.01 HCA 191.14 SMA 129.56 ECC .17257 INC 4.0122 V1 29.334
RP 107.66 LAP .78 LOP 89.57 VP 37.962 GAP 2.02 AZP 86.06 TAL 182.69 TAP 13.84 RCA 107.20 APO 151.92 V2 35.199
RC 102.344 GL -36.42 GP 7.64 ZAL 98.45 ZAP 118.43 ETS 5.09 ZAE 149.88 ETE 162.34 ZAC 111.46 ETC 19.53 CLP-118.70

PLANETOCENTRIC CONIC

C3 10.043 VHL 3.169 DLA -25.12 RAL 145.45 RAD 6567.4 VEL 11.464 PTH 1.99 VHP 3.148 DPA 21.38 RAP 156.92 ECC 1.1653

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 53 52	1130.20	13.25	338.81	359.99	115.25	8 12 42	530.2	16.55	331.68
90.00	11 49 28	5639.57	28.01	265.06	4.14	94.33	13 23 28	5039.6	28.32	256.41
100.00	8 51 58	942.61	11.61	324.19	359.15	117.74	9 7 41	342.6	15.23	317.27
100.00	13 34 3	5302.39	29.85	240.36	4.25	91.72	15 2 26	4702.4	29.77	231.56
110.00	9 16 23	866.05	8.08	316.28	357.04	123.33	9 30 49	266.0	12.41	309.86
110.00	15 26 8	4951.72	33.95	213.62	4.14	85.71	16 48 40	4351.7	32.98	204.52

DIFFERENTIAL CORRECTIONS
TDE-1.0445 TRA -.3124 TC3-3.6983 BAU .4990
RDE .1750 RRA -.0040 RC3 .3659 FAU .17505
FDE-5.0112 FRA .2731 FC-15.0894 BSP 9320
BDE 1.0590 BRA .3124 BC3 3.7164 FSP -3598

MID-COURSE EXECUTION ACCURACY
SGT 3074.0 SGR 392.4 SG3 1139.2
RRT -.9419 RRF -.9836 RTF .9668
SGB 3099.0 R23 .2124 R13 -.9679
SG1 3096.2 SG2 130.9 THA 173.13

ORBIT DETERMINATION ACCURACY
ST 1898.9 SR 316.5 SS 2465.9
CRT -.9942 CRS .9999 CST -.9932
LSA 3123.4 MSA 176.0 SSA 3.2
EL1 1924.8 EL2 33.5 ALF 170.59

LAUNCH DATE JUN 10 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 11 1967

HELIOCENTRIC CONIC DISTANCE 429.274

RL 151.88 LAL -.00 LOL 258.45 VL 26.876 GAL -.43 AZL 93.87 HCA 194.38 SMA 129.44 ECC .17350 INC 3.8686 V1 29.334
RP 107.63 LAP .96 LOP 92.80 VP 37.958 GAP 2.41 AZP 86.25 TAL 182.04 TAP 16.42 RCA 106.98 APO 151.90 V2 35.208
RC 104.596 GL -35.41 GP 5.76 ZAL 97.40 ZAP 122.50 ETS 4.64 ZAE 147.83 ETE 167.32 ZAC 112.75 ETC 19.03 CLP-122.68

PLANETOCENTRIC CONIC

C3 9.795 VHL 3.130 DLA -24.66 RAL 147.07 RAD 6567.4 VEL 11.454 PTH 1.99 VHP 3.242 DPA 19.88 RAP 155.47 ECC 1.1612

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 52 17	1153.01	12.59	340.16	1.03	115.58	8 11 30	553.0	15.93	333.07
90.00	12 4 2	5606.81	28.16	262.67	5.27	93.15	13 37 28	5006.8	28.30	254.01
100.00	8 51 56	960.40	11.04	325.21	.23	117.95	9 7 57	360.4	14.70	318.32
100.00	13 47 3	5274.65	29.89	238.30	5.33	90.63	15 14 58	4674.6	29.65	229.50
110.00	9 18 24	877.40	7.65	316.88	358.20	123.42	9 33 2	277.4	12.00	310.48
110.00	15 37 5	4930.42	33.82	211.97	5.15	84.74	16 59 15	4330.4	32.73	202.91

DIFFERENTIAL CORRECTIONS
TDE-1.1180 TRA -.2777 TC3-4.1280 BAU .5413
RDE .1348 RRA -.0013 RC3 .2093 FAU .16593
FDE-4.6482 FRA .4144 FC-14.6655 BSP 10179
BDE 1.1261 BRA .2777 BC3 4.1333 FSP -3439

MID-COURSE EXECUTION ACCURACY
SGT 3343.4 SGR 279.5 SG3 1083.9
RRT -.9014 RRF -.9428 RTF .9696
SGB 3355.1 R23 .1562 R13 -.9700
SG1 3352.9 SG2 120.6 THA 175.69

ORBIT DETERMINATION ACCURACY
ST 2055.0 SR 246.9 SS 2386.0
CRT -.9962 CRS .9995 CST -.9938
LSA 3153.9 MSA 173.3 SSA 4.4
EL1 2069.7 EL2 21.5 ALF 173.18

LAUNCH DATE JUN 10 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 13 1967

HELIOCENTRIC CONIC DISTANCE 435.493

RL 151.88 LAL -.00 LOL 258.45 VL 26.858 GAL -.28 AZL 93.78 HCA 197.62 SMA 129.32 ECC .17457 INC 3.7765 V1 29.334
RP 107.61 LAP 1.14 LOP 96.04 VP 37.952 GAP 2.79 AZP 86.40 TAL 181.34 TAP 18.96 RCA 106.74 APO 151.89 V2 35.216
RC 106.849 GL -34.68 GP 4.56 ZAL 96.18 ZAP 126.24 ETS 4.34 ZAE 145.69 ETE 170.49 ZAC 113.55 ETC 18.66 CLP-126.38

PLANETOCENTRIC CONIC

C3 9.664 VHL 3.109 DLA -24.53 RAL 148.68 RAD 6567.3 VEL 11.448 PTH 1.99 VHP 3.352 DPA 18.92 RAP 154.58 ECC 1.1591

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 56 28	1158.08	12.44	340.45	2.40	115.64	8 15 46	558.1	15.79	333.38
90.00	12 12 41	5596.44	28.19	261.92	6.64	92.77	13 45 57	4996.4	28.28	253.25
100.00	8 56 32	964.16	10.92	325.42	1.62	118.00	9 12 36	364.2	14.58	318.55
100.00	13 55 18	5265.59	29.89	237.63	6.69	90.28	15 23 3	4665.6	29.61	228.83
110.00	9 23 33	879.40	7.58	316.99	359.60	123.43	9 38 13	279.4	11.92	310.59
110.00	15 44 46	4923.11	33.78	211.41	6.48	84.41	17 6 49	4323.1	32.64	202.36

DIFFERENTIAL CORRECTIONS
TDE-1.1950 TRA -.2359 TC3-4.4963 BAU .5811
RDE .1133 RRA .0024 RC3 .0959 FAU .15592
FDE-4.3351 FRA .5490 FC-13.9669 BSP 10998
BDE 1.2004 BRA .2359 BC3 4.4973 FSP -3270

MID-COURSE EXECUTION ACCURACY
SGT 3590.9 SGR 217.2 SG3 1024.1
RRT -.8063 RRF -.8470 RTF .9714
SGB 3597.4 R23 .1062 R13 -.9715
SG1 3595.1 SG2 128.3 THA 177.20

ORBIT DETERMINATION ACCURACY
ST 2208.7 SR 208.8 SS 2317.2
CRT -.9979 CRS .9985 CST -.9943
LSA 3203.5 MSA 170.7 SSA 5.5
EL1 2218.5 EL2 13.5 ALF 174.61

LAUNCH DATE JUN 10 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 15 1967

DISTANCE 441.693

HELIOCENTRIC CONIC
RL 151.88 LAL -.00 LOL 258.45 VL 26.837 GAL -.13 AZL 93.71 HCA 200.86 SMA 129.18 ECC .17577 INC 3.7126 V1 29.334
RP 107.59 LAP 1.32 LOP 99.27 VP 37.944 GAP 3.16 AZP 86.53 TAL 180.59 TAP 21.45 RCA 106.47 APO 151.88 V2 35.223
RC 109.101 GL -34.11 GP 3.74 ZAL 94.83 ZAP 129.70 ETS 4.10 ZAE 143.64 ETE 172.65 ZAC 113.97 ETC 18.36 CLP-129.80

PLANETOCENTRIC CONIC
C3 9.603 VHL 3.099 DLA -24.59 RAL 150.33 RAD 6567.3 VEL 11.445 PTH 1.99 VHP 3.473 DPA 18.21 RAP 154.10 ECC 1.1580

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 3 59	1153.65	12.57	340.19	4.00	115.58	8 23 12	553.7	15.91	333.11
90.00	12 18 21	5598.36	28.19	262.06	8.21	92.84	13 51 40	4998.4	28.28	253.39
100.00	9 3 53	960.27	11.05	325.20	3.22	117.95	9 19 53	360.3	14.70	318.32
100.00	14 1 8	5266.98	29.89	237.73	8.26	90.33	15 28 55	4667.0	29.62	228.94
110.00	9 30 41	876.23	7.70	316.82	1.21	123.41	9 45 17	276.2	12.04	310.42
110.00	15 50 50	4923.78	33.78	211.46	8.05	84.44	17 12 54	4323.8	32.64	202.41

DIFFERENTIAL CORRECTIONS
TDE-1.2792 TRA -.1902 TC3-4.8251 BAU .6195
RDE .1019 RRA .0069 RC3 .0093 FAU .14597
FDE-4.0841 FRA .6632 FC-13.1593 BSP 11837
BDE 1.2832 BRA .1903 BC3 4.8251 FSP -3113

MID-COURSE EXECUTION ACCURACY
SGT 3832.2 SGR 189.0 SG3 967.4
RRT -.6466 RRF -.6856 RTF .9725
SGB 3836.9 R23 .0732 R13 -.9726
SG1 3834.2 SG2 144.1 THA 178.17

ORBIT DETERMINATION ACCURACY
ST 2369.6 SR 188.4 SS 2270.2
CRT -.9990 CRS .9966 CST -.9947
LSA 3282.7 MSA 168.2 SSA 6.7
EL1 2377.0 EL2 8.5 ALF 175.46

LAUNCH DATE JUN 10 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 17 1967

DISTANCE 447.877

HELIOCENTRIC CONIC
RL 151.88 LAL -.00 LOL 258.45 VL 26.815 GAL .04 AZL 93.67 HCA 204.10 SMA 129.03 ECC .17710 INC 3.6651 V1 29.334
RP 107.57 LAP 1.50 LOP 102.51 VP 37.935 GAP 3.53 AZP 86.65 TAL 179.80 TAP 23.90 RCA 106.18 APO 151.88 V2 35.230
RC 111.351 GL -33.61 GP 3.14 ZAL 93.36 ZAP 132.88 ETS 3.91 ZAE 141.75 ETE 174.20 ZAC 114.07 ETC 18.09 CLP-132.96

PLANETOCENTRIC CONIC
C3 9.591 VHL 3.097 DLA -24.76 RAL 152.06 RAD 6567.3 VEL 11.445 PTH 1.99 VHP 3.603 DPA 17.62 RAP 153.96 ECC 1.1578

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 13 51	1143.11	12.88	339.57	5.82	115.44	8 32 54	543.1	16.20	332.47
90.00	12 22 16	5608.41	28.15	262.79	9.97	93.20	13 55 45	5008.4	28.30	254.13
100.00	9 13 12	951.50	11.33	324.70	5.02	117.85	9 29 4	351.5	14.96	317.80
100.00	14 5 36	5275.25	29.89	238.35	10.03	90.66	15 33 32	4675.2	29.66	229.55
110.00	9 39 15	869.81	7.94	316.48	2.99	123.36	9 53 45	269.8	12.27	310.06
110.00	15 56 3	4929.70	33.82	211.92	9.84	84.71	17 18 13	4329.7	32.72	202.85

DIFFERENTIAL CORRECTIONS
TDE-1.3189 TRA -.1153 TC3-4.9866 BAU .6395
RDE .0934 RRA .0109 RC3 -.0666 FAU .12956
FDE-3.6264 FRA .8632 FC-11.6945 BSP 12013
BDE 1.3222 BRA .1158 BC3 4.9870 FSP -2705

MID-COURSE EXECUTION ACCURACY
SGT 3943.2 SGR 179.0 SG3 866.5
RRT -.4240 RRF -.4573 RTF .9693
SGB 3947.2 R23 .0504 R13 -.9693
SG1 3943.9 SG2 162.0 THA 178.90

ORBIT DETERMINATION ACCURACY
ST 2442.8 SR 172.8 SS 2095.9
CRT -.9989 CRS .9924 CST -.9942
LSA 3218.8 MSA 171.0 SSA 7.9
EL1 2448.9 EL2 8.0 ALF 175.96

LAUNCH DATE JUN 10 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 19 1967

DISTANCE 454.037

HELIOCENTRIC CONIC
RL 151.88 LAL -.00 LOL 258.45 VL 26.792 GAL .23 AZL 93.63 HCA 207.35 SMA 128.87 ECC .17858 INC 3.6283 V1 29.334
RP 107.55 LAP 1.67 LOP 105.75 VP 37.924 GAP 3.90 AZP 86.78 TAL 178.96 TAP 26.31 RCA 105.86 APO 151.89 V2 35.236
RC 113.598 GL -33.14 GP 2.69 ZAL 91.79 ZAP 135.84 ETS 3.74 ZAE 140.02 ETE 175.35 ZAC 113.92 ETC 17.82 CLP-135.91

PLANETOCENTRIC CONIC
C3 9.620 VHL 3.102 DLA -25.01 RAL 153.87 RAD 6567.3 VEL 11.446 PTH 1.99 VHP 3.740 DPA 17.09 RAP 154.09 ECC 1.1583

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 25 26	1128.62	13.30	338.72	7.80	115.23	8 44 14	528.6	16.59	331.59
90.00	12 25 5	5624.06	28.09	263.93	11.88	93.77	13 58 49	5024.1	28.31	255.27
100.00	9 23 56	939.73	11.70	324.02	6.99	117.70	9 39 36	339.7	15.32	317.10
100.00	14 9 16	5288.19	29.87	239.31	11.97	91.16	15 37 24	4688.2	29.71	230.51
110.00	9 48 52	861.53	8.25	316.04	4.92	123.29	10 3 13	261.5	12.57	309.61
110.00	16 0 50	4939.15	33.88	212.65	11.81	85.14	17 23 9	4339.2	32.83	203.57

DIFFERENTIAL CORRECTIONS
TDE-1.4269 TRA -.0810 TC3-5.3071 BAU .6827
RDE .0929 RRA .0175 RC3 -.1165 FAU .12419
FDE-3.5430 FRA .8424 FC-11.1763 BSP 13033
BDE 1.4299 BRA .0829 BC3 5.3084 FSP -2671

MID-COURSE EXECUTION ACCURACY
SGT 4220.5 SGR 189.5 SG3 837.0
RRT -.2752 RRF -.3052 RTF .9732
SGB 4224.8 R23 .0383 R13 -.9732
SG1 4220.9 SG2 182.2 THA 179.29

ORBIT DETERMINATION ACCURACY
ST 2638.2 SR 171.9 SS 2122.6
CRT -.9978 CRS .9891 CST -.9953
LSA 3386.6 MSA 161.7 SSA 9.0
EL1 2643.8 EL2 11.4 ALF 176.28

LAUNCH DATE JUN 10 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 21 1967

DISTANCE 460.181

HELIOCENTRIC CONIC
RL 151.88 LAL -.00 LOL 258.45 VL 26.767 GAL .42 AZL 93.60 HCA 210.59 SMA 128.71 ECC .18019 INC 3.5987 V1 29.334
RP 107.53 LAP 1.83 LOP 108.99 VP 37.912 GAP 4.27 AZP 86.90 TAL 178.09 TAP 28.68 RCA 105.52 APO 151.90 V2 35.241
RC 115.842 GL -32.67 GP 2.33 ZAL 90.11 ZAP 138.58 ETS 3.58 ZAE 138.45 ETE 176.24 ZAC 113.53 ETC 17.56 CLP-138.63

PLANETOCENTRIC CONIC
C3 9.685 VHL 3.112 DLA -25.31 RAL 155.76 RAD 6567.3 VEL 11.449 PTH 1.99 VHP 3.884 DPA 16.58 RAP 154.47 ECC 1.1594

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 38 35	1110.80	13.82	337.66	9.97	114.97	8 57 6	510.8	17.07	330.50
90.00	12 27 4	5644.54	27.98	265.42	13.95	94.51	14 1 9	5044.5	28.32	256.77
100.00	9 35 58	925.56	12.15	323.21	9.13	117.52	9 51 23	325.6	15.74	316.26
100.00	14 12 23	5305.01	29.84	240.56	14.07	91.82	15 40 48	4705.0	29.78	231.75
110.00	9 59 27	851.89	8.61	315.52	7.02	123.21	10 13 38	251.9	12.92	309.08
110.00	16 5 23	4951.45	33.94	213.60	13.96	85.70	17 27 55	4351.4	32.98	204.50

DIFFERENTIAL CORRECTIONS
TDE-1.5028 TRA -.0105 TC3-5.5009 BAU .7125
RDE .0933 RRA .0231 RC3 -.1606 FAU .11496
FDE-3.3263 FRA .9374 FC-10.2761 BSP 13623
BDE 1.5057 BRA .0253 BC3 5.5033 FSP -2497

MID-COURSE EXECUTION ACCURACY
SGT 4402.1 SGR 204.2 SG3 782.7
RRT -.1493 RRF -.1747 RTF .9731
SGB 4406.8 R23 .0295 R13 -.9731
SG1 4402.2 SG2 201.9 THA 179.60

ORBIT DETERMINATION ACCURACY
ST 2768.8 SR 172.4 SS 2065.0
CRT -.9954 CRS .9835 CST -.9954
LSA 3454.6 MSA 159.5 SSA 10.1
EL1 2774.1 EL2 16.6 ALF 176.45

LAUNCH DATE JUN 10 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 23 1967

HELIOCENTRIC CONIC DISTANCE 466.305

RL 151.88 LAL -.00 LOL 258.45 VL 26.742 GAL .63 AZL 93.57 HCA 213.84 SMA 128.54 ECC .18194 INC 3.5743 V1 29.334
RP 107.52 LAP 1.99 LOP 112.24 VP 37.898 GAP 4.64 AZP 87.03 TAL 177.18 TAP 31.02 RCA 105.15 APO 151.92 V2 35.246
RC 118.080 GL -32.20 GP 2.05 ZAL 88.34 ZAP 141.13 ETS 3.44 ZAE 137.04 ETE 176.93 ZAC 112.93 ETC 17.28 CLP-141.17

PLANETOCENTRIC CONIC

C3 9.786 VHL 3.128 DLA -25.65 RAL 157.75 RAD 6567.4 VEL 11.453 PTH 1.99 VHP 4.034 DPA 16.07 RAP 155.06 ECC 1.1610

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 53 7	1090.37	14.40	336.45	12.31	114.65	9 11 17	490.4	17.61	329.24
90.00	12 28 25	5669.07	27.84	267.20	16.17	95.39	14 2 54	5069.1	28.30	258.57
100.00	9 49 3	909.76	12.64	322.30	11.43	117.31	10 4 13	309.8	16.20	315.32
100.00	14 15 10	5324.91	29.79	242.03	16.32	92.60	15 43 55	4724.9	29.83	233.23
110.00	10 10 48	841.51	8.99	314.97	9.27	123.12	10 24 50	241.5	13.29	308.51
110.00	16 9 54	4965.92	34.01	214.73	16.28	86.36	17 32 40	4365.9	33.13	205.60

DIFFERENTIAL CORRECTIONS
TOE-1.5756 TRA .0651 TC3-5.6489 BAU .7395
ROE .0958 RRA .0289 RC3 -.1958 FAU .10609
FOE-3.1190 FRA 1.0101 FC3-9.3857 BSP 14186
BOE 1.5785 BRA .0712 BC3 5.6523 FSP -2341

MID-COURSE EXECUTION ACCURACY
SGT 4564.6 SGR 221.9 SG3 729.7
RRT -.0647 RRF -.0865 RTF .9730
SGB 4570.0 R23 .0235 R13 -.9730
SG1 4564.7 SG2 221.4 THA 179.82

ORBIT DETERMINATION ACCURACY
ST 2888.1 SR 176.4 SS 2003.3
CRT -.9919 CRS .9772 CST -.9956
LSA 3515.8 MSA 156.2 SSA 11.2
EL1 2893.4 EL2 22.4 ALF 176.53

LAUNCH DATE JUN 10 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 25 1967

HELIOCENTRIC CONIC DISTANCE 472.408

RL 151.88 LAL -.00 LOL 258.45 VL 26.715 GAL .85 AZL 93.55 HCA 217.08 SMA 128.36 ECC .18384 INC 3.5536 V1 29.334
RP 107.50 LAP 2.14 LOP 115.48 VP 37.883 GAP 5.00 AZP 87.16 TAL 176.23 TAP 33.32 RCA 104.76 APO 151.95 V2 35.250
RC 120.312 GL -31.71 GP 1.82 ZAL 86.49 ZAP 143.50 ETS 3.31 ZAE 135.77 ETE 177.49 ZAC 112.15 ETC 17.01 CLP-143.54

PLANETOCENTRIC CONIC

C3 9.923 VHL 3.150 DLA -26.01 RAL 159.83 RAD 6567.4 VEL 11.459 PTH 1.99 VHP 4.189 DPA 15.55 RAP 155.83 ECC 1.1633

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 8 55	1067.72	15.04	335.09	14.82	114.28	9 26 42	467.7	18.19	327.83
90.00	12 29 12	5697.25	27.64	269.24	18.52	96.40	14 4 9	5097.3	28.24	260.63
100.00	10 3 4	892.84	13.17	321.32	13.89	117.08	10 17 57	292.8	16.70	314.30
100.00	14 17 44	5347.37	29.71	243.70	18.73	93.47	15 46 51	4747.4	29.87	234.90
110.00	10 22 49	830.85	9.39	314.40	11.66	123.02	10 36 40	230.9	13.67	307.92
110.00	16 14 28	4982.12	34.08	215.99	18.75	87.11	17 37 30	4382.1	33.30	206.83

DIFFERENTIAL CORRECTIONS
TOE-1.6531 TRA .1475 TC3-5.7705 BAU .7661
ROE .1000 RRA .0349 RC3 -.2232 FAU .09819
FOE-2.9462 FRA 1.0742 FC3-8.5667 BSP 14714
BOE 1.6561 BRA .1516 BC3 5.7748 FSP -2193

MID-COURSE EXECUTION ACCURACY
SGT 4727.2 SGR 240.5 SG3 683.4
RRT -.0129 RRF -.0327 RTF .9730
SGB 4733.4 R23 .0202 R13 -.9730
SG1 4727.2 SG2 240.5 THA 179.96

ORBIT DETERMINATION ACCURACY
ST 3010.0 SR 183.2 SS 1954.4
CRT -.9877 CRS .9706 CST -.9958
LSA 3590.3 MSA 153.0 SSA 12.3
EL1 3015.5 EL2 28.6 ALF 176.56

LAUNCH DATE JUN 10 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 27 1967

HELIOCENTRIC CONIC DISTANCE 478.492

RL 151.88 LAL -.00 LOL 258.45 VL 26.687 GAL 1.08 AZL 93.54 HCA 220.33 SMA 128.17 ECC .18589 INC 3.5359 V1 29.334
RP 107.49 LAP 2.29 LOP 118.73 VP 37.866 GAP 5.37 AZP 87.30 TAL 175.26 TAP 35.58 RCA 104.35 APO 152.00 V2 35.253
RC 122.538 GL -31.19 GP 1.63 ZAL 84.56 ZAP 145.72 ETS 3.18 ZAE 134.63 ETE 177.95 ZAC 111.21 ETC 16.73 CLP-145.75

PLANETOCENTRIC CONIC

C3 10.100 VHL 3.178 DLA -26.38 RAL 162.00 RAD 6567.4 VEL 11.467 PTH 1.99 VHP 4.349 DPA 15.01 RAP 156.76 ECC 1.1662

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 25 56	1043.01	15.72	333.60	17.49	113.86	9 43 19	443.0	18.82	326.29
90.00	12 29 28	5728.99	27.38	271.53	21.01	97.52	14 4 57	5129.0	28.14	262.94
100.00	10 17 54	875.18	13.71	320.29	16.51	116.82	10 32 29	275.2	17.20	313.24
100.00	14 20 11	5372.06	29.59	245.53	21.27	94.42	15 49 43	4772.1	29.89	236.73
110.00	10 35 23	820.28	9.78	313.83	14.20	122.92	10 49 4	220.3	14.05	307.33
110.00	16 19 10	4999.73	34.13	217.36	21.38	87.92	17 42 30	4399.7	33.46	208.18

DIFFERENTIAL CORRECTIONS
TOE-1.7281 TRA .2377 TC3-5.8528 BAU .7910
ROE .1056 RRA .0409 RC3 -.2439 FAU .09080
FOE-2.7803 FRA 1.1305 FC3-7.7831 BSP 15227
BOE 1.7313 BRA .2412 BC3 5.8579 FSP -2060

MID-COURSE EXECUTION ACCURACY
SGT 4875.9 SGR 258.9 SG3 639.4
RRT .0182 RRF -.0001 RTF .9729
SGB 4882.7 R23 -.0178 R13 .9729
SG1 4875.9 SG2 258.9 THA .06

ORBIT DETERMINATION ACCURACY
ST 3120.8 SR 192.0 SS 1901.6
CRT -.9829 CRS .9639 CST -.9960
LSA 3656.4 MSA 149.9 SSA 13.3
EL1 3126.5 EL2 35.3 ALF 176.54

LAUNCH DATE JUN 10 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 29 1967

HELIOCENTRIC CONIC DISTANCE 484.555

RL 151.88 LAL -.00 LOL 258.45 VL 26.658 GAL 1.33 AZL 93.52 HCA 223.58 SMA 127.98 ECC .18810 INC 3.5204 V1 29.334
RP 107.49 LAP 2.43 LOP 121.97 VP 37.848 GAP 5.73 AZP 87.45 TAL 174.25 TAP 37.82 RCA 103.91 APO 152.06 V2 35.256
RC 124.755 GL -30.63 GP 1.47 ZAL 82.56 ZAP 147.80 ETS 3.06 ZAE 133.61 ETE 178.32 ZAC 110.13 ETC 16.46 CLP-147.83

PLANETOCENTRIC CONIC

C3 10.318 VHL 3.212 DLA -26.75 RAL 164.24 RAD 6567.4 VEL 11.476 PTH 1.99 VHP 4.514 DPA 14.44 RAP 157.84 ECC 1.1698

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 44 10	1016.26	16.45	331.98	20.33	113.38	10 1 7	416.3	19.48	324.61
90.00	12 29 9	5764.33	27.04	274.06	23.61	98.74	14 5 13	5164.3	27.97	265.51
100.00	10 33 25	857.18	14.26	319.24	19.27	116.55	10 47 43	257.2	17.71	312.15
100.00	14 22 35	5398.65	29.44	247.49	23.94	95.45	15 52 34	4798.6	29.88	238.71
110.00	10 48 24	810.16	10.15	313.28	16.88	122.82	11 1 54	210.2	14.41	306.76
110.00	16 24 6	5018.43	34.16	218.82	24.15	88.78	17 47 44	4418.4	33.62	209.62

DIFFERENTIAL CORRECTIONS
TOE-1.8024 TRA .3367 TC3-5.8991 BAU .8145
ROE .1124 RRA .0469 RC3 -.2585 FAU .08403
FOE-2.6276 FRA 1.1815 FC3-7.0506 BSP 15694
BOE 1.8059 BRA .3399 BC3 5.9048 FSP -1934

MID-COURSE EXECUTION ACCURACY
SGT 5015.0 SGR 276.7 SG3 598.9
RRT .0344 RRF .0174 RTF .9729
SGB 5022.6 R23 -.0162 R13 .9729
SG1 5015.0 SG2 276.5 THA .11

ORBIT DETERMINATION ACCURACY
ST 3223.2 SR 202.6 SS 1849.3
CRT -.9779 CRS .9571 CST -.9962
LSA 3718.6 MSA 147.0 SSA 14.3
EL1 3229.2 EL2 42.2 ALF 176.48

LAUNCH DATE JUN 10 1967 FLIGHT TIME 174.00 ARRIVAL DATE DEC 1 1967

HELIOCENTRIC CONIC DISTANCE 490.597
RL 151.88 LAL -.00 LOL 258.45 VL 26.629 GAL 1.59 AZL 93.51 HCA 226.82 SMA 127.79 ECC .19047 INC 3.5066 V1 29.334
RP 107.48 LAP 2.56 LOP 125.22 VP 37.829 GAP 6.10 AZP 87.60 TAL 173.21 TAP 40.03 RCA 103.45 APO 152.13 V2 35.258
RC 126.964 GL -30.03 GP 1.34 ZAL 80.50 ZAP 149.75 ETS 2.94 ZAE 132.69 ETE 178.63 ZAC 108.92 ETC 16.18 CLP-149.78
PLANETOCENTRIC CONIC
C3 10.583 VHL 3.253 DLA -27.12 RAL 166.57 RAD 6567.4 VEL 11.488 PTH 2.00 VHP 4.684 OPA 13.85 RAP 159.04 ECC 1.1742

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 3 43	987.21	17.23	330.20	23.33	112.82	10 20 10	387.2	20.17	322.76
90.00	12 28 8	5803.61	26.60	276.85	26.31	100.07	14 4 52	5203.6	27.73	268.36
100.00	10 49 32	839.20	14.81	318.18	22.18	116.27	11 3 31	239.2	18.22	311.05
100.00	14 25 1	5426.85	29.24	249.56	26.74	96.52	15 55 27	4826.9	29.83	240.81
110.00	11 1 45	800.84	10.50	312.78	19.68	122.72	11 15 6	200.8	14.74	306.24
110.00	16 29 17	5037.98	34.18	220.35	27.06	89.68	17 53 15	4438.0	33.76	211.13

DIFFERENTIAL CORRECTIONS
TDE-1.8737 TRA .4478 TC3-5.8944 BAU .8348
RDE .1204 RRA .0527 RC3 -.2678 FAU .07736
FDE-2.4815 FRA 1.2347 FC3-6.3286 BSP 16072
BDE 1.8776 BRA .4509 BC3 5.9005 FSP -1808

MID-COURSE EXECUTION ACCURACY
SGT 5136.5 SGR 293.6 SG3 560.1
RRT .0404 RRF .0239 RTF .9724
SGB 5144.9 R23 -.0155 R13 .9724
SG1 5136.5 SG2 293.4 THA .13

ORBIT DETERMINATION ACCURACY
ST 3312.8 SR 214.4 SS 1794.0
CRT -.9727 CRS .9502 CST -.9963
LSA 3770.7 MSA 145.0 SSA 15.2
EL1 3319.4 EL2 49.7 ALF 176.40

LAUNCH DATE JUN 10 1967 FLIGHT TIME 176.00 ARRIVAL DATE DEC 3 1967

HELIOCENTRIC CONIC DISTANCE 496.616
RL 151.88 LAL -.00 LOL 258.45 VL 26.599 GAL 1.87 AZL 93.49 HCA 230.07 SMA 127.59 ECC .19301 INC 3.4943 V1 29.334
RP 107.48 LAP 2.68 LOP 128.47 VP 37.809 GAP 6.47 AZP 87.76 TAL 172.15 TAP 42.22 RCA 102.97 APO 152.22 V2 35.259
RC 129.165 GL -29.40 GP 1.23 ZAL 78.38 ZAP 151.60 ETS 2.83 ZAE 131.86 ETE 178.89 ZAC 107.59 ETC 15.91 CLP-151.62
PLANETOCENTRIC CONIC
C3 10.898 VHL 3.301 DLA -27.47 RAL 168.96 RAD 6567.4 VEL 11.502 PTH 2.00 VHP 4.859 OPA 13.23 RAP 160.34 ECC 1.1793

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 24 45	955.21	18.06	328.22	26.49	112.18	10 40 41	355.2	20.92	320.71
90.00	12 26 11	5847.56	26.04	279.94	29.10	101.53	14 3 38	5247.6	27.37	271.53
100.00	11 6 5	821.64	15.33	317.14	25.22	115.98	11 19 47	221.6	18.70	309.97
100.00	14 27 32	5456.36	28.99	251.72	29.66	97.63	15 58 28	4856.4	29.74	242.99
110.00	11 15 19	792.67	10.80	312.34	22.60	122.63	11 28 31	192.7	15.02	305.78
110.00	16 34 48	5058.09	34.18	221.92	30.10	90.61	17 59 6	4458.1	33.89	212.68

DIFFERENTIAL CORRECTIONS
TDE-1.9468 TRA .5658 TC3-5.8658 BAU .8555
RDE .1295 RRA .0583 RC3 -.2721 FAU .07152
FDE-2.3509 FRA 1.2795 FC3-5.6815 BSP 16481
BDE 1.9511 BRA .5688 BC3 5.8721 FSP -1700

MID-COURSE EXECUTION ACCURACY
SGT 5257.5 SGR 309.5 SG3 525.4
RRT .0385 RRF .0225 RTF .9722
SGB 5266.6 R23 -.0151 R13 .9722
SG1 5257.5 SG2 309.3 THA .13

ORBIT DETERMINATION ACCURACY
ST 3397.3 SR 227.4 SS 1742.3
CRT -.9675 CRS .9438 CST -.9964
LSA 3822.0 MSA 143.3 SSA 15.9
EL1 3404.4 EL2 57.4 ALF 176.29

LAUNCH DATE JUN 10 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 5 1967

HELIOCENTRIC CONIC DISTANCE 502.612
RL 151.88 LAL -.00 LOL 258.45 VL 26.568 GAL 2.16 AZL 93.48 HCA 233.32 SMA 127.39 ECC .19574 INC 3.4830 V1 29.334
RP 107.48 LAP 2.79 LOP 131.72 VP 37.787 GAP 6.85 AZP 87.92 TAL 171.06 TAP 44.38 RCA 102.46 APO 152.33 V2 35.259
RC 131.355 GL -28.72 GP 1.13 ZAL 76.23 ZAP 153.34 ETS 2.72 ZAE 131.12 ETE 179.11 ZAC 106.16 ETC 15.64 CLP-153.36
PLANETOCENTRIC CONIC
C3 11.268 VHL 3.357 DLA -27.80 RAL 171.41 RAD 6567.4 VEL 11.518 PTH 2.01 VHP 5.039 OPA 12.59 RAP 161.74 ECC 1.1854

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 47 49	918.43	18.99	325.92	29.82	111.41	11 3 8	318.4	21.73	318.32
90.00	12 22 39	610.06	25.31	305.56	31.94	103.15	12 32 49	10.1	26.87	297.24
100.00	11 22 56	804.92	15.83	316.15	28.38	115.69	11 36 21	204.9	19.16	308.94
100.00	14 30 13	5486.85	28.69	253.94	32.68	98.76	16 1 40	4886.8	29.61	245.25
110.00	11 28 58	786.00	11.04	311.98	25.64	122.56	11 42 4	186.0	15.26	305.41
110.00	16 40 41	5078.54	34.15	223.51	33.25	91.56	18 5 20	4478.5	33.99	214.27

DIFFERENTIAL CORRECTIONS
TDE-2.0197 TRA .6926 TC3-5.8011 BAU .8749
RDE .1397 RRA .0636 RC3 -.2720 FAU .06609
FDE-2.2317 FRA 1.3190 FC3-5.0777 BSP 16886
BDE 2.0246 BRA .6956 BC3 5.8074 FSP -1606

MID-COURSE EXECUTION ACCURACY
SGT 5370.2 SGR 324.4 SG3 493.4
RRT .0307 RRF .0146 RTF .9721
SGB 5380.0 R23 -.0154 R13 .9721
SG1 5370.2 SG2 324.3 THA .11

ORBIT DETERMINATION ACCURACY
ST 3472.6 SR 241.3 SS 1691.9
CRT -.9624 CRS .9378 CST -.9966
LSA 3867.7 MSA 141.9 SSA 16.6
EL1 3480.4 EL2 65.4 ALF 176.17

LAUNCH DATE JUN 10 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 7 1967

HELIOCENTRIC CONIC DISTANCE 508.584
RL 151.88 LAL -.00 LOL 258.45 VL 26.537 GAL 2.47 AZL 93.47 HCA 236.57 SMA 127.19 ECC .19866 INC 3.4726 V1 29.334
RP 107.48 LAP 2.90 LOP 134.97 VP 37.765 GAP 7.23 AZP 88.09 TAL 169.95 TAP 46.52 RCA 101.92 APO 152.46 V2 35.259
RC 133.537 GL -28.00 GP 1.04 ZAL 74.04 ZAP 154.99 ETS 2.62 ZAE 130.45 ETE 179.30 ZAC 104.64 ETC 15.38 CLP-155.02
PLANETOCENTRIC CONIC
C3 11.701 VHL 3.421 DLA -28.11 RAL 173.90 RAD 6567.4 VEL 11.536 PTH 2.01 VHP 5.224 OPA 11.91 RAP 163.22 ECC 1.1926

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 14 47	870.82	20.15	322.90	33.36	110.33	11 29 18	270.8	22.74	315.19
90.00	12 15 37	673.35	24.26	309.90	34.78	105.08	12 26 50	73.4	26.09	301.71
100.00	11 39 55	789.48	16.28	315.23	31.65	115.42	11 53 5	189.5	19.57	307.98
100.00	14 33 9	5517.96	28.35	256.19	35.79	99.90	16 5 7	4918.0	29.43	247.55
110.00	11 42 35	781.12	11.22	311.71	28.77	122.50	11 55 36	181.1	15.43	305.13
110.00	16 46 59	5099.09	34.10	225.12	36.52	92.51	18 11 58	4499.1	34.07	215.87

DIFFERENTIAL CORRECTIONS
TDE-2.0881 TRA .8329 TC3-5.6929 BAU .8915
RDE .1509 RRA .0686 RC3 -.2679 FAU .06084
FDE-2.1139 FRA 1.3612 FC3-4.5018 BSP 17171
BDE 2.0935 BRA .8357 BC3 5.6992 FSP -1504

MID-COURSE EXECUTION ACCURACY
SGT 5468.3 SGR 338.3 SG3 462.9
RRT .0196 RRF .0036 RTF .9717
SGB 5478.8 R23 -.0154 R13 .9717
SG1 5468.3 SG2 338.2 THA .07

ORBIT DETERMINATION ACCURACY
ST 3531.5 SR 255.8 SS 1636.7
CRT -.9573 CRS .9316 CST -.9967
LSA 3898.1 MSA 141.9 SSA 17.2
EL1 3540.0 EL2 73.8 ALF 176.03

LAUNCH DATE JUN 10 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 9 1967

HELIOCENTRIC CONIC DISTANCE 514.531
RL 151.88 LAL -.00 LOL 258.45 VL 26.505 GAL 2.79 AZL 93.46 HCA 239.82 SMA 126.99 ECC .20179 INC 3.4630 V1 29.334
RP 107.48 LAP 2.99 LOP 138.22 VP 37.742 GAP 7.61 AZP 88.26 TAL 168.82 TAP 48.63 RCA 101.36 APO 152.61 V2 35.257
RC 135.709 GL -27.24 GP .97 ZAL 71.83 ZAP 156.57 ETS 2.52 ZAE 129.85 ETE 179.45 ZAC 103.04 ETC 15.12 CLP-156.59
PLANETOCENTRIC CONIC
C3 12.203 VHL 3.493 DLA -28.38 RAL 176.44 RAD 6567.5 VEL 11.558 PTH 2.02 VHP 5.416 DPA 11.21 RAP 164.78 ECC 1.2008

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
88.09	11 39 11	833.16	22.20	320.92	37.34	108.14	11 53 4	233.2	24.48	312.98
91.91	12 11 25	728.69	22.21	313.28	37.34	108.12	12 23 34	128.7	24.49	305.34
100.00	11 56 50	775.89	16.68	314.41	35.02	115.17	12 9 46	175.9	19.93	307.13
100.00	14 36 27	5549.23	27.96	258.43	38.99	101.02	16 8 57	4949.2	29.20	249.84
110.00	11 56 2	778.39	11.32	311.56	31.98	122.47	12 9 1	178.4	15.53	304.98
110.00	16 53 44	5119.58	34.03	226.71	39.89	93.44	18 19 4	4519.5	34.13	217.46

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-2.1588 TRA .9803 TC3-5.5635 BAU .9086 SGT 5566.4 SGR 351.1 SG3 435.4 ST 3584.8 SR 270.7 SS 1585.4
RDE .1631 RRA .0731 RC3 -.2604 FAU .05617 RRT .0045 RRF -.0116 RTF .9715 CRT -.9524 CRS .9261 CST -.9968
FDE-2.0095 FRA 1.3966 FC3-3.9850 BSP 17518 SGB 5577.5 R23 -.0160 R13 .9715 LSA 3926.5 MSA 142.3 SSA 17.6
BDE 2.1649 BRA .9830 BC3 5.5696 FSP -1421 SG1 5566.4 SG2 351.1 THA .02 EL1 3594.1 EL2 82.3 ALF 175.88

LAUNCH DATE JUN 10 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 11 1967

HELIOCENTRIC CONIC DISTANCE 520.450
RL 151.88 LAL -.00 LOL 258.45 VL 26.473 GAL 3.14 AZL 93.45 HCA 243.06 SMA 126.78 ECC .20513 INC 3.4541 V1 29.334
RP 107.49 LAP 3.08 LOP 141.47 VP 37.717 GAP 8.00 AZP 88.43 TAL 167.67 TAP 50.73 RCA 100.77 APO 152.78 V2 35.255
RC 137.871 GL -26.45 GP .91 ZAL 69.60 ZAP 158.07 ETS 2.43 ZAE 129.31 ETE 179.59 ZAC 101.37 ETC 14.88 CLP-158.09
PLANETOCENTRIC CONIC
C3 12.782 VHL 3.575 DLA -28.61 RAL 179.00 RAD 6567.5 VEL 11.583 PTH 2.03 VHP 5.613 DPA 10.48 RAP 166.39 ECC 1.2104

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.73	11 29 45	906.61	22.17	326.29	40.65	108.57	11 44 52	306.6	24.50	318.37
94.27	12 41 16	675.01	22.18	309.33	40.66	108.55	12 52 31	75.0	24.51	301.41
100.00	12 13 26	764.77	17.00	313.74	38.46	114.96	12 26 11	164.8	20.22	306.43
100.00	14 40 16	5580.12	27.54	260.63	42.27	102.10	16 13 16	4980.1	28.93	252.10
110.00	12 9 13	778.07	11.33	311.54	35.26	122.47	12 22 11	178.1	15.54	304.96
110.00	17 0 59	5139.58	33.94	228.27	43.35	94.36	18 26 38	4539.6	34.17	219.03

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-2.2282 TRA 1.1377 TC3-5.4045 BAU .9245 SGT 5656.7 SGR 363.0 SG3 409.7 ST 3626.7 SR 286.0 SS 1534.1
RDE .1765 RRA .0771 RC3 -.2500 FAU .05182 RRT -.0131 RRF -.0295 RTF .9713 CRT -.9477 CRS .9209 CST -.9970
FDE-1.9118 FRA 1.4290 FC3-3.5096 BSP 17849 SGB 5668.4 R23 .0167 R13 -.9713 LSA 3945.5 MSA 143.5 SSA 17.8
BDE 2.2352 BRA 1.1403 BC3 5.4103 FSP -1344 SG1 5656.7 SG2 362.9 THA 179.95 EL1 3636.8 EL2 91.0 ALF 175.72

LAUNCH DATE JUN 10 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 13 1967

HELIOCENTRIC CONIC DISTANCE 526.341
RL 151.88 LAL -.00 LOL 258.45 VL 26.440 GAL 3.50 AZL 93.45 HCA 246.31 SMA 126.57 ECC .20871 INC 3.4456 V1 29.334
RP 107.50 LAP 3.16 LOP 144.72 VP 37.692 GAP 8.40 AZP 88.61 TAL 166.50 TAP 52.81 RCA 100.15 APO 152.99 V2 35.253
RC 140.023 GL -25.63 GP .85 ZAL 67.38 ZAP 159.51 ETS 2.34 ZAE 128.81 ETE 179.70 ZAC 99.64 ETC 14.65 CLP-159.53
PLANETOCENTRIC CONIC
C3 13.448 VHL 3.667 DLA -28.81 RAL 181.57 RAD 6567.5 VEL 11.612 PTH 2.03 VHP 5.818 DPA 9.73 RAP 168.07 ECC 1.2213

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.49	11 29 48	950.54	22.07	329.48	44.04	108.99	11 45 39	350.5	24.46	321.58
95.51	13 1 44	653.80	22.08	307.68	44.04	108.98	13 12 37	53.0	24.47	299.79
100.00	12 29 29	756.84	17.23	313.26	41.97	114.81	12 42 6	156.8	20.43	305.93
100.00	14 44 44	5609.98	27.10	262.74	45.63	103.13	16 18 14	5010.0	28.64	254.27
110.00	12 21 59	780.43	11.25	311.67	38.60	122.49	12 34 59	180.4	15.45	305.10
110.00	17 8 43	5159.15	33.83	229.79	46.89	95.26	18 34 42	4559.1	34.18	220.56

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-2.2954 TRA 1.3067 TC3-5.2183 BAU .9391 SGT 5739.2 SGR 373.8 SG3 385.8 ST 3655.7 SR 301.4 SS 1481.6
RDE .1909 RRA .0804 RC3 -.2371 FAU .04775 RRT -.0326 RRF -.0490 RTF .9711 CRT -.9430 CRS .9157 CST -.9971
FDE-1.8186 FRA 1.4608 FC3-3.0737 BSP 18145 SGB 5751.3 R23 .0172 R13 -.9711 LSA 3953.3 MSA 145.8 SSA 17.9
BDE 2.3033 BRA 1.3092 BC3 5.2237 FSP -1271 SG1 5739.2 SG2 373.6 THA 179.88 EL1 3666.7 EL2 100.0 ALF 175.55

LAUNCH DATE JUN 10 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 15 1967

HELIOCENTRIC CONIC DISTANCE 532.201
RL 151.88 LAL -.00 LOL 258.45 VL 26.407 GAL 3.88 AZL 93.44 HCA 249.56 SMA 126.36 ECC .21255 INC 3.4375 V1 29.334
RP 107.51 LAP 3.22 LOP 147.98 VP 37.665 GAP 8.81 AZP 88.80 TAL 165.32 TAP 54.88 RCA 99.50 APO 153.22 V2 35.249
RC 142.165 GL -24.78 GP .80 ZAL 65.15 ZAP 160.89 ETS 2.27 ZAE 128.37 ETE 179.79 ZAC 97.84 ETC 14.44 CLP-160.91
PLANETOCENTRIC CONIC
C3 14.210 VHL 3.770 DLA -28.96 RAL 184.14 RAD 6567.6 VEL 11.645 PTH 2.04 VHP 6.029 DPA 8.95 RAP 169.79 ECC 1.2339

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.68	11 33 28	983.88	21.91	331.87	47.49	109.42	11 49 52	383.9	24.36	324.00
96.32	13 18 34	643.83	21.92	306.95	47.49	109.40	13 29 18	43.8	24.37	299.08
100.00	12 44 38	752.95	17.34	313.02	45.52	114.74	12 57 11	152.9	20.53	305.69
100.00	14 50 5	5638.03	26.65	264.70	49.05	104.07	16 24 3	5038.0	28.32	256.30
110.00	12 34 14	785.68	11.05	311.96	41.98	122.55	12 47 20	185.7	15.27	305.39
110.00	17 16 59	5178.06	33.70	231.25	50.50	96.11	18 43 17	4578.1	34.18	222.04

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-2.3619 TRA 1.4869 TC3-5.0102 BAU .9527 SGT 5816.1 SGR 383.7 SG3 363.7 ST 3674.3 SR 316.6 SS 1430.5
RDE .2063 RRA .0830 RC3 -.2223 FAU .04397 RRT -.0538 RRF -.0703 RTF .9709 CRT -.9384 CRS .9107 CST -.9972
FDE-1.7324 FRA 1.4909 FC3-2.6791 BSP 18429 SGB 5828.7 R23 .0179 R13 -.9709 LSA 3952.8 MSA 148.8 SSA 17.9
BDE 2.3709 BRA 1.4892 BC3 5.0151 FSP -1204 SG1 5816.1 SG2 383.2 THA 179.80 EL1 3686.3 EL2 109.0 ALF 175.37

LAUNCH DATE JUN 10 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 17 1967

DISTANCE 538.028

HELIOCENTRIC CONIC
RL 151.88 LAL -.00 LOL 258.45 VL 26.374 GAL 4.28 AZL 93.43 HCA 252.80 SMA 126.15 ECC .21665 INC 3.4298 V1 29.334
RP 107.52 LAP 3.28 LOP 151.23 VP 37.638 GAP 9.22 AZP 88.99 TAL 164.13 TAP 56.93 RCA 98.82 APO 153.48 V2 35.245
RC 144.295 GL -23.90 GP .75 ZAL 62.95 ZAP 162.22 ETS 2.20 ZAE 127.96 ETE 179.86 ZAC 96.00 ETC 14.23 CLP-162.23

PLANETOCENTRIC CONIC
C3 15.081 VHL 3.883 DLA -29.07 RAL 186.70 RAD 6567.6 VEL 11.682 PTH 2.05 VHP 6.249 DPA 8.16 RAP 171.55 ECC 1.2482

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.15	11 39 29	1010.62	21.69	333.76	50.99	109.84	11 56 19	410.6	24.20	325.92
96.85	13 32 59	643.55	21.70	306.84	51.00	109.83	13 43 42	43.5	24.21	299.01
100.00	12 58 36	753.97	17.31	313.09	49.09	114.76	13 11 10	154.0	20.50	305.75
100.00	14 56 32	5663.47	26.22	266.47	52.54	104.90	16 30 56	5063.5	28.01	258.12
110.00	12 45 54	793.98	10.75	312.41	45.39	122.65	12 59 8	194.0	14.98	305.86
110.00	17 25 44	5196.23	33.56	232.65	54.17	96.93	18 52 20	4596.2	34.15	223.45

DIFFERENTIAL CORRECTIONS
TDE-2.4240 TRA 1.6819 TC3-4.7747 BAU .9636
RDE .2228 RRA .0848 RC3 -.2062 FAU .04030
FDE-1.6484 FRA 1.5228 FC3-2.3134 BSP 18628
BDE 2.4342 BRA 1.6840 BC3 4.7792 FSP -1136

MID-COURSE EXECUTION ACCURACY
SGT 5882.4 SGR 392.6 SG3 342.9
RRT -.0758 RRF -.0922 RTF .9706
SGB 5895.4 R23 .0183 R13 -.9706
SG1 5882.4 SG2 391.5 THA 179.71

ORBIT DETERMINATION ACCURACY
ST 3678.0 SR 331.5 SS 1377.8
CRT -.9336 CRS .9054 CST -.9973
LSA 3938.5 MSA 153.0 SSA 17.7
EL1 3691.0 EL2 118.3 ALF 175.19

LAUNCH DATE JUN 10 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 19 1967

DISTANCE 543.819

HELIOCENTRIC CONIC
RL 151.88 LAL -.00 LOL 258.45 VL 26.341 GAL 4.70 AZL 93.42 HCA 256.05 SMA 125.94 ECC .22105 INC 3.4223 V1 29.334
RP 107.53 LAP 3.32 LOP 154.48 VP 37.610 GAP 9.65 AZP 89.17 TAL 162.93 TAP 58.98 RCA 98.10 APO 153.78 V2 35.240
RC 146.414 GL -23.01 GP .72 ZAL 60.77 ZAP 163.50 ETS 2.14 ZAE 127.59 ETE 179.92 ZAC 94.10 ETC 14.04 CLP-163.52

PLANETOCENTRIC CONIC
C3 16.075 VHL 4.009 DLA -29.13 RAL 189.23 RAD 6567.6 VEL 11.724 PTH 2.07 VHP 6.478 DPA 7.34 RAP 173.35 ECC 1.2646

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.86	11 47 15	1032.58	21.40	335.26	54.54	110.25	12 4 27	432.6	23.96	327.46
97.14	13 45 26	650.40	21.41	307.23	54.54	110.24	13 56 17	50.4	23.97	299.43
100.00	13 11 4	760.76	17.12	313.50	52.65	114.89	13 23 45	160.8	20.33	306.18
100.00	15 4 18	5685.49	25.82	267.98	56.10	105.61	16 39 3	5085.5	27.71	259.69
110.00	12 56 53	805.44	10.33	313.03	48.81	122.77	13 10 18	205.4	14.58	306.50
110.00	17 34 59	5213.59	33.41	233.98	57.90	97.70	19 1 52	4613.6	34.11	224.81

DIFFERENTIAL CORRECTIONS
TDE-2.4870 TRA 1.8863 TC3-4.5307 BAU .9745
RDE .2402 RRA .0856 RC3 -.1891 FAU .03698
FDE-1.5718 FRA 1.5513 FC3-1.9916 BSP 18874
BDE 2.4985 BRA 1.8883 BC3 4.5347 FSP -1077

MID-COURSE EXECUTION ACCURACY
SGT 5945.9 SGR 400.6 SG3 323.7
RRT -.0994 RRF -.1155 RTF .9704
SGB 5959.4 R23 .0187 R13 -.9704
SG1 5946.0 SG2 398.6 THA 179.61

ORBIT DETERMINATION ACCURACY
ST 3674.2 SR 345.9 SS 1327.7
CRT -.9290 CRS .9005 CST -.9974
LSA 3918.8 MSA 157.6 SSA 17.4
EL1 3688.3 EL2 127.5 ALF 175.00

LAUNCH DATE JUN 10 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 21 1967

DISTANCE 549.571

HELIOCENTRIC CONIC
RL 151.88 LAL -.00 LOL 258.45 VL 26.307 GAL 5.15 AZL 93.42 HCA 259.29 SMA 125.73 ECC .22577 INC 3.4151 V1 29.334
RP 107.55 LAP 3.36 LOP 157.73 VP 37.581 GAP 10.09 AZP 89.36 TAL 161.72 TAP 61.01 RCA 97.34 APO 154.12 V2 35.234
RC 148.521 GL -22.10 GP .68 ZAL 58.62 ZAP 164.74 ETS 2.10 ZAE 127.25 ETE 179.97 ZAC 92.17 ETC 13.87 CLP-164.76

PLANETOCENTRIC CONIC
C3 17.207 VHL 4.148 DLA -29.15 RAL 191.73 RAD 6567.7 VEL 11.772 PTH 2.08 VHP 6.716 DPA 6.50 RAP 175.18 ECC 1.2832

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.77	11 56 29	1050.57	21.04	336.44	58.11	110.66	12 13 59	450.6	23.66	328.69
97.23	13 56 9	663.62	21.05	308.07	58.11	110.64	14 7 13	63.6	23.67	300.31
100.00	13 21 49	773.86	16.74	314.29	56.19	115.13	13 34 43	173.9	19.99	307.00
100.00	15 13 30	5703.60	25.48	269.22	59.72	106.18	16 48 34	5103.6	27.46	260.98
110.00	13 7 8	820.09	9.79	313.82	52.23	122.92	13 20 48	220.1	14.06	307.32
110.00	17 44 41	5230.13	33.25	235.25	61.66	98.44	19 11 51	4630.1	34.06	226.10

DIFFERENTIAL CORRECTIONS
TDE-2.5488 TRA 2.1037 TC3-4.2740 BAU .9840
RDE .2587 RRA .0854 RC3 -.1716 FAU .03386
FDE-1.5003 FRA 1.5789 FC3-1.7036 BSP 19096
BDE 2.5619 BRA 2.1054 BC3 4.2775 FSP -1022

MID-COURSE EXECUTION ACCURACY
SGT 6003.1 SGR 407.6 SG3 305.8
RRT -.1241 RRF -.1399 RTF .9702
SGB 6016.9 R23 .0191 R13 -.9703
SG1 6003.3 SG2 404.5 THA 179.52

ORBIT DETERMINATION ACCURACY
ST 3660.8 SR 359.6 SS 1278.9
CRT -.9244 CRS .8957 CST -.9975
LSA 3891.0 MSA 162.7 SSA 17.1
EL1 3675.9 EL2 136.6 ALF 174.80

LAUNCH DATE JUN 10 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 23 1967

DISTANCE 555.280

HELIOCENTRIC CONIC
RL 151.88 LAL -.00 LOL 258.45 VL 26.273 GAL 5.62 AZL 93.41 HCA 262.53 SMA 125.52 ECC .23084 INC 3.4080 V1 29.334
RP 107.57 LAP 3.38 LOP 160.97 VP 37.552 GAP 10.55 AZP 89.56 TAL 160.50 TAP 63.04 RCA 96.54 APO 154.49 V2 35.228
RC 150.615 GL -21.19 GP .65 ZAL 56.51 ZAP 165.95 ETS 2.08 ZAE 126.93 ETE 180.01 ZAC 90.21 ETC 13.72 CLP-165.97

PLANETOCENTRIC CONIC
C3 18.496 VHL 4.301 DLA -29.13 RAL 194.19 RAD 6567.7 VEL 11.827 PTH 2.09 VHP 6.966 DPA 5.65 RAP 177.04 ECC 1.3044

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.87	12 7 4	1064.84	20.62	337.33	61.70	111.05	12 24 48	464.8	23.30	329.61
97.13	14 5 10	682.97	20.63	309.32	61.71	111.03	14 16 33	83.0	23.31	301.61
100.00	13 30 47	793.38	16.17	315.46	59.69	115.49	13 44 0	193.4	19.47	308.22
100.00	15 24 8	5717.70	25.21	270.18	63.40	106.61	16 59 26	5117.7	27.25	261.97
110.00	13 16 37	837.92	9.13	314.78	55.64	123.09	13 30 35	237.9	13.42	308.31
110.00	17 54 46	5245.92	33.08	236.45	65.46	99.13	19 22 12	4645.9	33.99	227.33

DIFFERENTIAL CORRECTIONS
TDE-2.6090 TRA 2.3346 TC3-4.0079 BAU .9918
RDE .2780 RRA .0841 RC3 -.1540 FAU .03092
FDE-1.4330 FRA 1.6065 FC3-1.4473 BSP 19303
BDE 2.6238 BRA 2.3361 BC3 4.0109 FSP -971

MID-COURSE EXECUTION ACCURACY
SGT 6053.4 SGR 413.7 SG3 289.1
RRT -.1495 RRF -.1648 RTF .9701
SGB 6067.5 R23 .0193 R13 -.9701
SG1 6053.7 SG2 409.1 THA 179.41

ORBIT DETERMINATION ACCURACY
ST 3637.8 SR 372.4 SS 1231.5
CRT -.9197 CRS .8907 CST -.9975
LSA 3854.9 MSA 168.2 SSA 16.7
EL1 3653.9 EL2 145.6 ALF 174.61

LAUNCH DATE JUN 10 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 25 1967

HELIOCENTRIC CONIC DISTANCE 560.942

RL 151.88 LAL -.00 LOL 258.45 VL 26.240 GAL 6.12 AZL 93.40 HCA 265.78 SMA 125.31 ECC .23629 INC 3.4010 V1 29.334
RP 107.59 LAP 3.39 LOP 164.22 VP 37.522 GAP 11.03 AZP 89.75 TAL 159.28 TAP 65.06 RCA 95.70 APO 154.92 V2 35.221
RC 152.696 GL -20.27 GP .62 ZAL 54.45 ZAP 167.13 ETS 2.08 ZAE 126.64 ETE 180.04 ZAC 88.21 ETC 13.58 CLP-167.14

PLANETOCENTRIC CONIC

C3 19.962 VHL 4.468 DLA -29.07 RAL 196.59 RAD 6567.8 VEL 11.889 PTH 2.11 VHP 7.228 DPA 4.78 RAP 178.92 ECC 1.3285

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.16	12 18 58	1075.37	20.13	337.90	65.31	111.42	12 36 53	475.4	22.86	330.23
96.84	14 12 25	708.48	20.14	311.00	65.31	111.41	14 24 13	108.5	22.87	303.33
100.00	13 38 2	818.91	15.42	316.98	63.14	115.93	13 51 41	218.9	18.78	309.80
100.00	15 36 2	5728.22	25.01	270.90	67.14	106.93	17 11 30	5128.2	27.09	262.71
110.00	13 25 21	858.85	8.35	315.89	59.04	123.27	13 39 40	258.9	12.67	309.46
110.00	18 5 13	5261.04	32.92	237.60	69.29	99.79	19 32 54	4661.0	33.92	228.50

DIFFERENTIAL CORRECTIONS
TOE-2.6654 TRA 2.5830 TC3-3.7310 BAU .9964
RDE .2982 RRA .0815 RC3 -.1368 FAU .02805
FDE-1.3680 FRA 1.6362 FC3-1.2167 BSP 19419
BDE 2.6820 BRA 2.5843 BC3 3.7335 FSP -918

MID-COURSE EXECUTION ACCURACY
SGT 6095.9 SGR 418.9 SG3 273.5
RRT -.1750 RRF -.1894 RTF .9699
SGB 6110.3 R23 .0191 R13 -.9700
SG1 6096.3 SG2 412.4 THA 179.31

ORBIT DETERMINATION ACCURACY
ST 3603.6 SR 384.2 SS 1184.4
CRT -.9146 CRS .8853 CST -.9976
LSA 3808.6 MSA 174.4 SSA 16.3
EL1 3620.7 EL2 154.6 ALF 174.42

LAUNCH DATE JUN 10 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 27 1967

HELIOCENTRIC CONIC DISTANCE 566.550

RL 151.88 LAL -.00 LOL 258.45 VL 26.206 GAL 6.65 AZL 93.39 HCA 269.02 SMA 125.10 ECC .24215 INC 3.3940 V1 29.334
RP 107.62 LAP 3.39 LOP 167.47 VP 37.491 GAP 11.52 AZP 89.94 TAL 158.06 TAP 67.08 RCA 94.81 APO 155.39 V2 35.214
RC 154.762 GL -19.35 GP .59 ZAL 52.44 ZAP 168.28 ETS 2.11 ZAE 126.36 ETE 180.06 ZAC 86.19 ETC 13.47 CLP-168.29

PLANETOCENTRIC CONIC

C3 21.630 VHL 4.651 DLA -28.96 RAL 198.93 RAD 6567.9 VEL 11.959 PTH 2.13 VHP 7.503 DPA 3.90 RAP 180.83 ECC 1.3560

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.65	12 32 17	1081.78	19.58	338.14	68.91	111.78	12 50 19	481.8	22.37	330.52
96.35	14 17 46	740.55	19.59	313.13	68.92	111.76	14 30 6	140.6	22.38	305.51
100.00	13 43 48	849.73	14.49	318.80	66.53	116.43	13 57 58	249.7	17.92	311.69
100.00	15 48 55	5735.87	24.85	271.41	70.92	107.17	17 24 31	5135.9	26.97	263.25
110.00	13 33 18	882.77	7.45	317.17	62.40	123.46	13 48 1	282.8	11.80	310.77
110.00	18 15 55	5275.59	32.74	238.70	73.13	100.42	19 43 50	4675.6	33.83	229.63

DIFFERENTIAL CORRECTIONS
TOE-2.7247 TRA 2.8424 TC3-3.4601 BAU 1.0012
RDE .3193 RRA .0775 RC3 -.1201 FAU .02547
FDE-1.3099 FRA 1.6636 FC3-1.0193 BSP 19613
BDE 2.7434 BRA 2.8434 BC3 3.4622 FSP -874

MID-COURSE EXECUTION ACCURACY
SGT 6135.4 SGR 423.3 SG3 259.0
RRT -.2018 RRF -.2152 RTF .9699
SGB 6150.0 R23 .0190 R13 -.9700
SG1 6136.0 SG2 414.5 THA 179.20

ORBIT DETERMINATION ACCURACY
ST 3566.3 SR 394.8 SS 1141.1
CRT -.9098 CRS .8803 CST -.9977
LSA 3760.8 MSA 180.4 SSA 15.9
EL1 3584.4 EL2 163.0 ALF 174.24

LAUNCH DATE JUN 10 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 29 1967

HELIOCENTRIC CONIC DISTANCE 572.100

RL 151.88 LAL -.00 LOL 258.45 VL 26.172 GAL 7.22 AZL 93.39 HCA 272.26 SMA 124.89 ECC .24847 INC 3.3872 V1 29.334
RP 107.64 LAP 3.38 LOP 170.71 VP 37.460 GAP 12.04 AZP 90.13 TAL 156.85 TAP 69.10 RCA 93.86 APO 155.93 V2 35.205
RC 156.813 GL -18.44 GP .57 ZAL 50.49 ZAP 169.40 ETS 2.18 ZAE 126.09 ETE 180.07 ZAC 84.15 ETC 13.37 CLP-169.42

PLANETOCENTRIC CONIC

C3 23.530 VHL 4.851 DLA -28.82 RAL 201.20 RAD 6568.0 VEL 12.038 PTH 2.15 VHP 7.793 DPA 3.01 RAP 182.75 ECC 1.3872

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.39	12 47 19	1082.92	18.97	337.96	72.51	112.11	13 5 22	482.9	21.81	330.40
95.61	14 20 50	780.29	18.99	315.80	72.52	112.10	14 33 50	180.3	21.82	308.23
100.00	13 48 19	884.96	13.41	320.86	69.87	116.97	14 3 4	285.0	16.92	313.83
100.00	16 2 31	5741.53	24.74	271.80	74.74	107.34	17 38 13	5141.5	26.88	263.65
110.00	13 40 31	909.51	6.44	318.58	65.74	123.64	13 55 40	309.5	10.82	312.23
110.00	18 26 49	5289.74	32.56	239.76	76.99	101.03	19 54 58	4689.7	33.74	230.72

DIFFERENTIAL CORRECTIONS
TOE-2.7835 TRA 3.1182 TC3-3.1890 BAU 1.0037
RDE .3412 RRA .0722 RC3 -.1042 FAU .02301
FDE-1.2558 FRA 1.6917 FC3 -.8467 BSP 19776
BDE 2.8043 BRA 3.1190 BC3 3.1907 FSP -832

MID-COURSE EXECUTION ACCURACY
SGT 6168.8 SGR 426.7 SG3 245.5
RRT -.2290 RRF -.2414 RTF .9700
SGB 6183.5 R23 .0187 R13 -.9701
SG1 6169.5 SG2 415.3 THA 179.09

ORBIT DETERMINATION ACCURACY
ST 3522.6 SR 404.1 SS 1100.0
CRT -.9048 CRS .8752 CST -.9978
LSA 3707.7 MSA 186.3 SSA 15.5
EL1 3541.5 EL2 171.1 ALF 174.06

LAUNCH DATE JUN 10 1967 FLIGHT TIME 204.00 ARRIVAL DATE DEC 31 1967

HELIOCENTRIC CONIC DISTANCE 577.584

RL 151.88 LAL -.00 LOL 258.45 VL 26.139 GAL 7.81 AZL 93.38 HCA 275.49 SMA 124.69 ECC .25530 INC 3.3802 V1 29.334
RP 107.67 LAP 3.36 LOP 173.95 VP 37.428 GAP 12.58 AZP 90.32 TAL 155.63 TAP 71.13 RCA 92.85 APO 156.52 V2 35.197
RC 158.850 GL -17.53 GP .55 ZAL 48.60 ZAP 170.51 ETS 2.30 ZAE 125.84 ETE 180.07 ZAC 82.09 ETC 13.29 CLP-170.52

PLANETOCENTRIC CONIC

C3 25.695 VHL 5.069 DLA -28.65 RAL 203.39 RAD 6568.0 VEL 12.127 PTH 2.17 VHP 8.101 DPA 2.11 RAP 184.68 ECC 1.4229

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.47	13 4 57	1075.90	18.31	337.16	76.10	112.43	13 22 53	475.9	21.19	329.65
94.53	14 20 42	830.58	18.32	319.20	76.10	112.41	14 34 33	230.6	21.20	311.69
100.00	13 51 48	923.77	12.20	323.11	73.15	117.50	14 7 12	323.8	15.79	316.15
100.00	16 16 32	5745.98	24.65	272.10	78.57	107.47	17 52 18	5146.0	26.81	263.96
110.00	13 47 0	938.90	5.33	320.13	69.04	123.81	14 2 39	338.9	9.74	313.81
110.00	18 37 50	5303.62	32.38	240.80	80.85	101.62	20 6 13	4703.6	33.64	231.79

DIFFERENTIAL CORRECTIONS
TOE-2.8420 TRA 3.4113 TC3-2.9204 BAU 1.0037
RDE .3637 RRA .0653 RC3 -.0895 FAU .02067
FDE-1.2055 FRA 1.7208 FC3 -.6965 BSP 19916
BDE 2.8652 BRA 3.4119 BC3 2.9218 FSP -792

MID-COURSE EXECUTION ACCURACY
SGT 6195.9 SGR 429.3 SG3 232.9
RRT -.2566 RRF -.2676 RTF .9702
SGB 6210.7 R23 .0181 R13 -.9702
SG1 6196.9 SG2 414.9 THA 178.98

ORBIT DETERMINATION ACCURACY
ST 3473.4 SR 411.9 SS 1061.3
CRT -.8997 CRS .8700 CST -.9978
LSA 3650.1 MSA 192.2 SSA 15.0
EL1 3493.1 EL2 178.8 ALF 173.89

LAUNCH DATE JUN 10 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 2 1968

HELIOCENTRIC CONIC DISTANCE 582.993

```
RL  151.88 LAL   -.00 LOL 258.45 VL  26.105 GAL   8.45 AZL  93.37 HCA 278.73 SMA 124.48 ECC .26267 INC 3.3732 V1  29.334
RP  107.70 LAP   3.33 LOP 177.20 VP  37.396 GAP  13.15 AZP  90.51 TAL 154.43 TAP  73.16 RCA  91.78 APO 157.18 V2  35.187
RC 160.871 GL  -16.64 GP     .53 ZAL  46.78 ZAP 171.60 ETS   2.48 ZAE 125.59 ETE 180.07 ZAC  80.02 ETC  13.24 CLP-171.62
```

PLANETOCENTRIC CONIC

```
C3  28.166 VHL  5.307 DLA -28.44 RAL 205.51 RAO 6568.1 VEL 12.229 PTH   2.20 VHP  8.427 OPA   1.21 RAP 186.62 ECC 1.4635
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
87.24	13 28 3	1051.25	17.59	335.04	79.66	112.72	13 45 34	451.3	20.52	327.58
92.76	14 14 28	900.82	17.60	324.04	79.67	112.70	14 29 29	300.8	20.53	316.58
100.00	13 54 29	965.44	10.88	325.50	76.39	118.01	14 10 34	365.4	14.54	318.62
100.00	16 30 43	5749.91	24.57	272.36	82.41	107.59	18 6 33	5149.9	26.74	264.23
110.00	13 52 48	970.73	4.13	321.81	72.30	123.96	14 8 58	370.7	8.56	315.52
110.00	18 48 54	5317.37	32.18	241.83	84.70	102.20	20 17 31	4717.4	33.53	232.85

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-2.8973 TRA 3.7263 TC3-2.6522 BAU  .9991    SGT 6216.1 SGR  431.0 SG3  221.1     ST  3416.9 SR   418.2 SS  1023.9
RDE  .3868 RRA  .0567 RC3 -.0760 FAU .01835    RRT -.2840 RRF -.2934 RTF  .9704    CRT -.8941 CRS  .8642 CST -.9979
FDE-1.1570 FRA 1.7530 FC3 -.5641 BSP  19953    SGB 6231.0 R23  .0172 R13 -.9704    LSA 3585.9 MSA  198.0 SSA   14.6
BDE 2.9230 BRA 3.7267 BC3 2.6533 FSP   -750    SG1 6217.3 SG2  413.2 THA 178.87    EL1 3437.3 EL2  186.2 ALF 173.74
```

LAUNCH DATE JUN 10 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 4 1968

HELIOCENTRIC CONIC DISTANCE 588.317

```
RL  151.88 LAL   -.00 LOL 258.45 VL  26.072 GAL   9.13 AZL  93.37 HCA 281.96 SMA 124.28 ECC .27067 INC 3.3661 V1  29.334
RP  107.73 LAP   3.29 LOP 180.44 VP  37.364 GAP  13.75 AZP  90.70 TAL 153.24 TAP  75.20 RCA  90.64 APO 157.92 V2  35.178
RC 162.878 GL  -15.75 GP     .51 ZAL  45.02 ZAP 172.68 ETS   2.76 ZAE 125.35 ETE 180.06 ZAC  77.94 ETC  13.20 CLP-172.70
```

PLANETOCENTRIC CONIC

```
C3  30.989 VHL  5.567 DLA -28.20 RAL 207.53 RAO 6568.2 VEL 12.344 PTH   2.23 VHP  8.775 OPA    .30 RAP 188.57 ECC 1.5100
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 37 5	1072.20	14.91	335.36	82.33	114.35	13 54 57	472.2	18.08	328.11
90.00	14 21 37	927.71	18.76	326.50	84.04	111.61	14 37 5	327.7	21.53	318.92
100.00	13 56 29	1009.41	9.46	327.99	79.57	118.49	14 13 18	409.4	13.20	321.19
100.00	16 44 54	5753.78	24.49	272.62	86.24	107.70	18 20 48	5153.8	26.68	264.50
110.00	13 57 57	1004.82	2.83	323.59	75.51	124.08	14 14 41	404.8	7.28	317.34
110.00	18 59 56	5331.14	31.98	242.85	88.55	102.77	20 28 47	4731.1	33.41	233.91

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-2.9589 TRA 4.0563 TC3-2.3987 BAU  .9941    SGT 6232.9 SGR  432.0 SG3  210.1     ST  3361.7 SR   423.0 SS   991.0
RDE  .4106 RRA  .0464 RC3 -.0637 FAU .01626    RRT -.3124 RRF -.3202 RTF  .9709    CRT -.8889 CRS  .8591 CST -.9980
FDE-1.1152 FRA 1.7842 FC3 -.4543 BSP  20083    SGB 6247.9 R23  .0164 R13 -.9709    LSA 3524.3 MSA  203.1 SSA   14.2
BDE 2.9873 BRA 4.0566 BC3 2.3996 FSP   -715    SG1 6234.4 SG2  410.2 THA 178.75    EL1 3382.7 EL2  192.6 ALF 173.60
```

LAUNCH DATE JUN 10 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 6 1968

HELIOCENTRIC CONIC DISTANCE 593.542

```
RL  151.88 LAL   -.00 LOL 258.45 VL  26.039 GAL   9.86 AZL  93.36 HCA 285.19 SMA 124.08 ECC .27935 INC 3.3587 V1  29.334
RP  107.76 LAP   3.24 LOP 183.67 VP  37.331 GAP  14.40 AZP  90.88 TAL 152.07 TAP  77.26 RCA  89.42 APO 158.74 V2  35.167
RC 164.869 GL  -14.89 GP     .50 ZAL  43.34 ZAP 173.75 ETS   3.20 ZAE 125.11 ETE 180.05 ZAC  75.85 ETC  13.20 CLP-173.77
```

PLANETOCENTRIC CONIC

```
C3  34.224 VHL  5.850 DLA -27.94 RAL 209.47 RAO 6568.3 VEL 12.474 PTH   2.26 VHP  9.146 OPA   -.61 RAP 190.53 ECC 1.5632
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 26 32	1156.76	12.48	340.38	85.06	115.63	13 45 48	556.8	15.83	333.30
90.00	14 47 39	893.17	19.61	324.33	88.24	110.84	15 2 32	293.2	22.27	316.66
100.00	13 57 55	1055.23	7.97	330.57	82.70	118.91	14 15 31	455.2	11.76	323.84
100.00	16 58 56	5757.96	24.40	272.90	90.05	107.82	18 34 54	5158.0	26.61	264.80
110.00	14 2 28	1040.95	1.45	325.48	78.69	124.16	14 19 49	440.9	5.92	319.25
110.00	19 10 53	5345.01	31.77	243.88	92.38	103.34	20 39 58	4745.0	33.27	234.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-3.0215 TRA 4.4081 TC3-2.1525 BAU  .9852    SGT 6243.6 SGR  432.1 SG3  199.8     ST  3303.4 SR   426.1 SS   960.6
RDE  .4349 RRA  .0342 RC3 -.0528 FAU .01424    RRT -.3409 RRF -.3470 RTF  .9715    CRT -.8836 CRS  .8539 CST -.9981
FDE-1.0767 FRA 1.8175 FC3 -.3602 BSP  20178    SGB 6258.5 R23  .0153 R13 -.9715    LSA 3460.3 MSA  207.6 SSA   13.7
BDE 3.0527 BRA 4.4082 BC3 2.1532 FSP   -681    SG1 6245.3 SG2  406.1 THA 178.64    EL1 3324.8 EL2  198.3 ALF 173.47
```

LAUNCH DATE JUN 10 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 8 1968

HELIOCENTRIC CONIC DISTANCE 598.655

```
RL  151.88 LAL   -.00 LOL 258.45 VL  26.006 GAL  10.63 AZL  93.35 HCA 288.42 SMA 123.88 ECC .28879 INC 3.3512 V1  29.334
RP  107.79 LAP   3.18 LOP 186.91 VP  37.298 GAP  15.08 AZP  91.06 TAL 150.92 TAP  79.34 RCA  88.10 APO 159.66 V2  35.156
RC 166.846 GL  -14.04 GP     .48 ZAL  41.73 ZAP 174.82 ETS   3.87 ZAE 124.86 ETE 180.04 ZAC  73.77 ETC  13.21 CLP-174.85
```

PLANETOCENTRIC CONIC

```
C3  37.938 VHL  6.159 DLA -27.65 RAL 211.32 RAO 6568.5 VEL 12.622 PTH   2.29 VHP  9.545 OPA  -1.51 RAP 192.49 ECC 1.6244
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 20 37	1226.30	10.40	344.42	87.91	116.49	13 41 3	626.3	13.87	337.47
90.00	15 8 19	875.68	20.03	323.21	92.24	110.44	15 22 55	275.7	22.64	315.51
100.00	13 58 53	1102.57	6.40	333.21	85.78	119.26	14 17 16	502.6	10.25	326.54
100.00	17 12 44	5762.68	24.30	273.22	93.85	107.96	18 48 46	5162.7	26.53	265.12
110.00	14 6 25	1078.93	-.01	327.46	81.81	124.18	14 24 24	478.9	4.48	321.24
110.00	19 21 41	5359.09	31.54	244.91	96.18	103.92	20 51 0	4759.1	33.13	236.05

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-3.0870 TRA 4.7831 TC3-1.9168 BAU  .9725    SGT 6249.2 SGR  431.4 SG3  190.2     ST  3243.7 SR   427.6 SS   933.3
RDE  .4596 RRA  .0200 RC3 -.0433 FAU .01231    RRT -.3695 RRF -.3739 RTF  .9722    CRT -.8782 CRS  .8488 CST -.9982
FDE-1.0421 FRA 1.8532 FC3 -.2808 BSP  20267    SGB 6264.1 R23  .0141 R13 -.9723    LSA 3395.7 MSA  211.5 SSA   13.3
BDE 3.1210 BRA 4.7831 BC3 1.9173 FSP   -650    SG1 6251.2 SG2  400.7 THA 178.53    EL1 3265.5 EL2  203.1 ALF 173.37
```

LAUNCH DATE JUN 10 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 10 1968

HELIOCENTRIC CONIC DISTANCE 603.637
RL 151.88 LAL -.00 LOL 258.45 VL 25.973 GAL 11.47 AZL 93.34 HCA 291.65 SMA 123.68 ECC .29909 INC 3.3434 V1 29.334
RP 107.83 LAP 3.11 LOP 190.14 VP 37.264 GAP 15.81 AZP 91.24 TAL 149.80 TAP 81.45 RCA 86.69 APO 160.68 V2 35.145
RC 168.808 GL -13.21 GP .47 ZAL 40.20 ZAP 175.89 ETS 4.98 ZAE 124.60 ETE 180.02 ZAC 71.69 ETC 13.26 CLP-175.92

PLANETOCENTRIC CONIC
C3 42.216 VHL 6.497 DLA -27.34 RAL 213.08 RAD 6568.6 VEL 12.790 PTH 2.33 VHP 9.975 DPA -2.41 RAP 194.45 ECC 1.6948

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 16 15	1290.66	8.42	348.12	90.78	117.14	13 37 46	690.7	11.99	341.26
90.00	15 26 41	865.28	20.28	322.55	96.14	110.20	15 41 6	265.3	22.85	314.82
100.00	13 59 26	1151.15	4.78	335.90	88.81	119.54	14 18 37	551.1	8.67	329.28
100.00	17 26 11	5768.07	24.19	273.58	97.60	108.12	19 2 19	5168.1	26.44	265.50
110.00	14 9 48	1118.56	-1.52	329.52	84.90	124.15	14 28 27	518.6	2.97	323.32
110.00	19 32 18	5373.42	31.30	245.96	99.95	104.49	21 1 52	4773.4	32.97	237.13

DIFFERENTIAL CORRECTIONS
TOE-3.1520 TRA 5.1872 TC3-1.6883 BAU .9531
ROE .4846 RRA .0036 RC3 -.0352 FAU .01035
FOE-1.0093 FRA 1.8933 FC3 -.2123 BSP 20235
BOE 3.1891 BRA 5.1873 BC3 1.6887 FSP -616

MID-COURSE EXECUTION ACCURACY
SGT 6249.5 SGR 429.8 SG3 181.3
RRT -.3979 RRF -.4003 RTF .9731
SGB 6264.3 R23 .0126 R13 -.9731
SG1 6251.9 SG2 394.2 THA 178.43

ORBIT DETERMINATION ACCURACY
ST 3180.7 SR 427.3 SS 908.1
CRT -.8726 CRS .8433 CST -.9983
LSA 3328.3 MSA 214.8 SSA 12.9
EL1 3202.6 EL2 207.3 ALF 173.29

LAUNCH DATE JUN 10 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 12 1968

HELIOCENTRIC CONIC DISTANCE 608.464
RL 151.88 LAL -.00 LOL 258.45 VL 25.941 GAL 12.37 AZL 93.34 HCA 294.88 SMA 123.49 ECC .31036 INC 3.3353 V1 29.334
RP 107.86 LAP 3.03 LOP 193.37 VP 37.231 GAP 16.60 AZP 91.40 TAL 148.72 TAP 83.59 RCA 85.17 APO 161.82 V2 35.134
RC 170.755 GL -12.40 GP .46 ZAL 38.75 ZAP 176.96 ETS 6.98 ZAE 124.33 ETE 179.99 ZAC 69.62 ETC 13.33 CLP-177.00

PLANETOCENTRIC CONIC
C3 47.160 VHL 6.867 DLA -27.01 RAL 214.74 RAD 6568.8 VEL 12.982 PTH 2.37 VHP 10.440 DPA -3.30 RAP 196.40 ECC 1.7761

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 12 37	1352.44	6.49	351.63	93.64	117.62	13 35 9	752.4	10.13	344.85
90.00	15 43 33	859.20	20.42	322.16	99.95	110.05	15 57 52	259.2	22.97	314.42
100.00	13 59 34	1200.75	3.11	338.63	91.78	119.75	14 19 35	600.7	7.04	332.06
100.00	17 39 17	5774.16	24.06	273.98	101.32	108.30	19 15 31	5174.2	26.34	265.92
110.00	14 12 39	1159.66	-3.09	331.67	87.93	124.06	14 31 59	559.7	1.40	325.47
110.00	19 42 41	5388.01	31.05	247.02	103.68	105.07	21 12 29	4788.0	32.80	238.24

DIFFERENTIAL CORRECTIONS
TOE-3.2266 TRA 5.6142 TC3-1.4762 BAU .9309
ROE .5101 RRA -.0148 RC3 -.0283 FAU .00856
FOE -.9825 FRA 1.9346 FC3 -.1571 BSP 20308
BOE 3.2667 BRA 5.6142 BC3 1.4765 FSP -589

MID-COURSE EXECUTION ACCURACY
SGT 6244.9 SGR 427.6 SG3 172.8
RRT -.4269 RRF -.4275 RTF .9742
SGB 6259.5 R23 .0111 R13 -.9742
SG1 6247.6 SG2 386.5 THA 178.32

ORBIT DETERMINATION ACCURACY
ST 3120.7 SR 425.6 SS 887.2
CRT -.8675 CRS .8388 CST -.9984
LSA 3264.9 MSA 217.0 SSA 12.5
EL1 3142.5 EL2 210.2 ALF 173.22

LAUNCH DATE JUN 10 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 14 1968

HELIOCENTRIC CONIC DISTANCE 613.110
RL 151.88 LAL -.00 LOL 258.45 VL 25.909 GAL 13.35 AZL 93.33 HCA 298.10 SMA 123.30 ECC .32271 INC 3.3267 V1 29.334
RP 107.90 LAP 2.93 LOP 196.59 VP 37.198 GAP 17.45 AZP 91.57 TAL 147.68 TAP 85.78 RCA 83.51 APO 163.10 V2 35.122
RC 172.686 GL -11.60 GP .45 ZAL 37.38 ZAP 178.04 ETS 11.38 ZAE 124.04 ETE 179.97 ZAC 67.57 ETC 13.42 CLP-178.09

PLANETOCENTRIC CONIC
C3 52.897 VHL 7.273 DLA -26.66 RAL 216.30 RAD 6568.9 VEL 13.201 PTH 2.41 VHP 10.946 DPA -4.18 RAP 198.35 ECC 1.8705

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 9 19	1412.73	4.57	355.02	96.46	117.98	13 32 52	812.7	8.28	348.31
90.00	15 59 17	856.13	20.49	321.96	103.68	109.98	16 13 33	256.1	23.03	314.21
100.00	13 59 20	1251.19	1.40	341.41	94.71	119.86	14 20 11	651.2	5.36	334.86
100.00	17 51 57	5780.94	23.91	274.43	104.97	108.49	19 28 18	5180.9	26.22	266.39
110.00	14 14 59	1202.06	-4.70	333.89	90.91	123.90	14 35 1	602.1	-.22	327.68
110.00	19 52 47	5402.84	30.78	248.09	107.35	105.66	21 22 50	4802.8	32.62	239.36

DIFFERENTIAL CORRECTIONS
TOE-3.3068 TRA 6.0721 TC3-1.2758 BAU .9024
ROE .5358 RRA -.0357 RC3 -.0227 FAU .00679
FOE -.9595 FRA 1.9799 FC3 -.1111 BSP 20364
BOE 3.3500 BRA 6.0722 BC3 1.2760 FSP -563

MID-COURSE EXECUTION ACCURACY
SGT 6235.3 SGR 424.6 SG3 164.9
RRT -.4558 RRF -.4548 RTF .9755
SGB 6249.8 R23 .0096 R13 -.9755
SG1 6238.3 SG2 377.7 THA 178.22

ORBIT DETERMINATION ACCURACY
ST 3060.7 SR 422.2 SS 869.6
CRT -.8626 CRS .8345 CST -.9985
LSA 3202.3 MSA 218.2 SSA 12.0
EL1 3082.4 EL2 212.1 ALF 173.18

LAUNCH DATE JUN 10 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 16 1968

HELIOCENTRIC CONIC DISTANCE 617.540
RL 151.88 LAL -.00 LOL 258.45 VL 25.878 GAL 14.41 AZL 93.32 HCA 301.32 SMA 123.12 ECC .33630 INC 3.3176 V1 29.334
RP 107.94 LAP 2.83 LOP 199.82 VP 37.165 GAP 18.38 AZP 91.73 TAL 146.69 TAP 88.01 RCA 81.71 APO 164.52 V2 35.110
RC 174.603 GL -10.83 GP .44 ZAL 36.10 ZAP 179.09 ETS 26.80 ZAE 123.73 ETE 179.94 ZAC 65.53 ETC 13.55 CLP-179.20

PLANETOCENTRIC CONIC
C3 59.583 VHL 7.719 DLA -26.29 RAL 217.75 RAD 6569.1 VEL 13.451 PTH 2.46 VHP 11.497 DPA -5.05 RAP 200.28 ECC 1.9806

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 6 9	1472.07	2.67	358.35	99.24	118.20	13 30 41	872.1	6.42	351.67
90.00	16 14 4	855.32	20.51	321.91	107.33	109.96	16 28 19	255.3	23.05	314.16
100.00	13 58 43	1302.32	-.34	344.21	97.57	119.89	14 20 25	702.3	3.64	337.68
100.00	18 4 11	5788.34	23.75	274.92	108.56	108.70	19 40 39	5188.3	26.09	266.90
110.00	14 16 48	1245.56	-6.35	336.19	93.84	123.66	14 37 34	645.6	-1.88	329.95
110.00	20 2 35	5417.86	30.50	249.17	110.94	106.24	21 32 53	4817.9	32.42	240.48

DIFFERENTIAL CORRECTIONS
TOE-3.3937 TRA 6.5647 TC3-1.0876 BAU .8665
ROE .5618 RRA -.0590 RC3 -.0182 FAU .00503
FOE -.9401 FRA 2.0299 FC3 -.0731 BSP 20389
BOE 3.4399 BRA 6.5650 BC3 1.0877 FSP -538

MID-COURSE EXECUTION ACCURACY
SGT 6221.1 SGR 420.8 SG3 157.5
RRT -.4847 RRF -.4822 RTF .9770
SGB 6235.3 R23 .0080 R13 -.9770
SG1 6224.4 SG2 367.9 THA 178.12

ORBIT DETERMINATION ACCURACY
ST 3001.1 SR 417.3 SS 855.2
CRT -.8579 CRS .8306 CST -.9986
LSA 3140.7 MSA 218.4 SSA 11.6
EL1 3022.5 EL2 212.9 ALF 173.16

LAUNCH DATE JUN 11 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 20 1967

HELIOCENTRIC CONIC DISTANCE 155.262

RL	151.90	LAL	-.00	LOL	259.41	VL	21.696	GAL	3.08	AZL	93.49	HCA	60.81	SMA	103.95	ECC	.46369	INC	3.4892	V1	29.331
RP	108.93	LAP	-3.05	LOP	320.17	VP	34.057	GAP	-27.50	AZP	91.70	TAL	176.43	TAP	237.24	RCA	55.75	APO	152.15	V2	34.787
RC	45.125	GL	-9.64	GP	-.38	ZAL	82.93	ZAP	16.27	ETS	179.29	ZAE	168.57	ETE	115.26	ZAC	108.41	ETC	15.47	CLP	16.27

PLANETOCENTRIC CONIC

C3	62.052	VHL	7.877	DLA	-7.48	RAL	173.02	RAD	6569.2	VEL	13.543	PTH	2.48	VHP	16.343	DPA	11.90	RAP	159.34	ECC	2.0212

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 34 58	2261.58	-20.68	44.48	51.59	109.78	7 12 40	1661.6	-17.80	36.99
90.00	16 40 29	5373.57	27.85	245.65	57.56	84.64	18 10 3	4773.6	26.81	237.14
100.00	7 52 43	2010.76	-22.06	25.49	51.05	110.70	8 26 14	1410.8	-19.05	17.99
100.00	18 5 25	5099.63	29.31	225.34	57.39	83.85	19 30 25	4499.6	28.15	216.73
110.00	8 52 46	1822.77	-25.75	9.59	49.42	113.30	9 23 9	1222.8	-22.37	2.07
110.00	19 21 52	4860.38	33.26	206.58	56.80	81.60	20 42 52	4260.4	31.74	197.68

DIFFERENTIAL CORRECTIONS

TOE	.4436	TRA	-.9861	TC3	-.0196	BAU	.0525		
RDE	-.5338	RRA	-.2468	RC3	.0602	FAU	.01756		
FDE	-.3149	FRA	.4057	FC3	-.2450	BSP	2093		
BDE	.6941	BRA	1.0165	BC3	.0633	FSP	-100		

MID-COURSE EXECUTION ACCURACY

SGT	792.7	SGR	438.8	SG3	46.5		
RRT	.0079	RRF	-.0067	RTF	-.6496		
SGB	906.0	R23	.0007	R13	-.6496		
SG1	792.7	SG2	438.8	THA	.36		

ORBIT DETERMINATION ACCURACY

ST	388.8	SR	392.1	SS	347.5		
CRT	-.7444	CRS	-.8711	CST	.9746		
LSA	620.3	MSA	201.8	SSA	14.5		
EL1	515.7	EL2	197.4	ALF	134.68		

LAUNCH DATE JUN 11 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 22 1967

HELIOCENTRIC CONIC DISTANCE 161.724

RL	151.90	LAL	-.00	LOL	259.41	VL	22.160	GAL	2.89	AZL	93.48	HCA	63.97	SMA	105.64	ECC	.44027	INC	3.4766	V1	29.331
RP	108.93	LAP	-3.12	LOP	323.34	VP	34.357	GAP	-26.06	AZP	91.53	TAL	176.32	TAP	240.29	RCA	59.13	APO	152.14	V2	34.790
RC	44.335	GL	-10.42	GP	-.39	ZAL	82.87	ZAP	14.63	ETS	178.99	ZAE	169.07	ETE	102.80	ZAC	106.95	ETC	15.26	CLP	14.63

PLANETOCENTRIC CONIC

C3	55.048	VHL	7.419	DLA	-8.23	RAL	172.77	RAD	6569.0	VEL	13.282	PTH	2.43	VHP	15.550	DPA	11.32	RAP	160.78	ECC	1.9059

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 39 51	2208.25	-19.41	41.08	49.19	111.03	7 16 39	1608.2	-16.38	33.72
90.00	16 33 38	5368.36	27.81	245.27	55.45	84.46	18 3 7	4768.4	26.75	236.77
100.00	7 57 13	1958.68	-20.77	22.16	48.63	112.00	8 29 51	1358.7	-17.60	14.80
100.00	17 58 58	5093.16	29.26	224.86	55.27	83.60	19 23 51	4493.2	28.07	216.26
110.00	8 56 22	1773.43	-24.38	6.41	46.94	114.73	9 25 56	1173.4	-20.84	359.06
110.00	19 16 18	4851.17	33.16	205.88	54.66	81.20	20 37 9	4251.2	31.59	197.01

DIFFERENTIAL CORRECTIONS

TOE	.4442	TRA	-.9661	TC3	-.0033	BAU	.0504		
RDE	-.5054	RRA	-.2321	RC3	.0684	FAU	.01825		
FDE	-.3327	FRA	.4128	FC3	-.2870	BSP	2233		
BDE	.6728	BRA	.9936	BC3	.0685	FSP	-112		

MID-COURSE EXECUTION ACCURACY

SGT	828.2	SGR	442.1	SG3	51.2		
RRT	.0059	RRF	-.0050	RTF	-.6700		
SGB	938.8	R23	.0005	R13	-.6700		
SG1	828.2	SG2	442.1	THA	.25		

ORBIT DETERMINATION ACCURACY

ST	410.8	SR	394.1	SS	369.1		
CRT	-.7510	CRS	-.8771	CST	.9741		
LSA	647.0	MSA	203.8	SSA	14.8		
EL1	532.7	EL2	200.7	ALF	136.59		

LAUNCH DATE JUN 11 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 24 1967

HELIOCENTRIC CONIC DISTANCE 168.232

RL	151.90	LAL	-.00	LOL	259.41	VL	22.590	GAL	2.68	AZL	93.46	HCA	67.13	SMA	107.28	ECC	.41811	INC	3.4647	V1	29.331
RP	108.92	LAP	-3.19	LOP	326.50	VP	34.639	GAP	-24.70	AZP	91.35	TAL	176.26	TAP	243.40	RCA	62.42	APO	152.13	V2	34.793
RC	43.707	GL	-11.24	GP	-.41	ZAL	82.93	ZAP	12.99	ETS	178.62	ZAE	169.06	ETE	89.25	ZAC	105.48	ETC	15.06	CLP	12.98

PLANETOCENTRIC CONIC

C3	48.925	VHL	6.995	DLA	-8.97	RAL	172.40	RAD	6568.8	VEL	13.049	PTH	2.38	VHP	14.790	DPA	10.74	RAP	162.21	ECC	1.8052

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 44 9	2155.28	-18.09	37.76	46.73	112.17	7 20 5	1555.3	-14.92	30.51
90.00	16 26 21	5362.78	27.78	244.87	53.19	84.26	17 55 44	4762.8	26.69	236.37
100.00	8 1 8	1906.97	-19.42	18.92	46.15	113.18	8 32 55	1307.0	-16.11	11.68
100.00	17 52 4	5086.32	29.21	224.36	53.01	83.34	19 16 51	4486.3	27.98	215.77
110.00	8 59 25	1724.46	-22.95	3.33	44.41	116.05	9 28 9	1124.5	-19.26	356.14
110.00	19 10 17	4841.59	33.06	205.15	52.39	80.78	20 30 58	4241.6	31.44	196.30

DIFFERENTIAL CORRECTIONS

TOE	.4461	TRA	-.9445	TC3	.0180	BAU	.0519		
RDE	-.4780	RRA	-.2179	RC3	.0773	FAU	.01903		
FDE	-.3523	FRA	.4189	FC3	-.3368	BSP	2384		
BDE	.6538	BRA	.9693	BC3	.0794	FSP	-126		

MID-COURSE EXECUTION ACCURACY

SGT	864.7	SGR	444.6	SG3	56.4		
RRT	.0030	RRF	-.0026	RTF	-.6900		
SGB	972.3	R23	.0003	R13	-.6900		
SG1	864.7	SG2	444.6	THA	.12		

ORBIT DETERMINATION ACCURACY

ST	434.5	SR	395.3	SS	392.4		
CRT	-.7590	CRS	-.8837	CST	.9739		
LSA	675.9	MSA	204.8	SSA	15.1		
EL1	551.2	EL2	202.9	ALF	138.55		

LAUNCH DATE JUN 11 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 26 1967

HELIOCENTRIC CONIC DISTANCE 174.782

RL	151.90	LAL	-.00	LOL	259.41	VL	22.987	GAL	2.46	AZL	93.45	HCA	70.30	SMA	108.87	ECC	.39717	INC	3.4534	V1	29.331
RP	108.90	LAP	-3.25	LOP	329.67	VP	34.903	GAP	-23.40	AZP	91.17	TAL	176.26	TAP	246.56	RCA	65.63	APO	152.11	V2	34.797
RC	43.245	GL	-12.10	GP	-.43	ZAL	83.12	ZAP	11.35	ETS	178.17	ZAE	168.50	ETE	75.95	ZAC	104.02	ETC	14.88	CLP	11.34

PLANETOCENTRIC CONIC

C3	43.573	VHL	6.601	DLA	-9.68	RAL	171.90	RAD	6568.7	VEL	12.843	PTH	2.34	VHP	14.062	DPA	10.16	RAP	163.63	ECC	1.7171

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 47 52	2102.94	-16.71	34.53	44.22	113.20	7 22 55	1502.9	-13.43	27.40
90.00	16 18 38	5356.98	27.74	244.45	50.81	84.05	17 47 55	4757.0	26.62	235.96
100.00	8 4 27	1855.89	-18.02	15.77	43.62	114.26	8 35 23	1255.9	-14.59	8.65
100.00	17 44 45	5079.27	29.15	223.84	50.63	83.08	19 9 24	4479.3	27.89	215.27
110.00	9 1 51	1676.11	-21.48	.35	41.84	117.26	9 29 47	1076.1	-17.65	353.31
110.00	19 3 49	4831.81	32.95	204.41	49.99	80.35	20 24 21	4231.8	31.27	195.59

DIFFERENTIAL CORRECTIONS

TOE	.4477	TRA	-.9226	TC3	.0439	BAU	.0568		
RDE	-.4517	RRA	-.2041	RC3	.0870	FAU	.01989		
FDE	-.3730	FRA	.4245	FC3	-.3952	BSP	2521		
BDE	.6360	BRA	.9449	BC3	.0974	FSP	-142		

MID-COURSE EXECUTION ACCURACY

SGT	902.4	SGR	446.3	SG3	62.1		
RRT	.0007	RRF	-.0005	RTF	-.7087		
SGB	1006.8	R23	.0002	R13	-.7087		
SG1	902.4	SG2	446.3	THA	.03		

ORBIT DETERMINATION ACCURACY

ST	458.7	SR	395.7	SS	416.7		
CRT	-.7668	CRS	-.8902	CST	.9736		
LSA	705.9	MSA	205.3	SSA	15.4		
EL1	570.4	EL2	204.3	ALF	140.47		

LAUNCH DATE JUN 11 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 28 1967

HELIOCENTRIC CONIC DISTANCE 181.369

RL 151.90 LAL -.00 LOL 259.41 VL 23.355 GAL 2.23 AZL 93.44 HCA 73.46 SMA 110.41 ECC .37745 INC 3.4424 V1 29.331
RP 108.89 LAP -3.30 LOP 332.84 VP 35.151 GAP -22.16 AZP 90.98 TAL 176.32 TAP 249.78 RCA 68.74 APO 152.09 V2 34.801
RC 42.956 GL -12.98 GP -.45 ZAL 83.43 ZAP 9.69 ETS 177.58 ZAE 167.41 ETE 64.13 ZAC 102.57 ETC 14.71 CLP 9.68

PLANETOCENTRIC CONIC

C3 38.896 VHL 6.237 DLA -10.38 RAL 171.26 RAD 6568.5 VEL 12.660 PTH 2.30 VHP 13.363 DPA 9.57 RAP 165.04 ECC 1.6401

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 50 58	2051.51	-15.31	31.41	41.66	114.12	7 25 9	1451.5	-11.92	24.37
90.00	16 10 30	5351.12	27.69	244.03	48.32	83.84	17 39 41	4751.1	26.55	235.55
100.00	8 7 9	1805.71	-16.59	12.73	41.05	115.23	8 37 15	1205.7	-13.05	5.72
100.00	17 37 0	5072.15	29.09	223.32	48.14	82.81	19 1 32	4472.1	27.79	214.76
110.00	9 3 42	1628.65	-19.97	357.50	39.25	118.34	9 30 50	1028.7	-16.03	350.59
110.00	18 56 56	4821.98	32.84	203.66	47.48	79.92	20 17 18	4222.0	31.10	194.87

DIFFERENTIAL CORRECTIONS
TDE .4503 TRA -.8993 TC3 .0758 BAU .0641
RDE -.4264 RRA -.1908 RC3 .0973 FAU .02084
FDE -.3957 FRA .4289 FC3 -.4638 BSP 2673
BDE .6202 BRA .9193 BC3 .1233 FSP -159

MID-COURSE EXECUTION ACCURACY
SGT 941.0 SGR 447.2 SG3 68.4
RRT -.0023 RRF .0024 RTF -.7266
SGB 1041.8 R23 -.0002 R13 .7266
SG1 941.0 SG2 447.2 THA 179.92

ORBIT DETERMINATION ACCURACY
ST 484.4 SR 395.4 SS 442.5
CRT -.7758 CRS -.8970 CST .9734
LSA 738.0 MSA 204.9 SSA 15.7
EL1 590.9 EL2 204.5 ALF 142.38

LAUNCH DATE JUN 11 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 30 1967

HELIOCENTRIC CONIC DISTANCE 187.987

RL 151.90 LAL -.00 LOL 259.41 VL 23.694 GAL 1.99 AZL 93.43 HCA 76.62 SMA 111.90 ECC .35891 INC 3.4319 V1 29.331
RP 108.87 LAP -3.34 LOP 336.01 VP 35.383 GAP -20.98 AZP 90.79 TAL 176.43 TAP 253.05 RCA 71.74 APO 152.06 V2 34.806
RC 42.841 GL -13.90 GP -.48 ZAL 83.87 ZAP 8.03 ETS 176.76 ZAE 165.92 ETE 54.32 ZAC 101.12 ETC 14.55 CLP 8.01

PLANETOCENTRIC CONIC

C3 34.813 VHL 5.900 DLA -11.05 RAL 170.50 RAD 6568.4 VEL 12.497 PTH 2.26 VHP 12.692 DPA 8.97 RAP 166.43 ECC 1.5729

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 53 25	2001.29	-13.89	28.41	39.06	114.93	7 26 46	1401.3	-10.41	21.45
90.00	16 1 57	5345.30	27.65	243.61	45.74	83.63	17 31 3	4745.3	26.48	235.14
100.00	8 9 13	1756.74	-15.14	9.81	38.[illegible]4	116.08	8 38 30	1156.7	-11.51	2.90
100.00	17 28 51	5065.08	29.03	222.81	45.55	82.54	18 53 16	4465.1	27.69	214.26
110.00	9 4 54	1582.35	-18.45	354.77	36.63	119.30	9 31 17	982.4	-14.41	347.99
110.00	18 49 39	4812.23	32.72	202.93	44.87	79.50	20 9 51	4212.2	30.93	194.17

DIFFERENTIAL CORRECTIONS
TDE .4542 TRA -.8742 TC3 .1153 BAU .0736
RDE -.4024 RRA -.1779 RC3 .1082 FAU .02192
FDE -.4209 FRA .4320 FC3 -.5452 BSP 2828
BDE .6068 BRA .8922 BC3 .1581 FSP -179

MID-COURSE EXECUTION ACCURACY
SGT 980.4 SGR 447.2 SG3 75.5
RRT -.0062 RRF .0059 RTF -.7441
SGB 1077.6 R23 -.0001 R13 .7441
SG1 980.4 SG2 447.2 THA 179.79

ORBIT DETERMINATION ACCURACY
ST 511.8 SR 394.3 SS 470.2
CRT -.7861 CRS -.9041 CST .9735
LSA 772.6 MSA 203.4 SSA 16.1
EL1 613.2 EL2 203.4 ALF 144.27

LAUNCH DATE JUN 11 1967 FLIGHT TIME 82.00 ARRIVAL DATE SEP 1 1967

HELIOCENTRIC CONIC DISTANCE 194.632

RL 151.90 LAL -.00 LOL 259.41 VL 24.008 GAL 1.76 AZL 93.42 HCA 79.79 SMA 113.33 ECC .34154 INC 3.4216 V1 29.331
RP 108.86 LAP -3.37 LOP 339.18 VP 35.599 GAP -19.85 AZP 90.61 TAL 176.60 TAP 256.39 RCA 74.62 APO 152.04 V2 34.812
RC 42.900 GL -14.84 GP -.50 ZAL 84.43 ZAP 6.35 ETS 175.53 ZAE 164.16 ETE 46.44 ZAC 99.70 ETC 14.40 CLP 6.33

PLANETOCENTRIC CONIC

C3 31.251 VHL 5.590 DLA -11.69 RAL 169.61 RAD 6568.2 VEL 12.354 PTH 2.23 VHP 12.048 DPA 8.37 RAP 167.80 ECC 1.5143

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 55 13	1952.56	-12.47	25.53	36.43	115.63	7 27 46	1352.6	-8.92	18.65
90.00	15 53 3	5339.62	27.61	243.20	43.07	83.43	17 22 3	4739.6	26.41	234.73
100.00	8 10 38	1709.25	-13.70	7.02	35.81	116.83	8 39 7	1109.2	-9.99	.19
100.00	17 20 19	5058.16	28.97	222.30	42.88	82.28	18 44 37	4458.2	27.60	213.77
110.00	9 5 28	1537.50	-16.94	352.17	33.99	120.15	9 31 6	937.5	-12.80	345.50
110.00	18 41 58	4802.68	32.60	202.21	42.19	79.09	20 2 1	4202.7	30.75	193.48

DIFFERENTIAL CORRECTIONS
TDE .4580 TRA -.8489 TC3 .1613 BAU .0839
RDE -.3795 RRA -.1656 RC3 .1196 FAU .02313
FDE -.4483 FRA .4343 FC3 -.6409 BSP 2981
BDE .5948 BRA .8649 BC3 .2008 FSP -201

MID-COURSE EXECUTION ACCURACY
SGT 1020.9 SGR 446.4 SG3 83.4
RRT -.0098 RRF .0095 RTF -.7601
SGB 1114.2 R23 -.0003 R13 .7601
SG1 1020.9 SG2 446.4 THA 179.70

ORBIT DETERMINATION ACCURACY
ST 539.8 SR 392.5 SS 499.5
CRT -.7963 CRS -.9111 CST .9736
LSA 808.7 MSA 201.5 SSA 16.4
EL1 636.3 EL2 201.4 ALF 146.08

LAUNCH DATE JUN 11 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 3 1967

HELIOCENTRIC CONIC DISTANCE 201.299

RL 151.90 LAL -.00 LOL 259.41 VL 24.297 GAL 1.52 AZL 93.41 HCA 82.96 SMA 114.70 ECC .32529 INC 3.4115 V1 29.331
RP 108.84 LAP -3.39 LOP 342.35 VP 35.801 GAP -18.76 AZP 90.42 TAL 176.84 TAP 259.79 RCA 77.39 APO 152.01 V2 34.819
RC 43.133 GL -15.81 GP -.53 ZAL 85.12 ZAP 4.65 ETS 173.41 ZAE 162.24 ETE 40.19 ZAC 98.29 ETC 14.26 CLP 4.62

PLANETOCENTRIC CONIC

C3 28.146 VHL 5.305 DLA -12.31 RAL 168.59 RAD 6568.1 VEL 12.228 PTH 2.20 VHP 11.431 DPA 7.78 RAP 169.15 ECC 1.4632

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 56 20	1905.63	-11.07	22.79	33.78	116.23	7 28 6	1305.6	-7.46	15.98
90.00	15 43 49	5334.13	27.56	242.80	40.34	83.24	17 12 43	4734.1	26.34	234.35
100.00	8 11 23	1663.53	-12.28	4.37	33.15	117.47	8 39 6	1063.5	-8.51	357.61
100.00	17 11 28	5051.46	28.91	221.81	40.14	82.03	18 35 39	4451.5	27.50	213.29
110.00	9 5 24	1494.36	-15.44	349.72	31.33	120.88	9 30 18	894.4	-11.24	343.14
110.00	18 33 56	4793.39	32.48	201.51	39.44	78.70	19 53 50	4193.4	30.58	192.81

DIFFERENTIAL CORRECTIONS
TDE .4629 TRA -.8220 TC3 .2153 BAU .0949
RDE -.3579 RRA -.1539 RC3 .1314 FAU .02448
FDE -.4788 FRA .4351 FC3 -.7529 BSP 3136
BDE .5851 BRA .8363 BC3 .2522 FSP -225

MID-COURSE EXECUTION ACCURACY
SGT 1062.0 SGR 444.7 SG3 92.1
RRT -.0145 RRF .0141 RTF -.7754
SGB 1151.3 R23 -.0005 R13 .7754
SG1 1062.0 SG2 444.7 THA 179.58

ORBIT DETERMINATION ACCURACY
ST 569.5 SR 389.9 SS 530.7
CRT -.8075 CRS -.9183 CST .9738
LSA 847.5 MSA 198.7 SSA 16.8
EL1 661.1 EL2 198.1 ALF 147.83

LAUNCH DATE JUN 11 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 5 1967

DISTANCE 207.985

HELIOCENTRIC CONIC
RL 151.90 LAL -.00 LOL 259.41 VL 24.564 GAL 1.29 AZL 93.40 HCA 86.12 SMA 116.00 ECC .31015 INC 3.4015 V1 29.331
RP 108.81 LAP -3.39 LOP 345.53 VP 35.990 GAP -17.73 AZP 90.23 TAL 177.12 TAP 263.25 RCA 80.03 APO 151.98 V2 34.826
RC 43.534 GL -16.79 GP -.56 ZAL 85.92 ZAP 2.94 ETS 168.81 ZAE 160.26 ETE 35.19 ZAC 96.91 ETC 14.14 CLP 2.88

PLANETOCENTRIC CONIC
C3 25.444 VHL 5.044 DLA -12.89 RAL 167.46 RAD 6568.0 VEL 12.117 PTH 2.17 VHP 10.838 DPA 7.19 RAP 170.46 ECC 1.4187

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 56 47	1860.79	-9.71	20.20	31.11	116.73	7 27 47	1260.8	-6.05	13.44
90.00	15 34 19	5328.87	27.52	242.42	37.56	83.05	17 3 8	4728.9	26.27	233.98
100.00	8 11 27	1619.88	-10.90	1.87	30.48	118.01	8 38 27	1019.9	-7.07	355.17
100.00	17 2 20	5045.01	28.84	221.34	37.36	81.79	18 26 25	4445.0	27.41	212.84
110.00	9 4 40	1453.21	-13.99	347.41	28.67	121.51	9 28 53	853.2	-9.72	340.91
110.00	18 25 37	4784.44	32.36	200.84	36.64	78.32	19 45 21	4184.4	30.41	192.17

DIFFERENTIAL CORRECTIONS
TDE .4661 TRA -.7961 TC3 .2744 BAU .1053
RDE -.3375 RRA -.1427 RC3 .1433 FAU .02597
FDE -.5118 FRA .4354 FC3 -.8837 BSP 3251
BDE .5754 BRA .8088 BC3 .3096 FSP -252

MID-COURSE EXECUTION ACCURACY
SGT 1103.4 SGR 442.2 SG3 101.9
RRT -.0179 RRF .0185 RTF -.7881
SGB 1188.7 R23 -.0018 R13 .7881
SG1 1103.4 SG2 442.1 THA 179.51

ORBIT DETERMINATION ACCURACY
ST 598.1 SR 386.6 SS 563.2
CRT -.8174 CRS -.9252 CST .9737
LSA 886.4 MSA 196.1 SSA 17.2
EL1 685.2 EL2 194.4 ALF 149.43

LAUNCH DATE JUN 11 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 7 1967

DISTANCE 214.686

HELIOCENTRIC CONIC
RL 151.90 LAL -.00 LOL 259.41 VL 24.810 GAL 1.06 AZL 93.39 HCA 89.29 SMA 117.25 ECC .29606 INC 3.3916 V1 29.331
RP 108.79 LAP -3.39 LOP 348.70 VP 36.165 GAP -16.73 AZP 90.04 TAL 177.47 TAP 266.76 RCA 82.54 APO 151.96 V2 34.834
RC 44.099 GL -17.78 GP -.60 ZAL 86.83 ZAP 1.26 ETS 151.43 ZAE 158.29 ETE 31.16 ZAC 95.56 ETC 14.03 CLP 1.11

PLANETOCENTRIC CONIC
C3 23.094 VHL 4.806 DLA -13.43 RAL 166.21 RAD 6567.9 VEL 12.020 PTH 2.15 VHP 10.269 DPA 6.60 RAP 171.74 ECC 1.3801

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 56 31	1818.33	-8.40	17.77	28.43	117.14	7 26 49	1218.3	-4.70	11.05
90.00	15 24 38	5323.79	27.48	242.06	34.74	82.88	16 53 21	4723.8	26.21	233.62
100.00	8 10 49	1578.56	-9.57	359.52	27.81	118.46	8 37 8	978.6	-5.69	352.88
100.00	16 53 0	5038.79	28.78	220.89	34.54	81.56	18 16 59	4438.8	27.32	212.40
110.00	9 3 16	1414.30	-12.60	345.26	26.01	122.04	9 26 50	814.3	-8.27	338.83
110.00	18 17 2	4775.82	32.23	200.20	33.81	77.95	19 36 38	4175.8	30.24	191.55

DIFFERENTIAL CORRECTIONS
TDE .4711 TRA -.7675 TC3 .3439 BAU .1165
RDE -.3184 RRA -.1321 RC3 .1550 FAU .02766
FDE -.5487 FRA .4333 FC3-1.0367 BSP 3399
BDE .5686 BRA .7788 BC3 .3773 FSP -283

MID-COURSE EXECUTION ACCURACY
SGT 1144.5 SGR 438.7 SG3 112.8
RRT -.0231 RRF .0242 RTF -.8011
SGB 1225.7 R23 -.0025 R13 .8012
SG1 1144.5 SG2 438.6 THA 179.40

ORBIT DETERMINATION ACCURACY
ST 628.7 SR 382.7 SS 598.0
CRT -.8290 CRS -.9322 CST .9740
LSA 928.4 MSA 192.5 SSA 17.5
EL1 711.2 EL2 189.2 ALF 150.98

LAUNCH DATE JUN 11 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 9 1967

DISTANCE 221.396

HELIOCENTRIC CONIC
RL 151.90 LAL -.00 LOL 259.41 VL 25.035 GAL .84 AZL 93.38 HCA 92.46 SMA 118.43 ECC .28299 INC 3.3817 V1 29.331
RP 108.76 LAP -3.38 LOP 351.88 VP 36.329 GAP -15.78 AZP 89.85 TAL 177.87 TAP 270.33 RCA 84.91 APO 151.94 V2 34.842
RC 44.820 GL -18.77 GP -.64 ZAL 87.84 ZAP .95 ETS 42.30 ZAE 156.39 ETE 27.85 ZAC 94.25 ETC 13.93 CLP -.70

PLANETOCENTRIC CONIC
C3 21.055 VHL 4.589 DLA -13.94 RAL 164.86 RAD 6567.9 VEL 11.935 PTH 2.12 VHP 9.723 DPA 6.02 RAP 172.98 ECC 1.3465

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 55 33	1778.50	-7.16	15.50	25.76	117.47	7 25 11	1178.5	-3.42	8.82
90.00	15 14 49	5318.88	27.44	241.70	31.91	82.70	16 43 28	4718.9	26.14	233.28
100.00	8 9 31	1539.83	-8.30	357.34	25.14	118.82	8 35 11	939.8	-4.39	350.73
100.00	16 43 32	5032.78	28.72	220.46	31.70	81.34	18 7 25	4432.8	27.23	211.97
110.00	9 1 14	1377.84	-11.27	343.27	23.35	122.49	9 24 12	777.8	-6.91	336.89
110.00	18 8 18	4767.53	32.12	199.58	30.97	77.61	19 27 46	4167.5	30.08	190.96

DIFFERENTIAL CORRECTIONS
TDE .4780 TRA -.7359 TC3 .4242 BAU .1283
RDE -.3004 RRA -.1221 RC3 .1664 FAU .02954
FDE -.5892 FRA .4302 FC3-1.2147 BSP 3563
BDE .5646 BRA .7459 BC3 .4557 FSP -319

MID-COURSE EXECUTION ACCURACY
SGT 1185.0 SGR 434.4 SG3 124.9
RRT -.0307 RRF .0301 RTF -.8155
SGB 1262.1 R23 -.0012 R13 .8155
SG1 1185.0 SG2 434.2 THA 179.25

ORBIT DETERMINATION ACCURACY
ST 661.1 SR 378.1 SS 634.2
CRT -.8420 CRS -.9389 CST .9751
LSA 973.0 MSA 187.6 SSA 17.8
EL1 739.5 EL2 182.4 ALF 152.47

LAUNCH DATE JUN 11 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 11 1967

DISTANCE 228.113

HELIOCENTRIC CONIC
RL 151.90 LAL -.00 LOL 259.41 VL 25.243 GAL .63 AZL 93.37 HCA 95.64 SMA 119.54 ECC .27090 INC 3.3718 V1 29.331
RP 108.74 LAP -3.36 LOP 355.06 VP 36.480 GAP -14.86 AZP 89.67 TAL 178.31 TAP 273.95 RCA 87.16 APO 151.92 V2 34.851
RC 45.690 GL -19.76 GP -.69 ZAL 88.94 ZAP 2.64 ETS 14.66 ZAE 154.60 ETE 25.09 ZAC 92.99 ETC 13.85 CLP -2.55

PLANETOCENTRIC CONIC
C3 19.287 VHL 4.392 DLA -14.39 RAL 163.42 RAD 6567.8 VEL 11.860 PTH 2.10 VHP 9.200 DPA 5.45 RAP 174.17 ECC 1.3174

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 53 53	1741.55	-5.99	13.41	23.10	117.73	7 22 54	1141.5	-2.23	6.75
90.00	15 4 59	5314.04	27.39	241.36	29.08	82.53	16 33 33	4714.0	26.08	232.94
100.00	8 7 32	1503.91	-7.12	355.33	22.48	119.11	8 32 36	903.9	-3.18	348.75
100.00	16 34 1	5026.91	28.66	220.03	28.87	81.12	17 57 48	4426.9	27.14	211.56
110.00	8 58 34	1344.05	-10.03	341.44	20.71	122.85	9 20 58	744.0	-5.63	335.11
110.00	17 59 28	4759.53	32.00	198.99	28.13	77.27	19 18 48	4159.5	29.91	190.40

DIFFERENTIAL CORRECTIONS
TDE .4844 TRA -.7059 TC3 .5122 BAU .1397
RDE -.2838 RRA -.1127 RC3 .1769 FAU .03175
FDE -.6357 FRA .4242 FC3-1.4251 BSP 3743
BDE .5614 BRA .7149 BC3 .5419 FSP -359

MID-COURSE EXECUTION ACCURACY
SGT 1227.1 SGR 429.2 SG3 138.8
RRT -.0375 RRF .0375 RTF -.8270
SGB 1300.0 R23 -.0021 R13 .8271
SG1 1227.2 SG2 428.9 THA 179.14

ORBIT DETERMINATION ACCURACY
ST 693.4 SR 373.0 SS 673.8
CRT -.8539 CRS -.9457 CST .9756
LSA 1019.8 MSA 183.4 SSA 18.2
EL1 767.6 EL2 175.4 ALF 153.86

LAUNCH DATE JUN 11 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 13 1967

HELIOCENTRIC CONIC DISTANCE 234.834

RL 151.90 LAL -.00 LOL 259.41 VL 25.433 GAL .42 AZL 93.36 HCA 98.81 SMA 120.59 ECC .25975 INC 3.3617 VI 29.331
RP 108.71 LAP -3.32 LOP 358.24 VP 36.621 GAP -13.98 AZP 89.48 TAL 178.81 TAP 277.62 RCA 89.26 APO 151.91 V2 34.860
RC 46.700 GL -20.73 GP -.74 ZAL 90.12 ZAP 4.53 ETS 8.91 ZAE 152.96 ETE 22.77 ZAC 91.78 ETC 13.77 CLP -4.47

PLANETOCENTRIC CONIC

C3 17.758 VHL 4.214 DLA -14.80 RAL 161.90 RAD 6567.7 VEL 11.796 PTH 2.09 VHP 8.698 DPA 4.89 RAP 175.31 ECC 1.2923

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 51 33	1707.66	-4.92	11.51	20.46	117.92	7 20 0	1107.7	-1.14	4.86
90.00	14 55 14	5309.18	27.35	241.01	26.26	82.36	16 23 43	4709.2	26.01	232.60
100.00	8 4 54	1470.97	-6.02	353.50	19.85	119.33	8 29 25	871.0	-2.07	346.94
100.00	16 24 34	5021.11	28.60	219.61	26.05	80.91	17 48 15	4421.1	27.05	211.15
110.00	8 55 19	1313.06	-8.88	339.77	18.10	123.15	9 17 12	713.1	-4.46	333.48
110.00	17 50 39	4751.78	31.88	198.41	25.31	76.95	19 9 50	4151.8	29.76	189.85

DIFFERENTIAL CORRECTIONS
TDE .4895 TRA -.6754 TC3 .6053 BAU .1504
RDE -.2683 RRA -.1038 RC3 .1863 FAU .03420
FDE -.6864 FRA .4175 FC3-1.6674 BSP 3871
BDE .5582 BRA -.6833 BC3 .6333 FSP -404

MID-COURSE EXECUTION ACCURACY
SGT 1267.0 SGR 423.1 SG3 154.3
RRT -.0447 RRF .0450 RTF -.8376
SGB 1335.8 R23 -.0029 R13 .8377
SG1 1267.1 SG2 422.6 THA 179.04

ORBIT DETERMINATION ACCURACY
ST 724.1 SR 367.4 SS 714.4
CRT -.8653 CRS -.9519 CST .9761
LSA 1066.5 MSA 179.1 SSA 18.5
EL1 794.4 EL2 167.9 ALF 155.11

LAUNCH DATE JUN 11 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 15 1967

HELIOCENTRIC CONIC DISTANCE 241.555

RL 151.90 LAL -.00 LOL 259.41 VL 25.607 GAL .22 AZL 93.35 HCA 101.99 SMA 121.57 ECC .24951 INC 3.3515 VI 29.331
RP 108.68 LAP -3.28 LOP 1.42 VP 36.752 GAP -13.13 AZP 89.30 TAL 179.34 TAP 281.32 RCA 91.24 APO 151.90 V2 34.870
RC 47.841 GL -21.67 GP -.79 ZAL 91.35 ZAP 6.49 ETS 6.49 ZAE 151.50 ETE 20.79 ZAC 90.63 ETC 13.71 CLP -6.44

PLANETOCENTRIC CONIC

C3 16.438 VHL 4.054 DLA -15.16 RAL 160.33 RAD 6567.7 VEL 11.740 PTH 2.07 VHP 8.217 DPA 4.36 RAP 176.39 ECC 1.2705

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 48 34	1676.98	-3.94	9.79	17.87	118.06	7 16 31	1077.0	-.15	3.15
90.00	14 45 40	5304.23	27.31	240.65	23.49	82.19	16 14 5	4704.2	25.94	232.25
100.00	8 1 40	1441.14	-5.03	351.85	17.26	119.51	8 25 41	841.1	-1.06	345.31
100.00	16 15 16	5015.30	28.54	219.19	23.28	80.70	17 38 51	4415.3	26.96	210.74
110.00	8 51 31	1284.99	-7.83	338.28	15.54	123.38	9 12 56	685.0	-3.39	332.01
110.00	17 41 54	4744.22	31.76	197.86	22.53	76.64	19 0 59	4144.2	29.60	189.31

DIFFERENTIAL CORRECTIONS
TDE .4913 TRA -.6464 TC3 .6897 BAU .1575
RDE -.2539 RRA -.0956 RC3 .1944 FAU .03676
FDE -.7414 FRA .4088 FC3-1.9359 BSP 3919
BDE .5530 BRA .6534 BC3 .7166 FSP -452

MID-COURSE EXECUTION ACCURACY
SGT 1300.1 SGR 416.2 SG3 171.1
RRT -.0527 RRF .0542 RTF -.8436
SGB 1365.1 R23 -.0047 R13 .8437
SG1 1300.3 SG2 415.5 THA 178.92

ORBIT DETERMINATION ACCURACY
ST 750.2 SR 361.3 SS 755.4
CRT -.8747 CRS -.9577 CST .9760
LSA 1110.3 MSA 176.0 SSA 18.8
EL1 817.0 EL2 160.8 ALF 156.18

LAUNCH DATE JUN 11 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 17 1967

HELIOCENTRIC CONIC DISTANCE 248.273

RL 151.90 LAL -.00 LOL 259.41 VL 25.767 GAL .03 AZL 93.34 HCA 105.16 SMA 122.49 ECC .24012 INC 3.3410 VI 29.331
RP 108.64 LAP -3.22 LOP 4.60 VP 36.873 GAP -12.31 AZP 89.12 TAL 179.90 TAP 285.06 RCA 93.07 APO 151.90 V2 34.881
RC 49.103 GL -22.58 GP -.86 ZAL 92.64 ZAP 8.53 ETS 5.16 ZAE 150.23 ETE 19.08 ZAC 89.55 ETC 13.66 CLP -8.49

PLANETOCENTRIC CONIC

C3 15.300 VHL 3.911 DLA -15.47 RAL 158.72 RAD 6567.6 VEL 11.691 PTH 2.06 VHP 7.757 DPA 3.84 RAP 177.40 ECC 1.2518

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 45 0	1649.59	-3.06	8.25	15.32	118.17	7 12 30	1049.6	.73	1.62
90.00	14 36 24	5299.07	27.26	240.28	20.77	82.01	16 4 43	4699.1	25.87	231.89
100.00	7 57 52	1414.51	-4.13	350.38	14.73	119.63	8 21 26	814.5	-.16	343.84
100.00	16 6 14	5009.38	28.47	218.76	20.56	80.48	17 29 43	4409.4	26.86	210.33
110.00	8 47 14	1259.88	-6.89	336.94	13.03	123.56	9 8 14	659.9	-2.43	330.70
110.00	17 33 21	4736.77	31.64	197.31	19.81	76.34	18 52 18	4136.8	29.44	188.79

DIFFERENTIAL CORRECTIONS
TDE .4888 TRA -.6269 TC3 .7489 BAU .1586
RDE -.2405 RRA -.0877 RC3 .2011 FAU .03926
FDE -.7922 FRA .4099 FC3-2.2213 BSP 3883
BDE .5447 BRA .6330 BC3 .7755 FSP -503

MID-COURSE EXECUTION ACCURACY
SGT 1328.0 SGR 408.2 SG3 188.4
RRT -.0609 RRF .0588 RTF -.8435
SGB 1389.3 R23 -.0021 R13 .8435
SG1 1328.3 SG2 407.4 THA 178.82

ORBIT DETERMINATION ACCURACY
ST 771.1 SR 354.6 SS 788.5
CRT -.8804 CRS -.9614 CST .9757
LSA 1145.1 MSA 174.7 SSA 19.1
EL1 834.4 EL2 155.4 ALF 157.12

LAUNCH DATE JUN 11 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 19 1967

HELIOCENTRIC CONIC DISTANCE 254.985

RL 151.90 LAL -.00 LOL 259.41 VL 25.912 GAL -.15 AZL 93.33 HCA 108.34 SMA 123.34 ECC .23154 INC 3.3302 VI 29.331
RP 108.61 LAP -3.16 LOP 7.78 VP 36.985 GAP -11.52 AZP 88.95 TAL 180.49 TAP 288.83 RCA 94.78 APO 151.90 V2 34.891
RC 50.476 GL -23.44 GP -.93 ZAL 93.95 ZAP 10.66 ETS 4.32 ZAE 149.18 ETE 17.59 ZAC 88.55 ETC 13.62 CLP -10.62

PLANETOCENTRIC CONIC

C3 14.320 VHL 3.784 DLA -15.73 RAL 157.09 RAD 6567.6 VEL 11.649 PTH 2.05 VHP 7.317 DPA 3.34 RAP 178.33 ECC 1.2357

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 40 53	1625.59	-2.28	6.91	12.85	118.23	7 7 59	1025.6	1.51	.28
90.00	14 27 31	5293.55	27.20	239.89	18.13	81.82	15 55 44	4693.5	25.79	231.50
100.00	7 53 33	1391.14	-3.34	349.09	12.26	119.72	8 16 44	791.1	.64	342.56
100.00	15 57 32	5003.23	28.40	218.32	17.91	80.26	17 20 55	4403.2	26.76	209.90
110.00	8 42 30	1237.80	-6.06	335.78	10.58	123.71	9 3 7	637.8	-1.59	329.54
110.00	17 25 5	4729.33	31.52	196.76	17.16	76.04	18 43 54	4129.3	29.28	188.27

DIFFERENTIAL CORRECTIONS
TDE .5110 TRA -.5710 TC3 .9248 BAU .1813
RDE -.2287 RRA -.0811 RC3 .2038 FAU .04393
FDE -.8877 FRA .3680 FC3-2.6561 BSP 4318
BDE .5599 BRA .5767 BC3 .9470 FSP -588

MID-COURSE EXECUTION ACCURACY
SGT 1376.7 SGR 399.9 SG3 214.8
RRT -.0825 RRF .0820 RTF -.8667
SGB 1433.6 R23 -.0039 R13 .8668
SG1 1377.2 SG2 398.5 THA 178.50

ORBIT DETERMINATION ACCURACY
ST 819.6 SR 348.4 SS 857.6
CRT -.9018 CRS -.9700 CST .9786
LSA 1225.2 MSA 165.0 SSA 19.2
EL1 879.5 EL2 140.3 ALF 158.45

LAUNCH DATE JUN 11 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 21 1967

DISTANCE 261.690

HELIOCENTRIC CONIC
RL 151.90 LAL -.00 LOL 259.41 VL 26.044 GAL -.32 AZL 93.32 HCA 111.53 SMA 124.13 ECC .22374 INC 3.3189 V1 29.331
RP 108.58 LAP -3.09 LOP 10.97 VP 37.088 GAP -10.77 AZP 88.78 TAL 181.09 TAP 292.62 RCA 96.36 APO 151.91 V2 34.903
RC 51.950 GL -24.25 GP -1.01 ZAL 95.28 ZAP 12.88 ETS 3.74 ZAE 148.36 ETE 16.27 ZAC 87.64 ETC 13.59 CLP -12.84

PLANETOCENTRIC CONIC
C3 13.478 VHL 3.671 DLA -15.93 RAL 155.47 RAD 6567.5 VEL 11.613 PTH 2.03 VHP 6.897 DPA 2.88 RAP 179.17 ECC 1.2218

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 36 19	1604.85	-1.62	5.75	10.46	118.27	7 3 4	1004.9	2.18	359.13
90.00	14 19 6	5287.69	27.15	239.47	15.57	81.62	15 47 14	4687.7	25.71	231.09
100.00	7 48 49	1370.92	-2.66	347.98	9.88	119.78	8 11 40	770.9	1.32	341.45
100.00	15 49 17	4996.86	28.33	217.86	15.36	80.03	17 12 34	4396.9	26.66	209.45
110.00	8 37 26	1218.63	-5.33	334.76	8.22	123.81	8 57 45	618.6	-.85	328.54
110.00	17 17 10	4721.91	31.40	196.22	14.60	75.74	18 35 52	4121.9	29.12	187.75

DIFFERENTIAL CORRECTIONS
TDE .5115 TRA -.5415 TC3 1.0280 BAU .1889
RDE -.2175 RRA -.0745 RC3 .2050 FAU .04793
FDE -.9669 FRA .3541 FC3-3.0790 BSP 4495
BDE .5559 BRA .5466 BC3 1.0482 FSP -671

MID-COURSE EXECUTION ACCURACY
SGT 1406.9 SGR 390.5 SG3 240.0
RRT -.0931 RRF .0945 RTF -.8740
SGB 1460.1 R23 -.0064 R13 .8741
SG1 1407.4 SG2 388.6 THA 178.40

ORBIT DETERMINATION ACCURACY
ST 841.1 SR 341.4 SS 906.0
CRT -.9101 CRS -.9742 CST .9789
LSA 1272.0 MSA 162.4 SSA 19.2
EL1 898.0 EL2 132.5 ALF 159.25

LAUNCH DATE JUN 11 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 23 1967

DISTANCE 268.385

HELIOCENTRIC CONIC
RL 151.90 LAL -.00 LOL 259.41 VL 26.164 GAL -.47 AZL 93.31 HCA 114.71 SMA 124.86 ECC .21666 INC 3.3072 V1 29.331
RP 108.54 LAP -3.00 LOP 14.16 VP 37.183 GAP -10.04 AZP 88.62 TAL 181.71 TAP 296.42 RCA 97.81 APO 151.92 V2 34.914
RC 53.515 GL -25.00 GP -1.11 ZAL 96.59 ZAP 15.22 ETS 3.33 ZAE 147.78 ETE 15.11 ZAC 86.84 ETC 13.58 CLP -15.18

PLANETOCENTRIC CONIC
C3 12.755 VHL 3.571 DLA -16.09 RAL 153.87 RAD 6567.5 VEL 11.582 PTH 2.03 VHP 6.496 DPA 2.44 RAP 179.91 ECC 1.2099

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 31 24	1587.28	-1.05	4.77	8.17	118.30	6 57 51	987.3	2.74	358.14
90.00	14 11 15	5281.45	27.08	239.02	13.14	81.40	15 39 17	4681.5	25.62	230.66
100.00	7 43 47	1353.75	-2.08	347.03	7.60	119.83	8 6 20	753.7	1.90	340.51
100.00	15 41 34	4990.22	28.25	217.38	12.92	79.79	17 4 44	4390.2	26.55	208.99
110.00	8 32 8	1202.25	-4.71	333.90	5.96	123.90	8 52 11	602.3	-.23	327.69
110.00	17 9 42	4714.48	31.27	195.68	12.15	75.44	18 28 16	4114.5	28.96	187.24

DIFFERENTIAL CORRECTIONS
TDE .5115 TRA -.5115 TC3 1.1182 BAU .1938
RDE -.2072 RRA -.0685 RC3 .2034 FAU .05240
FDE-1.0583 FRA .3342 FC3-3.5563 BSP 4532
BDE .5519 BRA .5161 BC3 1.1366 FSP -754

MID-COURSE EXECUTION ACCURACY
SGT 1428.6 SGR 380.4 SG3 268.3
RRT -.1088 RRF .1113 RTF -.8787
SGB 1478.4 R23 -.0086 R13 .8788
SG1 1429.2 SG2 377.9 THA 178.22

ORBIT DETERMINATION ACCURACY
ST 860.0 SR 334.2 SS 958.5
CRT -.9181 CRS -.9782 CST .9791
LSA 1320.6 MSA 160.4 SSA 19.1
EL1 914.2 EL2 124.6 ALF 159.98

LAUNCH DATE JUN 11 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 25 1967

DISTANCE 275.068

HELIOCENTRIC CONIC
RL 151.90 LAL -.00 LOL 259.41 VL 26.272 GAL -.62 AZL 93.29 HCA 117.90 SMA 125.53 ECC .21027 INC 3.2948 V1 29.331
RP 108.50 LAP -2.91 LOP 17.34 VP 37.271 GAP -9.33 AZP 88.46 TAL 182.32 TAP 300.22 RCA 99.14 APO 151.93 V2 34.926
RC 55.163 GL -25.69 GP -1.21 ZAL 97.88 ZAP 17.67 ETS 3.03 ZAE 147.46 ETE 14.06 ZAC 86.16 ETC 13.57 CLP -17.63

PLANETOCENTRIC CONIC
C3 12.135 VHL 3.484 DLA -16.20 RAL 152.31 RAD 6567.5 VEL 11.555 PTH 2.02 VHP 6.114 DPA 2.05 RAP 180.53 ECC 1.1997

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 26 13	1572.73	-.58	3.96	6.00	118.31	6 52 25	972.7	3.21	357.33
90.00	14 4 1	5274.79	27.02	238.55	10.82	81.17	15 31 56	4674.8	25.52	230.20
100.00	7 38 30	1339.48	-1.60	346.25	5.44	119.85	8 0 50	739.5	2.39	339.73
100.00	15 34 25	4983.28	28.16	216.88	10.60	79.54	16 57 28	4383.3	26.43	208.51
110.00	8 26 41	1188.55	-4.19	333.18	3.82	123.96	8 46 29	588.5	.30	326.97
110.00	17 2 44	4706.97	31.14	195.13	9.83	75.14	18 21 11	4107.0	28.79	186.72

DIFFERENTIAL CORRECTIONS
TDE .5126 TRA -.4772 TC3 1.2165 BAU .2000
RDE -.1978 RRA -.0631 RC3 .1984 FAU .05768
FDE-1.1627 FRA .3043 FC3-4.1148 BSP 4633
BDE .5494 BRA .4814 BC3 1.2326 FSP -855

MID-COURSE EXECUTION ACCURACY
SGT 1448.2 SGR 369.6 SG3 301.1
RRT -.1286 RRF .1316 RTF -.8852
SGB 1494.6 R23 -.0101 R13 .8854
SG1 1449.0 SG2 366.3 THA 177.99

ORBIT DETERMINATION ACCURACY
ST 878.4 SR 327.0 SS 1014.7
CRT -.9270 CRS -.9821 CST .9797
LSA 1372.1 MSA 157.7 SSA 18.9
EL1 930.1 EL2 115.8 ALF 160.65

LAUNCH DATE JUN 11 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 27 1967

DISTANCE 281.738

HELIOCENTRIC CONIC
RL 151.90 LAL -.00 LOL 259.41 VL 26.370 GAL -.75 AZL 93.28 HCA 121.08 SMA 126.15 ECC .20452 INC 3.2817 V1 29.331
RP 108.46 LAP -2.81 LOP 20.53 VP 37.351 GAP -8.65 AZP 88.30 TAL 182.93 TAP 304.01 RCA 100.35 APO 151.95 V2 34.938
RC 56.885 GL -26.30 GP -1.34 ZAL 99.13 ZAP 20.27 ETS 2.81 ZAE 147.41 ETE 13.12 ZAC 85.62 ETC 13.56 CLP -20.23

PLANETOCENTRIC CONIC
C3 11.604 VHL 3.406 DLA -16.26 RAL 150.82 RAD 6567.4 VEL 11.532 PTH 2.01 VHP 5.752 DPA 1.69 RAP 181.02 ECC 1.1910

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 20 52	1560.97	-.20	3.31	3.96	118.32	6 46 53	961.0	3.59	356.67
90.00	13 57 27	5267.75	26.94	238.04	8.64	80.93	15 25 15	4667.8	25.41	229.71
100.00	7 33 6	1327.89	-1.20	345.61	3.40	119.87	7 55 14	727.9	2.78	339.09
100.00	15 27 54	4976.07	28.07	216.37	8.42	79.28	16 50 50	4376.1	26.31	208.01
110.00	8 21 11	1177.29	-3.76	332.59	1.80	124.00	8 40 48	577.3	.73	326.39
110.00	16 56 19	4699.43	31.01	194.58	7.64	74.84	18 14 39	4099.4	28.62	186.20

DIFFERENTIAL CORRECTIONS
TDE .5094 TRA -.4488 TC3 1.2938 BAU .2029
RDE -.1891 RRA -.0580 RC3 .1902 FAU .06353
FDE-1.2793 FRA .2762 FC3-4.7402 BSP 4663
BDE .5434 BRA .4526 BC3 1.3077 FSP -967

MID-COURSE EXECUTION ACCURACY
SGT 1459.3 SGR 358.2 SG3 337.9
RRT -.1500 RRF .1548 RTF -.8886
SGB 1502.6 R23 -.0133 R13 .8887
SG1 1460.3 SG2 353.9 THA 177.76

ORBIT DETERMINATION ACCURACY
ST 889.1 SR 319.6 SS 1072.8
CRT -.9335 CRS -.9851 CST .9797
LSA 1420.7 MSA 156.8 SSA 18.6
EL1 938.5 EL2 108.5 ALF 161.19

LAUNCH DATE JUN 11 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 29 1967

HELIOCENTRIC CONIC DISTANCE 288.392

RL 151.90 LAL -.00 LOL 259.41 VL 26.458 GAL -.87 AZL 93.27 HCA 124.27 SMA 126.71 ECC .19937 INC 3.2676 V1 29.331
RP 108.43 LAP -2.70 LOP 23.73 VP 37.425 GAP -7.99 AZP 88.16 TAL 183.51 TAP 307.79 RCA 101.45 APO 151.97 V2 34.951
RC 58.673 GL -26.85 GP -1.48 ZAL 100.32 ZAP 23.03 ETS 2.65 ZAE 147.63 ETE 12.27 ZAC 85.23 ETC 13.57 CLP -22.98

PLANETOCENTRIC CONIC

C3 11.148 VHL 3.339 DLA -16.28 RAL 149.40 RAD 6567.4 VEL 11.512 PTH 2.01 VHP 5.408 DPA 1.38 RAP 181.36 ECC 1.1835

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 15 29	1551.75	.10	2.79	2.05	118.32	6 41 20	951.8	3.88	356.16
90.00	13 51 35	5260.36	26.86	237.52	6.61	80.68	15 19 16	4660.4	25.30	229.20
100.00	7 27 42	1318.73	-.89	345.11	1.50	119.88	7 49 40	718.7	3.09	338.59
100.00	15 22 3	4968.61	27.98	215.83	6.39	79.02	16 44 52	4368.6	26.18	207.49
110.00	8 15 43	1168.26	-3.42	332.12	359.92	124.03	8 35 12	568.3	1.07	325.92
110.00	16 50 31	4691.84	30.87	194.03	5.61	74.54	18 8 43	4091.8	28.44	185.67

DIFFERENTIAL CORRECTIONS
TDE .5032 TRA -.4203 TC3 1.3624 BAU .2048
RDE -.1812 RRA -.0535 RC3 .1782 FAU .07028
FDE-1.4093 FRA .2422 FC3-5.4579 BSP 4675
BDE .5348 BRA .4237 BC3 1.3740 FSP -1097

MID-COURSE EXECUTION ACCURACY
SGT 1462.2 SGR 346.4 SG3 379.8
RRT -.1745 RRF .1819 RTF -.8915
SGB 1502.7 R23 -.0176 R13 .8917
SG1 1463.5 SG2 340.8 THA 177.50

ORBIT DETERMINATION ACCURACY
ST 892.9 SR 312.3 SS 1132.8
CRT -.9394 CRS -.9878 CST .9797
LSA 1467.4 MSA 156.4 SSA 18.2
EL1 940.4 EL2 101.6 ALF 161.59

LAUNCH DATE JUN 11 1967 FLIGHT TIME 112.00 ARRIVAL DATE OCT 1 1967

HELIOCENTRIC CONIC DISTANCE 295.031

RL 151.90 LAL -.00 LOL 259.41 VL 26.536 GAL -.98 AZL 93.25 HCA 127.47 SMA 127.21 ECC .19477 INC 3.2524 V1 29.331
RP 108.39 LAP -2.58 LOP 26.92 VP 37.492 GAP -7.36 AZP 88.02 TAL 184.08 TAP 311.54 RCA 102.44 APO 151.99 V2 34.964
RC 60.521 GL -27.32 GP -1.65 ZAL 101.43 ZAP 25.96 ETS 2.53 ZAE 148.15 ETE 11.48 ZAC 85.02 ETC 13.58 CLP -25.91

PLANETOCENTRIC CONIC

C3 10.757 VHL 3.280 DLA -16.27 RAL 148.09 RAD 6567.4 VEL 11.495 PTH 2.00 VHP 5.083 DPA 1.12 RAP 181.53 ECC 1.1770

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 10 8	1544.80	.32	2.40	.30	118.32	6 35 53	944.8	4.11	355.77
90.00	13 46 26	5252.66	26.77	236.97	4.74	80.42	15 13 59	4652.7	25.18	228.67
100.00	7 22 21	1311.75	-.66	344.73	359.75	119.89	7 44 13	711.8	3.32	338.20
100.00	15 16 54	4960.93	27.88	215.28	4.51	78.75	16 39 35	4360.9	26.04	206.96
110.00	8 10 24	1161.23	-3.15	331.75	358.19	124.06	8 29 45	561.2	1.34	325.55
110.00	16 45 20	4684.22	30.73	193.48	3.73	74.24	18 3 24	4084.2	28.27	185.15

DIFFERENTIAL CORRECTIONS
TDE .4949 TRA -.3920 TC3 1.4157 BAU .2049
RDE -.1740 RRA -.0495 RC3 .1621 FAU .07801
FDE-1.5580 FRA .2010 FC3-6.2786 BSP 4679
BDE .5246 BRA .3951 BC3 1.4250 FSP -1249

MID-COURSE EXECUTION ACCURACY
SGT 1455.6 SGR 334.4 SG3 427.7
RRT -.2051 RRF .2154 RTF -.8936
SGB 1493.5 R23 -.0228 R13 .8939
SG1 1457.3 SG2 326.9 THA 177.16

ORBIT DETERMINATION ACCURACY
ST 891.1 SR 305.2 SS 1197.6
CRT -.9448 CRS -.9902 CST .9795
LSA 1515.5 MSA 156.1 SSA 17.6
EL1 937.1 EL2 95.1 ALF 161.87

LAUNCH DATE JUN 11 1967 FLIGHT TIME 114.00 ARRIVAL DATE OCT 3 1967

HELIOCENTRIC CONIC DISTANCE 301.653

RL 151.90 LAL -.00 LOL 259.41 VL 26.606 GAL -1.08 AZL 93.24 HCA 130.66 SMA 127.67 ECC .19070 INC 3.2359 V1 29.331
RP 108.35 LAP -2.45 LOP 30.12 VP 37.554 GAP -6.74 AZP 87.89 TAL 184.60 TAP 315.26 RCA 103.32 APO 152.01 V2 34.977
RC 62.420 GL -27.72 GP -1.84 ZAL 102.47 ZAP 29.09 ETS 2.45 ZAE 148.98 ETE 10.73 ZAC 85.00 ETC 13.60 CLP -29.04

PLANETOCENTRIC CONIC

C3 10.420 VHL 3.228 DLA -16.23 RAL 146.88 RAD 6567.4 VEL 11.481 PTH 2.00 VHP 4.778 DPA .92 RAP 181.52 ECC 1.1715

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 4 56	1539.83	.48	2.13	358.69	118.31	6 30 36	939.8	4.26	355.49
90.00	13 42 1	5244.70	26.68	236.41	3.03	80.15	15 9 25	4644.7	25.05	228.12
100.00	7 17 11	1306.67	-.48	344.45	358.16	119.89	7 38 58	706.7	3.50	337.92
100.00	15 12 26	4953.09	27.77	214.72	2.80	78.47	16 34 59	4353.1	25.90	206.42
110.00	8 5 18	1155.94	-2.95	331.48	356.62	124.07	8 24 34	555.9	1.54	325.27
110.00	16 40 48	4676.59	30.59	192.93	2.01	73.95	17 58 45	4076.6	28.09	184.63

DIFFERENTIAL CORRECTIONS
TDE .4828 TRA -.3656 TC3 1.4426 BAU .2019
RDE -.1675 RRA -.0458 RC3 .1420 FAU .08656
FDE-1.7232 FRA .1557 FC3-7.1918 BSP 4648
BDE .5110 BRA .3685 BC3 1.4496 FSP -1422

MID-COURSE EXECUTION ACCURACY
SGT 1434.8 SGR 322.4 SG3 481.0
RRT -.2424 RRF .2559 RTF -.8938
SGB 1470.6 R23 -.0294 R13 .8942
SG1 1437.0 SG2 312.3 THA 176.73

ORBIT DETERMINATION ACCURACY
ST 881.0 SR 298.4 SS 1264.5
CRT -.9492 CRS -.9921 CST .9792
LSA 1561.9 MSA 156.2 SSA 17.0
EL1 925.9 EL2 89.4 ALF 162.00

LAUNCH DATE JUN 11 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 5 1967

HELIOCENTRIC CONIC DISTANCE 308.256

RL 151.90 LAL -.00 LOL 259.41 VL 26.668 GAL -1.17 AZL 93.22 HCA 133.86 SMA 128.07 ECC .18711 INC 3.2177 V1 29.331
RP 108.31 LAP -2.32 LOP 33.31 VP 37.610 GAP -6.15 AZP 87.77 TAL 185.09 TAP 318.95 RCA 104.11 APO 152.04 V2 34.990
RC 64.367 GL -28.05 GP -2.06 ZAL 103.42 ZAP 32.44 ETS 2.40 ZAE 150.13 ETE 10.02 ZAC 85.20 ETC 13.62 CLP -32.38

PLANETOCENTRIC CONIC

C3 10.128 VHL 3.182 DLA -16.17 RAL 145.80 RAD 6567.4 VEL 11.468 PTH 1.99 VHP 4.492 DPA .78 RAP 181.29 ECC 1.1667

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 59 58	1536.56	.59	1.94	357.25	118.31	6 25 34	936.6	4.37	355.30
90.00	13 38 19	5236.54	26.59	235.83	1.50	79.88	15 5 35	4636.5	24.92	227.56
100.00	7 12 16	1303.24	-.37	344.26	356.72	119.89	7 34 0	703.2	3.61	337.73
100.00	15 8 41	4945.10	27.66	214.16	1.26	78.19	16 31 6	4345.1	25.75	205.88
110.00	8 0 30	1152.16	-2.80	331.28	355.20	124.08	8 19 42	552.2	1.69	325.08
110.00	16 36 57	4668.95	30.45	192.39	.46	73.65	17 54 46	4068.9	27.91	184.11

DIFFERENTIAL CORRECTIONS
TDE .4653 TRA -.3424 TC3 1.4444 BAU .1962
RDE -.1617 RRA -.0426 RC3 .1170 FAU .09625
FDE-1.9072 FRA .1059 FC3-8.2280 BSP 4550
BDE .4926 BRA .3451 BC3 1.4491 FSP -1618

MID-COURSE EXECUTION ACCURACY
SGT 1399.6 SGR 310.9 SG3 541.3
RRT -.2855 RRF .3049 RTF -.8916
SGB 1433.7 R23 -.0400 R13 .8922
SG1 1402.5 SG2 297.3 THA 176.20

ORBIT DETERMINATION ACCURACY
ST 860.0 SR 292.1 SS 1334.3
CRT -.9522 CRS -.9937 CST .9783
LSA 1606.3 MSA 157.2 SSA 16.3
EL1 904.3 EL2 84.9 ALF 161.91

LAUNCH DATE JUN 11 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 7 1967

HELIOCENTRIC CONIC DISTANCE 314.841

RL	151.90	LAL	-.00	LOL	259.41	VL	26.722	GAL	-1.24	AZL	93.20	HCA	137.06	SMA	128.43	ECC	.18396	INC	3.1973
RP	108.27	LAP	-2.18	LOP	36.51	VP	37.660	GAP	-5.57	AZP	87.66	TAL	185.53	TAP	322.59	RCA	104.81	APO	152.06
RC	66.356	GL	-28.31	GP	-2.33	ZAL	104.26	ZAP	36.03	ETS	2.37	ZAE	151.62	ETE	9.30	ZAC	85.63	ETC	13.64

V1	29.331	V2	35.003	CLP	-35.96														

PLANETOCENTRIC CONIC

C3	9.873	VHL	3.142	DLA	-16.08	RAL	144.84	RAD	6567.4	VEL	11.457	PTH	1.99	VHP	4.227	DPA	.69	RAP	180.83
ECC	1.1625																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 55 17	1534.78	.65	1.85	355.97	118.31	6 20 52	934.8	4.43	355.20
90.00	13 35 21	5228.18	26.48	235.24	.12	79.60	15 2 29	4628.2	24.78	226.98
100.00	7 7 40	1301.22	-.30	344.15	355.45	119.89	7 29 22	701.2	3.68	337.62
100.00	15 5 39	4936.97	27.55	213.58	359.89	77.91	16 27 56	4337.0	25.60	205.32
110.00	7 56 3	1149.67	-2.71	331.15	353.94	124.09	8 15 13	549.7	1.78	324.95
110.00	16 33 45	4661.28	30.30	191.84	359.08	73.36	17 51 27	4061.3	27.72	183.59

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE	.4434	TRA	-.3216	TC3	1.4171	BAU	.1874	SGT	1348.8	SGR	300.5	SG3	608.7	ST	829.4	SR	286.6	SS	1407.3
RDE	-.1567	RRA	-.0397	RC3	.0866	FAU	.10707	RRT	-.3372	RRF	.3644	RTF	-.8868	CRT	-.9542	CRS	-.9949	CST	.9769
FDE	-2.1110	FRA	.0524	FC3	-9.3889	BSP	4388	SGB	1381.8	R23	-.0549	R13	.8879	LSA	1650.9	MSA	158.2	SSA	15.5
BDE	.4703	BRA	.3240	BC3	1.4198	FSP	-1833	SG1	1352.8	SG2	282.0	THA	175.51	EL1	873.8	EL2	81.4	ALF	161.58

LAUNCH DATE JUN 11 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 9 1967

HELIOCENTRIC CONIC DISTANCE 321.407

RL	151.90	LAL	-.00	LOL	259.41	VL	26.769	GAL	-1.31	AZL	93.17	HCA	140.26	SMA	128.75	ECC	.18122	INC	3.1744
RP	108.22	LAP	-2.03	LOP	39.71	VP	37.706	GAP	-5.01	AZP	87.56	TAL	185.92	TAP	326.18	RCA	105.41	APO	152.08
RC	68.382	GL	-28.50	GP	-2.64	ZAL	105.00	ZAP	39.88	ETS	2.37	ZAE	153.45	ETE	8.54	ZAC	86.33	ETC	13.66
V1	29.331	V2	35.016	CLP	-39.80														

PLANETOCENTRIC CONIC

C3	9.648	VHL	3.106	DLA	-15.97	RAL	144.02	RAD	6567.3	VEL	11.447	PTH	1.99	VHP	3.982	DPA	.67	RAP	180.12
ECC	1.1588																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 50 58	1534.28	.66	1.82	354.86	118.31	6 16 32	934.3	4.44	355.18
90.00	13 33 7	5219.58	26.38	234.63	358.92	79.31	15 0 6	4619.6	24.64	226.39
100.00	7 3 26	1300.44	-.27	344.11	354.34	119.89	7 25 7	700.4	3.71	337.58
100.00	15 3 20	4928.66	27.43	212.99	358.68	77.62	16 25 28	4328.7	25.44	204.75
110.00	7 52 0	1148.32	-2.66	331.08	352.85	124.09	8 11 8	548.3	1.83	324.87
110.00	16 31 15	4653.54	30.15	191.29	357.87	73.06	17 48 49	4053.5	27.53	183.07

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE	.4145	TRA	-.3051	TC3	1.3496	BAU	.1742	SGT	1276.8	SGR	291.9	SG3	682.7	ST	784.8	SR	282.2	SS	1481.1
RDE	-.1526	RRA	-.0371	RC3	.0501	FAU	.11891	RRT	-.3956	RRF	.4353	RTF	-.8767	CRT	-.9543	CRS	-.9959	CST	.9745
FDE	-2.3315	FRA	-.0013	FC3	-10.6698	BSP	4146	SGB	1309.7	R23	-.0791	R13	.8784	LSA	1692.2	MSA	159.9	SSA	14.6
BDE	.4417	BRA	.3074	BC3	1.3506	FSP	-2073	SG1	1282.2	SG2	267.0	THA	174.60	EL1	830.2	EL2	79.7	ALF	160.88

LAUNCH DATE JUN 11 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 11 1967

HELIOCENTRIC CONIC DISTANCE 327.952

RL	151.90	LAL	-.00	LOL	259.41	VL	26.810	GAL	-1.35	AZL	93.15	HCA	143.46	SMA	129.02	ECC	.17885	INC	3.1481
RP	108.18	LAP	-1.87	LOP	42.92	VP	37.747	GAP	-4.47	AZP	87.47	TAL	186.24	TAP	329.71	RCA	105.94	APO	152.09
RC	70.443	GL	-28.61	GP	-3.01	ZAL	105.63	ZAP	44.00	ETS	2.38	ZAE	155.65	ETE	7.68	ZAC	87.30	ETC	13.67
V1	29.331	V2	35.029	CLP	-43.92														

PLANETOCENTRIC CONIC

C3	9.448	VHL	3.074	DLA	-15.84	RAL	143.34	RAD	6567.3	VEL	11.438	PTH	1.98	VHP	3.758	DPA	.71	RAP	179.14
ECC	1.1555																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 47 1	1534.95	.64	1.85	353.91	118.31	6 12 36	934.9	4.42	355.21
90.00	13 31 39	5210.66	26.26	234.00	357.89	79.02	14 58 29	4610.7	24.48	225.79
100.00	6 59 36	1300.77	-.28	344.12	353.40	119.89	7 21 16	700.8	3.70	337.60
100.00	15 1 45	4920.07	27.30	212.38	357.65	77.32	16 23 45	4320.1	25.28	204.17
110.00	7 48 22	1147.97	-2.64	331.06	351.92	124.09	8 7 30	548.0	1.85	324.86
110.00	16 29 28	4645.63	29.99	190.72	356.83	72.77	17 46 54	4045.6	27.34	182.54

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE	.3782	TRA	-.2918	TC3	1.2395	BAU	.1566	SGT	1182.1	SGR	286.7	SG3	762.5	ST	725.5	SR	279.4	SS	1554.3
RDE	-.1495	RRA	-.0348	RC3	.0063	FAU	.13167	RRT	-.4585	RRF	.5181	RTF	-.8589	CRT	-.9523	CRS	-.9968	CST	.9706
FDE	-2.5649	FRA	-.0566	FC3	-12.0657	BSP	3822	SGB	1216.3	R23	-.1185	R13	.8621	LSA	1730.3	MSA	161.7	SSA	13.7
BDE	.4067	BRA	.2939	BC3	1.2395	FSP	-2333	SG1	1189.7	SG2	253.2	THA	173.35	EL1	773.3	EL2	80.0	ALF	159.63

LAUNCH DATE JUN 11 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 13 1967

HELIOCENTRIC CONIC DISTANCE 334.478

RL	151.90	LAL	-.00	LOL	259.41	VL	26.845	GAL	-1.39	AZL	93.12	HCA	146.67	SMA	129.25	ECC	.17684	INC	3.1175
RP	108.14	LAP	-1.71	LOP	46.12	VP	37.784	GAP	-3.94	AZP	87.39	TAL	186.51	TAP	333.18	RCA	106.39	APO	152.11
RC	72.534	GL	-28.65	GP	-3.45	ZAL	106.15	ZAP	48.42	ETS	2.40	ZAE	158.22	ETE	6.59	ZAC	88.57	ETC	13.68
V1	29.331	V2	35.042	CLP	-48.33														

PLANETOCENTRIC CONIC

C3	9.264	VHL	3.044	DLA	-15.68	RAL	142.81	RAD	6567.3	VEL	11.430	PTH	1.98	VHP	3.557	DPA	.79	RAP	177.87
ECC	1.1525																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 43 27	1536.75	.58	1.96	353.12	118.31	6 9 3	936.7	4.36	355.31
90.00	13 30 58	5201.21	26.14	233.34	357.02	78.70	14 57 40	4601.2	24.32	225.14
100.00	6 56 8	1302.18	-.33	344.20	352.61	119.89	7 17 51	702.2	3.65	337.68
100.00	15 0 58	4911.02	27.16	211.75	356.77	77.01	16 22 49	4311.0	25.10	203.55
110.00	7 45 10	1148.60	-2.67	331.09	351.15	124.09	8 4 19	548.6	1.82	324.89
110.00	16 28 25	4637.36	29.82	190.14	355.95	72.46	17 45 43	4037.4	27.13	181.98

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE	.3343	TRA	-.2832	TC3	1.0807	BAU	.1340	SGT	1065.5	SGR	286.5	SG3	846.7	ST	651.1	SR	278.6	SS	1625.4
RDE	-.1476	RRA	-.0327	RC3	-.0463	FAU	.14505	RRT	-.5176	RRF	.6101	RTF	-.8275	CRT	-.9467	CRS	-.9974	CST	.9638
FDE	-2.8060	FRA	-.1029	FC3	-13.5545	BSP	3391	SGB	1103.4	R23	-.1850	R13	.8341	LSA	1765.4	MSA	163.8	SSA	12.7
BDE	.3654	BRA	.2851	BC3	1.0817	FSP	-2602	SG1	1076.4	SG2	242.7	THA	171.65	EL1	703.3	EL2	83.1	ALF	157.62

LAUNCH DATE JUN 11 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 15 1967

DISTANCE 340.983

HELIOCENTRIC CONIC
RL 151.90 LAL -.00 LOL 259.41 VL 26.874 GAL -1.42 AZL 93.08 HCA 149.88 SMA 129.45 ECC .17514 INC 3.0813 V1 29.331
RP 108.10 LAP -1.55 LOP 49.33 VP 37.817 GAP -3.43 AZP 87.33 TAL 186.71 TAP 336.59 RCA 106.78 APO 152.12 V2 35.056
RC 74.652 GL -28.61 GP -3.98 ZAL 106.56 ZAP 53.13 ETS 2.41 ZAE 161.14 ETE 5.06 ZAC 90.14 ETC 13.67 CLP -53.02

PLANETOCENTRIC CONIC
C3 9.093 VHL 3.015 DLA -15.50 RAL 142.43 RAD 6567.3 VEL 11.423 PTH 1.98 VHP 3.380 DPA .91 RAP 176.30 ECC 1.1496

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 40 12	1539.81	.48	2.13	352.49	118.31	6 5 52	939.8	4.26	355.49
90.00	13 31 11	5190.91	26.00	232.62	356.30	78.37	14 57 42	4590.9	24.13	224.44
100.00	6 53 3	1304.79	-.42	344.35	351.99	119.89	7 14 47	704.8	3.56	337.82
100.00	15 1 1	4901.17	27.01	211.05	356.06	76.68	16 22 43	4301.2	24.91	202.88
110.00	7 42 22	1150.27	-2.73	331.18	350.55	124.09	8 1 33	550.3	1.76	324.98
110.00	16 28 11	4628.45	29.64	189.51	355.22	72.13	17 45 20	4028.4	26.91	181.39

DIFFERENTIAL CORRECTIONS
TDE .2843 TRA -.2758 TC3 .8810 BAU .1080
RDE -.1476 RRA -.0310 RC3 -.1111 FAU .15939
FDE-3.0572 FRA -.1566 FC-15.1752 BSP 2926
BDE .3204 BRA .2775 BC3 .8880 FSP -2906

MID-COURSE EXECUTION ACCURACY
SGT 932.7 SGR 294.7 SG3 936.9
RRT -.5598 RRF .7075 RTF -.7745
SGB 978.1 R23 -.2930 R13 .7895
SG1 948.2 SG2 240.2 THA 169.27

ORBIT DETERMINATION ACCURACY
ST 564.6 SR 281.0 SS 1698.4
CRT -.9362 CRS -.9980 CST .9525
LSA 1804.1 MSA 165.3 SSA 11.7
EL1 624.3 EL2 89.3 ALF 154.46

LAUNCH DATE JUN 11 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 17 1967

DISTANCE 347.469

HELIOCENTRIC CONIC
RL 151.90 LAL -.00 LOL 259.41 VL 26.897 GAL -1.43 AZL 93.04 HCA 153.09 SMA 129.61 ECC .17373 INC 3.0371 V1 29.331
RP 108.06 LAP -1.37 LOP 52.53 VP 37.846 GAP -2.93 AZP 87.29 TAL 186.84 TAP 339.93 RCA 107.09 APO 152.12 V2 35.069
RC 76.795 GL -28.48 GP -4.63 ZAL 106.86 ZAP 58.12 ETS 2.41 ZAE 164.41 ETE 2.64 ZAC 92.01 ETC 13.64 CLP -58.00

PLANETOCENTRIC CONIC
C3 8.927 VHL 2.988 DLA -15.27 RAL 142.20 RAD 6567.3 VEL 11.416 PTH 1.98 VHP 3.227 DPA 1.03 RAP 174.42 ECC 1.1469

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 37 14	1544.41	.34	2.38	352.02	118.32	6 2 58	944.4	4.12	355.74
90.00	13 32 24	5179.22	25.84	231.80	355.74	77.99	14 58 43	4579.2	23.92	223.65
100.00	6 50 14	1308.83	-.56	344.57	351.53	119.89	7 12 3	708.8	3.42	338.04
100.00	15 2 4	4890.03	26.83	210.27	355.49	76.31	16 23 34	4290.0	24.68	202.13
110.00	7 39 56	1153.19	-2.84	331.33	350.10	124.08	7 59 9	553.2	1.65	325.13
110.00	16 28 52	4618.44	29.42	188.81	354.65	71.76	17 45 51	4018.4	26.65	180.72

DIFFERENTIAL CORRECTIONS
TDE .2251 TRA -.2735 TC3 .6199 BAU .0774
RDE -.1494 RRA -.0293 RC3 -.1899 FAU .17328
FDE-3.2902 FRA -.1884 FC-16.8048 BSP 2345
BDE .2701 BRA .2751 BC3 .6484 FSP -3195

MID-COURSE EXECUTION ACCURACY
SGT 786.8 SGR 313.5 SG3 1025.2
RRT -.5434 RRF .7979 RTF -.6683
SGB 847.0 R23 -.4651 R13 .7061
SG1 807.2 SG2 256.6 THA 166.38

ORBIT DETERMINATION ACCURACY
ST 461.5 SR 287.0 SS 1761.2
CRT -.9122 CRS -.9984 CST .9288
LSA 1835.5 MSA 167.1 SSA 10.7
EL1 533.9 EL2 101.7 ALF 149.20

LAUNCH DATE JUN 11 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 19 1967

DISTANCE 353.933

HELIOCENTRIC CONIC
RL 151.90 LAL -.00 LOL 259.41 VL 26.916 GAL -1.43 AZL 92.98 HCA 156.31 SMA 129.74 ECC .17259 INC 2.9820 V1 29.331
RP 108.02 LAP -1.20 LOP 55.74 VP 37.871 GAP -2.45 AZP 87.27 TAL 186.90 TAP 343.21 RCA 107.34 APO 152.13 V2 35.082
RC 78.958 GL -28.23 GP -5.44 ZAL 107.05 ZAP 63.37 ETS 2.38 ZAE 167.95 ETE 358.18 ZAC 94.16 ETC 13.56 CLP -63.24

PLANETOCENTRIC CONIC
C3 8.760 VHL 2.960 DLA -14.98 RAL 142.15 RAD 6567.3 VEL 11.408 PTH 1.97 VHP 3.099 DPA 1.10 RAP 172.25 ECC 1.1442

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 34 21	1551.18	.12	2.76	351.71	118.32	6 0 12	951.2	3.90	356.12
90.00	13 34 50	5165.23	25.64	230.82	355.32	77.54	15 0 56	4565.2	23.66	222.71
100.00	6 47 35	1314.90	-.76	344.90	351.22	119.88	7 9 30	714.9	3.22	338.38
100.00	15 4 18	4876.74	26.61	209.35	355.07	75.86	16 25 35	4276.7	24.41	201.24
110.00	7 37 43	1157.85	-3.02	331.58	349.81	124.07	7 57 1	557.8	1.47	325.37
110.00	16 30 39	4606.56	29.17	187.98	354.21	71.33	17 47 25	4006.6	26.34	179.93

DIFFERENTIAL CORRECTIONS
TDE .1599 TRA -.2726 TC3 .3087 BAU .0495
RDE -.1540 RRA -.0278 RC3 -.2891 FAU .18693
FDE-3.5070 FRA -.2148 FC-18.4741 BSP 1779
BDE .2220 BRA .2740 BC3 .4229 FSP -3500

MID-COURSE EXECUTION ACCURACY
SGT 654.0 SGR 348.1 SG3 1112.7
RRT -.4091 RRF .8740 RTF -.4589
SGB 740.9 R23 -.6876 R13 .5508
SG1 673.6 SG2 308.4 THA 164.35

ORBIT DETERMINATION ACCURACY
ST 350.4 SR 298.5 SS 1820.1
CRT -.8563 CRS -.9988 CST .8744
LSA 1869.8 MSA 168.3 SSA 9.7
EL1 443.9 EL2 121.7 ALF 140.32

LAUNCH DATE JUN 11 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 21 1967

DISTANCE 360.377

HELIOCENTRIC CONIC
RL 151.90 LAL -.00 LOL 259.41 VL 26.930 GAL -1.42 AZL 92.91 HCA 159.52 SMA 129.83 ECC .17170 INC 2.9105 V1 29.331
RP 107.98 LAP -1.02 LOP 58.96 VP 37.893 GAP -1.98 AZP 87.27 TAL 186.90 TAP 346.42 RCA 107.54 APO 152.13 V2 35.094
RC 81.139 GL -27.82 GP -6.47 ZAL 107.14 ZAP 68.84 ETS 2.29 ZAE 171.58 ETE 348.33 ZAC 96.57 ETC 13.42 CLP -68.70

PLANETOCENTRIC CONIC
C3 8.583 VHL 2.930 DLA -14.59 RAL 142.28 RAD 6567.3 VEL 11.401 PTH 1.97 VHP 2.998 DPA 1.04 RAP 169.80 ECC 1.1413

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 31 18	1561.22	-.21	3.32	351.55	118.32	5 57 20	961.2	3.58	356.69
90.00	13 38 55	5147.43	25.37	229.59	355.04	76.98	15 4 42	4547.4	23.32	221.51
100.00	6 44 49	1324.03	-1.07	345.40	351.07	119.87	7 6 53	724.0	2.91	338.88
100.00	15 8 5	4859.86	26.33	208.17	354.77	75.31	16 29 5	4259.9	24.05	200.11
110.00	7 35 34	1165.09	-3.30	331.96	349.68	124.04	7 54 59	565.1	1.19	325.75
110.00	16 33 50	4591.56	28.84	186.94	353.91	70.79	17 50 22	3991.6	25.95	178.95

DIFFERENTIAL CORRECTIONS
TDE .0867 TRA -.2750 TC3 -.0661 BAU .0481
RDE -.1612 RRA -.0257 RC3 -.4140 FAU .19856
FDE-3.6540 FRA -.2041 FC-20.0276 BSP 1336
BDE .1831 BRA .2762 BC3 .4192 FSP -3738

MID-COURSE EXECUTION ACCURACY
SGT 582.2 SGR 401.2 SG3 1187.6
RRT -.0651 RRF .9286 RTF -.0659
SGB 707.1 R23 -.9209 R13 .1195
SG1 583.3 SG2 399.6 THA 175.15

ORBIT DETERMINATION ACCURACY
ST 237.7 SR 315.8 SS 1853.5
CRT -.6772 CRS -.9991 CST .6996
LSA 1887.5 MSA 169.6 SSA 8.7
EL1 365.2 EL2 151.3 ALF 123.49

LAUNCH DATE JUN 11 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 23 1967

HELIOCENTRIC CONIC DISTANCE 366.801

```
RL  151.90 LAL   -.00 LOL 259.41 VL  26.940 GAL  -1.40 AZL  92.81 HCA 162.74 SMA 129.90 ECC .17104 INC 2.8138 V1  29.331
RP  107.94 LAP   -.83 LOP  62.17 VP  37.912 GAP  -1.52 AZP  87.31 TAL 186.82 TAP 349.56 RCA 107.68 APO 152.12 V2  35.107
RC  83.336 GL  -27.17 GP   -7.83 ZAL 107.14 ZAP  74.47 ETS   2.11 ZAE 174.61 ETE 321.59 ZAC  99.20 ETC  13.15 CLP -74.32
```

PLANETOCENTRIC CONIC

```
C3   8.384 VHL  2.896 DLA -14.02 RAL 142.62 RAD 6567.3 VEL 11.392 PTH   1.97 VHP  2.925 DPA    .73 RAP 167.07 ECC 1.1380
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 27 36	1576.68	-.71	4.18	351.54	118.31	5 53 52	976.7	3.08	357.55
90.00	13 45 20	5123.12	24.98	227.91	354.86	76.22	15 10 43	4523.1	22.84	219.89
100.00	6 41 30	1338.21	-1.55	346.18	351.07	119.86	7 3 49	738.2	2.43	339.66
100.00	15 14 6	4836.83	25.92	206.58	354.59	74.57	16 34 43	4236.8	23.55	198.59
110.00	7 33 6	1176.62	-3.74	332.56	349.71	124.00	7 52 42	576.6	.75	326.35
110.00	16 39 0	4571.18	28.37	185.53	353.72	70.08	17 55 11	3971.2	25.39	177.62

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .0101 TRA -.2778 TC3 -.4998 BAU  .0857   SGT  636.6 SGR  480.7 SG3 1248.3      ST   171.4 SR   342.2 SS  1866.2
RDE -.1727 RRA -.0228 RC3 -.5783 FAU .20770   RRT  .3803 RRF  .9639 RTF  .3948     CRT -.0751 CRS -.9994 CST  .1013
FDE-3.7264 FRA -.1592 FC-21.4465 BSP  1500    SGB  797.7 R23  .7260 R13  .6348     LSA 1897.3 MSA  170.8 SSA    7.6
BDE  .1730 BRA  .2788 BC3  .7644 FSP  -3939   SG1  680.9 SG2  415.7 THA  26.59     EL1  342.5 EL2  170.8 ALF  92.87
```

LAUNCH DATE JUN 11 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 25 1967

HELIOCENTRIC CONIC DISTANCE 373.204

```
RL  151.90 LAL   -.00 LOL 259.41 VL  26.946 GAL  -1.37 AZL  92.67 HCA 165.96 SMA 129.94 ECC .17059 INC 2.6740 V1  29.331
RP  107.91 LAP   -.65 LOP  65.39 VP  37.928 GAP  -1.07 AZP  87.41 TAL 186.68 TAP 352.64 RCA 107.78 APO 152.11 V2  35.119
RC  85.546 GL  -26.14 GP   -9.74 ZAL 107.07 ZAP  80.17 ETS   1.77 ZAE 174.47 ETE 270.65 ZAC 102.03 ETC  12.67 CLP -80.03
```

PLANETOCENTRIC CONIC

```
C3   8.143 VHL  2.854 DLA -13.14 RAL 143.22 RAD 6567.3 VEL 11.381 PTH   1.97 VHP  2.884 DPA   -.08 RAP 164.06 ECC 1.1340
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 22 14	1601.87	-1.52	5.59	351.71	118.28	5 48 56	1001.9	2.27	358.96
90.00	13 55 29	5087.01	24.38	225.44	354.79	75.13	15 20 16	4487.0	22.10	217.51
100.00	6 36 45	1361.48	-2.34	347.46	351.25	119.81	6 59 26	761.5	1.64	340.94
100.00	15 23 40	4802.63	25.28	204.24	354.51	73.49	16 43 42	4202.6	22.78	196.34
110.00	7 29 37	1195.91	-4.47	333.57	349.93	123.92	7 49 33	595.9	.01	327.36
110.00	16 47 17	4540.97	27.65	183.48	353.61	69.06	18 2 58	3941.0	24.55	175.68

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE -.0650 TRA -.2777 TC3 -.9901 BAU  .1392   SGT  815.0 SGR  599.7 SG3 1290.3      ST   216.4 SR   381.2 SS  1845.3
RDE -.1896 RRA -.0186 RC3 -.8090 FAU .21379   RRT  .6803 RRF  .9840 RTF  .6900     CRT  .6289 CRS -.9996 CST -.6119
FDE-3.6835 FRA -.0875 FC-22.7298 BSP  2294    SGB 1011.8 R23  .5043 R13  .8454     LSA 1888.9 MSA  170.8 SSA    6.5
BDE  .2005 BRA  .2783 BC3 1.2786 FSP  -4089   SG1  936.8 SG2  382.4 THA  32.69     EL1  409.4 EL2  156.6 ALF  66.76
```

LAUNCH DATE JUN 11 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 27 1967

HELIOCENTRIC CONIC DISTANCE 379.588

```
RL  151.90 LAL   -.00 LOL 259.41 VL  26.949 GAL  -1.32 AZL  92.45 HCA 169.19 SMA 129.96 ECC .17033 INC 2.4527 V1  29.331
RP  107.87 LAP   -.46 LOP  68.60 VP  37.940 GAP   -.63 AZP  87.59 TAL 186.47 TAP 355.65 RCA 107.82 APO 152.10 V2  35.131
RC  87.767 GL  -24.36 GP  -12.66 ZAL 106.97 ZAP  85.86 ETS   1.14 ZAE 170.37 ETE 244.43 ZAC 105.04 ETC  11.78 CLP -85.75
```

PLANETOCENTRIC CONIC

```
C3   7.821 VHL  2.797 DLA -11.60 RAL 144.21 RAD 6567.3 VEL 11.367 PTH   1.96 VHP  2.880 DPA  -1.84 RAP 160.68 ECC 1.1287
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 13 9	1646.48	-2.96	8.08	352.11	118.17	5 40 35	1046.5	.83	1.45
90.00	14 12 29	5027.50	23.28	221.43	354.79	73.40	15 36 17	4427.5	20.78	213.64
100.00	6 28 37	1402.99	-3.74	349.74	351.67	119.68	6 52 0	803.0	.23	343.21
100.00	15 39 42	4746.22	24.14	200.44	354.49	71.81	16 58 48	4146.2	21.42	192.70
110.00	7 23 35	1230.87	-5.80	335.41	350.40	123.75	7 44 5	630.9	-1.32	329.18
110.00	17 1 14	4491.10	26.40	180.14	353.57	67.45	18 16 5	3891.1	23.11	172.53

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE -.1313 TRA -.2719 TC3-1.5536 BAU  .2026   SGT 1072.8 SGR  780.8 SG3 1297.8      ST   319.6 SR   435.3 SS  1752.3
RDE -.2123 RRA -.0096 RC3-1.1588 FAU .21438   RRT  .8257 RRF  .9941 RTF  .8291     CRT  .8518 CRS -.9998 CST -.8423
FDE-3.4319 FRA  .0549 FC-23.7307 BSP  3433    SGB 1326.8 R23  .3766 R13  .9201     LSA 1825.8 MSA  170.3 SSA    5.5
BDE  .2496 BRA  .2721 BC3 1.9381 FSP  -4114   SG1 1273.9 SG2  370.9 THA  34.31     EL1  521.7 EL2  139.7 ALF  55.11
```

LAUNCH DATE JUN 11 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 29 1967

HELIOCENTRIC CONIC DISTANCE 385.950

```
RL  151.90 LAL   -.00 LOL 259.41 VL  26.948 GAL  -1.27 AZL  92.05 HCA 172.41 SMA 129.95 ECC .17025 INC 2.0467 V1  29.331
RP  107.83 LAP   -.27 LOP  71.82 VP  37.951 GAP   -.20 AZP  87.97 TAL 186.19 TAP 358.60 RCA 107.83 APO 152.08 V2  35.143
RC  89.996 GL  -20.81 GP  -17.77 ZAL 106.94 ZAP  91.35 ETS 359.93 ZAE 163.71 ETE 239.03 ZAC 108.29 ETC   9.91 CLP -91.41
```

PLANETOCENTRIC CONIC

```
C3   7.339 VHL  2.709 DLA  -8.46 RAL 145.94 RAD 6567.2 VEL 11.346 PTH   1.96 VHP  2.938 DPA  -5.70 RAP 156.58 ECC 1.1208
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 54 38	1738.07	-5.88	13.22	352.99	117.75	5 23 36	1138.1	-2.12	6.56
90.00	14 44 50	4912.87	20.85	213.90	354.89	70.39	16 6 42	4312.9	17.99	206.40
100.00	6 11 52	1488.89	-6.62	354.49	352.59	119.22	6 36 41	888.9	-2.68	347.93
100.00	16 10 16	4637.28	21.63	193.32	354.58	68.85	17 27 34	4037.3	18.57	185.87
110.00	7 10 45	1304.49	-8.56	339.31	351.40	123.22	7 32 30	704.5	-4.13	333.03
110.00	17 27 52	4394.44	23.72	173.91	353.61	64.63	18 41 7	3794.4	20.11	166.63

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE -.1686 TRA -.2516 TC3-2.2298 BAU  .2806   SGT 1369.7 SGR 1094.1 SG3 1257.6      ST   393.0 SR   508.5 SS  1530.8
RDE -.2390 RRA  .0098 RC3-1.7904 FAU .20721   RRT  .8948 RRF  .9984 RTF  .8952     CRT  .9057 CRS -.9999 CST -.8996
FDE-2.8438 FRA  .2580 FC-24.4423 BSP  4930    SGB 1753.1 R23  .2779 R13  .9589     LSA 1651.2 MSA  167.3 SSA    4.6
BDE  .2925 BRA  .2518 BC3 2.8597 FSP  -4005   SG1 1708.8 SG2  391.6 THA  37.90     EL1  626.8 EL2  134.6 ALF  52.90
```

LAUNCH DATE JUN 11 1967 FLIGHT TIME 142.00 ARRIVAL DATE OCT 31 1967

HELIOCENTRIC CONIC DISTANCE 392.292
RL 151.90 LAL -.00 LOL 259.41 VL 26.944 GAL -1.20 AZL 91.05 HCA 175.64 SMA 129.93 ECC .17035 INC 1.0398 V1 29.331
RP 107.80 LAP -.08 LOP 75.05 VP 37.958 GAP .22 AZP 88.96 TAL 185.84 TAP 1.48 RCA 107.79 APO 152.06 V2 35.154
RC 92.232 GL -11.07 GP -29.13 ZAL 107.19 ZAP 96.10 ETS 357.13 ZAE 151.70 ETE 243.25 ZAC 111.84 ETC 5.12 CLP -96.99

PLANETOCENTRIC CONIC
C3 6.558 VHL 2.561 DLA .45 RAL 149.95 RAD 6567.2 VEL 11.312 PTH 1.94 VHP 3.198 DPA -15.46 RAP 150.25 ECC 1.1079

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 3 24	1997.55	-13.78	28.19	356.20	114.98	4 36 41	1397.6	-10.30	21.24
90.00	16 8 2	4613.90	12.98	195.50	356.10	64.61	17 24 56	4013.9	9.45	188.60
100.00	5 24 56	1734.50	-14.47	8.50	355.85	116.44	5 53 51	1134.5	-10.81	1.63
100.00	17 29 11	4352.18	13.67	175.91	355.76	63.16	18 41 43	3752.2	9.96	169.08
110.00	6 33 40	1519.39	-16.31	351.14	354.82	120.46	6 58 59	919.4	-12.15	344.51
110.00	18 36 57	4140.05	15.50	158.76	354.71	59.15	19 45 57	3540.1	11.30	152.18

DIFFERENTIAL CORRECTIONS
TDE -.0972 TRA -.1823 TC3-3.1290 BAU .3948
RDE -.2097 RRA .0823 RC3-3.2385 FAU .17639
FDE-1.3876 FRA .6305 FC-23.2837 BSP 7108
BDE .2312 BRA .2001 BC3 4.5031 FSP -3392

MID-COURSE EXECUTION ACCURACY
SGT 1668.0 SGR 1733.6 SG3 1071.7
RRT .9286 RRF .9998 RTF .9286
SGB 2405.7 R23 .1807 R13 .9833
SG1 2362.5 SG2 454.2 THA 46.19

ORBIT DETERMINATION ACCURACY
ST 254.1 SR 475.1 SS 871.2
CRT .8090 CRS -.9998 CST -.7993
LSA 1013.5 MSA 148.9 SSA 4.9
EL1 521.3 EL2 136.1 ALF 64.76

LAUNCH DATE JUN 11 1967 FLIGHT TIME 144.00 ARRIVAL DATE NOV 2 1967

HELIOCENTRIC CONIC DISTANCE 398.605
RL 151.90 LAL -.00 LOL 259.41 VL 26.937 GAL -1.11 AZL 84.40 HCA 178.86 SMA 129.88 ECC .17060 INC 5.5748 V1 29.331
RP 107.77 LAP .11 LOP 78.27 VP 37.963 GAP .62 AZP 95.59 TAL 185.43 TAP 4.28 RCA 107.72 APO 152.04 V2 35.165
RC 94.474 GL 45.00 GP -67.90 ZAL 101.15 ZAP 95.40 ETS 348.26 ZAE 114.10 ETE 251.17 ZAC 111.23 ETC 346.91 CLP-104.49

PLANETOCENTRIC CONIC
C3 13.790 VHL 3.713 DLA 50.72 RAL 179.31 RAD 6567.5 VEL 11.627 PTH 2.04 VHP 6.400 DPA -49.23 RAP 126.70 ECC 1.2269

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
45.98	19 46 11	4218.05	-36.92	197.77	51.40	52.36	20 56 29	3618.0	-41.52	189.72
134.02	4 19 26	2684.50	-36.91	76.49	51.39	52.35	5 4 11	2084.5	-41.51	68.44
45.98	19 46 11	4218.05	-36.92	197.77	51.40	52.36	20 56 29	3618.0	-41.52	189.72
134.02	4 19 26	2684.50	-36.91	76.49	51.39	52.35	5 4 11	2084.5	-41.51	68.44
45.98	19 46 11	4218.05	-36.92	197.77	51.40	52.36	20 56 29	3618.0	-41.52	189.72
134.02	4 19 26	2684.50	-36.91	76.49	51.39	52.35	5 4 11	2084.5	-41.51	68.44

DIFFERENTIAL CORRECTIONS
TDE 1.1017 TRA .4384 TC3-1.4867 BAU .5142
RDE 1.1037 RRA .9178 RC3-2.3599 FAU .04134
FDE 1.2532 FRA 1.0171 FC3-2.5956 BSP 8128
BDE 1.5595 BRA 1.0171 BC3 2.7891 FSP -695

MID-COURSE EXECUTION ACCURACY
SGT 2291.4 SGR 3312.8 SG3 318.6
RRT .9511 RRF .9999 RTF .9543
SGB 4028.1 R23 .0893 R13 .9960
SG1 3984.9 SG2 588.2 THA 55.81

ORBIT DETERMINATION ACCURACY
ST 1730.1 SR 1831.1 SS 1146.0
CRT .9822 CRS-1.0000 CST -.9837
LSA 2756.1 MSA 252.0 SSA .5
EL1 2508.0 EL2 237.5 ALF 46.65

LAUNCH DATE JUN 11 1967 FLIGHT TIME 146.00 ARRIVAL DATE NOV 4 1967

HELIOCENTRIC CONIC DISTANCE 404.933
RL 151.90 LAL -.00 LOL 259.41 VL 26.927 GAL -1.03 AZL 98.25 HCA 182.11 SMA 129.81 ECC .17103 INC 8.2460 V1 29.331
RP 107.73 LAP .30 LOP 81.50 VP 37.966 GAP 1.03 AZP 81.76 TAL 184.98 TAP 7.09 RCA 107.61 APO 152.02 V2 35.175
RC 96.719 GL -54.37 GP 49.11 ZAL 98.18 ZAP 101.74 ETS 15.14 ZAE 124.77 ETE 117.10 ZAC 92.98 ETC 27.10 CLP-108.11

PLANETOCENTRIC CONIC
C3 22.594 VHL 4.753 DLA -40.44 RAL 134.05 RAD 6567.9 VEL 11.999 PTH 2.14 VHP 4.257 DPA 57.07 RAP 185.94 ECC 1.3718

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.82	5 39 36	1553.72	26.30	18.32	8.59	121.90	6 5 29	953.7	30.31	10.87
120.18	12 24 59	5577.75	26.32	259.89	8.60	121.89	13 57 57	4977.8	30.33	252.44
59.82	5 39 36	1553.72	26.30	18.32	8.59	121.90	6 5 29	953.7	30.31	10.87
120.18	12 24 59	5577.75	26.32	259.89	8.60	121.89	13 57 57	4977.8	30.33	252.44
59.82	5 39 36	1553.72	26.30	18.32	8.59	121.90	6 5 29	953.7	30.31	10.87
120.18	12 24 59	5577.75	26.32	259.89	8.60	121.89	13 57 57	4977.8	30.33	252.44

DIFFERENTIAL CORRECTIONS
TDE-1.4167 TRA -.6641 TC3-1.1365 BAU .4936
RDE 1.8704 RRA .2540 RC3 1.1742 FAU .08995
FDE-5.3492 FRA -.7993 FC3-3.4465 BSP 10053
BDE 2.3464 BRA .7110 BC3 1.6341 FSP -1924

MID-COURSE EXECUTION ACCURACY
SGT 2278.2 SGR 2547.7 SG3 634.4
RRT -.9440 RRF -.9998 RTF .9495
SGB 3417.7 R23 .1312 R13 -.9913
SG1 3370.2 SG2 568.0 THA 131.62

ORBIT DETERMINATION ACCURACY
ST 1736.9 SR 2258.0 SS 2376.1
CRT -.9917 CRS 1.0000 CST -.9923
LSA 3704.5 MSA 194.0 SSA .6
EL1 2843.2 EL2 177.8 ALF 127.51

LAUNCH DATE JUN 11 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 6 1967

HELIOCENTRIC CONIC DISTANCE 411.218
RL 151.90 LAL -.00 LOL 259.41 VL 26.915 GAL -.92 AZL 95.30 HCA 185.34 SMA 129.73 ECC .17158 INC 5.3027 V1 29.331
RP 107.70 LAP .49 LOP 84.72 VP 37.967 GAP 1.43 AZP 84.72 TAL 184.45 TAP 9.79 RCA 107.47 APO 151.99 V2 35.185
RC 98.967 GL -43.63 GP 23.21 ZAL 100.01 ZAP 110.27 ETS 10.02 ZAE 145.17 ETE 135.70 ZAC 104.39 ETC 23.61 CLP-112.15

PLANETOCENTRIC CONIC
C3 12.997 VHL 3.605 DLA -30.91 RAL 140.16 RAD 6567.5 VEL 11.592 PTH 2.03 VHP 3.229 DPA 35.13 RAP 165.47 ECC 1.2139

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.07	7 43 32	1125.94	23.79	343.16	2.72	110.33	8 2 18	525.9	26.34	335.21
102.93	11 9 45	5750.88	23.80	272.14	2.72	110.32	12 45 36	5150.9	26.35	264.19
77.07	7 43 32	1125.94	23.79	343.16	2.72	110.33	8 2 18	525.9	26.34	335.21
102.93	11 9 45	5750.88	23.80	272.14	2.72	110.32	12 45 36	5150.9	26.35	264.19
110.00	10 3 48	669.53	15.22	305.54	358.35	120.98	10 14 58	69.5	19.22	298.70
110.00	13 48 39	5255.30	32.98	237.16	5.50	99.54	15 16 14	4655.3	33.95	228.06

DIFFERENTIAL CORRECTIONS
TDE-1.0974 TRA -.4634 TC3-2.3935 BAU .4558
RDE .6260 RRA .0308 RC3 1.0736 FAU .16030
FDE-5.8816 FRA -.3511 FC-10.6779 BSP 8487
BDE 1.2634 BRA .4644 BC3 2.6232 FSP -3178

MID-COURSE EXECUTION ACCURACY
SGT 2599.4 SGR 1261.8 SG3 1047.8
RRT -.9512 RRF -.9996 RTF .9563
SGB 2889.5 R23 .2356 R13 -.9716
SG1 2867.8 SG2 352.9 THA 154.81

ORBIT DETERMINATION ACCURACY
ST 1763.8 SR 995.3 SS 2609.3
CRT -.9916 CRS 1.0000 CST -.9921
LSA 3297.7 MSA 188.1 SSA 1.2
EL1 2022.1 EL2 112.1 ALF 150.67

LAUNCH DATE JUN 11 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 8 1967

HELIOCENTRIC CONIC DISTANCE 417.482

RL 151.90 LAL -.00 LOL 259.41 VL 26.901 GAL -.80 AZL 94.58 HCA 188.57 SMA 129.64 ECC .17228 INC 4.5749 V1 29.331
RP 107.67 LAP .68 LOP 87.95 VP 37.966 GAP 1.82 AZP 85.48 TAL 183.87 TAP 12.44 RCA 107.30 APO 151.97 V2 35.195
RC 101.218 GL -39.73 GP 14.52 ZAL 99.81 ZAP 115.60 ETS 8.04 ZAE 148.37 ETE 150.28 ZAC 108.60 ETC 21.71 CLP-116.50

PLANETOCENTRIC CONIC

C3 11.268 VHL 3.357 DLA -27.71 RAL 142.86 RAD 6567.4 VEL 11.518 PTH 2.01 VHP 3.167 DPA 27.57 RAP 160.29 ECC 1.1854

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 45 56	931.83	18.66	326.76	1.15	111.69	9 1 28	331.8	21.44	319.19
90.00	10 28 56	5884.70	25.51	282.53	3.44	102.72	12 7 1	5284.7	27.01	274.19
100.00	9 23 6	811.72	15.63	316.55	359.75	115.81	9 36 38	211.7	18.97	309.36
100.00	12 34 28	5480.05	28.76	253.44	4.12	98.51	14 5 48	4880.0	29.64	244.75
110.00	9 30 4	789.83	10.90	312.18	357.04	122.60	9 43 14	189.8	15.12	305.63
110.00	14 43 59	5074.69	34.16	223.21	4.67	91.38	16 8 34	4474.7	33.97	213.97

DIFFERENTIAL CORRECTIONS
TDE-1.0871 TRA -.4034 TC3-3.1086 BAU .4811
RDE .3488 RRA .0044 RC3 .7325 FAU .17114
FDE-5.4223 FRA -.0847 FC-13.1488 BSP 8946
BDE 1.1416 BRA .4034 BC3 3.1937 FSP -3450

MID-COURSE EXECUTION ACCURACY
SGT 2898.8 SGR 772.2 SG3 1105.1
RRT -.9549 RRF -.9975 RTF .9634
SGB 2999.9 R23 .2426 R13 -.9682
SG1 2991.6 SG2 222.3 THA 165.65

ORBIT DETERMINATION ACCURACY
ST 1871.1 SR 595.5 SS 2533.6
CRT -.9927 CRS 1.0000 CST -.9928
LSA 3200.2 MSA 182.0 SSA 2.2
EL1 1962.4 EL2 68.6 ALF 162.45

LAUNCH DATE JUN 11 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 10 1967

HELIOCENTRIC CONIC DISTANCE 423.728

RL 151.90 LAL -.00 LOL 259.41 VL 26.885 GAL -.68 AZL 94.24 HCA 191.81 SMA 129.52 ECC .17312 INC 4.2443 V1 29.331
RP 107.65 LAP .87 LOP 91.19 VP 37.962 GAP 2.21 AZP 85.84 TAL 183.24 TAP 15.05 RCA 107.10 APO 151.95 V2 35.204
RC 103.470 GL -37.72 GP 10.34 ZAL 99.06 ZAP 120.06 ETS 7.01 ZAE 147.79 ETE 159.28 ZAC 110.84 ETC 20.63 CLP-120.61

PLANETOCENTRIC CONIC

C3 10.576 VHL 3.252 DLA -26.30 RAL 144.85 RAD 6567.4 VEL 11.488 PTH 2.00 VHP 3.220 DPA 24.00 RAP 157.69 ECC 1.1740

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 11 42	1058.63	15.29	334.54	.88	114.13	8 29 20	458.6	18.42	327.27
90.00	11 19 0	5731.92	27.36	271.74	4.55	97.62	12 54 32	5131.9	28.13	263.16
100.00	9 4 10	889.14	13.28	321.10	359.89	117.03	9 19 0	289.1	16.80	314.08
100.00	13 9 12	5376.64	29.57	245.86	4.82	94.60	14 38 49	4776.6	29.89	237.07
110.00	9 22 11	832.63	9.32	314.49	357.55	123.04	9 36 3	232.6	13.61	308.02
110.00	15 7 41	5005.91	34.14	217.84	4.95	88.20	16 31 7	4405.9	33.52	208.66

DIFFERENTIAL CORRECTIONS
TDE-1.1320 TRA -.3628 TC3-3.6472 BAU .5202
RDE .2370 RRA -.0018 RC3 .4853 FAU .16759
FDE-4.9812 FRA .1186 FC-13.7189 BSP 9746
BDE 1.1566 BRA .3628 BC3 3.6794 FSP -3427

MID-COURSE EXECUTION ACCURACY
SGT 3180.2 SGR 523.4 SG3 1081.5
RRT -.9486 RRF -.9892 RTF .9672
SGB 3223.0 R23 .2190 R13 -.9690
SG1 3218.8 SG2 163.7 THA 171.10

ORBIT DETERMINATION ACCURACY
ST 2007.2 SR 417.6 SS 2442.9
CRT -.9939 CRS 1.0000 CST -.9934
LSA 3184.2 MSA 178.8 SSA 3.3
EL1 2049.7 EL2 44.9 ALF 168.31

LAUNCH DATE JUN 11 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 12 1967

HELIOCENTRIC CONIC DISTANCE 429.957

RL 151.90 LAL -.00 LOL 259.41 VL 26.867 GAL -.54 AZL 94.05 HCA 195.05 SMA 129.40 ECC .17409 INC 4.0543 V1 29.331
RP 107.62 LAP 1.05 LOP 94.42 VP 37.957 GAP 2.59 AZP 86.08 TAL 182.56 TAP 17.60 RCA 106.87 APO 151.93 V2 35.212
RC 105.723 GL -36.46 GP 7.91 ZAL 98.04 ZAP 124.06 ETS 6.36 ZAE 146.20 ETE 164.90 ZAC 112.20 ETC 19.92 CLP-124.44

PLANETOCENTRIC CONIC

C3 10.218 VHL 3.196 DLA -25.63 RAL 146.62 RAD 6567.4 VEL 11.472 PTH 1.99 VHP 3.310 DPA 21.94 RAP 156.15 ECC 1.1682

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 4 29	1099.96	14.13	337.02	1.72	114.80	8 22 49	500.0	17.35	329.83
90.00	11 40 22	5676.69	27.79	267.75	5.69	95.67	13 14 58	5076.7	28.28	259.12
100.00	9 0 29	919.14	12.35	322.84	.82	117.44	9 15 48	319.1	15.93	315.88
100.00	13 27 3	5332.74	29.76	242.62	5.86	92.90	14 55 56	4732.7	29.85	233.81
110.00	9 22 19	850.65	8.65	315.46	358.63	123.20	9 36 30	250.7	12.96	309.01
110.00	15 21 42	4974.00	34.05	215.35	5.85	86.73	16 44 36	4374.0	33.22	206.21

DIFFERENTIAL CORRECTIONS
TDE-1.1935 TRA -.3243 TC3-4.0876 BAU .5600
RDE .1803 RRA -.0018 RC3 .3080 FAU .15947
FDE-4.6004 FRA .2797 FC-13.5119 BSP 10520
BDE 1.2070 BRA .3243 BC3 4.0992 FSP -3279

MID-COURSE EXECUTION ACCURACY
SGT 3438.2 SGR 378.4 SG3 1032.9
RRT -.9250 RRF -.9654 RTF .9696
SGB 3459.0 R23 .1762 R13 -.9704
SG1 3456.0 SG2 143.0 THA 174.18

ORBIT DETERMINATION ACCURACY
ST 2149.4 SR 323.2 SS 2359.9
CRT -.9955 CRS .9998 CST -.9939
LSA 3203.6 MSA 175.8 SSA 4.5
EL1 2173.4 EL2 30.4 ALF 171.49

LAUNCH DATE JUN 11 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 14 1967

HELIOCENTRIC CONIC DISTANCE 436.166

RL 151.90 LAL -.00 LOL 259.41 VL 26.847 GAL -.39 AZL 93.93 HCA 198.29 SMA 129.27 ECC .17520 INC 3.9304 V1 29.331
RP 107.60 LAP 1.23 LOP 97.66 VP 37.950 GAP 2.96 AZP 86.27 TAL 181.82 TAP 20.11 RCA 106.62 APO 151.91 V2 35.220
RC 107.975 GL -35.56 GP 6.32 ZAL 96.82 ZAP 127.71 ETS 5.90 ZAE 144.36 ETE 168.58 ZAC 112.99 ETC 19.38 CLP-127.99

PLANETOCENTRIC CONIC

C3 10.015 VHL 3.165 DLA -25.35 RAL 148.35 RAD 6567.4 VEL 11.463 PTH 1.99 VHP 3.419 DPA 20.57 RAP 155.24 ECC 1.1648

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 5 54	1114.66	13.70	337.89	3.01	115.02	8 24 29	514.7	16.97	330.73
90.00	11 52 46	5653.97	27.93	266.11	7.06	94.85	13 27 0	5054.0	28.31	257.46
100.00	9 3 6	929.98	12.01	323.46	2.15	117.58	9 18 36	330.0	15.61	316.52
100.00	13 38 15	5313.88	29.82	241.22	7.19	92.17	15 6 49	4713.9	29.80	232.41
110.00	9 26 23	856.97	8.42	315.79	.01	123.25	9 40 40	257.0	12.73	309.36
110.00	15 31 28	4959.66	33.98	214.24	7.12	86.08	16 54 8	4359.7	33.07	205.12

DIFFERENTIAL CORRECTIONS
TDE-1.2612 TRA -.2816 TC3-4.4631 BAU .5980
RDE .1482 RRA .0006 RC3 .1760 FAU .14993
FDE-4.2665 FRA .4220 FC-12.9605 BSP 11295
BDE 1.2699 BRA .2816 BC3 4.4666 FSP -3115

MID-COURSE EXECUTION ACCURACY
SGT 3675.9 SGR 290.5 SG3 976.3
RRT -.8690 RRF -.9095 RTF .9711
SGB 3687.3 R23 .1300 R13 -.9714
SG1 3684.5 SG2 143.4 THA 176.07

ORBIT DETERMINATION ACCURACY
ST 2291.3 SR 268.3 SS 2284.1
CRT -.9971 CRS .9992 CST -.9943
LSA 3241.8 MSA 172.9 SSA 5.6
EL1 2306.8 EL2 20.4 ALF 173.34

LAUNCH DATE JUN 11 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 16 1967

HELIOCENTRIC CONIC DISTANCE 442.358

```
RL  151.90 LAL   -.00 LOL 259.41 VL  26.825 GAL   -.22 AZL  93.84 HCA 201.53 SMA 129.12 ECC .17644 INC 3.8425 V1  29.331
RP  107.58 LAP   1.41 LOP 100.89 VP  37.941 GAP   3.33 AZP  86.42 TAL 181.05 TAP  22.57 RCA 106.34 APO 151.90 V2  35.227
RC 110.226 GL  -34.84 GP    5.21 ZAL  95.46 ZAP 131.07 ETS   5.55 ZAE 142.54 ETE 171.12 ZAC 113.39 ETC  18.94 CLP-131.27
```

PLANETOCENTRIC CONIC

```
C3   9.902 VHL  3.147 DLA -25.30 RAL 150.11 RAD 6567.4 VEL 11.458 PTH   1.99 VHP  3.540 DPA  19.54 RAP 154.78 ECC 1.1630
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 11 53	1115.97	13.67	337.97	4.59	115.04	8 30 29	516.0	16.93	330.81
90.00	12 0 49	5648.16	27.96	265.68	8.63	94.64	13 34 57	5048.2	28.31	257.04
100.00	9 9 18	930.58	11.99	323.50	3.74	117.59	9 24 49	330.6	15.59	316.56
100.00	13 46 5	5308.78	29.83	240.84	8.76	91.97	15 14 34	4708.8	29.79	232.03
110.00	9 32 50	856.73	8.43	315.78	1.61	123.25	9 47 7	256.7	12.74	309.35
110.00	15 39 2	4955.40	33.96	213.91	8.66	85.88	17 1 37	4355.4	33.02	204.80

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-1.3298 TRA -.2312 TC3-4.7733 BAU  .6320    SGT 3886.3 SGR  239.7 SG3  914.8     ST  2426.9 SR   235.1 SS  2211.1
RDE  .1291 RRA  .0041 RC3  .0729 FAU .13932    RRT -.7632 RRF -.8035 RTF  .9717    CRT -.9984 CRS  .9980 CST -.9946
FDE-3.9643 FRA  .5546 FC-12.1802 BSP  11967    SGB 3893.7 R23  .0941 R13 -.9719    LSA 3287.1 MSA  170.0 SSA    6.8
BDE 1.3360 BRA  .2312 BC3 4.7738 FSP  -2922    SG1 3890.6 SG2  154.7 THA 177.30    EL1 2438.2 EL2   13.2 ALF 174.48
```

LAUNCH DATE JUN 11 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 18 1967

HELIOCENTRIC CONIC DISTANCE 448.530

```
RL  151.90 LAL   -.00 LOL 259.41 VL  26.802 GAL   -.05 AZL  93.78 HCA 204.77 SMA 128.97 ECC .17781 INC 3.7768 V1  29.331
RP  107.56 LAP   1.58 LOP 104.13 VP  37.931 GAP   3.70 AZP  86.57 TAL 180.23 TAP  25.00 RCA 106.03 APO 151.90 V2  35.233
RC 112.475 GL  -34.23 GP    4.40 ZAL  93.97 ZAP 134.16 ETS   5.26 ZAE 140.82 ETE 172.96 ZAC 113.45 ETC  18.55 CLP-134.33
```

PLANETOCENTRIC CONIC

```
C3   9.852 VHL  3.139 DLA -25.39 RAL 151.93 RAD 6567.4 VEL 11.456 PTH   1.99 VHP  3.670 DPA  18.71 RAP 154.67 ECC 1.1621
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 20 49	1109.17	13.86	337.57	6.40	114.94	8 39 18	509.2	17.11	330.40
90.00	12 6 22	5652.93	27.94	266.03	10.39	94.82	13 40 35	5052.9	28.31	257.39
100.00	9 17 53	924.93	12.17	323.17	5.54	117.52	9 33 18	324.9	15.76	316.22
100.00	13 52 0	5312.40	29.82	241.11	10.52	92.11	15 20 32	4712.4	29.80	232.30
110.00	9 40 59	852.46	8.58	315.55	3.41	123.22	9 55 11	252.5	12.90	309.11
110.00	15 45 23	4957.64	33.97	214.08	10.44	85.98	17 8 0	4357.6	33.05	204.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-1.4073 TRA -.1878 TC3-5.0935 BAU  .6709    SGT 4119.1 SGR  217.4 SG3  866.9     ST  2573.2 SR   216.6 SS  2162.5
RDE  .1186 RRA  .0096 RC3 -.0037 FAU .13173    RRT -.6210 RRF -.6566 RTF  .9738    CRT -.9991 CRS  .9961 CST -.9951
FDE-3.7282 FRA  .6158 FC-11.5[illegible]59 BSP  13003    SGB 4124.8 R23  .0649 R13 -.9739    LSA 3364.2 MSA  164.2 SSA    7.9
BDE 1.4123 BRA  .1881 BC3 5.0935 FSP  -2885    SG1 4121.3 SG2  170.3 THA 178.12    EL1 2582.3 EL2    8.9 ALF 175.19
```

LAUNCH DATE JUN 11 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 20 1967

HELIOCENTRIC CONIC DISTANCE 454.683

```
RL  151.90 LAL   -.00 LOL 259.41 VL  26.778 GAL    .14 AZL  93.73 HCA 208.01 SMA 128.80 ECC .17932 INC 3.7254 V1  29.331
RP  107.54 LAP   1.75 LOP 107.37 VP  37.919 GAP   4.07 AZP  86.71 TAL 179.37 TAP  27.38 RCA 105.71 APO 151.90 V2  35.239
RC 114.720 GL  -33.67 GP    3.78 ZAL  92.37 ZAP 137.02 ETS   5.01 ZAE 139.23 ETE 174.32 ZAC 113.24 ETC  18.19 CLP-137.15
```

PLANETOCENTRIC CONIC

```
C3   9.850 VHL  3.138 DLA -25.58 RAL 153.82 RAD 6567.4 VEL 11.456 PTH   1.99 VHP  3.808 DPA  17.99 RAP 154.86 ECC 1.1621
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 32 2	1096.64	14.22	336.82	8.41	114.75	8 50 19	496.6	17.44	329.63
90.00	12 10 15	5665.39	27.86	266.94	12.32	95.26	13 44 41	5065.4	28.30	258.30
100.00	9 28 18	914.98	12.48	322.60	7.54	117.38	9 43 33	315.0	16.05	315.63
100.00	13 56 41	5322.29	29.80	241.84	12.47	92.50	15 25 23	4722.3	29.83	233.04
110.00	9 50 26	845.52	8.84	315.18	5.38	123.15	10 4 32	245.5	13.15	308.73
110.00	15 51 2	4964.51	34.01	214.62	12.42	86.30	17 13 46	4364.5	33.12	205.49

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-1.4657 TRA -.1106 TC3-5.2656 BAU  .6935    SGT 4258.4 SGR  211.0 SG3  795.8     ST  2678.4 SR   204.2 SS  2066.9
RDE  .1118 RRA  .0137 RC3 -.0731 FAU .11908    RRT -.4458 RRF -.4797 RTF  .9717    CRT -.9989 CRS  .9925 CST -.9949
FDE-3.4295 FRA  .7785 FC-10.4661 BSP  13082    SGB 4263.6 R23  .0511 R13 -.9717    LSA 3385.3 MSA  164.8 SSA    9.1
BDE 1.4699 BRA  .1115 BC3 5.2662 FSP  -2512    SG1 4259.5 SG2  188.8 THA 178.73    EL1 2686.2 EL2    9.5 ALF 175.64
```

LAUNCH DATE JUN 11 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 22 1967

HELIOCENTRIC CONIC DISTANCE 460.817

```
RL  151.90 LAL   -.00 LOL 259.41 VL  26.752 GAL    .34 AZL  93.68 HCA 211.26 SMA 128.63 ECC .18096 INC 3.6839 V1  29.331
RP  107.52 LAP   1.91 LOP 110.62 VP  37.906 GAP   4.43 AZP  86.85 TAL 178.47 TAP  29.72 RCA 105.35 APO 151.91 V2  35.244
RC 116.961 GL  -33.13 GP    3.29 ZAL  90.66 ZAP 139.67 ETS   4.79 ZAE 137.78 ETE 175.37 ZAC 112.80 ETC  17.84 CLP-139.78
```

PLANETOCENTRIC CONIC

```
C3   9.891 VHL  3.145 DLA -25.83 RAL 155.80 RAD 6567.4 VEL 11.458 PTH   1.99 VHP  3.953 DPA  17.32 RAP 155.28 ECC 1.1628
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 45 6	1079.89	14.70	335.82	10.62	114.48	9 3 6	479.9	17.88	328.59
90.00	12 12 58	5683.80	27.74	268.27	14.41	95.92	13 47 42	5083.8	28.27	259.64
100.00	9 40 11	902.05	12.88	321.85	9.71	117.21	9 55 13	302.0	16.43	314.86
100.00	14 0 35	5336.87	29.75	242.92	14.59	93.06	15 29 32	4736.9	29.86	234.12
110.00	10 0 56	836.89	9.16	314.72	7.51	123.08	10 14 53	236.9	13.46	308.25
110.00	15 56 18	4974.79	34.05	215.42	14.58	86.77	17 19 13	4374.8	33.23	206.27

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TDE-1.5426 TRA -.0427 TC3-5.4696 BAU  .7235    SGT 4443.1 SGR  218.4 SG3  747.7     ST  2812.3 SR   200.6 SS  2022.8
RDE  .1099 RRA  .0194 RC3 -.1239 FAU .11061    RRT -.3069 RRF -.3373 RTF  .9719    CRT -.9976 CRS  .9883 CST -.9952
FDE-3.2370 FRA  .8611 FC3-9.6813 BSP  13745    SGB 4448.5 R23  .0403 R13 -.9719    LSA 3466.2 MSA  161.3 SSA   10.2
BDE 1.5465 BRA  .0469 BC3 5.4711 FSP  -2383    SG1 4443.7 SG2  207.9 THA 179.13    EL1 2819.4 EL2   13.8 ALF 175.93
```

LAUNCH DATE JUN 11 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 24 1967

HELIOCENTRIC CONIC DISTANCE 466.931
RL 151.90 LAL -.00 LOL 259.41 VL 26.726 GAL .55 AZL 93.65 HCA 214.50 SMA 128.45 ECC .18275 INC 3.6495 V1 29.331
RP 107.51 LAP 2.07 LOP 113.86 VP 37.891 GAP 4.80 AZP 86.99 TAL 177.53 TAP 32.03 RCA 104.98 APO 151.93 V2 35.248
RC 119.197 GL -32.59 GP 2.90 ZAL 88.86 ZAP 142.14 ETS 4.60 ZAE 136.46 ETE 176.19 ZAC 112.15 ETC 17.50 CLP-142.23
PLANETOCENTRIC CONIC
C3 9.973 VHL 3.158 DLA -26.13 RAL 157.86 RAD 6567.4 VEL 11.461 PTH 1.99 VHP 4.103 DPA 16.67 RAP 155.92 ECC 1.1641

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 59 48	1059.66	15.26	334.61	13.00	114.14	9 17 28	459.7	18.40	327.33
90.00	12 14 44	5707.29	27.56	269.96	16.65	96.75	13 49 51	5107.3	28.21	261.36
100.00	9 53 17	886.95	13.35	320.98	12.06	117.00	10 8 4	286.9	16.87	313.95
100.00	14 3 56	5355.23	29.68	244.28	16.87	93.77	15 33 11	4755.2	29.88	235.48
110.00	10 12 19	827.22	9.52	314.20	9.81	122.99	10 26 6	227.2	13.80	307.71
110.00	16 1 24	4987.72	34.09	216.42	16.92	87.36	17 24 31	4387.7	33.35	207.26

DIFFERENTIAL CORRECTIONS
TDE-1.6147 TRA .0336 TC3-5.6360 BAU .7517
RDE .1104 RRA .0253 RC3 -.1645 FAU .10273
FDE-3.0421 FRA .9368 FC3-8.9186 BSP 14321
BDE 1.6184 BRA .0421 BC3 5.6384 FSP -2243

MID-COURSE EXECUTION ACCURACY
SGT 4610.6 SGR 231.3 SG3 700.7
RRT -.2002 RRF -.2258 RTF .9721
SGB 4616.4 R23 .0314 R13 -.9721
SG1 4610.9 SG2 226.6 THA 179.42

ORBIT DETERMINATION ACCURACY
ST 2931.6 SR 200.9 SS 1967.9
CRT -.9952 CRS .9830 CST -.9954
LSA 3533.0 MSA 157.8 SSA 11.3
EL1 2938.4 EL2 19.6 ALF 176.10

LAUNCH DATE JUN 11 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 26 1967

HELIOCENTRIC CONIC DISTANCE 473.025
RL 151.90 LAL -.00 LOL 259.41 VL 26.698 GAL .78 AZL 93.62 HCA 217.75 SMA 128.27 ECC .18468 INC 3.6203 V1 29.331
RP 107.50 LAP 2.22 LOP 117.10 VP 37.875 GAP 5.16 AZP 87.14 TAL 176.56 TAP 34.31 RCA 104.58 APO 151.96 V2 35.252
RC 121.426 GL -32.04 GP 2.58 ZAL 86.97 ZAP 144.44 ETS 4.43 ZAE 135.28 ETE 176.85 ZAC 111.32 ETC 17.17 CLP-144.52
PLANETOCENTRIC CONIC
C3 10.094 VHL 3.177 DLA -26.46 RAL 160.01 RAD 6567.4 VEL 11.467 PTH 1.99 VHP 4.259 DPA 16.04 RAP 156.73 ECC 1.1661

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 16 2	1036.35	15.91	333.20	15.57	113.74	9 33 19	436.3	18.98	325.87
90.00	12 15 40	5735.44	27.32	271.99	19.02	97.74	13 51 15	5135.4	28.11	263.41
100.00	10 7 28	870.27	13.86	320.00	14.57	116.75	10 21 58	270.3	17.34	312.94
100.00	14 6 55	5376.75	29.57	245.87	19.30	94.61	15 36 32	4776.8	29.89	237.08
110.00	10 24 25	817.03	9.90	313.65	12.25	122.89	10 38 2	217.0	14.16	307.15
110.00	16 6 27	5002.76	34.13	217.60	19.42	88.06	17 29 50	4402.8	33.49	208.41

DIFFERENTIAL CORRECTIONS
TDE-1.6871 TRA .1190 TC3-5.7560 BAU .7772
RDE .1130 RRA .0312 RC3 -.1967 FAU .09504
FDE-2.8669 FRA 1.0067 FC3-8.1512 BSP 14828
BDE 1.6909 BRA .1230 BC3 5.7594 FSP -2104

MID-COURSE EXECUTION ACCURACY
SGT 4763.6 SGR 247.2 SG3 656.1
RRT -.1255 RRF -.1484 RTF .9719
SGB 4770.0 R23 .0263 R13 -.9720
SG1 4763.7 SG2 245.3 THA 179.63

ORBIT DETERMINATION ACCURACY
ST 3045.3 SR 204.7 SS 1916.3
CRT -.9918 CRS .9770 CST -.9956
LSA 3600.5 MSA 154.5 SSA 12.4
EL1 3052.1 EL2 26.1 ALF 176.19

LAUNCH DATE JUN 11 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 28 1967

HELIOCENTRIC CONIC DISTANCE 479.100
RL 151.90 LAL -.00 LOL 259.41 VL 26.669 GAL 1.02 AZL 93.60 HCA 221.00 SMA 128.08 ECC .18676 INC 3.5951 V1 29.331
RP 107.49 LAP 2.36 LOP 120.35 VP 37.858 GAP 5.52 AZP 87.29 TAL 175.56 TAP 36.56 RCA 104.16 APO 152.00 V2 35.255
RC 123.648 GL -31.47 GP 2.32 ZAL 85.00 ZAP 146.59 ETS 4.26 ZAE 134.21 ETE 177.38 ZAC 110.34 ETC 16.85 CLP-146.67
PLANETOCENTRIC CONIC
C3 10.258 VHL 3.203 DLA -26.81 RAL 162.25 RAD 6567.4 VEL 11.474 PTH 1.99 VHP 4.419 DPA 15.40 RAP 157.71 ECC 1.1688

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 33 47	1010.08	16.62	331.60	18.31	113.26	9 50 37	410.1	19.63	324.21
90.00	12 15 45	5768.16	27.00	274.33	21.52	98.87	13 51 53	5168.2	27.95	265.79
100.00	10 22 34	852.52	14.41	318.96	17.24	116.48	10 36 46	252.5	17.85	311.86
100.00	14 9 40	5400.95	29.42	247.66	21.87	95.53	15 39 41	4801.0	29.88	238.88
110.00	10 37 8	806.77	10.28	313.10	14.84	122.78	10 50 35	206.8	14.53	306.58
110.00	16 11 35	5019.46	34.17	218.90	22.08	88.83	17 35 14	4419.5	33.63	209.70

DIFFERENTIAL CORRECTIONS
TDE-1.7591 TRA .2117 TC3-5.8430 BAU .8019
RDE .1174 RRA .0373 RC3 -.2211 FAU .08810
FDE-2.7049 FRA 1.0675 FC3-7.4351 BSP 15332
BDE 1.7630 BRA .2149 BC3 5.8472 FSP -1982

MID-COURSE EXECUTION ACCURACY
SGT 4908.3 SGR 264.1 SG3 615.0
RRT -.0762 RRF -.0964 RTF .9720
SGB 4915.4 R23 .0222 R13 -.9720
SG1 4908.4 SG2 263.3 THA 179.76

ORBIT DETERMINATION ACCURACY
ST 3151.5 SR 211.2 SS 1864.5
CRT -.9877 CRS .9705 CST -.9958
LSA 3664.7 MSA 151.1 SSA 13.4
EL1 3158.4 EL2 33.0 ALF 176.21

LAUNCH DATE JUN 11 1967 FLIGHT TIME 172.00 ARRIVAL DATE NOV 30 1967

HELIOCENTRIC CONIC DISTANCE 485.153
RL 151.90 LAL -.00 LOL 259.41 VL 26.640 GAL 1.27 AZL 93.57 HCA 224.25 SMA 127.89 ECC .18900 INC 3.5730 V1 29.331
RP 107.48 LAP 2.49 LOP 123.60 VP 37.839 GAP 5.89 AZP 87.44 TAL 174.53 TAP 38.77 RCA 103.72 APO 152.06 V2 35.257
RC 125.861 GL -30.87 GP 2.10 ZAL 82.96 ZAP 148.61 ETS 4.12 ZAE 133.25 ETE 177.82 ZAC 109.21 ETC 16.53 CLP-148.68
PLANETOCENTRIC CONIC
C3 10.466 VHL 3.235 DLA -27.16 RAL 164.57 RAD 6567.4 VEL 11.483 PTH 2.00 VHP 4.585 DPA 14.75 RAP 158.82 ECC 1.1723

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 53 8	980.55	17.40	329.79	21.22	112.69	10 9 29	380.6	20.33	322.33
90.00	12 14 53	5805.79	26.58	277.00	24.14	100.15	13 51 39	5205.8	27.71	268.52
100.00	10 38 28	834.09	14.96	317.88	20.07	116.18	10 52 22	234.1	18.36	310.73
100.00	14 12 14	5427.48	29.23	249.61	24.58	96.54	15 42 42	4827.5	29.83	240.85
110.00	10 50 20	796.85	10.64	312.56	17.57	122.68	11 3 37	196.8	14.88	306.02
110.00	16 16 52	5037.49	34.18	220.31	24.89	89.66	17 40 50	4437.5	33.76	211.09

DIFFERENTIAL CORRECTIONS
TDE-1.8285 TRA .3162 TC3-5.8769 BAU .8230
RDE .1232 RRA .0433 RC3 -.2391 FAU .08120
FDE-2.5513 FRA 1.1289 FC3-6.7163 BSP 15714
BDE 1.8326 BRA .3191 BC3 5.8818 FSP -1850

MID-COURSE EXECUTION ACCURACY
SGT 5034.1 SGR 281.0 SG3 575.4
RRT -.0451 RRF -.0640 RTF .9715
SGB 5041.9 R23 .0200 R13 -.9715
SG1 5034.1 SG2 280.7 THA 179.86

ORBIT DETERMINATION ACCURACY
ST 3245.8 SR 219.7 SS 1810.3
CRT -.9830 CRS .9636 CST -.9959
LSA 3720.0 MSA 148.4 SSA 14.3
EL1 3253.0 EL2 40.3 ALF 176.19

LAUNCH DATE JUN 11 1967 FLIGHT TIME 174.00 ARRIVAL DATE DEC 2 1967

HELIOCENTRIC CONIC DISTANCE 491.185
RL 151.90 LAL -.00 LOL 259.41 VL 26.610 GAL 1.54 AZL 93.55 HCA 227.49 SMA 127.69 ECC .19140 INC 3.5533 VI 29.331
RP 107.48 LAP 2.62 LOP 126.85 VP 37.819 GAP 6.26 AZP 87.60 TAL 173.47 TAP 40.96 RCA 103.25 APO 152.13 V2 35.258
RC 128.066 GL -30.23 GP 1.91 ZAL 80.85 ZAP 150.52 ETS 3.98 ZAE 132.38 ETE 178.18 ZAC 107.96 ETC 16.22 CLP-150.57
PLANETOCENTRIC CONIC
C3 10.723 VHL 3.275 DLA -27.51 RAL 166.96 RAD 6567.4 VEL 11.494 PTH 2.00 VHP 4.755 DPA 14.08 RAP 160.05 ECC 1.1765

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 14 21	946.91	18.28	327.70	24.32	112.01	10 30 8	346.9	21.10	320.17
90.00	12 12 45	5849.26	26.02	280.06	26.84	101.58	13 50 14	5249.3	27.36	271.65
100.00	10 55 2	815.44	15.52	316.77	23.04	115.87	11 8 38	215.4	18.87	309.59
100.00	14 14 45	5455.97	28.99	251.69	27.41	97.61	15 45 41	4856.0	29.74	242.97
110.00	11 3 53	787.68	10.98	312.07	20.43	122.58	11 17 0	187.7	15.20	305.50
110.00	16 22 24	5056.50	34.18	221.79	27.84	90.54	17 46 40	4456.5	33.88	212.56

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-1.8998 TRA .4267 TC3-5.8864 BAU .8446 SGT 5159.5 SGR 297.3 SG3 539.8 ST 3335.7 SR 230.0 SS 1759.1
RDE .1303 RRA .0491 RC3 -.2509 FAU .07512 RRT -.0281 RRF -.0457 RTF .9714 CRT -.9780 CRS .9569 CST -.9961
FDE-2.4135 FRA 1.1798 FC3-6.0649 BSP 16151 SGB 5168.1 R23 .0183 R13 -.9714 LSA 3775.2 MSA 146.0 SSA 15.2
BDE 1.9043 BRA .4295 BC3 5.8918 FSP -1743 SG1 5159.5 SG2 297.2 THA 179.91 EL1 3343.2 EL2 47.9 ALF 176.14

LAUNCH DATE JUN 11 1967 FLIGHT TIME 176.00 ARRIVAL DATE DEC 4 1967

HELIOCENTRIC CONIC DISTANCE 497.195
RL 151.90 LAL -.00 LOL 259.41 VL 26.579 GAL 1.82 AZL 93.54 HCA 230.74 SMA 127.49 ECC .19398 INC 3.5355 VI 29.331
RP 107.48 LAP 2.74 LOP 130.10 VP 37.798 GAP 6.63 AZP 87.76 TAL 172.39 TAP 43.13 RCA 102.76 APO 152.22 V2 35.259
RC 130.261 GL -29.55 GP 1.75 ZAL 78.70 ZAP 152.31 ETS 3.85 ZAE 131.61 ETE 178.48 ZAC 106.60 ETC 15.92 CLP-152.36
PLANETOCENTRIC CONIC
C3 11.032 VHL 3.322 DLA -27.85 RAL 169.41 RAD 6567.4 VEL 11.507 PTH 2.00 VHP 4.930 DPA 13.40 RAP 161.38 ECC 1.1816

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 38 13	906.60	19.29	325.17	27.61	111.14	10 53 20	306.6	21.99	317.55
90.00	12 8 29	613.18	25.26	305.77	29.60	103.24	12 18 42	13.2	26.83	297.46
100.00	11 12 8	796.95	16.07	315.67	26.15	115.55	11 25 25	196.9	19.37	308.44
100.00	14 17 15	5486.10	28.70	253.88	30.35	98.73	15 48 41	4886.1	29.61	245.20
110.00	11 17 39	779.62	11.28	311.63	23.41	122.49	11 30 39	179.6	15.48	305.05
110.00	16 28 13	5076.19	34.16	223.33	30.92	91.45	17 52 49	4476.2	33.98	214.09

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-1.9708 TRA .5474 TC3-5.8577 BAU .8648 SGT 5276.4 SGR 313.0 SG3 506.9 ST 3416.7 SR 241.6 SS 1709.1
RDE .1388 RRA .0548 RC3 -.2572 FAU .06947 RRT -.0212 RRF -.0382 RTF .9712 CRT -.9728 CRS .9502 CST -.9963
FDE-2.2875 FRA 1.2279 FC3-5.4518 BSP 16552 SGB 5285.7 R23 .0175 R13 -.9712 LSA 3825.2 MSA 144.0 SSA 16.0
BDE 1.9757 BRA .5502 BC3 5.8634 FSP -1642 SG1 5276.4 SG2 312.9 THA 179.93 EL1 3424.8 EL2 55.8 ALF 176.06

LAUNCH DATE JUN 11 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 6 1967

HELIOCENTRIC CONIC DISTANCE 503.181
RL 151.90 LAL -.00 LOL 259.41 VL 26.548 GAL 2.12 AZL 93.52 HCA 233.99 SMA 127.29 ECC .19674 INC 3.5194 VI 29.331
RP 107.48 LAP 2.85 LOP 133.35 VP 37.776 GAP 7.00 AZP 87.93 TAL 171.28 TAP 45.27 RCA 102.24 APO 152.33 V2 35.259
RC 132.447 GL -28.84 GP 1.62 ZAL 76.50 ZAP 154.01 ETS 3.73 ZAE 130.91 ETE 178.74 ZAC 105.14 ETC 15.62 CLP-154.06
PLANETOCENTRIC CONIC
C3 11.400 VHL 3.376 DLA -28.17 RAL 171.93 RAD 6567.4 VEL 11.523 PTH 2.01 VHP 5.110 DPA 12.69 RAP 162.81 ECC 1.1876

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 7 48	849.64	20.64	321.55	31.16	109.82	11 21 58	249.6	23.16	313.78
90.00	11 58 57	683.67	24.07	310.59	32.33	105.38	12 10 21	83.7	25.95	302.43
100.00	11 29 37	779.06	16.59	314.60	29.38	115.23	11 42 36	179.1	19.85	307.33
100.00	14 19 49	5517.53	28.36	256.15	33.40	99.88	15 51 47	4917.5	29.43	247.51
110.00	11 31 31	773.06	11.52	311.27	26.51	122.41	11 44 24	173.1	15.71	304.68
110.00	16 34 24	5096.29	34.11	224.90	34.12	92.38	17 59 20	4496.3	34.06	215.65

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-2.0413 TRA .6767 TC3-5.7948 BAU .8841 SGT 5386.0 SGR 327.7 SG3 476.5 ST 3488.0 SR 254.4 SS 1658.9
RDE .1485 RRA .0601 RC3 -.2587 FAU .06428 RRT -.0218 RRF -.0383 RTF .9711 CRT -.9677 CRS .9438 CST -.9964
FDE-2.1706 FRA 1.2707 FC3-4.8814 BSP 16939 SGB 5395.9 R23 .0171 R13 -.9711 LSA 3868.1 MSA 142.6 SSA 16.7
BDE 2.0467 BRA .6794 BC3 5.8006 FSP -1550 SG1 5386.0 SG2 327.6 THA 179.92 EL1 3496.7 EL2 64.0 ALF 175.96

LAUNCH DATE JUN 11 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 8 1967

HELIOCENTRIC CONIC DISTANCE 509.144
RL 151.90 LAL -.00 LOL 259.41 VL 26.516 GAL 2.44 AZL 93.50 HCA 237.24 SMA 127.08 ECC .19970 INC 3.5045 VI 29.331
RP 107.48 LAP 2.95 LOP 136.60 VP 37.752 GAP 7.38 AZP 88.10 TAL 170.15 TAP 47.39 RCA 101.70 APO 152.46 V2 35.258
RC 134.624 GL -28.09 GP 1.50 ZAL 74.28 ZAP 155.62 ETS 3.63 ZAE 130.28 ETE 178.95 ZAC 103.59 ETC 15.34 CLP-155.67
PLANETOCENTRIC CONIC
C3 11.832 VHL 3.440 DLA -28.46 RAL 174.49 RAD 6567.5 VEL 11.542 PTH 2.01 VHP 5.296 DPA 11.97 RAP 164.32 ECC 1.1947

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
87.05	11 18 45	854.90	22.40	322.58	34.96	108.02	11 33 0	254.9	24.66	314.63
92.95	12 8 26	693.93	22.41	310.80	34.96	108.01	12 19 59	93.9	24.67	302.85
100.00	11 47 18	762.23	17.07	313.59	32.73	114.92	12 0 0	162.2	20.29	306.27
100.00	14 22 34	5549.87	27.98	258.47	36.55	101.04	15 55 4	4949.9	29.19	249.89
110.00	11 45 21	768.33	11.69	311.01	29.70	122.35	11 58 9	168.3	15.88	304.41
110.00	16 41 0	5116.53	34.04	226.48	37.44	93.31	18 6 16	4516.5	34.13	217.23

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
TDE-2.1079 TRA .8199 TC3-5.6869 BAU .9005 SGT 5481.5 SGR 341.5 SG3 447.6 ST 3543.9 SR 267.9 SS 1605.4
RDE .1593 RRA .0650 RC3 -.2561 FAU .05923 RRT -.0272 RRF -.0433 RTF .9707 CRT -.9623 CRS .9372 CST -.9965
FDE-2.0570 FRA 1.3155 FC3-4.3339 BSP 17219 SGB 5492.1 R23 .0168 R13 -.9707 LSA 3897.1 MSA 142.5 SSA 17.2
BDE 2.1139 BRA .8225 BC3 5.6926 FSP -1455 SG1 5481.5 SG2 341.4 THA 179.90 EL1 3553.2 EL2 72.7 ALF 175.84

LAUNCH DATE JUN 11 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 10 1967

HELIOCENTRIC CONIC DISTANCE 515.080

```
RL  151.90 LAL   -.00 LOL 259.41 VL  26.483 GAL   2.77 AZL  93.49 HCA 240.48 SMA 126.87 ECC .20286 INC 3.4906 V1  29.331
RP  107.48 LAP   3.04 LOP 139.85 VP  37.728 GAP   7.76 AZP  88.28 TAL 169.00 TAP  49.49 RCA 101.13 APO 152.61 V2  35.256
RC 136.791 GL  -27.30 GP    1.39 ZAL  72.03 ZAP 157.16 ETS   3.53 ZAE 129.71 ETE 179.13 ZAC 101.96 ETC  15.08 CLP-157.20
```

PLANETOCENTRIC CONIC

```
C3  12.335 VHL  3.512 DLA -28.72 RAL 177.08 RAO 6567.5 VEL 11.564 PTH   2.02 VHP  5.488 DPA  11.22 RAP 165.89 ECC 1.2030
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.02	11 12 18	917.98	22.41	327.21	38.23	108.44	11 27 36	318.0	24.72	319.27
94.98	12 35 34	648.43	22.42	307.47	38.24	108.43	12 46 22	48.4	24.73	299.53
100.00	12 4 57	747.07	17.51	312.67	36.18	114.62	12 17 24	147.1	20.68	305.31
100.00	14 25 36	5582.61	27.51	260.80	39.77	102.19	15 58 39	4982.6	28.91	252.28
110.00	11 59 0	765.80	11.78	310.88	32.97	122.32	12 11 46	165.8	15.96	304.27
110.00	16 48 3	5136.64	33.95	228.04	40.85	94.23	18 13 39	4536.6	34.17	218.80

DIFFERENTIAL CORRECTIONS

```
TDE-2.1763 TRA  .9699 TC3-5.5561 BAU  .9172
RDE  .1713 RRA  .0695 RC3 -.2497 FAU .05471
FDE-1.9553 FRA 1.3533 FC3-3.8399 BSP  17559
BDE 2.1831 BRA  .9724 BC3 5.5617 FSP  -1376
```

MID-COURSE EXECUTION ACCURACY

```
SGT 5576.0 SGR  354.3 SG3  421.4
RRT -.0376 RRF -.0536 RTF  .9705
SGB 5587.3 R23  .0171 R13 -.9705
SG1 5576.0 SG2  354.0 THA 179.86
```

ORBIT DETERMINATION ACCURACY

```
ST  3593.3 SR   282.1 SS  1554.8
CRT -.9572 CRS  .9313 CST -.9967
LSA 3922.8 MSA  142.8 SSA   17.6
EL1 3603.5 EL2   81.4 ALF 175.70
```

LAUNCH DATE JUN 11 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 12 1967

HELIOCENTRIC CONIC DISTANCE 520.989

```
RL  151.90 LAL   -.00 LOL 259.41 VL  26.450 GAL   3.12 AZL  93.48 HCA 243.73 SMA 126.66 ECC .20625 INC 3.4777 V1  29.331
RP  107.49 LAP   3.12 LOP 143.10 VP  37.703 GAP   8.15 AZP  88.46 TAL 167.84 TAP  51.57 RCA 100.54 APO 152.78 V2  35.254
RC 138.949 GL  -26.47 GP    1.30 ZAL  69.76 ZAP 158.63 ETS   3.45 ZAE 129.20 ETE 179.28 ZAC 100.26 ETC  14.82 CLP-158.67
```

PLANETOCENTRIC CONIC

```
C3  12.918 VHL  3.594 DLA -28.94 RAL 179.70 RAO 6567.5 VEL 11.589 PTH   2.03 VHP  5.686 DPA  10.45 RAP 167.53 ECC 1.2126
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.77	11 12 38	960.47	22.36	330.32	41.60	108.86	11 28 39	360.5	24.73	322.40
96.23	12 56 7	625.68	22.37	305.78	41.60	108.85	13 6 32	25.7	24.74	297.86
100.00	12 22 21	734.27	17.87	311.89	39.70	114.37	12 34 35	134.3	21.01	304.50
100.00	14 29 5	5615.15	27.02	263.10	43.08	103.30	16 2 40	5015.2	28.58	254.64
110.00	12 12 20	765.78	11.78	310.87	36.31	122.32	12 25 6	165.8	15.96	304.27
110.00	16 55 35	5156.41	33.84	229.57	44.36	95.13	18 21 32	4556.4	34.18	220.34

DIFFERENTIAL CORRECTIONS

```
TDE-2.2438 TRA 1.1303 TC3-5.3965 BAU  .9329
RDE  .1844 RRA  .0734 RC3 -.2401 FAU .05051
FDE-1.8601 FRA 1.3885 FC3-3.3852 BSP  17882
BDE 2.2514 BRA 1.1326 BC3 5.4018 FSP  -1303
```

MID-COURSE EXECUTION ACCURACY

```
SGT 5664.0 SGR  366.1 SG3  397.0
RRT -.0513 RRF -.0674 RTF  .9704
SGB 5675.9 R23  .0174 R13 -.9704
SG1 5664.1 SG2  365.6 THA 179.81
```

ORBIT DETERMINATION ACCURACY

```
ST  3631.8 SR   296.7 SS  1504.2
CRT -.9522 CRS  .9256 CST -.9968
LSA 3939.4 MSA  144.1 SSA   17.9
EL1 3642.7 EL2   90.4 ALF 175.55
```

LAUNCH DATE JUN 11 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 14 1967

HELIOCENTRIC CONIC DISTANCE 526.869

```
RL  151.90 LAL   -.00 LOL 259.41 VL  26.417 GAL   3.48 AZL  93.47 HCA 246.98 SMA 126.45 ECC .20987 INC 3.4654 V1  29.331
RP  107.50 LAP   3.19 LOP 146.35 VP  37.677 GAP   8.55 AZP  88.64 TAL 166.65 TAP  53.63 RCA  99.91 APO 152.99 V2  35.251
RC 141.095 GL  -25.62 GP    1.22 ZAL  67.50 ZAP 160.04 ETS   3.37 ZAE 128.73 ETE 179.41 ZAC  98.50 ETC  14.58 CLP-160.07
```

PLANETOCENTRIC CONIC

```
C3  13.590 VHL  3.686 DLA -29.12 RAL 182.32 RAO 6567.5 VEL 11.618 PTH   2.04 VHP  5.891 DPA   9.66 RAP 169.22 ECC 1.2237
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.91	11 16 10	993.63	22.25	332.73	45.04	109.28	11 32 44	393.8	24.68	324.84
97.09	13 13 33	614.28	22.26	304.90	45.05	109.27	13 23 47	14.3	24.69	297.00
100.00	12 39 9	724.70	18.13	311.31	43.29	114.18	12 51 14	124.7	21.25	303.89
100.00	14 33 14	5646.69	26.51	265.30	46.45	104.35	16 7 21	5046.7	28.22	256.92
110.00	12 25 14	768.52	11.68	311.02	39.71	122.36	12 38 3	168.5	15.87	304.42
110.00	17 3 39	5175.63	33.72	231.06	47.95	96.00	18 29 54	4575.6	34.18	221.85

DIFFERENTIAL CORRECTIONS

```
TDE-2.3092 TRA 1.3025 TC3-5.2092 BAU  .9473
RDE  .1986 RRA  .0766 RC3 -.2280 FAU .04657
FDE-1.7701 FRA 1.4229 FC3-2.9666 BSP  18171
BDE 2.3177 BRA 1.3047 BC3 5.2142 FSP  -1234
```

MID-COURSE EXECUTION ACCURACY

```
SGT 5744.7 SGR  376.9 SG3  374.2
RRT -.0675 RRF -.0836 RTF  .9702
SGB 5757.1 R23  .0178 R13 -.9702
SG1 5744.8 SG2  376.1 THA 179.75
```

ORBIT DETERMINATION ACCURACY

```
ST  3657.6 SR   311.4 SS  1453.1
CRT -.9472 CRS  .9199 CST -.9969
LSA 3945.2 MSA  146.3 SSA   18.0
EL1 3669.5 EL2   99.5 ALF 175.39
```

LAUNCH DATE JUN 11 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 16 1967

HELIOCENTRIC CONIC DISTANCE 532.719

```
RL  151.90 LAL   -.00 LOL 259.41 VL  26.384 GAL   3.87 AZL  93.45 HCA 250.22 SMA 126.24 ECC .21375 INC 3.4537 V1  29.331
RP  107.51 LAP   3.25 LOP 149.60 VP  37.650 GAP   8.95 AZP  88.83 TAL 165.46 TAP  55.68 RCA  99.25 APO 153.22 V2  35.247
RC 143.232 GL  -24.74 GP    1.15 ZAL  65.24 ZAP 161.39 ETS   3.32 ZAE 128.31 ETE 179.52 ZAC  96.69 ETC  14.36 CLP-161.43
```

PLANETOCENTRIC CONIC

```
C3  14.361 VHL  3.790 DLA -29.26 RAL 184.95 RAO 6567.6 VEL 11.651 PTH   2.05 VHP  6.103 DPA   8.84 RAP 170.95 ECC 1.2363
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.31	11 21 51	1021.32	22.08	334.70	48.54	109.70	11 38 53	421.3	24.56	326.83
97.69	13 28 47	611.06	22.09	304.59	48.55	109.69	13 38 58	11.1	24.57	296.73
100.00	12 55 0	719.44	18.28	310.98	46.92	114.07	13 6 59	119.4	21.38	303.56
100.00	14 38 20	5676.21	25.99	267.35	49.90	105.31	16 12 56	5076.2	27.84	259.03
110.00	12 37 35	774.27	11.47	311.34	43.14	122.42	12 50 29	174.3	15.67	304.75
110.00	17 12 14	5194.15	33.57	232.49	51.60	96.84	18 38 48	4594.1	34.16	223.29

DIFFERENTIAL CORRECTIONS

```
TDE-2.3697 TRA 1.4895 TC3-4.9889 BAU  .9587
RDE  .2138 RRA  .0790 RC3 -.2140 FAU .04274
FDE-1.6822 FRA 1.4588 FC3-2.5765 BSP  18361
BDE 2.3793 BRA 1.4916 BC3 4.9935 FSP  -1162
```

MID-COURSE EXECUTION ACCURACY

```
SGT 5813.5 SGR  386.8 SG3  352.8
RRT -.0852 RRF -.1010 RTF  .9698
SGB 5826.4 R23  .0180 R13 -.9698
SG1 5813.6 SG2  385.3 THA 179.67
```

ORBIT DETERMINATION ACCURACY

```
ST  3667.3 SR   325.9 SS  1399.9
CRT -.9420 CRS  .9140 CST -.9970
LSA 3936.0 MSA  149.9 SSA   17.9
EL1 3680.1 EL2  109.0 ALF 175.21
```

LAUNCH DATE JUN 11 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 18 1967

HELIOCENTRIC CONIC DISTANCE 538.534

```
RL  151.90 LAL   -.00 LOL 259.41 VL  26.350 GAL   4.28 AZL  93.44 HCA 253.47 SMA 126.02 ECC .21791 INC 3.4425 V1  29.331
RP  107.53 LAP   3.30 LOP 152.85 VP  37.622 GAP   9.37 AZP  89.02 TAL 164.25 TAP  57.72 RCA  98.56 APO 153.49 V2  35.243
RC 145.356 GL  -23.84 GP    1.09 ZAL  63.01 ZAP 162.70 ETS   3.28 ZAE 127.92 ETE 179.61 ZAC  94.82 ETC  14.15 CLP-162.73
```

PLANETOCENTRIC CONIC

```
C3  15.244 VHL  3.904 DLA -29.35 RAL 187.56 RAD 6567.6 VEL 11.689 PTH   2.06 VHP  6.324 DPA   8.01 RAP 172.73 ECC 1.2509
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.93	11 29 14	1044.36	21.84	336.30	52.10	110.12	11 46 38	444.4	24.38	328.47
98.07	13 42 13	614.64	21.85	304.77	52.10	110.10	13 52 28	14.6	24.39	296.93
100.00	13 9 25	719.82	18.27	311.01	50.56	114.08	13 21 24	119.8	21.37	303.58
100.00	14 44 44	5702.46	25.51	269.15	53.41	106.14	16 19 46	5102.5	27.47	260.90
110.00	12 49 17	783.18	11.15	311.82	46.59	122.53	13 2 21	183.2	15.36	305.25
110.00	17 21 20	5211.85	33.42	233.85	55.32	97.63	18 48 12	4611.9	34.12	224.67

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.4325 TRA 1.6844 TC3-4.7598 BAU  .9709   SGT 5882.2 SGR  395.6 SG3  333.1      ST  3671.3 SR   340.3 SS  1350.1
RDE  .2302 RRA  .0805 RC3 -.1984 FAU .03932   RRT -.1055 RRF -.1210 RTF  .9697      CRT -.9371 CRS  .9087 CST -.9971
FDE-1.6035 FRA 1.4896 FC3-2.2332 BSP  18627   SGB 5895.5 R23  .0184 R13 -.9697      LSA 3923.5 MSA  153.7 SSA   17.7
BDE 2.4434 BRA 1.6863 BC3 4.7640 FSP  -1103   SG1 5882.3 SG2  393.4 THA 179.59      EL1 3685.2 EL2  118.3 ALF 175.03
```

LAUNCH DATE JUN 11 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 20 1967

HELIOCENTRIC CONIC DISTANCE 544.313

```
RL  151.90 LAL   -.00 LOL 259.41 VL  26.317 GAL   4.71 AZL  93.43 HCA 256.71 SMA 125.81 ECC .22237 INC 3.4317 V1  29.331
RP  107.54 LAP   3.34 LOP 156.10 VP  37.593 GAP   9.80 AZP  89.21 TAL 163.04 TAP  59.75 RCA  97.84 APO 153.79 V2  35.237
RC 147.469 GL  -22.92 GP    1.03 ZAL  60.80 ZAP 163.96 ETS   3.26 ZAE 127.57 ETE 179.68 ZAC  92.91 ETC  13.96 CLP-163.99
```

PLANETOCENTRIC CONIC

```
C3  16.254 VHL  4.032 DLA -29.40 RAL 190.14 RAD 6567.7 VEL 11.732 PTH   2.07 VHP  6.554 DPA   7.17 RAP 174.54 ECC 1.2675
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.73	11 38 0	1063.76	21.53	337.62	55.69	110.52	11 55 44	463.8	24.13	329.82
98.27	13 54 3	624.26	21.54	305.35	55.70	110.51	14 4 27	24.3	24.14	297.56
100.00	13 21 58	727.06	18.07	311.45	54.18	114.23	13 34 5	127.1	21.19	304.04
100.00	14 52 47	5724.23	25.09	270.63	57.00	106.81	16 28 11	5124.2	27.15	262.43
110.00	13 0 17	795.36	10.70	312.48	50.06	122.66	13 13 32	195.4	14.93	305.94
110.00	17 30 57	5228.69	33.26	235.14	59.09	98.37	18 58 6	4628.7	34.06	225.99

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.4935 TRA 1.8920 TC3-4.5139 BAU  .9817   SGT 5943.9 SGR  403.6 SG3  314.8      ST  3664.3 SR   354.2 SS  1301.0
RDE  .2476 RRA  .0811 RC3 -.1818 FAU .03611   RRT -.1271 RRF -.1424 RTF  .9696      CRT -.9322 CRS  .9034 CST -.9972
FDE-1.5293 FRA 1.5196 FC3-1.9231 BSP  18871   SGB 5957.6 R23  .0187 R13 -.9696      LSA 3901.2 MSA  158.4 SSA   17.5
BDE 2.5057 BRA 1.8937 BC3 4.5176 FSP  -1048   SG1 5944.1 SG2  400.3 THA 179.50      EL1 3679.1 EL2  127.7 ALF 174.85
```

LAUNCH DATE JUN 11 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 22 1967

HELIOCENTRIC CONIC DISTANCE 550.052

```
RL  151.90 LAL   -.00 LOL 259.41 VL  26.283 GAL   5.17 AZL  93.42 HCA 259.96 SMA 125.60 ECC .22715 INC 3.4211 V1  29.331
RP  107.56 LAP   3.37 LOP 159.35 VP  37.564 GAP  10.24 AZP  89.40 TAL 161.81 TAP  61.77 RCA  97.07 APO 154.13 V2  35.231
RC 149.570 GL  -21.99 GP     .98 ZAL  58.62 ZAP 165.18 ETS   3.26 ZAE 127.24 ETE 179.74 ZAC  90.97 ETC  13.79 CLP-165.21
```

PLANETOCENTRIC CONIC

```
C3  17.405 VHL  4.172 DLA -29.41 RAL 192.68 RAD 6567.7 VEL 11.781 PTH   2.08 VHP  6.794 DPA   6.30 RAP 176.38 ECC 1.2864
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.71	11 47 58	1080.05	21.15	338.67	59.31	110.92	12 5 58	480.1	23.81	330.92
98.29	14 4 22	639.43	21.17	306.32	59.32	110.91	14 15 1	39.4	23.82	298.57
100.00	13 32 21	741.99	17.65	312.36	57.75	114.52	13 44 43	142.0	20.81	304.99
100.00	15 2 40	5740.76	24.76	271.74	60.67	107.31	16 38 21	5140.8	26.89	263.59
110.00	13 10 30	810.84	10.13	313.32	53.52	122.82	13 24 0	210.8	14.38	306.80
110.00	17 41 1	5244.68	33.10	236.35	62.90	99.08	19 8 26	4644.7	34.00	227.23

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.5532 TRA 2.1125 TC3-4.2561 BAU  .9911   SGT 5999.8 SGR  410.6 SG3  297.7      ST  3647.6 SR   367.4 SS  1253.2
RDE  .2660 RRA  .0807 RC3 -.1648 FAU .03309   RRT -.1499 RRF -.1648 RTF  .9695      CRT -.9273 CRS  .8981 CST -.9973
FDE-1.4598 FRA 1.5493 FC3-1.6457 BSP  19100   SGB 6013.9 R23  .0190 R13 -.9695      LSA 3870.8 MSA  163.6 SSA   17.1
BDE 2.5670 BRA 2.1141 BC3 4.2593 FSP   -996   SG1 6000.2 SG2  405.9 THA 179.41      EL1 3663.5 EL2  136.9 ALF 174.66
```

LAUNCH DATE JUN 11 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 24 1967

HELIOCENTRIC CONIC DISTANCE 555.747

```
RL  151.90 LAL   -.00 LOL 259.41 VL  26.249 GAL   5.65 AZL  93.41 HCA 263.20 SMA 125.39 ECC .23228 INC 3.4107 V1  29.331
RP  107.58 LAP   3.39 LOP 162.60 VP  37.534 GAP  10.70 AZP  89.60 TAL 160.58 TAP  63.78 RCA  96.26 APO 154.51 V2  35.225
RC 151.657 GL  -21.05 GP     .94 ZAL  56.49 ZAP 166.37 ETS   3.29 ZAE 126.94 ETE 179.79 ZAC  88.99 ETC  13.63 CLP-166.40
```

PLANETOCENTRIC CONIC

```
C3  18.717 VHL  4.326 DLA -29.37 RAL 195.18 RAD 6567.8 VEL 11.836 PTH   2.10 VHP  7.045 DPA   5.43 RAP 178.25 ECC 1.3080
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.86	11 59 6	1093.23	20.71	339.46	62.95	111.30	12 17 19	493.2	23.42	331.75
98.14	14 13 8	660.17	20.72	307.68	62.95	111.29	14 24 8	60.2	23.43	299.97
100.00	13 40 34	764.56	17.01	313.73	61.27	114.96	13 53 18	164.6	20.23	306.42
100.00	15 14 21	5752.12	24.52	272.51	64.41	107.65	16 50 14	5152.1	26.71	264.39
110.00	13 19 55	829.59	9.44	314.33	56.97	123.01	13 33 45	229.6	13.72	307.85
110.00	17 51 30	5259.86	32.93	237.51	66.74	99.74	19 19 9	4659.9	33.92	228.41

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.6104 TRA 2.3474 TC3-3.9876 BAU  .9985   SGT 6048.3 SGR  416.6 SG3  281.6      ST  3620.4 SR   379.6 SS  1206.1
RDE  .2854 RRA  .0790 RC3 -.1476 FAU .03021   RRT -.1735 RRF -.1878 RTF  .9694      CRT -.9222 CRS  .8926 CST -.9974
FDE-1.3938 FRA 1.5789 FC3-1.3971 BSP  19293   SGB 6062.6 R23  .0190 R13 -.9694      LSA 3831.1 MSA  169.3 SSA   16.7
BDE 2.6260 BRA 2.3487 BC3 3.9903 FSP   -946   SG1 6048.7 SG2  410.2 THA 179.31      EL1 3637.3 EL2  146.1 ALF 174.47
```

LAUNCH DATE JUN 11 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 26 1967

HELIOCENTRIC CONIC DISTANCE 561.395
RL 151.90 LAL -.00 LOL 259.41 VL 26.214 GAL 6.16 AZL 93.40 HCA 266.44 SMA 125.18 ECC .23780 INC 3.4006 V1 29.331
RP 107.60 LAP 3.39 LOP 165.84 VP 37.503 GAP 11.18 AZP 89.79 TAL 159.35 TAP 65.79 RCA 95.41 APO 154.94 V2 35.217
RC 153.730 GL -20.11 GP .90 ZAL 54.40 ZAP 167.53 ETS 3.36 ZAE 126.66 ETE 179.82 ZAC 86.98 ETC 13.50 CLP-167.56
PLANETOCENTRIC CONIC
C3 20.213 VHL 4.496 DLA -29.29 RAL 197.61 RAD 6567.8 VEL 11.899 PTH 2.11 VHP 7.308 DPA 4.54 RAP 180.14 ECC 1.3326

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.18	12 11 20	1103.34	20.20	340.00	66.59	111.67	12 29 44	503.3	22.97	332.34
97.82	14 20 20	686.46	20.22	309.41	66.60	111.66	14 31 46	86.5	22.98	301.75
100.00	13 46 50	793.88	16.16	315.49	64.73	115.50	14 0 4	193.9	19.46	308.25
100.00	15 27 31	5759.19	24.38	272.98	68.21	107.86	17 3 31	5159.2	26.59	264.88
110.00	13 28 32	851.49	8.62	315.50	60.40	123.21	13 42 44	251.5	12.93	309.06
110.00	18 2 18	5274.34	32.76	238.60	70.61	100.37	19 30 13	4674.3	33.84	229.53

DIFFERENTIAL CORRECTIONS
TDE-2.6640 TRA 2.5992 TC3-3.7086 BAU 1.0028
ROE .3055 RRA .0761 RC3 -.1309 FAU .02741
FDE-1.3303 FRA 1.6101 FC3-1.1739 BSP 19402
BDE 2.6814 BRA 2.6003 BC3 3.7109 FSP -895

MID-COURSE EXECUTION ACCURACY
SGT 6088.6 SGR 421.7 SG3 266.6
RRT -.1976 RRF -.2109 RTF .9692
SGB 6103.2 R23 .0188 R13 -.9692
SG1 6089.2 SG2 413.3 THA 179.21

ORBIT DETERMINATION ACCURACY
ST 3582.5 SR 390.8 SS 1159.7
CRT -.9168 CRS .8867 CST -.9974
LSA 3781.7 MSA 175.6 SSA 16.3
EL1 3600.4 EL2 155.3 ALF 174.28

LAUNCH DATE JUN 11 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 28 1967

HELIOCENTRIC CONIC DISTANCE 566.988
RL 151.90 LAL -.00 LOL 259.41 VL 26.180 GAL 6.70 AZL 93.39 HCA 269.68 SMA 124.96 ECC .24374 INC 3.3904 V1 29.331
RP 107.63 LAP 3.39 LOP 169.09 VP 37.472 GAP 11.68 AZP 89.98 TAL 158.12 TAP 67.80 RCA 94.51 APO 155.42 V2 35.210
RC 155.789 GL -19.18 GP .86 ZAL 52.37 ZAP 168.66 ETS 3.47 ZAE 126.39 ETE 179.85 ZAC 84.94 ETC 13.38 CLP-168.69
PLANETOCENTRIC CONIC
C3 21.916 VHL 4.681 DLA -29.17 RAL 199.98 RAD 6567.9 VEL 11.971 PTH 2.13 VHP 7.585 DPA 3.64 RAP 182.05 ECC 1.3607

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.68	12 24 48	1109.90	19.64	340.24	70.23	112.02	12 43 17	509.9	22.45	332.63
97.32	14 25 47	718.75	19.65	311.55	70.24	112.01	14 37 45	118.8	22.46	303.94
100.00	13 51 31	828.70	15.12	317.56	68.12	116.09	14 5 20	228.7	18.51	310.40
100.00	15 41 44	5763.22	24.29	273.25	72.06	107.98	17 17 47	5163.2	26.52	265.16
110.00	13 36 22	876.43	7.69	316.83	63.79	123.41	13 50 58	276.4	12.03	310.43
110.00	18 13 23	5288.26	32.58	239.65	74.49	100.96	19 41 31	4688.3	33.75	230.61

DIFFERENTIAL CORRECTIONS
TDE-2.7203 TRA 2.8628 TC3-3.4352 BAU 1.0070
ROE .3266 RRA .0718 RC3 -.1146 FAU .02487
FDE-1.2736 FRA 1.6394 FC3 -.9826 BSP 19583
BDE 2.7399 BRA 2.8637 BC3 3.4371 FSP -853

MID-COURSE EXECUTION ACCURACY
SGT 6126.3 SGR 425.9 SG3 252.7
RRT -.2230 RRF -.2353 RTF .9693
SGB 6141.1 R23 .0186 R13 -.9693
SG1 6127.1 SG2 415.2 THA 179.11

ORBIT DETERMINATION ACCURACY
ST 3541.7 SR 400.9 SS 1117.2
CRT -.9116 CRS .8812 CST -.9975
LSA 3730.8 MSA 181.7 SSA 15.9
EL1 3560.5 EL2 164.0 ALF 174.10

LAUNCH DATE JUN 11 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 30 1967

HELIOCENTRIC CONIC DISTANCE 572.521
RL 151.90 LAL -.00 LOL 259.41 VL 26.146 GAL 7.27 AZL 93.38 HCA 272.92 SMA 124.76 ECC .25015 INC 3.3803 V1 29.331
RP 107.65 LAP 3.38 LOP 172.33 VP 37.440 GAP 12.20 AZP 90.17 TAL 156.89 TAP 69.81 RCA 93.55 APO 155.96 V2 35.201
RC 157.834 GL -18.25 GP .83 ZAL 50.40 ZAP 169.77 ETS 3.65 ZAE 126.14 ETE 179.87 ZAC 82.89 ETC 13.29 CLP-169.80
PLANETOCENTRIC CONIC
C3 23.856 VHL 4.884 DLA -29.01 RAL 202.28 RAD 6568.0 VEL 12.051 PTH 2.15 VHP 7.878 DPA 2.73 RAP 183.98 ECC 1.3926

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.40	12 39 39	1112.22	19.01	340.14	73.87	112.34	12 58 11	512.2	21.87	332.58
96.60	14 29 15	757.73	19.02	314.15	73.87	112.33	14 41 52	157.7	21.88	306.59
100.00	13 55 1	867.74	13.94	319.86	71.46	116.71	14 9 28	267.7	17.42	312.79
100.00	15 56 34	5765.47	24.24	273.40	75.94	108.04	17 32 39	5165.5	26.48	265.32
110.00	13 43 25	904.21	6.64	318.30	67.15	123.61	13 58 29	304.2	11.02	311.94
110.00	18 24 38	5301.77	32.40	240.66	78.38	101.54	19 53 0	4701.8	33.65	231.65

DIFFERENTIAL CORRECTIONS
TDE-2.7761 TRA 3.1428 TC3-3.1622 BAU 1.0090
ROE .3484 RRA .0660 RC3 -.0993 FAU .02247
FDE-1.2208 FRA 1.6691 FC3 -.8153 BSP 19740
BDE 2.7979 BRA 3.1435 BC3 3.1637 FSP -812

MID-COURSE EXECUTION ACCURACY
SGT 6157.9 SGR 429.3 SG3 239.7
RRT -.2489 RRF -.2601 RTF .9694
SGB 6172.8 R23 .0182 R13 -.9694
SG1 6158.8 SG2 415.7 THA 179.00

ORBIT DETERMINATION ACCURACY
ST 3494.7 SR 409.6 SS 1076.8
CRT -.9062 CRS .8757 CST -.9976
LSA 3674.9 MSA 187.7 SSA 15.4
EL1 3514.4 EL2 172.2 ALF 173.92

LAUNCH DATE JUN 11 1967 FLIGHT TIME 204.00 ARRIVAL DATE JAN 1 1968

HELIOCENTRIC CONIC DISTANCE 577.987
RL 151.90 LAL -.00 LOL 259.41 VL 26.112 GAL 7.87 AZL 93.37 HCA 276.16 SMA 124.55 ECC .25707 INC 3.3702 V1 29.331
RP 107.68 LAP 3.35 LOP 175.58 VP 37.408 GAP 12.74 AZP 90.36 TAL 155.67 TAP 71.82 RCA 92.53 APO 156.57 V2 35.192
RC 159.863 GL -17.33 GP .80 ZAL 48.50 ZAP 170.86 ETS 3.90 ZAE 125.90 ETE 179.88 ZAC 80.82 ETC 13.22 CLP-170.90
PLANETOCENTRIC CONIC
C3 26.070 VHL 5.106 DLA -28.82 RAL 204.49 RAD 6568.1 VEL 12.143 PTH 2.18 VHP 8.188 DPA 1.82 RAP 185.91 ECC 1.4290

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.38	12 56 27	1108.41	18.32	339.55	77.48	112.65	13 14 55	508.4	21.23	332.05
95.62	14 30 7	805.24	18.33	317.35	77.49	112.64	14 43 33	205.2	21.25	309.84
100.00	13 57 35	909.99	12.63	322.31	74.73	117.32	14 12 45	310.0	16.20	315.33
100.00	16 11 40	5766.93	24.21	273.50	79.83	108.09	17 47 47	5166.9	26.46	265.42
110.00	13 49 45	934.65	5.49	319.91	70.47	123.79	14 5 19	334.6	9.90	313.59
110.00	18 36 0	5315.03	32.22	241.65	82.27	102.10	20 4 35	4715.0	33.55	232.67

DIFFERENTIAL CORRECTIONS
TDE-2.8317 TRA 3.4401 TC3-2.8927 BAU 1.0086
ROE .3709 RRA .0587 RC3 -.0849 FAU .02017
FDE-1.1718 FRA 1.6999 FC3 -.6699 BSP 19876
BDE 2.8559 BRA 3.4406 BC3 2.8939 FSP -773

MID-COURSE EXECUTION ACCURACY
SGT 6183.6 SGR 431.8 SG3 227.6
RRT -.2753 RRF -.2851 RTF .9696
SGB 6198.7 R23 .0176 R13 -.9697
SG1 6184.8 SG2 415.0 THA 178.89

ORBIT DETERMINATION ACCURACY
ST 3442.7 SR 416.9 SS 1038.7
CRT -.9007 CRS .8700 CST -.9977
LSA 3614.8 MSA 193.7 SSA 15.0
EL1 3463.2 EL2 180.0 ALF 173.76

LAUNCH DATE JUN 11 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 3 1968

HELIOCENTRIC CONIC DISTANCE 583.376
RL 151.90 LAL -.00 LOL 259.41 VL 26.079 GAL 8.52 AZL 93.36 HCA 279.39 SMA 124.34 ECC .26456 INC 3.3599 V1 29.331
RP 107.71 LAP 3.31 LOP 178.82 VP 37.376 GAP 13.32 AZP 90.55 TAL 154.46 TAP 73.85 RCA 91.45 APO 157.24 V2 35.183
RC 161.876 GL -16.42 GP .77 ZAL 46.66 ZAP 171.94 ETS 4.26 ZAE 125.66 ETE 179.88 ZAC 78.74 ETC 13.17 CLP-171.98
PLANETOCENTRIC CONIC
C3 28.599 VHL 5.348 DLA -28.60 RAL 206.63 RAD 6568.1 VEL 12.246 PTH 2.20 VHP 8.517 DPA .90 RAP 187.86 ECC 1.4707

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.80	13 16 38	1093.73	17.58	338.15	81.08	112.93	13 34 52	493.7	20.54	330.70
94.20	14 26 57	865.96	17.59	321.48	81.08	112.92	14 41 23	266.0	20.55	314.03
100.00	13 59 28	954.67	11.23	324.88	77.96	117.89	14 15 22	354.7	14.87	317.99
100.00	16 26 49	5768.29	24.19	273.59	83.72	108.13	18 2 57	5168.3	26.44	265.51
110.00	13 55 23	967.51	4.25	321.64	73.75	123.95	14 11 30	367.5	8.68	315.35
110.00	18 47 23	5328.21	32.02	242.63	86.16	102.65	20 16 11	4728.2	33.43	233.69

DIFFERENTIAL CORRECTIONS
TDE-2.8843 TRA 3.7592 TC3-2.6242 BAU 1.0037
RDE .3940 RRA .0496 RC3 -.0719 FAU .01791
FDE-1.1246 FRA 1.7335 FC3 -.5421 BSP 19914
BDE 2.9111 BRA 3.7595 BC3 2.6252 FSP -733

MID-COURSE EXECUTION ACCURACY
SGT 6202.5 SGR 433.3 SG3 216.2
RRT -.3016 RRF -.3097 RTF .9699
SGB 6217.6 R23 .0167 R13 -.9699
SG1 6203.9 SG2 413.0 THA 178.79

ORBIT DETERMINATION ACCURACY
ST 3383.9 SR 422.5 SS 1002.2
CRT -.8947 CRS .8638 CST -.9978
LSA 3548.7 MSA 199.6 SSA 14.6
EL1 3405.0 EL2 187.5 ALF 173.61

LAUNCH DATE JUN 11 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 5 1968

HELIOCENTRIC CONIC DISTANCE 588.677
RL 151.90 LAL -.00 LOL 259.41 VL 26.045 GAL 9.21 AZL 93.35 HCA 282.62 SMA 124.14 ECC .27268 INC 3.3494 V1 29.331
RP 107.74 LAP 3.27 LOP 182.05 VP 37.343 GAP 13.93 AZP 90.73 TAL 153.26 TAP 75.88 RCA 90.29 APO 157.99 V2 35.172
RC 163.875 GL -15.53 GP .74 ZAL 44.90 ZAP 173.01 ETS 4.79 ZAE 125.42 ETE 179.88 ZAC 76.66 ETC 13.14 CLP-173.05
PLANETOCENTRIC CONIC
C3 31.491 VHL 5.612 DLA -28.35 RAL 208.67 RAD 6568.3 VEL 12.364 PTH 2.23 VHP 8.868 DPA -.01 RAP 189.82 ECC 1.5183

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
88.59	13 48 0	1042.70	16.80	334.06	84.64	113.18	14 5 23	442.7	19.79	326.67
91.41	14 11 53	965.29	16.81	328.40	84.64	113.17	14 27 59	365.3	19.80	321.01
100.00	14 0 47	1001.25	9.73	327.53	81.13	118.40	14 17 28	401.2	13.45	320.72
100.00	16 41 48	5770.02	24.15	273.71	87.60	108.18	18 17 58	5170.0	26.41	265.63
110.00	14 0 21	1002.61	2.91	323.48	76.98	124.07	14 17 4	402.6	7.36	317.22
110.00	18 58 43	5341.42	31.82	243.61	90.04	103.19	20 27 45	4741.4	33.31	234.70

DIFFERENTIAL CORRECTIONS
TDE-2.9425 TRA 4.0942 TC3-2.3696 BAU .9980
RDE .4177 RRA .0389 RC3 -.0601 FAU .01585
FDE-1.0837 FRA 1.7664 FC3 -.4356 BSP 20036
BDE 2.9719 BRA 4.0944 BC3 2.3704 FSP -699

MID-COURSE EXECUTION ACCURACY
SGT 6217.7 SGR 434.1 SG3 205.6
RRT -.3289 RRF -.3354 RTF .9704
SGB 6232.8 R23 .0158 R13 -.9704
SG1 6219.3 SG2 409.8 THA 178.68

ORBIT DETERMINATION ACCURACY
ST 3326.0 SR 426.7 SS 969.9
CRT -.8891 CRS .8582 CST -.9979
LSA 3484.7 MSA 204.8 SSA 14.1
EL1 3347.7 EL2 194.0 ALF 173.47

LAUNCH DATE JUN 11 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 7 1968

HELIOCENTRIC CONIC DISTANCE 593.878
RL 151.90 LAL -.00 LOL 259.41 VL 26.012 GAL 9.95 AZL 93.34 HCA 285.85 SMA 123.94 ECC .28149 INC 3.3387 V1 29.331
RP 107.78 LAP 3.21 LOP 185.29 VP 37.309 GAP 14.57 AZP 90.91 TAL 152.08 TAP 77.94 RCA 89.05 APO 158.82 V2 35.162
RC 165.860 GL -14.65 GP .72 ZAL 43.20 ZAP 174.07 ETS 5.56 ZAE 125.18 ETE 179.87 ZAC 74.57 ETC 13.14 CLP-174.12
PLANETOCENTRIC CONIC
C3 34.807 VHL 5.900 DLA -28.07 RAL 210.62 RAD 6568.4 VEL 12.497 PTH 2.26 VHP 9.244 DPA -.93 RAP 191.78 ECC 1.5728

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 34 58	1135.60	13.10	339.13	86.83	115.33	13 53 54	535.6	16.40	332.01
90.00	14 40 30	922.86	18.88	326.20	89.43	111.50	14 55 53	322.9	21.64	318.61
100.00	14 1 39	1049.32	8.16	330.24	84.26	118.86	14 19 8	449.3	11.95	323.50
100.00	16 56 31	5772.42	24.10	273.87	91.46	108.24	18 32 43	5172.4	26.37	265.80
110.00	14 4 42	1039.70	1.49	325.41	80.16	124.15	14 22 2	439.7	5.97	319.18
110.00	19 9 56	5354.79	31.61	244.60	93.89	103.74	20 39 11	4754.8	33.18	235.72

DIFFERENTIAL CORRECTIONS
TDE-3.0021 TRA 4.4510 TC3-2.1238 BAU .9886
RDE .4418 RRA .0262 RC3 -.0496 FAU .01387
FDE-1.0464 FRA 1.8014 FC3 -.3450 BSP 20136
BDE 3.0345 BRA 4.4511 BC3 2.1244 FSP -667

MID-COURSE EXECUTION ACCURACY
SGT 6227.3 SGR 434.0 SG3 195.7
RRT -.3563 RRF -.3612 RTF .9711
SGB 6242.4 R23 .0147 R13 -.9711
SG1 6229.2 SG2 405.4 THA 178.57

ORBIT DETERMINATION ACCURACY
ST 3265.9 SR 429.2 SS 940.5
CRT -.8834 CRS .8526 CST -.9980
LSA 3419.2 MSA 209.3 SSA 13.7
EL1 3287.9 EL2 199.8 ALF 173.35

LAUNCH DATE JUN 11 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 9 1968

HELIOCENTRIC CONIC DISTANCE 598.963
RL 151.90 LAL -.00 LOL 259.41 VL 25.978 GAL 10.74 AZL 93.33 HCA 289.08 SMA 123.74 ECC .29109 INC 3.3276 V1 29.331
RP 107.81 LAP 3.14 LOP 188.52 VP 37.276 GAP 15.26 AZP 91.09 TAL 150.93 TAP 80.01 RCA 87.72 APO 159.76 V2 35.151
RC 167.829 GL -13.79 GP .70 ZAL 41.59 ZAP 175.13 ETS 6.73 ZAE 124.94 ETE 179.86 ZAC 72.48 ETC 13.17 CLP-175.18
PLANETOCENTRIC CONIC
C3 38.619 VHL 6.214 DLA -27.77 RAL 212.48 RAD 6568.5 VEL 12.649 PTH 2.30 VHP 9.648 DPA -1.84 RAP 193.75 ECC 1.6356

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 26 15	1214.56	10.75	343.75	89.58	116.35	13 46 29	614.6	14.21	336.77
90.00	15 4 3	896.41	19.53	324.53	93.56	110.92	15 18 59	296.4	22.21	316.88
100.00	14 2 7	1098.59	6.53	332.99	87.33	119.23	14 20 26	498.6	10.38	326.31
100.00	17 10 52	5775.65	24.03	274.08	95.28	108.34	18 47 7	5175.7	26.31	266.02
110.00	14 8 29	1078.60	.01	327.44	83.30	124.18	14 26 27	478.6	4.49	321.23
110.00	19 20 59	5368.41	31.39	245.59	97.72	104.29	20 50 28	4768.4	33.03	236.75

DIFFERENTIAL CORRECTIONS
TDE-3.0647 TRA 4.8309 TC3-1.8883 BAU .9751
RDE .4664 RRA .0115 RC3 -.0405 FAU .01196
FDE-1.0128 FRA 1.8385 FC3 -.2682 BSP 20220
BDE 3.1000 BRA 4.8309 BC3 1.8887 FSP -637

MID-COURSE EXECUTION ACCURACY
SGT 6231.4 SGR 433.2 SG3 186.4
RRT -.3840 RRF -.3872 RTF .9719
SGB 6246.4 R23 .0135 R13 -.9719
SG1 6233.6 SG2 399.8 THA 178.46

ORBIT DETERMINATION ACCURACY
ST 3204.6 SR 430.1 SS 914.0
CRT -.8777 CRS .8471 CST -.9981
LSA 3353.2 MSA 213.2 SSA 13.3
EL1 3226.8 EL2 204.7 ALF 173.25

LAUNCH DATE JUN 11 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 11 1968

DISTANCE 603.913

HELIOCENTRIC CONIC
RL 151.90 LAL -.00 LOL 259.41 VL 25.946 GAL 11.59 AZL 93.32 HCA 292.31 SMA 123.54 ECC .30157 INC 3.3161 VI 29.331
RP 107.84 LAP 3.07 LOP 191.75 VP 37.242 GAP 16.01 AZP 91.26 TAL 149.80 TAP 82.11 RCA 86.29 APO 160.80 V2 35.139
RC 169.783 GL -12.95 GP .68 ZAL 40.06 ZAP 176.19 ETS 8.66 ZAE 124.68 ETE 179.84 ZAC 70.39 ETC 13.22 CLP-176.25

PLANETOCENTRIC CONIC
C3 43.013 VHL 6.558 DLA -27.44 RAL 214.24 RAD 6568.6 VEL 12.821 PTH 2.33 VHP 10.084 DPA -2.75 RAP 195.71 ECC 1.7079

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 20 30	1283.71	8.64	347.72	92.41	117.07	13 41 53	683.7	12.20	340.86
90.00	15 23 51	881.66	19.89	323.59	97.52	110.58	15 38 33	281.7	22.51	315.90
100.00	14 2 14	1148.84	4.85	335.77	90.36	119.53	14 21 23	548.8	8.75	329.15
100.00	17 24 48	5779.81	23.94	274.36	99.07	108.46	19 1 8	5179.8	26.24	266.31
110.00	14 11 42	1119.10	-1.54	329.55	86.39	124.15	14 30 21	519.1	2.95	323.35
110.00	19 31 49	5382.31	31.15	246.61	101.50	104.85	21 1 31	4782.3	32.87	237.81

DIFFERENTIAL CORRECTIONS
TOE-3.1263 TRA 5.2410 TC3-1.6600 BAU .9547
RDE .4913 RRA -.0054 RC3 -.0328 FAU .01004
FDE -.9809 FRA 1.8803 FC3 -.2020 BSP 20181
BDE 3.1647 BRA 5.2410 BC3 1.6603 FSP -604

MID-COURSE EXECUTION ACCURACY
SGT 6230.4 SGR 431.4 SG3 177.7
RRT -.4114 RRF -.4127 RTF .9728
SGB 6245.3 R23 .0119 R13 -.9729
SG1 6232.9 SG2 393.0 THA 178.36

ORBIT DETERMINATION ACCURACY
ST 3140.0 SR 429.2 SS 889.7
CRT -.8716 CRS .8412 CST -.9982
LSA 3284.5 MSA 216.6 SSA 12.8
EL1 3162.3 EL2 208.9 ALF 173.18

LAUNCH DATE JUN 11 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 13 1968

DISTANCE 608.703

HELIOCENTRIC CONIC
RL 151.90 LAL -.00 LOL 259.41 VL 25.913 GAL 12.51 AZL 93.30 HCA 295.54 SMA 123.35 ECC .31303 INC 3.3040 VI 29.331
RP 107.88 LAP 2.98 LOP 194.98 VP 37.209 GAP 16.80 AZP 91.43 TAL 148.72 TAP 84.25 RCA 84.74 APO 161.96 V2 35.128
RC 171.722 GL -12.14 GP .67 ZAL 38.61 ZAP 177.24 ETS 12.21 ZAE 124.42 ETE 179.83 ZAC 68.32 ETC 13.30 CLP-177.32

PLANETOCENTRIC CONIC
C3 48.097 VHL 6.935 DLA -27.10 RAL 215.90 RAD 6568.8 VEL 13.018 PTH 2.37 VHP 10.556 DPA -3.64 RAP 197.67 ECC 1.7916

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 15 58	1348.61	6.61	351.41	95.23	117.60	13 38 27	748.6	10.25	344.63
90.00	15 41 37	872.88	20.10	323.04	101.38	110.38	15 56 10	272.9	22.69	315.32
100.00	14 2 0	1199.88	3.13	338.59	93.33	119.74	14 22 0	599.9	7.07	332.01
100.00	17 38 16	5784.87	23.83	274.69	102.81	108.60	19 14 41	5184.9	26.15	266.66
110.00	14 14 23	1161.81	-3.14	331.74	89.43	124.06	14 33 44	561.0	1.35	325.54
110.00	19 42 23	5396.51	30.90	247.64	105.24	105.41	21 12 20	4796.5	32.70	238.88

DIFFERENTIAL CORRECTIONS
TOE-3.1979 TRA 5.6742 TC3-1.4484 BAU .9315
RDE .5165 RRA -.0243 RC3 -.0263 FAU .00826
FDE -.9551 FRA 1.9233 FC3 -.1487 BSP 20249
BDE 3.2394 BRA 5.6743 BC3 1.4487 FSP -578

MID-COURSE EXECUTION ACCURACY
SGT 6224.6 SGR 428.9 SG3 169.6
RRT -.4394 RRF -.4390 RTF .9740
SGB 6239.4 R23 .0105 R13 -.9741
SG1 6227.5 SG2 385.1 THA 178.26

ORBIT DETERMINATION ACCURACY
ST 3078.9 SR 426.8 SS 869.7
CRT -.8661 CRS .8362 CST -.9983
LSA 3220.2 MSA 218.7 SSA 12.4
EL1 3101.1 EL2 211.8 ALF 173.12

LAUNCH DATE JUN 11 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 15 1968

DISTANCE 613.306

HELIOCENTRIC CONIC
RL 151.90 LAL -.00 LOL 259.41 VL 25.881 GAL 13.51 AZL 93.29 HCA 298.76 SMA 123.16 ECC .32561 INC 3.2913 VI 29.331
RP 107.92 LAP 2.88 LOP 198.21 VP 37.175 GAP 17.67 AZP 91.59 TAL 147.68 TAP 86.43 RCA 83.06 APO 163.26 V2 35.116
RC 173.647 GL -11.34 GP .65 ZAL 37.24 ZAP 178.29 ETS 20.43 ZAE 124.13 ETE 179.80 ZAC 66.27 ETC 13.41 CLP-178.41

PLANETOCENTRIC CONIC
C3 54.002 VHL 7.349 DLA -26.73 RAL 217.46 RAD 6569.0 VEL 13.242 PTH 2.42 VHP 11.069 DPA -4.52 RAP 199.61 ECC 1.8887

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 12 3	1411.14	4.62	354.93	98.03	117.97	13 35 34	814.1	8.33	348.22
90.00	15 57 59	867.95	20.22	322.72	105.15	110.26	16 12 27	268.0	22.79	315.00
100.00	14 1 27	1251.58	1.38	341.43	96.24	119.86	14 22 18	651.6	5.35	334.88
100.00	17 51 16	5790.79	23.70	275.09	106.48	108.77	19 27 47	5190.8	26.04	267.07
110.00	14 16 33	1204.15	-4.78	334.00	92.41	123.89	14 36 37	604.2	-.30	327.79
110.00	19 52 39	5410.98	30.63	248.68	108.92	105.97	21 22 50	4811.0	32.51	239.97

DIFFERENTIAL CORRECTIONS
TOE-3.2750 TRA 6.1392 TC3-1.2489 BAU .9018
RDE .5421 RRA -.0457 RC3 -.0210 FAU .00651
FDE -.9328 FRA 1.9704 FC3 -.1044 BSP 20301
BDE 3.3196 BRA 6.1393 BC3 1.2491 FSP -552

MID-COURSE EXECUTION ACCURACY
SGT 6214.0 SGR 425.6 SG3 161.9
RRT -.4674 RRF -.4655 RTF .9754
SGB 6228.6 R23 .0089 R13 -.9754
SG1 6217.2 SG2 376.1 THA 178.16

ORBIT DETERMINATION ACCURACY
ST 3018.0 SR 422.8 SS 852.9
CRT -.8608 CRS .8316 CST -.9984
LSA 3156.9 MSA 219.9 SSA 12.0
EL1 3040.0 EL2 213.6 ALF 173.09

LAUNCH DATE JUN 11 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 17 1968

DISTANCE 617.684

HELIOCENTRIC CONIC
RL 151.90 LAL -.00 LOL 259.41 VL 25.850 GAL 14.39 AZL 93.28 HCA 301.98 SMA 122.98 ECC .33945 INC 3.2778 VI 29.331
RP 107.96 LAP 2.78 LOP 201.43 VP 37.142 GAP 18.61 AZP 91.74 TAL 146.69 TAP 88.67 RCA 81.23 APO 164.72 V2 35.103
RC 175.555 GL -10.56 GP .64 ZAL 35.97 ZAP 179.20 ETS 51.11 ZAE 123.81 ETE 179.78 ZAC 64.24 ETC 13.54 CLP-179.52

PLANETOCENTRIC CONIC
C3 60.892 VHL 7.803 DLA -26.35 RAL 218.91 RAD 6569.1 VEL 13.500 PTH 2.47 VHP 11.630 DPA -5.39 RAP 201.55 ECC 2.0021

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 8 24	1472.20	2.66	358.35	100.79	118.20	13 32 56	872.2	6.41	351.68
90.00	16 13 14	865.76	20.27	322.58	108.82	110.21	16 27 40	265.8	22.84	314.85
100.00	14 0 32	1303.79	-.39	344.29	99.10	119.89	14 22 16	703.8	3.59	337.76
100.00	18 3 46	5797.44	23.55	275.53	110.08	108.96	19 40 24	5197.4	25.92	267.53
110.00	14 18 13	1248.34	-6.46	336.33	95.34	123.64	14 39 1	648.3	-1.99	330.09
110.00	20 2 35	5425.66	30.35	249.73	112.52	106.54	21 33 1	4825.7	32.31	241.07

DIFFERENTIAL CORRECTIONS
TOE-3.3583 TRA 6.6394 TC3-1.0610 BAU .8638
RDE .5678 RRA -.0696 RC3 -.0169 FAU .00476
FDE -.9142 FRA 2.0226 FC3 -.0677 BSP 20320
BDE 3.4060 BRA 6.6397 BC3 1.0611 FSP -528

MID-COURSE EXECUTION ACCURACY
SGT 6198.3 SGR 421.6 SG3 154.8
RRT -.4953 RRF -.4919 RTF .9769
SGB 6212.6 R23 .0073 R13 -.9770
SG1 6201.8 SG2 366.0 THA 178.06

ORBIT DETERMINATION ACCURACY
ST 2957.5 SR 417.2 SS 839.3
CRT -.8557 CRS .8273 CST -.9985
LSA 3094.6 MSA 220.0 SSA 11.5
EL1 2979.0 EL2 214.4 ALF 173.08

LAUNCH DATE JUN 12 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 21 1967

HELIOCENTRIC CONIC DISTANCE 156.059

RL 151.91 LAL -.00 LOL 260.37 VL 21.853 GAL 2.62 AZL 93.51 HCA 61.43 SMA 104.52 ECC .45520 INC 3.5139 V1 29.328
RP 108.93 LAP -3.09 LOP 321.75 VP 34.161 GAP -26.98 AZP 91.68 TAL 176.85 TAP 238.29 RCA 56.95 APO 152.10 V2 34.788
RC 44.711 GL -10.01 GP -.51 ZAL 83.94 ZAP 15.71 ETS 178.72 ZAE 169.07 ETE 108.17 ZAC 107.46 ETC 15.29 CLP 15.70

PLANETOCENTRIC CONIC

C3 59.273 VHL 7.699 DLA -7.80 RAL 172.81 RAD 6569.1 VEL 13.440 PTH 2.46 VHP 16.053 DPA 11.40 RAP 160.26 ECC 1.9755

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 32 41	2240.30	-20.18	43.12	50.56	110.29	7 10 2	1640.3	-17.24	35.68
90.00	16 33 16	5372.58	27.84	245.58	56.66	84.61	18 2 48	4772.6	26.80	237.07
100.00	7 50 17	1990.00	-21.55	24.16	50.00	111.23	8 23 27	1390.0	-18.48	16.71
100.00	17 58 22	5098.11	29.30	225.23	56.49	83.79	19 23 20	4498.1	28.13	216.62
110.00	8 49 57	1803.17	-25.22	8.32	48.34	113.88	9 20 0	1203.2	-21.77	.86
110.00	19 15 11	4857.72	33.23	206.38	55.90	81.48	20 36 8	4257.7	31.70	197.49

DIFFERENTIAL CORRECTIONS
TOE .4371 TRA -.9599 TC3 -.0096 BAU .0502
RDE -.5213 RRA -.2386 RC3 .0627 FAU .01782
FOE -.3146 FRA .3939 FC3 -.2603 BSP 2102
BDE .6803 BRA .9891 BC3 .0634 FSP -103

MID-COURSE EXECUTION ACCURACY
SGT 791.2 SGR 438.1 SG3 47.6
RRT .0046 RRF -.0036 RTF -.6513
SGB 904.3 R23 .0007 R13 -.6513
SG1 791.2 SG2 438.1 THA .21

ORBIT DETERMINATION ACCURACY
ST 390.7 SR 391.7 SS 347.7
CRT -.7488 CRS -.8762 CST .9737
LSA 621.9 MSA 199.9 SSA 14.5
EL1 517.3 EL2 196.0 ALF 134.90

LAUNCH DATE JUN 12 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 23 1967

HELIOCENTRIC CONIC DISTANCE 162.539

RL 151.91 LAL -.00 LOL 260.37 VL 22.308 GAL 2.44 AZL 93.50 HCA 64.60 SMA 106.21 ECC .43209 INC 3.4976 V1 29.328
RP 108.92 LAP -3.16 LOP 324.92 VP 34.457 GAP -25.56 AZP 91.50 TAL 176.78 TAP 241.38 RCA 60.32 APO 152.10 V2 34.791
RC 44.000 GL -10.81 GP -.53 ZAL 83.95 ZAP 14.06 ETS 178.33 ZAE 169.28 ETE 94.84 ZAC 106.01 ETC 15.09 CLP 14.05

PLANETOCENTRIC CONIC

C3 52.573 VHL 7.251 DLA -8.53 RAL 172.49 RAD 6568.9 VEL 13.188 PTH 2.41 VHP 15.268 DPA 10.83 RAP 161.68 ECC 1.8652

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 37 10	2187.18	-18.89	39.75	48.09	111.49	7 13 38	1587.2	-15.81	32.44
90.00	16 26 14	5366.68	27.80	245.15	54.44	84.40	17 55 40	4766.7	26.73	236.65
100.00	7 54 23	1938.12	-20.24	20.86	47.52	112.48	8 26 41	1338.1	-17.02	13.55
100.00	17 51 43	5090.97	29.24	224.70	54.27	83.52	19 16 34	4491.0	28.04	216.11
110.00	8 53 11	1754.00	-23.82	5.18	45.81	115.27	9 22 25	1154.0	-20.22	357.89
110.00	19 9 24	4847.86	33.13	205.63	53.65	81.05	20 30 12	4247.9	31.54	196.76

DIFFERENTIAL CORRECTIONS
TOE .4381 TRA -.9389 TC3 .0089 BAU .0503
RDE -.4934 RRA -.2242 RC3 .0711 FAU .01855
FOE -.3327 FRA .3999 FC3 -.3055 BSP 2241
BDE .6599 BRA .9653 BC3 .0716 FSP -116

MID-COURSE EXECUTION ACCURACY
SGT 826.3 SGR 441.3 SG3 52.4
RRT .0020 RRF -.0015 RTF -.6717
SGB 936.8 R23 .0004 R13 -.6717
SG1 826.3 SG2 441.3 THA .08

ORBIT DETERMINATION ACCURACY
ST 412.9 SR 393.6 SS 369.5
CRT -.7561 CRS -.8825 CST .9734
LSA 649.0 MSA 201.6 SSA 14.9
EL1 534.7 EL2 198.9 ALF 136.82

LAUNCH DATE JUN 12 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 25 1967

HELIOCENTRIC CONIC DISTANCE 169.063

RL 151.91 LAL -.00 LOL 260.37 VL 22.729 GAL 2.25 AZL 93.48 HCA 67.76 SMA 107.84 ECC .41024 INC 3.4821 V1 29.328
RP 108.91 LAP -3.22 LOP 328.09 VP 34.734 GAP -24.21 AZP 91.32 TAL 176.76 TAP 244.52 RCA 63.60 APO 152.08 V2 34.795
RC 43.455 GL -11.64 GP -.55 ZAL 84.09 ZAP 12.41 ETS 177.83 ZAE 168.95 ETE 81.18 ZAC 104.55 ETC 14.91 CLP 12.40

PLANETOCENTRIC CONIC

C3 46.724 VHL 6.836 DLA -9.25 RAL 172.04 RAD 6568.7 VEL 12.965 PTH 2.36 VHP 14.516 DPA 10.24 RAP 163.10 ECC 1.7690

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 41 3	2134.61	-17.55	36.48	45.57	112.58	7 16 38	1534.6	-14.34	29.28
90.00	16 18 46	5360.42	27.76	244.70	52.09	84.17	17 48 6	4760.4	26.66	236.20
100.00	7 57 52	1886.79	-18.87	17.67	44.98	113.62	8 29 19	1286.8	-15.52	10.48
100.00	17 44 38	5083.47	29.19	224.15	51.91	83.23	19 9 21	4483.5	27.94	215.57
110.00	8 55 49	1705.36	-22.38	2.15	43.23	116.54	9 24 14	1105.4	-18.63	355.01
110.00	19 3 11	4837.66	33.02	204.85	51.28	80.60	20 23 48	4237.7	31.37	196.02

DIFFERENTIAL CORRECTIONS
TOE .4397 TRA -.9168 TC3 .0324 BAU .0540
RDE -.4666 RRA -.2102 RC3 .0802 FAU .01936
FOE -.3523 FRA .4051 FC3 -.3588 BSP 2388
BDE .6412 BRA .9406 BC3 .0865 FSP -130

MID-COURSE EXECUTION ACCURACY
SGT 862.6 SGR 443.7 SG3 57.7
RRT -.0008 RRF .0011 RTF -.6915
SGB 970.0 R23 -.0004 R13 .6915
SG1 862.6 SG2 443.7 THA 179.97

ORBIT DETERMINATION ACCURACY
ST 436.3 SR 394.8 SS 392.7
CRT -.7642 CRS -.8891 CST .9730
LSA 677.7 MSA 202.5 SSA 15.2
EL1 553.1 EL2 200.9 ALF 138.74

LAUNCH DATE JUN 12 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 27 1967

HELIOCENTRIC CONIC DISTANCE 175.628

RL 151.91 LAL -.00 LOL 260.37 VL 23.118 GAL 2.04 AZL 93.47 HCA 70.92 SMA 109.43 ECC .38964 INC 3.4673 V1 29.328
RP 108.90 LAP -3.28 LOP 331.26 VP 34.994 GAP -22.93 AZP 91.13 TAL 176.80 TAP 247.72 RCA 66.79 APO 152.06 V2 34.799
RC 43.079 GL -12.51 GP -.58 ZAL 84.35 ZAP 10.75 ETS 177.20 ZAE 168.06 ETE 68.56 ZAC 103.11 ETC 14.73 CLP 10.74

PLANETOCENTRIC CONIC

C3 41.620 VHL 6.451 DLA -9.94 RAL 171.46 RAD 6568.6 VEL 12.767 PTH 2.32 VHP 13.794 DPA 9.65 RAP 164.50 ECC 1.6850

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 44 18	2082.86	-16.17	33.31	43.00	113.57	7 19 1	1482.9	-12.85	26.21
90.00	16 10 53	5353.95	27.71	244.23	49.62	83.94	17 40 6	4753.9	26.59	235.75
100.00	8 0 44	1836.28	-17.46	14.58	42.40	114.65	8 31 20	1236.3	-13.99	7.50
100.00	17 37 8	5075.77	29.12	223.59	49.44	82.94	19 1 43	4475.8	27.84	215.02
110.00	8 57 49	1657.51	-20.89	359.23	40.61	117.69	9 25 27	1057.5	-17.02	352.24
110.00	18 56 32	4827.30	32.90	204.07	48.78	80.15	20 16 59	4227.3	31.19	195.26

DIFFERENTIAL CORRECTIONS
TOE .4415 TRA -.8943 TC3 .0612 BAU .0605
RDE -.4410 RRA -.1967 RC3 .0900 FAU .02027
FOE -.3733 FRA .4093 FC3 -.4216 BSP 2521
BDE .6240 BRA .9156 BC3 .1088 FSP -145

MID-COURSE EXECUTION ACCURACY
SGT 900.1 SGR 445.3 SG3 63.6
RRT -.0035 RRF .0038 RTF -.7101
SGB 1004.2 R23 -.0005 R13 .7101
SG1 900.1 SG2 445.3 THA 179.87

ORBIT DETERMINATION ACCURACY
ST 460.7 SR 395.2 SS 417.0
CRT -.7726 CRS -.8958 CST .9727
LSA 707.9 MSA 202.7 SSA 15.5
EL1 572.5 EL2 202.0 ALF 140.63

LAUNCH DATE JUN 12 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 29 1967

DISTANCE 182.227

HELIOCENTRIC CONIC
RL 151.91 LAL -.00 LOL 260.37 VL 23.477 GAL 1.82 AZL 93.45 HCA 74.09 SMA 110.96 ECC .37025 INC 3.4530 VI 29.328
RP 108.88 LAP -3.32 LOP 334.42 VP 35.238 GAP -21.71 AZP 90.95 TAL 176.90 TAP 250.99 RCA 69.88 APO 152.04 V2 34.804
RC 42.876 GL -13.40 GP -.61 ZAL 84.74 ZAP 9.09 ETS 176.36 ZAE 166.72 ETE 57.85 ZAC 101.67 ETC 14.57 CLP 9.07

PLANETOCENTRIC CONIC
C3 37.168 VHL 6.097 DLA -10.61 RAL 170.75 RAD 6568.4 VEL 12.591 PTH 2.28 VHP 13.103 DPA 9.05 RAP 165.89 ECC 1.6117

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 46 54	2032.25	-14.77	30.26	40.39	114.44	7 20 46	1432.2	-11.35	23.25
90.00	16 2 35	5347.40	27.67	243.76	47.04	83.71	17 31 43	4747.4	26.51	235.28
100.00	8 2 57	1786.89	-16.04	11.60	39.77	115.57	8 32 44	1186.9	-12.46	4.63
100.00	17 29 13	5068.00	29.06	223.02	46.85	82.65	18 53 41	4468.0	27.74	214.47
110.00	8 59 12	1610.77	-19.39	356.44	37.97	118.72	9 26 2	1010.8	-15.40	349.58
110.00	18 49 28	4816.89	32.78	203.28	46.18	79.70	20 9 45	4216.9	31.01	194.50

DIFFERENTIAL CORRECTIONS
TDE .4447 TRA -.8702 TC3 .0967 BAU .0692
RDE -.4164 RRA -.1837 RC3 .1004 FAU .02128
FDE -.3966 FRA .4126 FC3 -.4957 BSP 2683
BDE .6092 BRA .8894 BC3 .1394 FSP -164

MID-COURSE EXECUTION ACCURACY
SGT 938.5 SGR 446.1 SG3 70.2
RRT -.0072 RRF .0072 RTF -.7283
SGB 1039.2 R23 -.0004 R13 .7283
SG1 938.5 SG2 446.1 THA 179.75

ORBIT DETERMINATION ACCURACY
ST 486.8 SR 394.9 SS 443.2
CRT -.7823 CRS -.9028 CST .9727
LSA 740.5 MSA 202.0 SSA 15.9
EL1 593.5 EL2 201.8 ALF 142.54

LAUNCH DATE JUN 12 1967 FLIGHT TIME 80.00 ARRIVAL DATE AUG 31 1967

DISTANCE 188.856

HELIOCENTRIC CONIC
RL 151.91 LAL -.00 LOL 260.37 VL 23.810 GAL 1.60 AZL 93.44 HCA 77.25 SMA 112.44 ECC .35207 INC 3.4391 VI 29.328
RP 108.87 LAP -3.35 LOP 337.60 VP 35.465 GAP -20.54 AZP 90.76 TAL 177.06 TAP 254.31 RCA 72.85 APO 152.02 V2 34.809
RC 42.849 GL -14.33 GP -.64 ZAL 85.26 ZAP 7.41 ETS 175.14 ZAE 165.05 ETE 49.18 ZAC 100.24 ETC 14.42 CLP 7.38

PLANETOCENTRIC CONIC
C3 33.287 VHL 5.769 DLA -11.26 RAL 169.90 RAD 6568.3 VEL 12.436 PTH 2.25 VHP 12.439 DPA 8.45 RAP 167.25 ECC 1.5478

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 48 49	1983.07	-13.36	27.33	37.74	115.20	7 21 52	1383.1	-9.86	20.40
90.00	15 53 56	5340.89	27.62	243.29	44.38	83.48	17 22 57	4740.9	26.43	234.82
100.00	8 4 30	1738.91	-14.61	8.76	37.12	116.37	8 33 29	1138.9	-10.95	1.88
100.00	17 20 56	5060.28	28.99	222.46	44.18	82.36	18 45 17	4460.3	27.63	213.92
110.00	8 59 55	1565.37	-17.88	353.78	35.30	119.63	9 26 0	965.4	-13.80	347.04
110.00	18 42 1	4806.59	32.65	202.50	43.49	79.26	20 2 7	4206.6	30.82	193.76

DIFFERENTIAL CORRECTIONS
TDE .4461 TRA -.8467 TC3 .1365 BAU .0784
RDE -.3931 RRA -.1712 RC3 .1113 FAU .02240
FDE -.4214 FRA .4148 FC3 -.5825 BSP 2786
BDE .5946 BRA .8638 BC3 .1762 FSP -184

MID-COURSE EXECUTION ACCURACY
SGT 977.8 SGR 446.1 SG3 77.4
RRT -.0094 RRF .0106 RTF -.7433
SGB 1074.7 R23 -.0018 R13 .7433
SG1 977.8 SG2 446.0 THA 179.69

ORBIT DETERMINATION ACCURACY
ST 512.3 SR 393.9 SS 470.3
CRT -.7908 CRS -.9096 CST .9722
LSA 773.3 MSA 201.1 SSA 16.3
EL1 614.1 EL2 201.1 ALF 144.29

LAUNCH DATE JUN 12 1967 FLIGHT TIME 82.00 ARRIVAL DATE SEP 2 1967

DISTANCE 195.511

HELIOCENTRIC CONIC
RL 151.91 LAL -.00 LOL 260.37 VL 24.116 GAL 1.37 AZL 93.43 HCA 80.42 SMA 113.85 ECC .33505 INC 3.4256 VI 29.328
RP 108.85 LAP -3.38 LOP 340.77 VP 35.678 GAP -19.42 AZP 90.57 TAL 177.27 TAP 257.69 RCA 75.71 APO 152.00 V2 34.815
RC 42.995 GL -15.27 GP -.68 ZAL 85.90 ZAP 5.72 ETS 173.21 ZAE 163.18 ETE 42.28 ZAC 98.84 ETC 14.29 CLP 5.68

PLANETOCENTRIC CONIC
C3 29.907 VHL 5.469 DLA -11.87 RAL 168.93 RAD 6568.2 VEL 12.300 PTH 2.22 VHP 11.803 DPA 7.85 RAP 168.60 ECC 1.4922

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 50 3	1935.64	-11.97	24.54	35.06	115.85	7 22 18	1335.6	-8.40	17.69
90.00	15 44 56	5334.47	27.57	242.83	41.63	83.25	17 13 51	4734.5	26.34	234.37
100.00	8 5 21	1692.67	-13.19	6.05	34.43	117.07	8 33 34	1092.7	-9.46	359.25
100.00	17 12 19	5052.67	28.92	221.90	41.44	82.08	18 36 32	4452.7	27.52	213.38
110.00	8 59 58	1521.65	-16.39	351.26	32.62	120.43	9 25 19	921.6	-12.23	344.63
110.00	18 34 12	4796.46	32.52	201.74	40.73	78.83	19 54 8	4196.5	30.64	193.03

DIFFERENTIAL CORRECTIONS
TDE .4506 TRA -.8202 TC3 .1864 BAU .0892
RDE -.3710 RRA -.1592 RC3 .1227 FAU .02367
FDE -.4494 FRA .4153 FC3 -.6851 BSP 2944
BDE .5837 BRA .8355 BC3 .2231 FSP -206

MID-COURSE EXECUTION ACCURACY
SGT 1017.5 SGR 445.2 SG3 85.6
RRT -.0143 RRF .0152 RTF -.7595
SGB 1110.7 R23 -.0018 R13 .7595
SG1 1017.6 SG2 445.1 THA 179.56

ORBIT DETERMINATION ACCURACY
ST 540.6 SR 392.1 SS 499.6
CRT -.8020 CRS -.9169 CST .9724
LSA 809.8 MSA 198.8 SSA 16.6
EL1 637.6 EL2 198.6 ALF 146.08

LAUNCH DATE JUN 12 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 4 1967

DISTANCE 202.186

HELIOCENTRIC CONIC
RL 151.91 LAL -.00 LOL 260.37 VL 24.399 GAL 1.15 AZL 93.41 HCA 83.59 SMA 115.21 ECC .31916 INC 3.4124 VI 29.328
RP 108.83 LAP -3.39 LOP 343.94 VP 35.876 GAP -18.35 AZP 90.38 TAL 177.55 TAP 261.14 RCA 78.44 APO 151.98 V2 34.822
RC 43.312 GL -16.24 GP -.72 ZAL 86.67 ZAP 4.01 ETS 169.61 ZAE 161.21 ETE 36.80 ZAC 97.45 ETC 14.16 CLP 3.95

PLANETOCENTRIC CONIC
C3 26.966 VHL 5.193 DLA -12.45 RAL 167.83 RAD 6568.1 VEL 12.180 PTH 2.19 VHP 11.192 DPA 7.25 RAP 169.92 ECC 1.4438

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 50 33	1890.26	-10.61	21.90	32.36	116.41	7 22 4	1290.3	-6.98	15.11
90.00	15 35 40	5328.18	27.51	242.37	38.83	83.03	17 4 29	4728.2	26.26	233.93
100.00	8 5 30	1648.44	-11.81	3.50	31.73	117.66	8 32 59	1048.4	-8.01	356.77
100.00	17 3 24	5045.23	28.85	221.36	38.63	81.80	18 27 30	4445.2	27.41	212.85
110.00	8 59 20	1479.86	-14.94	348.90	29.92	121.11	9 24 0	879.9	-10.70	342.35
110.00	18 26 4	4786.57	32.38	201.00	37.91	78.41	19 45 51	4186.6	30.45	192.32

DIFFERENTIAL CORRECTIONS
TDE .4570 TRA -.7918 TC3 .2457 BAU .1009
RDE -.3502 RRA -.1478 RC3 .1342 FAU .02510
FDE -.4807 FRA .4147 FC3 -.8057 BSP 3120
BDE .5757 BRA .8055 BC3 .2800 FSP -232

MID-COURSE EXECUTION ACCURACY
SGT 1058.2 SGR 443.4 SG3 94.7
RRT -.0209 RRF .0206 RTF -.7762
SGB 1147.3 R23 -.0010 R13 .7762
SG1 1058.3 SG2 443.3 THA 179.39

ORBIT DETERMINATION ACCURACY
ST 571.3 SR 389.6 SS 531.2
CRT -.8147 CRS -.9241 CST .9732
LSA 849.6 MSA 195.4 SSA 17.0
EL1 663.6 EL2 194.5 ALF 147.85

LAUNCH DATE JUN 12 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 6 1967

HELIOCENTRIC CONIC DISTANCE 208.879

RL 151.91 LAL -.00 LOL 260.37 VL 24.659 GAL .93 AZL 93.40 HCA 86.75 SMA 116.50 ECC .30437 INC 3.3993 VI 29.328
RP 108.80 LAP -3.39 LOP 347.11 VP 36.061 GAP -17.32 AZP 90.19 TAL 177.88 TAP 264.64 RCA 81.04 APO 151.96 V2 34.830
RC 43.796 GL -17.21 GP -.76 ZAL 87.55 ZAP 2.32 ETS 160.61 ZAE 159.22 ETE 32.40 ZAC 96.10 ETC 14.05 CLP 2.19

PLANETOCENTRIC CONIC

C3 24.411 VHL 4.941 DLA -12.99 RAL 166.62 RAD 6568.0 VEL 12.074 PTH 2.16 VHP 10.606 DPA 6.65 RAP 171.20 ECC 1.4017

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 50 21	1847.23	-9.30	19.42	29.64	116.87	7 21 8	1247.2	-5.62	12.67
90.00	15 26 12	5322.02	27.46	241.93	35.98	82.81	16 54 54	4722.0	26.18	233.50
100.00	8 4 57	1606.51	-10.47	1.11	29.02	118.16	8 31 43	1006.5	-6.62	354.43
100.00	16 54 16	5037.96	28.77	220.83	35.78	81.53	18 18 14	4438.0	27.30	212.34
110.00	8 58 2	1440.29	-13.53	346.69	27.22	121.69	9 22 2	840.3	-9.24	340.22
110.00	18 17 41	4776.96	32.25	200.28	35.05	78.00	19 37 18	4177.0	30.26	191.63

DIFFERENTIAL CORRECTIONS
TDE .4616 TRA -.7639 TC3 .3117 BAU .1123
RDE -.3306 RRA -.1370 RC3 .1457 FAU .02668
FDE -.5144 FRA .4129 FC3 -.9463 BSP 3284
BDE .5678 BRA .7761 BC3 .3441 FSP -261

MID-COURSE EXECUTION ACCURACY
SGT 1099.1 SGR 440.8 SG3 104.8
RRT -.0260 RRF .0261 RTF -.7906
SGB 1184.2 R23 -.0015 R13 .7906
SG1 1099.2 SG2 440.6 THA 179.29

ORBIT DETERMINATION ACCURACY
ST 600.9 SR 386.5 SS 563.7
CRT -.8260 CRS -.9311 CST .9735
LSA 889.3 MSA 192.1 SSA 17.4
EL1 688.7 EL2 190.0 ALF 149.44

LAUNCH DATE JUN 12 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 8 1967

HELIOCENTRIC CONIC DISTANCE 215.584

RL 151.91 LAL -.00 LOL 260.37 VL 24.898 GAL .71 AZL 93.39 HCA 89.92 SMA 117.73 ECC .29063 INC 3.3863 VI 29.328
RP 108.78 LAP -3.39 LOP 350.29 VP 36.233 GAP -16.34 AZP 90.00 TAL 178.27 TAP 268.20 RCA 83.51 APO 151.94 V2 34.838
RC 44.440 GL -18.19 GP -.81 ZAL 88.53 ZAP .90 ETS 115.40 ZAE 157.27 ETE 28.81 ZAC 94.78 ETC 13.95 CLP .39

PLANETOCENTRIC CONIC

C3 22.194 VHL 4.711 DLA -13.49 RAL 165.30 RAD 6567.9 VEL 11.982 PTH 2.14 VHP 10.045 DPA 6.06 RAP 172.45 ECC 1.3653

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 49 24	1806.83	-8.04	17.11	26.93	117.24	7 19 31	1206.8	-4.33	10.40
90.00	15 16 35	5315.97	27.41	241.49	33.12	82.60	16 45 11	4716.0	26.10	233.07
100.00	8 3 41	1567.18	-9.20	358.88	26.31	118.57	8 29 48	967.2	-5.31	352.24
100.00	16 45 0	5030.85	28.70	220.32	32.91	81.27	18 8 51	4430.9	27.20	211.84
110.00	8 56 3	1403.16	-12.19	344.65	24.53	122.18	9 19 26	803.2	-7.86	338.24
110.00	18 9 7	4767.64	32.12	199.59	32.17	77.61	19 28 34	4167.6	30.08	190.97

DIFFERENTIAL CORRECTIONS
TDE .4660 TRA -.7359 TC3 .3849 BAU .1233
RDE -.3122 RRA -.1268 RC3 .1568 FAU .02849
FDE -.5525 FRA .4086 FC3-1.1111 BSP 3393
BDE .5610 BRA .7467 BC3 .4156 FSP -293

MID-COURSE EXECUTION ACCURACY
SGT 1140.1 SGR 437.2 SG3 116.2
RRT -.0315 RRF .0330 RTF -.8027
SGB 1221.1 R23 -.0034 R13 .8027
SG1 1140.2 SG2 437.0 THA 179.19

ORBIT DETERMINATION ACCURACY
ST 630.5 SR 382.7 SS 598.7
CRT -.8372 CRS -.9382 CST .9735
LSA 930.9 MSA 188.8 SSA 17.8
EL1 714.1 EL2 184.8 ALF 150.93

LAUNCH DATE JUN 12 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 10 1967

HELIOCENTRIC CONIC DISTANCE 222.298

RL 151.91 LAL -.00 LOL 260.37 VL 25.119 GAL .50 AZL 93.37 HCA 93.10 SMA 118.89 ECC .27792 INC 3.3732 VI 29.328
RP 108.75 LAP -3.37 LOP 353.47 VP 36.393 GAP -15.40 AZP 89.82 TAL 178.71 TAP 271.81 RCA 85.85 APO 151.93 V2 34.846
RC 45.237 GL -19.16 GP -.87 ZAL 89.61 ZAP 1.69 ETS 30.55 ZAE 155.42 ETE 25.83 ZAC 93.50 ETC 13.87 CLP -1.45

PLANETOCENTRIC CONIC

C3 20.273 VHL 4.503 DLA -13.94 RAL 163.88 RAD 6567.8 VEL 11.902 PTH 2.11 VHP 9.506 DPA 5.48 RAP 173.66 ECC 1.3336

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 47 44	1769.32	-6.87	14.98	24.22	117.54	7 17 13	1169.3	-3.13	8.30
90.00	15 6 56	5309.95	27.36	241.06	30.24	82.39	16 35 26	4710.0	26.02	232.65
100.00	8 1 42	1530.66	-8.00	356.83	23.61	118.90	8 27 12	930.7	-4.09	350.23
100.00	16 35 39	5023.85	28.63	219.81	30.03	81.01	17 59 23	4423.8	27.09	211.34
110.00	8 53 24	1368.69	-10.94	342.77	21.84	122.59	9 16 13	768.7	-6.56	336.41
110.00	18 0 25	4758.58	31.98	198.92	29.28	77.23	19 19 44	4158.6	29.90	190.33

DIFFERENTIAL CORRECTIONS
TDE .4721 TRA -.7043 TC3 .4667 BAU .1344
RDE -.2951 RRA -.1172 RC3 .1673 FAU .03048
FDE -.5933 FRA .4026 FC3-1.3016 BSP 3572
BDE .5568 BRA .7140 BC3 .4957 FSP -330

MID-COURSE EXECUTION ACCURACY
SGT 1179.1 SGR 432.8 SG3 128.8
RRT -.0401 RRF .0401 RTF -.8156
SGB 1256.0 R23 -.0023 R13 .8156
SG1 1179.2 SG2 432.4 THA 179.03

ORBIT DETERMINATION ACCURACY
ST 661.7 SR 378.4 SS 634.2
CRT -.8499 CRS -.9448 CST .9744
LSA 974.2 MSA 184.1 SSA 18.1
EL1 741.2 EL2 178.0 ALF 152.35

LAUNCH DATE JUN 12 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 12 1967

HELIOCENTRIC CONIC DISTANCE 229.018

RL 151.91 LAL -.00 LOL 260.37 VL 25.320 GAL .29 AZL 93.36 HCA 96.27 SMA 119.98 ECC .26618 INC 3.3601 VI 29.328
RP 108.72 LAP -3.34 LOP 356.65 VP 36.541 GAP -14.49 AZP 89.63 TAL 179.20 TAP 275.47 RCA 88.05 APO 151.92 V2 34.856
RC 46.178 GL -20.12 GP -.93 ZAL 90.78 ZAP 3.47 ETS 15.12 ZAE 153.70 ETE 23.34 ZAC 92.27 ETC 13.79 CLP -3.34

PLANETOCENTRIC CONIC

C3 18.612 VHL 4.314 DLA -14.34 RAL 162.38 RAD 6567.8 VEL 11.832 PTH 2.10 VHP 8.989 DPA 4.90 RAP 174.81 ECC 1.3063

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 45 21	1734.90	-5.78	13.04	21.54	117.77	7 14 16	1134.9	-2.02	6.38
90.00	14 57 21	5303.89	27.30	240.63	27.37	82.18	16 25 45	4703.9	25.94	232.23
100.00	7 59 2	1497.15	-6.90	354.95	20.93	119.16	8 23 59	897.2	-2.96	348.38
100.00	16 26 20	5016.88	28.55	219.30	27.16	80.76	17 49 57	4416.9	26.98	210.85
110.00	8 50 9	1337.06	-9.77	341.06	19.18	122.92	9 12 26	737.1	-5.37	334.74
110.00	17 51 43	4749.74	31.85	198.26	26.41	76.87	19 10 53	4149.7	29.71	189.70

DIFFERENTIAL CORRECTIONS
TDE .4763 TRA -.6746 TC3 .5532 BAU .1445
RDE -.2793 RRA -.1081 RC3 .1768 FAU .03273
FDE -.6394 FRA .3948 FC3-1.5223 BSP 3694
BDE .5522 BRA .6832 BC3 .5807 FSP -372

MID-COURSE EXECUTION ACCURACY
SGT 1217.9 SGR 427.6 SG3 143.0
RRT -.0475 RRF .0486 RTF -.8258
SGB 1290.8 R23 -.0038 R13 .8258
SG1 1218.1 SG2 427.0 THA 178.91

ORBIT DETERMINATION ACCURACY
ST 690.9 SR 373.6 SS 672.1
CRT -.8610 CRS -.9513 CST .9747
LSA 1017.8 MSA 180.3 SSA 18.5
EL1 766.6 EL2 171.3 ALF 153.62

LAUNCH DATE JUN 12 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 14 1967

DISTANCE 235.739

HELIOCENTRIC CONIC
RL 151.91 LAL -.00 LOL 260.37 VL 25.505 GAL .09 AZL 93.35 HCA 99.44 SMA 121.01 ECC .25538 INC 3.3468 V1 29.328
RP 108.69 LAP -3.30 LOP 359.83 VP 36.679 GAP -13.62 AZP 89.45 TAL 179.73 TAP 279.18 RCA 90.11 APO 151.91 V2 34.865
RC 47.255 GL -21.05 GP -1.00 ZAL 92.02 ZAP 5.38 ETS 10.18 ZAE 152.15 ETE 21.21 ZAC 91.10 ETC 13.73 CLP -5.29

PLANETOCENTRIC CONIC
C3 17.178 VHL 4.145 DLA -14.70 RAL 160.81 RAD 6567.7 VEL 11.771 PTH 2.08 VHP 8.494 DPA 4.34 RAP 175.91 ECC 1.2827

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 42 17	1703.76	-4.79	11.29	18.89	117.94	7 10 40	1103.8	-1.02	4.64
90.00	14 47 55	5297.69	27.24	240.18	24.54	81.96	16 16 13	4697.7	25.85	231.79
100.00	7 55 43	1466.82	-5.89	353.27	18.29	119.36	8 20 10	866.8	-1.93	346.72
100.00	16 17 10	5009.86	28.48	218.80	24.33	80.50	17 40 40	4409.9	26.87	210.36
110.00	8 46 17	1308.40	-8.71	339.52	16.56	123.19	9 8 6	708.4	-4.28	333.23
110.00	17 43 5	4741.05	31.71	197.62	23.56	76.51	19 2 6	4141.0	29.53	189.09

DIFFERENTIAL CORRECTIONS
TOE .4814 TRA -.6417 TC3 .6557 BAU .1564
RDE -.2647 RRA -.0997 RC3 .1846 FAU .03551
FDE -.6922 FRA .3831 FC3-1.7895 BSP 3806
BDE .5494 BRA .6494 BC3 .6812 FSP -418

MID-COURSE EXECUTION ACCURACY
SGT 1256.8 SGR 421.4 SG3 159.7
RRT -.0559 RRF .0578 RTF -.8375
SGB 1325.5 R23 -.0051 R13 .8375
SG1 1257.0 SG2 420.7 THA 178.79

ORBIT DETERMINATION ACCURACY
ST 720.3 SR 368.4 SS 713.3
CRT -.8730 CRS -.9576 CST .9752
LSA 1064.0 MSA 175.8 SSA 18.9
EL1 792.4 EL2 163.3 ALF 154.80

LAUNCH DATE JUN 12 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 16 1967

DISTANCE 242.461

HELIOCENTRIC CONIC
RL 151.91 LAL -.00 LOL 260.37 VL 25.675 GAL -.10 AZL 93.33 HCA 102.62 SMA 121.97 ECC .24546 INC 3.3333 V1 29.328
RP 108.66 LAP -3.25 LOP 3.01 VP 36.806 GAP -12.78 AZP 89.27 TAL 180.30 TAP 282.92 RCA 92.03 APO 151.91 V2 34.875
RC 48.458 GL -21.96 GP -1.08 ZAL 93.31 ZAP 7.38 ETS 7.79 ZAE 150.78 ETE 19.38 ZAC 89.99 ETC 13.68 CLP -7.30

PLANETOCENTRIC CONIC
C3 15.941 VHL 3.993 DLA -15.00 RAL 159.20 RAD 6567.6 VEL 11.719 PTH 2.06 VHP 8.020 DPA 3.80 RAP 176.94 ECC 1.2624

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 38 34	1675.99	-3.90	9.73	16.28	118.07	7 6 30	1076.0	-.12	3.09
90.00	14 38 45	5291.25	27.18	239.72	21.75	81.74	16 6 56	4691.2	25.76	231.34
100.00	7 51 47	1439.75	-4.98	351.77	15.69	119.51	8 15 47	839.7	-1.01	345.23
100.00	16 8 13	5002.72	28.39	218.28	21.54	80.24	17 31 36	4402.7	26.75	209.86
110.00	8 41 54	1282.78	-7.75	338.16	13.99	123.40	9 3 17	682.8	-3.30	331.89
110.00	17 34 36	4732.45	31.57	196.99	20.77	76.16	18 53 28	4132.5	29.35	188.49

DIFFERENTIAL CORRECTIONS
TOE .4915 TRA -.6057 TC3 .7638 BAU .1678
RDE -.2513 RRA -.0920 RC3 .1907 FAU .03854
FDE -.7575 FRA .3662 FC3-2.0930 BSP 4095
BDE .5521 BRA .6126 BC3 .7872 FSP -485

MID-COURSE EXECUTION ACCURACY
SGT 1295.8 SGR 414.6 SG3 178.6
RRT -.0718 RRF .0738 RTF -.8498
SGB 1360.6 R23 -.0058 R13 .8498
SG1 1296.2 SG2 413.4 THA 178.53

ORBIT DETERMINATION ACCURACY
ST 755.5 SR 363.0 SS 762.6
CRT -.8870 CRS -.9642 CST .9765
LSA 1120.1 MSA 170.3 SSA 19.1
EL1 823.9 EL2 153.7 ALF 156.03

LAUNCH DATE JUN 12 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 18 1967

DISTANCE 249.177

HELIOCENTRIC CONIC
RL 151.91 LAL -.00 LOL 260.37 VL 25.829 GAL -.28 AZL 93.32 HCA 105.80 SMA 122.87 ECC .23640 INC 3.3194 V1 29.328
RP 108.63 LAP -3.19 LOP 6.19 VP 36.924 GAP -11.97 AZP 89.10 TAL 180.90 TAP 286.70 RCA 93.82 APO 151.92 V2 34.886
RC 49.776 GL -22.81 GP -1.16 ZAL 94.63 ZAP 9.47 ETS 6.39 ZAE 149.63 ETE 17.78 ZAC 88.96 ETC 13.64 CLP -9.40

PLANETOCENTRIC CONIC
C3 14.877 VHL 3.857 DLA -15.24 RAL 157.56 RAD 6567.6 VEL 11.673 PTH 2.05 VHP 7.567 DPA 3.28 RAP 177.90 ECC 1.2448

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 34 17	1651.65	-3.12	8.37	13.75	118.16	7 1 49	1051.7	.67	1.74
90.00	14 29 58	5284.47	27.11	239.24	19.04	81.51	15 58 2	4684.5	25.66	230.87
100.00	7 47 19	1416.01	-4.18	350.46	13.16	119.63	8 10 55	816.0	-.21	343.93
100.00	15 59 37	4995.35	28.31	217.75	18.82	79.97	17 22 52	4395.4	26.63	209.35
110.00	8 37 3	1260.23	-6.90	336.96	11.48	123.56	8 58 3	660.2	-2.44	330.71
110.00	17 26 22	4723.89	31.43	196.36	18.05	75.82	18 45 6	4123.9	29.16	187.89

DIFFERENTIAL CORRECTIONS
TOE .4953 TRA -.5740 TC3 .8645 BAU .1763
RDE -.2389 RRA -.0847 RC3 .1946 FAU .04184
FDE -.8213 FRA .3486 FC3-2.4348 BSP 4188
BDE .5500 BRA .5802 BC3 .8862 FSP -544

MID-COURSE EXECUTION ACCURACY
SGT 1329.3 SGR 406.8 SG3 199.0
RRT -.0846 RRF .0865 RTF -.8573
SGB 1390.2 R23 -.0066 R13 .8574
SG1 1329.8 SG2 405.2 THA 178.37

ORBIT DETERMINATION ACCURACY
ST 782.4 SR 357.1 SS 805.5
CRT -.8973 CRS -.9694 CST .9769
LSA 1166.3 MSA 166.7 SSA 19.3
EL1 847.6 EL2 145.5 ALF 157.01

LAUNCH DATE JUN 12 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 20 1967

DISTANCE 255.888

HELIOCENTRIC CONIC
RL 151.91 LAL -.00 LOL 260.37 VL 25.970 GAL -.45 AZL 93.31 HCA 108.98 SMA 123.71 ECC .22815 INC 3.3051 V1 29.328
RP 108.59 LAP -3.13 LOP 9.38 VP 37.033 GAP -11.19 AZP 88.92 TAL 181.51 TAP 290.49 RCA 95.48 APO 151.93 V2 34.897
RC 51.201 GL -23.62 GP -1.26 ZAL 95.98 ZAP 11.65 ETS 5.48 ZAE 148.69 ETE 16.37 ZAC 88.02 ETC 13.61 CLP -11.58

PLANETOCENTRIC CONIC
C3 13.963 VHL 3.737 DLA -15.43 RAL 155.91 RAD 6567.5 VEL 11.634 PTH 2.04 VHP 7.134 DPA 2.78 RAP 178.77 ECC 1.2298

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 29 30	1630.71	-2.45	7.20	11.29	118.22	6 56 41	1030.7	1.34	.57
90.00	14 21 38	5277.31	27.04	238.73	16.41	81.26	15 49 35	4677.3	25.55	230.37
100.00	7 42 23	1395.53	-3.49	349.33	10.71	119.71	8 5 39	795.5	.49	342.80
100.00	15 51 26	4987.72	28.22	217.20	16.19	79.70	17 14 33	4387.7	26.51	208.82
110.00	8 31 49	1240.70	-6.17	335.93	9.05	123.69	8 52 29	640.7	-1.70	329.69
110.00	17 18 29	4715.31	31.29	195.74	15.41	75.47	18 37 5	4115.3	28.98	187.30

DIFFERENTIAL CORRECTIONS
TOE .4972 TRA -.5444 TC3 .9657 BAU .1839
RDE -.2276 RRA -.0780 RC3 .1960 FAU .04552
FDE -.8928 FRA .3330 FC3-2.8227 BSP 4270
BDE .5468 BRA .5500 BC3 .9854 FSP -611

MID-COURSE EXECUTION ACCURACY
SGT 1360.9 SGR 398.3 SG3 222.0
RRT -.0976 RRF .1006 RTF -.8649
SGB 1418.0 R23 -.0084 R13 .8650
SG1 1361.5 SG2 396.2 THA 178.21

ORBIT DETERMINATION ACCURACY
ST 805.7 SR 351.0 SS 850.4
CRT -.9063 CRS -.9738 CST .9773
LSA 1211.7 MSA 163.8 SSA 19.4
EL1 868.0 EL2 137.7 ALF 157.87

LAUNCH DATE JUN 12 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 22 1967

HELIOCENTRIC CONIC DISTANCE 262.589

RL 151.91 LAL -.00 LOL 260.37 VL 26.097 GAL -.61 AZL 93.29 HCA 112.16 SMA 124.48 ECC .22065 INC 3.2901 V1 29.328
RP 108.56 LAP -3.05 LOP 12.56 VP 37.133 GAP -10.45 AZP 88.76 TAL 182.14 TAP 294.31 RCA 97.01 APO 151.94 V2 34.908
RC 52.722 GL -24.37 GP -1.38 ZAL 97.32 ZAP 13.93 ETS 4.84 ZAE 148.00 ETE 15.12 ZAC 87.18 ETC 13.60 CLP -13.86

PLANETOCENTRIC CONIC

C3 13.178 VHL 3.630 DLA -15.57 RAL 154.29 RAD 6567.5 VEL 11.600 PTH 2.03 VHP 6.721 DPA 2.31 RAP 179.55 ECC 1.2169

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 24 18	1613.08	-1.88	6.21	8.93	118.26	6 51 11	1013.1	1.91	359.58
90.00	14 13 51	5269.71	26.96	238.18	13.88	81.00	15 41 41	4669.7	25.44	229.85
100.00	7 37 5	1378.24	-2.91	348.38	8.36	119.76	8 0 3	778.2	1.07	341.86
100.00	15 43 45	4979.78	28.12	216.63	13.66	79.42	17 6 45	4379.8	26.37	208.27
110.00	8 26 17	1224.11	-5.54	335.05	6.72	123.79	8 46 41	624.1	-1.06	328.83
110.00	17 11 2	4706.67	31.14	195.11	12.87	75.13	18 29 29	4106.7	28.78	186.70

DIFFERENTIAL CORRECTIONS
TDE .4994 TRA -.5121 TC3 1.0665 BAU .1910
RDE -.2173 RRA -.0719 RC3 .1943 FAU .04979
FDE -.9762 FRA .3093 FC3-3.2713 BSP 4400
BDE .5446 BRA .5172 BC3 1.0840 FSP -694

MID-COURSE EXECUTION ACCURACY
SGT 1387.4 SGR 389.0 SG3 248.5
RRT -.1153 RRF .1194 RTF -.8718
SGB 1440.9 R23 -.0105 R13 .8719
SG1 1388.2 SG2 386.2 THA 177.99

ORBIT DETERMINATION ACCURACY
ST 827.8 SR 344.7 SS 900.0
CRT -.9156 CRS -.9782 CST .9777
LSA 1260.1 MSA 161.0 SSA 19.5
EL1 887.3 EL2 129.3 ALF 158.65

LAUNCH DATE JUN 12 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 24 1967

HELIOCENTRIC CONIC DISTANCE 269.280

RL 151.91 LAL -.00 LOL 260.37 VL 26.213 GAL -.75 AZL 93.27 HCA 115.35 SMA 125.19 ECC .21387 INC 3.2745 V1 29.328
RP 108.52 LAP -2.96 LOP 15.75 VP 37.226 GAP -9.72 AZP 88.60 TAL 182.78 TAP 298.12 RCA 98.41 APO 151.96 V2 34.920
RC 54.330 GL -25.05 GP -1.51 ZAL 98.65 ZAP 16.33 ETS 4.38 ZAE 147.55 ETE 13.99 ZAC 86.45 ETC 13.59 CLP -16.26

PLANETOCENTRIC CONIC

C3 12.505 VHL 3.536 DLA -15.66 RAL 152.70 RAD 6567.5 VEL 11.571 PTH 2.02 VHP 6.327 DPA 1.87 RAP 180.21 ECC 1.2058

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 18 47	1598.60	-1.41	5.40	6.68	118.28	6 45 26	998.6	2.38	358.78
90.00	14 6 41	5261.66	26.87	237.61	11.48	80.73	15 34 22	4661.7	25.32	229.29
100.00	7 31 30	1363.98	-2.43	347.59	6.11	119.80	7 54 14	764.0	1.56	341.07
100.00	15 36 39	4971.51	28.01	216.04	11.25	79.12	16 59 30	4371.5	26.23	207.69
110.00	8 20 33	1210.30	-5.02	334.33	4.50	123.86	8 40 44	610.3	-.54	328.11
110.00	17 4 5	4697.96	30.98	194.47	10.46	74.78	18 22 23	4098.0	28.59	186.10

DIFFERENTIAL CORRECTIONS
TDE .4993 TRA -.4809 TC3 1.1635 BAU .1971
RDE -.2078 RRA -.0663 RC3 .1892 FAU .05472
FDE-1.0691 FRA .2821 FC3-3.7887 BSP 4469
BDE .5408 BRA .4855 BC3 1.1787 FSP -785

MID-COURSE EXECUTION ACCURACY
SGT 1409.5 SGR 379.2 SG3 278.7
RRT -.1348 RRF .1404 RTF -.8777
SGB 1459.6 R23 -.0132 R13 .8779
SG1 1410.5 SG2 375.4 THA 177.76

ORBIT DETERMINATION ACCURACY
ST 845.0 SR 338.4 SS 951.2
CRT -.9239 CRS -.9820 CST .9780
LSA 1306.8 MSA 158.9 SSA 19.4
EL1 902.2 EL2 121.3 ALF 159.30

LAUNCH DATE JUN 12 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 26 1967

HELIOCENTRIC CONIC DISTANCE 275.959

RL 151.91 LAL -.00 LOL 260.37 VL 26.317 GAL -.89 AZL 93.26 HCA 118.53 SMA 125.84 ECC .20776 INC 3.2580 V1 29.328
RP 108.48 LAP -2.86 LOP 18.94 VP 37.311 GAP -9.03 AZP 88.44 TAL 183.40 TAP 301.94 RCA 99.69 APO 151.98 V2 34.932
RC 56.016 GL -25.66 GP -1.66 ZAL 99.94 ZAP 18.86 ETS 4.05 ZAE 147.37 ETE 12.95 ZAC 85.85 ETC 13.59 CLP -18.79

PLANETOCENTRIC CONIC

C3 11.927 VHL 3.454 DLA -15.70 RAL 151.16 RAD 6567.5 VEL 11.546 PTH 2.02 VHP 5.953 DPA 1.47 RAP 180.75 ECC 1.1963

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 13 4	1587.07	-1.04	4.76	4.55	118.30	6 39 31	987.1	2.75	358.13
90.00	14 0 10	5253.18	26.78	237.01	9.21	80.44	15 27 43	4653.2	25.18	228.70
100.00	7 25 45	1352.55	-2.04	346.97	4.00	119.83	7 48 17	752.6	1.94	340.45
100.00	15 30 10	4962.92	27.90	215.43	8.98	78.82	16 52 53	4362.9	26.08	207.10
110.00	8 14 44	1199.09	-4.59	333.74	2.41	123.91	8 34 43	599.1	-.11	327.52
110.00	16 57 40	4689.15	30.82	193.84	8.18	74.44	18 15 49	4089.2	28.38	185.49

DIFFERENTIAL CORRECTIONS
TDE .4980 TRA -.4494 TC3 1.2539 BAU .2020
RDE -.1993 RRA -.0612 RC3 .1805 FAU .06029
FDE-1.1732 FRA .2500 FC3-4.3759 BSP 4556
BDE .5364 BRA .4535 BC3 1.2668 FSP -891

MID-COURSE EXECUTION ACCURACY
SGT 1425.6 SGR 368.8 SG3 312.8
RRT -.1587 RRF .1656 RTF -.8833
SGB 1472.6 R23 -.0159 R13 .8835
SG1 1426.9 SG2 363.8 THA 177.49

ORBIT DETERMINATION ACCURACY
ST 858.6 SR 332.1 SS 1004.4
CRT -.9316 CRS -.9853 CST .9784
LSA 1353.3 MSA 156.9 SSA 19.2
EL1 913.6 EL2 113.4 ALF 159.86

LAUNCH DATE JUN 12 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 28 1967

HELIOCENTRIC CONIC DISTANCE 282.623

RL 151.91 LAL -.00 LOL 260.37 VL 26.411 GAL -1.02 AZL 93.24 HCA 121.72 SMA 126.43 ECC .20228 INC 3.2405 V1 29.328
RP 108.45 LAP -2.76 LOP 22.13 VP 37.389 GAP -8.35 AZP 88.29 TAL 184.02 TAP 305.74 RCA 100.86 APO 152.01 V2 34.945
RC 57.772 GL -26.20 GP -1.83 ZAL 101.18 ZAP 21.54 ETS 3.80 ZAE 147.46 ETE 12.00 ZAC 85.39 ETC 13.60 CLP -21.47

PLANETOCENTRIC CONIC

C3 11.432 VHL 3.381 DLA -15.70 RAL 149.71 RAD 6567.4 VEL 11.525 PTH 2.01 VHP 5.598 DPA 1.10 RAP 181.14 ECC 1.1881

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 7 15	1578.23	-.76	4.27	2.56	118.31	6 33 33	978.2	3.03	357.64
90.00	13 54 22	5244.29	26.68	236.38	7.09	80.14	15 21 46	4644.3	25.04	228.09
100.00	7 19 56	1343.72	-1.74	346.48	2.01	119.85	7 42 19	743.7	2.24	339.96
100.00	15 24 22	4954.03	27.78	214.79	6.85	78.50	16 46 56	4354.0	25.92	206.49
110.00	8 8 55	1190.25	-4.25	333.27	.45	123.95	8 28 45	590.2	.23	327.06
110.00	16 51 52	4680.27	30.66	193.20	6.05	74.09	18 9 52	4080.3	28.18	184.88

DIFFERENTIAL CORRECTIONS
TDE .4941 TRA -.4193 TC3 1.3307 BAU .2050
RDE -.1916 RRA -.0567 RC3 .1678 FAU .06664
FDE-1.2920 FRA .2121 FC3-5.0469 BSP 4616
BDE .5300 BRA .4231 BC3 1.3412 FSP -1016

MID-COURSE EXECUTION ACCURACY
SGT 1433.8 SGR 358.1 SG3 351.8
RRT -.1870 RRF .1962 RTF -.8873
SGB 1477.8 R23 -.0200 R13 .8876
SG1 1435.4 SG2 351.3 THA 177.16

ORBIT DETERMINATION ACCURACY
ST 866.5 SR 326.0 SS 1061.5
CRT -.9384 CRS -.9882 CST .9785
LSA 1399.7 MSA 156.0 SSA 18.8
EL1 919.7 EL2 106.2 ALF 160.28

LAUNCH DATE JUN 12 1967 FLIGHT TIME 110.00 ARRIVAL DATE SEP 30 1967

HELIOCENTRIC CONIC DISTANCE 289.271

```
RL  151.91 LAL   -.00 LOL 260.37 VL  26.496 GAL  -1.13 AZL  93.22 HCA 124.92 SMA 126.97 ECC .19738 INC 3.2218 V1  29.328
RP  108.41 LAP  -2.64 LOP  25.32 VP  37.460 GAP  -7.70 AZP  88.15 TAL 184.61 TAP 309.53 RCA 101.91 APO 152.03 V2  34.957
RC  59.590 GL  -26.66 GP   -2.02 ZAL 102.36 ZAP  24.39 ETS   3.61 ZAE 147.84 ETE  11.11 ZAC  85.11 ETC  13.61 CLP -24.31
```

PLANETOCENTRIC CONIC

```
C3  11.006 VHL  3.318 DLA -15.66 RAL 148.34 RAD 6567.4 VEL 11.506 PTH   2.00 VHP  5.262 DPA    .78 RAP 181.38 ECC 1.1811
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 1 26	1571.81	-.55	3.91	.72	118.31	6 27 38	971.8	3.24	357.28
90.00	13 49 17	5235.04	26.57	235.72	5.12	79.83	15 16 32	4635.0	24.89	227.45
100.00	7 14 9	1337.20	-1.52	346.12	.18	119.86	7 36 26	737.2	2.46	339.60
100.00	15 19 16	4944.88	27.66	214.14	4.88	78.18	16 41 40	4344.9	25.75	205.86
110.00	8 3 12	1183.53	-4.00	332.92	358.63	123.98	8 22 56	583.5	.49	326.71
110.00	16 46 42	4671.31	30.49	192.55	4.07	73.74	18 4 33	4071.3	27.96	184.27

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE  .4854 TRA -.3920 TC3 1.3894 BAU  .2056   SGT 1430.7 SGR  347.1 SG3  395.5          ST   864.9 SR   320.0 SS  1118.3
 RDE -.1845 RRA -.0526 RC3  .1509 FAU .07380   RRT -.2185 RRF  .2315 RTF -.8894          CRT -.9436 CRS -.9905 CST  .9782
 FDE-1.4218 FRA  .1716 FC3-5.8045 BSP   4595   SGB 1472.2 R23 -.0263 R13  .8898          LSA 1440.9 MSA  156.0 SSA   18.4
 BDE  .5193 BRA  .3956 BC3 1.3975 FSP  -1149   SG1 1432.9 SG2  338.2 THA 176.79          EL1  916.7 EL2  100.0 ALF 160.52
```

LAUNCH DATE JUN 12 1967 FLIGHT TIME 112.00 ARRIVAL DATE OCT 2 1967

HELIOCENTRIC CONIC DISTANCE 295.903

```
RL  151.91 LAL   -.00 LOL 260.37 VL  26.571 GAL  -1.23 AZL  93.20 HCA 128.11 SMA 127.46 ECC .19303 INC 3.2014 V1  29.328
RP  108.37 LAP  -2.52 LOP  28.52 VP  37.525 GAP  -7.07 AZP  88.02 TAL 185.17 TAP 313.28 RCA 102.85 APO 152.06 V2  34.970
RC  61.464 GL  -27.05 GP   -2.25 ZAL 103.46 ZAP  27.42 ETS   3.48 ZAE 148.52 ETE  10.24 ZAC  85.00 ETC  13.63 CLP -27.34
```

PLANETOCENTRIC CONIC

```
C3  10.640 VHL  3.262 DLA -15.59 RAL 147.08 RAD 6567.4 VEL 11.490 PTH   2.00 VHP  4.945 DPA    .50 RAP 181.44 ECC 1.1751
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 55 44	1567.52	-.41	3.67	359.03	118.31	6 21 52	967.5	3.38	357.04
90.00	13 44 57	5225.47	26.45	235.05	3.32	79.51	15 12 2	4625.5	24.73	226.80
100.00	7 8 30	1332.73	-1.37	345.88	358.50	119.86	7 30 43	732.7	2.62	339.36
100.00	15 14 52	4935.50	27.52	213.47	3.07	77.86	16 37 7	4335.5	25.57	205.22
110.00	7 57 41	1178.69	-3.82	332.67	356.98	124.00	8 17 19	578.7	.67	326.46
110.00	16 42 11	4662.30	30.32	191.91	2.26	73.40	17 59 53	4062.3	27.75	183.66

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE  .4743 TRA -.3663 TC3 1.4246 BAU  .2035   SGT 1415.7 SGR  336.5 SG3  444.7          ST   857.4 SR   314.4 SS  1179.3
 RDE -.1783 RRA -.0490 RC3  .1294 FAU .08177   RRT -.2580 RRF  .2752 RTF -.8898          CRT -.9480 CRS -.9924 CST  .9777
 FDE-1.5690 FRA  .1257 FC3-6.6536 BSP   4558   SGB 1455.1 R23 -.0340 R13  .8904          LSA 1483.2 MSA  156.3 SSA   17.8
 BDE  .5067 BRA  .3696 BC3 1.4305 FSP  -1305   SG1 1418.5 SG2  324.4 THA 176.30          EL1  908.3 EL2   94.4 ALF 160.61
```

LAUNCH DATE JUN 12 1967 FLIGHT TIME 114.00 ARRIVAL DATE OCT 4 1967

HELIOCENTRIC CONIC DISTANCE 302.518

```
RL  151.91 LAL   -.00 LOL 260.37 VL  26.637 GAL  -1.32 AZL  93.18 HCA 131.30 SMA 127.89 ECC .18919 INC 3.1792 V1  29.328
RP  108.33 LAP  -2.39 LOP  31.71 VP  37.584 GAP  -6.47 AZP  87.90 TAL 185.69 TAP 317.00 RCA 103.70 APO 152.09 V2  34.983
RC  63.388 GL  -27.37 GP   -2.51 ZAL 104.47 ZAP  30.67 ETS   3.39 ZAE 149.52 ETE   9.39 ZAC  85.11 ETC  13.65 CLP -30.57
```

PLANETOCENTRIC CONIC

```
C3  10.322 VHL  3.213 DLA -15.49 RAL 145.94 RAD 6567.4 VEL 11.477 PTH   1.99 VHP  4.649 DPA    .28 RAP 181.29 ECC 1.1699
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 50 13	1565.12	-.33	3.54	357.51	118.32	6 16 18	965.1	3.45	356.90
90.00	13 41 21	5215.61	26.33	234.35	1.68	79.18	15 8 17	4615.6	24.57	226.12
100.00	7 3 4	1330.07	-1.28	345.73	356.98	119.87	7 25 14	730.1	2.71	339.21
100.00	15 11 11	4925.89	27.39	212.80	1.43	77.52	16 33 17	4325.9	25.39	204.56
110.00	7 52 24	1175.52	-3.69	332.50	355.48	124.01	8 12 0	575.5	.79	326.29
110.00	16 38 20	4653.21	30.14	191.26	.61	73.05	17 55 54	4053.2	27.53	183.05

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE  .4606 TRA -.3417 TC3 1.4465 BAU  .2001   SGT 1392.3 SGR  326.6 SG3  501.2          ST   843.5 SR   309.5 SS  1244.2
 RDE -.1730 RRA -.0458 RC3  .1021 FAU .09101   RRT -.3053 RRF  .3279 RTF -.8897          CRT -.9518 CRS -.9940 CST  .9771
 FDE-1.7350 FRA  .0726 FC3-7.6331 BSP   4524   SGB 1430.0 R23 -.0443 R13  .8905          LSA 1526.6 MSA  156.8 SSA   17.2
 BDE  .4920 BRA  .3447 BC3 1.4501 FSP  -1489   SG1 1396.0 SG2  310.1 THA 175.69          EL1  894.0 EL2   89.5 ALF 160.54
```

LAUNCH DATE JUN 12 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 6 1967

HELIOCENTRIC CONIC DISTANCE 309.113

```
RL  151.91 LAL   -.00 LOL 260.37 VL  26.696 GAL  -1.40 AZL  93.15 HCA 134.50 SMA 128.28 ECC .18581 INC 3.1548 V1  29.328
RP  108.29 LAP  -2.25 LOP  34.91 VP  37.638 GAP  -5.88 AZP  87.79 TAL 186.17 TAP 320.67 RCA 104.44 APO 152.11 V2  34.996
RC  65.357 GL  -27.61 GP   -2.82 ZAL 105.38 ZAP  34.14 ETS   3.33 ZAE 150.84 ETE   8.51 ZAC  85.44 ETC  13.68 CLP -34.04
```

PLANETOCENTRIC CONIC

```
C3  10.044 VHL  3.169 DLA -15.36 RAL 144.93 RAD 6567.4 VEL 11.464 PTH   1.99 VHP  4.372 DPA    .10 RAP 180.93 ECC 1.1653
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 44 59	1564.32	-.31	3.49	356.15	118.32	6 11 3	964.3	3.48	356.86
90.00	13 38 31	5205.48	26.20	233.64	.21	78.84	15 5 16	4605.5	24.39	225.43
100.00	6 57 55	1328.96	-1.24	345.67	355.63	119.87	7 20 4	729.0	2.74	339.15
100.00	15 8 15	4916.08	27.24	212.10	359.96	77.19	16 30 11	4316.1	25.20	203.89
110.00	7 47 28	1173.76	-3.63	332.41	354.14	124.01	8 7 2	573.8	.86	326.20
110.00	16 35 12	4644.04	29.96	190.61	359.13	72.71	17 52 36	4044.0	27.30	182.43

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE  .4398 TRA -.3219 TC3 1.4299 BAU  .1922   SGT 1348.3 SGR  318.0 SG3  563.3          ST   815.9 SR   305.4 SS  1309.1
 RDE -.1684 RRA -.0430 RC3  .0693 FAU .10113   RRT -.3583 RRF  .3900 RTF -.8851          CRT -.9537 CRS -.9953 CST  .9756
 FDE-1.9148 FRA  .0184 FC3-8.7162 BSP   4359   SGB 1385.3 R23 -.0608 R13  .8865          LSA 1564.4 MSA  158.3 SSA   16.4
 BDE  .4709 BRA  .3247 BC3 1.4316 FSP  -1683   SG1 1353.3 SG2  295.8 THA 174.93          EL1  866.9 EL2   86.4 ALF 160.15
```

LAUNCH DATE JUN 12 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 8 1967

HELIOCENTRIC CONIC DISTANCE 315.690

RL 151.91 LAL -.00 LOL 260.37 VL 26.747 GAL -1.47 AZL 93.13 HCA 137.70 SMA 128.62 ECC .18286 INC 3.1274 V1 29.328
RP 108.25 LAP -2.10 LOP 38.11 VP 37.687 GAP -5.31 AZP 87.69 TAL 186.59 TAP 324.30 RCA 105.10 APO 152.14 V2 35.009
RC 67.365 GL -27.77 GP -3.19 ZAL 106.19 ZAP 37.86 ETS 3.29 ZAE 152.50 ETE 7.55 ZAC 86.03 ETC 13.70 CLP -37.75

PLANETOCENTRIC CONIC

C3 9.799 VHL 3.130 DLA -15.20 RAL 144.05 RAD 6567.4 VEL 11.454 PTH 1.99 VHP 4.116 DPA -.02 RAP 180.31 ECC 1.1613

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 40 3	1564.96	-.33	3.53	354.95	118.32	6 6 8	965.0	3.46	356.90
90.00	13 36 26	5195.03	26.06	232.90	358.91	78.50	15 3 1	4595.0	24.21	224.72
100.00	6 53 7	1329.22	-1.25	345.69	354.44	119.87	7 15 16	729.2	2.73	339.16
100.00	15 6 3	4906.00	27.09	211.39	358.66	76.84	16 27 49	4306.0	25.00	203.21
110.00	7 42 54	1173.26	-3.61	332.38	352.96	124.02	8 2 27	573.3	.88	326.18
110.00	16 32 45	4634.73	29.77	189.95	357.82	72.36	17 50 0	4034.7	27.07	181.81

DIFFERENTIAL CORRECTIONS
TDE .4146 TRA -.3037 TC3 1.3836 BAU .1813
RDE -.1648 RRA -.0407 RC3 .0293 FAU .11241
FDE-2.1123 FRA -.0428 FC3-9.9307 BSP 4182
BDE .4461 BRA .3064 BC3 1.3839 FSP -1911

MID-COURSE EXECUTION ACCURACY
SGT 1287.6 SGR 311.9 SG3 632.6
RRT -.4197 RRF .4635 RTF -.8775
SGB 1324.9 R23 -.0845 R13 .8797
SG1 1294.6 SG2 281.6 THA 173.90

ORBIT DETERMINATION ACCURACY
ST 778.6 SR 302.6 SS 1376.4
CRT -.9546 CRS -.9963 CST .9735
LSA 1602.0 MSA 159.8 SSA 15.6
EL1 831.1 EL2 84.4 ALF 159.43

LAUNCH DATE JUN 12 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 10 1967

HELIOCENTRIC CONIC DISTANCE 322.247

RL 151.91 LAL -.00 LOL 260.37 VL 26.791 GAL -1.52 AZL 93.10 HCA 140.91 SMA 128.92 ECC .18030 INC 3.0964 V1 29.328
RP 108.20 LAP -1.95 LOP 41.31 VP 37.730 GAP -4.76 AZP 87.60 TAL 186.96 TAP 327.87 RCA 105.67 APO 152.16 V2 35.023
RC 69.409 GL -27.87 GP -3.62 ZAL 106.89 ZAP 41.85 ETS 3.27 ZAE 154.52 ETE 6.43 ZAC 86.88 ETC 13.71 CLP -41.73

PLANETOCENTRIC CONIC

C3 9.580 VHL 3.095 DLA -15.02 RAL 143.31 RAD 6567.3 VEL 11.444 PTH 1.99 VHP 3.881 DPA -.09 RAP 179.43 ECC 1.1577

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 35 28	1566.90	-.39	3.64	353.92	118.31	6 1 35	966.9	3.40	357.00
90.00	13 35 8	5184.16	25.91	232.14	357.78	78.15	15 1 33	4584.2	24.01	223.99
100.00	6 48 40	1330.73	-1.30	345.77	353.41	119.87	7 10 51	730.7	2.68	339.25
100.00	15 4 38	4895.56	26.92	210.66	357.53	76.49	16 26 13	4295.6	24.79	202.51
110.00	7 38 44	1173.89	-3.63	332.42	351.96	124.01	7 58 18	573.9	.86	326.21
110.00	16 31 3	4625.17	29.57	189.28	356.68	72.01	17 48 8	4025.2	26.82	181.17

DIFFERENTIAL CORRECTIONS
TDE .3821 TRA -.2906 TC3 1.2940 BAU .1658
RDE -.1623 RRA -.0386 RC3 -.0186 FAU .12454
FDE-2.3216 FRA -.1008 FC-11.2544 BSP 3880
BDE .4152 BRA .2931 BC3 1.2942 FSP -2146

MID-COURSE EXECUTION ACCURACY
SGT 1205.1 SGR 309.7 SG3 707.4
RRT -.4838 RRF .5466 RTF -.8628
SGB 1244.2 R23 -.1225 R13 .8667
SG1 1214.8 SG2 268.9 THA 172.55

ORBIT DETERMINATION ACCURACY
ST 727.2 SR 301.3 SS 1442.8
CRT -.9531 CRS -.9971 CST .9700
LSA 1635.5 MSA 161.8 SSA 14.7
EL1 782.6 EL2 84.7 ALF 158.18

LAUNCH DATE JUN 12 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 12 1967

HELIOCENTRIC CONIC DISTANCE 328.784

RL 151.91 LAL -.00 LOL 260.37 VL 26.829 GAL -1.57 AZL 93.06 HCA 144.11 SMA 129.17 ECC .17811 INC 3.0608 V1 29.328
RP 108.16 LAP -1.79 LOP 44.52 VP 37.770 GAP -4.22 AZP 87.52 TAL 187.27 TAP 331.38 RCA 106.17 APO 152.18 V2 35.036
RC 71.485 GL -27.88 GP -4.12 ZAL 107.49 ZAP 46.13 ETS 3.26 ZAE 156.90 ETE 5.04 ZAC 88.03 ETC 13.71 CLP -45.99

PLANETOCENTRIC CONIC

C3 9.380 VHL 3.063 DLA -14.82 RAL 142.72 RAD 6567.3 VEL 11.435 PTH 1.98 VHP 3.668 DPA -.12 RAP 178.26 ECC 1.1544

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 31 14	1570.12	-.50	3.82	353.05	118.31	5 57 24	970.1	3.29	357.18
90.00	13 34 40	5172.67	25.74	231.34	356.82	77.78	15 0 53	4572.7	23.80	223.21
100.00	6 44 35	1333.47	-1.39	345.92	352.55	119.86	7 6 49	733.5	2.59	339.40
100.00	15 4 1	4884.56	26.74	209.89	356.56	76.12	16 25 25	4284.6	24.57	201.77
110.00	7 34 58	1175.63	-3.70	332.51	351.11	124.01	7 54 34	575.6	.79	326.30
110.00	16 30 6	4615.16	29.35	188.58	355.70	71.64	17 47 2	4015.2	26.57	180.50

DIFFERENTIAL CORRECTIONS
TDE .3449 TRA -.2792 TC3 1.1709 BAU .1472
RDE -.1613 RRA -.0371 RC3 -.0773 FAU .13791
FDE-2.5465 FRA -.1645 FC-12.7286 BSP 3573
BDE .3807 BRA .2816 BC3 1.1734 FSP -2424

MID-COURSE EXECUTION ACCURACY
SGT 1105.7 SGR 313.8 SG3 789.9
RRT -.5474 RRF .6378 RTF -.8402
SGB 1149.3 R23 -.1804 R13 .8477
SG1 1119.7 SG2 259.3 THA 170.67

ORBIT DETERMINATION ACCURACY
ST 665.6 SR 302.5 SS 1511.9
CRT -.9497 CRS -.9977 CST .9647
LSA 1671.4 MSA 163.4 SSA 13.8
EL1 725.9 EL2 86.8 ALF 156.29

LAUNCH DATE JUN 12 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 14 1967

HELIOCENTRIC CONIC DISTANCE 335.301

RL 151.91 LAL -.00 LOL 260.37 VL 26.861 GAL -1.60 AZL 93.02 HCA 147.32 SMA 129.39 ECC .17624 INC 3.0192 V1 29.328
RP 108.12 LAP -1.63 LOP 47.72 VP 37.805 GAP -3.70 AZP 87.46 TAL 187.50 TAP 334.83 RCA 106.58 APO 152.19 V2 35.049
RC 73.590 GL -27.80 GP -4.73 ZAL 107.97 ZAP 50.70 ETS 3.25 ZAE 159.63 ETE 3.12 ZAC 89.48 ETC 13.69 CLP -50.54

PLANETOCENTRIC CONIC

C3 9.193 VHL 3.032 DLA -14.58 RAL 142.29 RAD 6567.3 VEL 11.427 PTH 1.98 VHP 3.478 DPA -.13 RAP 176.79 ECC 1.1513

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 27 20	1574.69	-.64	4.07	352.34	118.31	5 53 34	974.7	3.15	357.44
90.00	13 35 6	5160.27	25.56	230.48	356.01	77.38	15 1 6	4560.3	23.57	222.38
100.00	6 40 51	1337.47	-1.53	346.14	351.85	119.86	7 3 9	737.5	2.46	339.62
100.00	15 4 16	4872.71	26.55	209.07	355.75	75.73	16 25 29	4272.7	24.32	200.97
110.00	7 31 36	1178.49	-3.81	332.66	350.43	124.00	7 51 15	578.5	.68	326.45
110.00	16 30 0	4604.46	29.12	187.83	354.88	71.25	17 46 44	4004.5	26.29	179.80

DIFFERENTIAL CORRECTIONS
TDE .2990 TRA -.2732 TC3 .9923 BAU .1233
RDE -.1618 RRA -.0357 RC3 -.1479 FAU .15165
FDE-2.7697 FRA -.2180 FC-14.2821 BSP 3129
BDE .3400 BRA .2755 BC3 1.0032 FSP -2698

MID-COURSE EXECUTION ACCURACY
SGT 982.8 SGR 326.1 SG3 875.1
RRT -.5913 RRF .7286 RTF -.7978
SGB 1035.5 R23 -.2748 R13 .8139
SG1 1002.9 SG2 257.7 THA 168.10

ORBIT DETERMINATION ACCURACY
ST 587.5 SR 306.4 SS 1575.4
CRT -.9411 CRS -.9982 CST .9551
LSA 1701.0 MSA 165.5 SSA 12.9
EL1 656.1 EL2 92.8 ALF 153.28

LAUNCH DATE JUN 12 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 16 1967

HELIOCENTRIC CONIC DISTANCE 341.797

RL	151.91	LAL	-.00	LOL	260.37	VL	26.888	GAL	-1.62	AZL	92.97	HCA	150.53	SMA	129.57	ECC	.17469	INC	2.9696	V1	29.328
RP	108.08	LAP	-1.46	LOP	50.93	VP	37.836	GAP	-3.19	AZP	87.41	TAL	187.68	TAP	338.21	RCA	106.93	APO	152.20	V2	35.062
RC	75.721	GL	-27.63	GP	-5.46	ZAL	108.35	ZAP	55.56	ETS	3.22	ZAE	162.69	ETE	.24	ZAC	91.23	ETC	13.64	CLP	-55.38

PLANETOCENTRIC CONIC

C3	9.012	VHL	3.002	DLA	-14.29	RAL	142.01	RAO	6567.3	VEL	11.419	PTH	1.98	VHP	3.313	DPA	-.14	RAP	175.01	ECC	1.1483

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 23 40	1580.89	-.84	4.42	351.80	118.31	5 50 1	980.9	2.95	357.79
90.00	13 36 33	5146.41	25.35	229.52	355.35	76.95	15 2 19	4546.4	23.30	221.45
100.00	6 37 23	1343.02	-1.72	346.44	351.31	119.85	6 59 46	743.0	2.27	339.92
100.00	15 5 31	4859.51	26.32	208.15	355.09	75.30	16 26 30	4259.5	24.04	200.09
110.00	7 28 34	1182.70	-3.97	332.88	349.91	123.98	7 48 17	582.7	.52	326.67
110.00	16 30 49	4592.59	28.86	187.01	354.21	70.83	17 47 22	3992.6	25.97	179.02

DIFFERENTIAL CORRECTIONS

TDE	.2471	TRA	-.2695	TC3	.7664	BAU	.0966
RDE	-.1644	RRA	-.0347	RC3	-.2349	FAU	.16585
FDE	-2.9923	FRA	-.2698	FC	-15.9313	BSP	2655
BDE	.2968	BRA	.2717	BC3	.8016	FSP	-2999

MID-COURSE EXECUTION ACCURACY

SGT	846.1	SGR	350.7	SG3	963.6
RRT	-.5950	RRF	.8122	RTF	-.7219
SGB	915.9	R23	-.4126	R13	.7600
SG1	874.3	SG2	272.8	THA	164.61

ORBIT DETERMINATION ACCURACY

ST	498.0	SR	314.4	SS	1637.5
CRT	-.9245	CRS	-.9986	CST	.9380
LSA	1732.1	MSA	167.1	SSA	11.9
EL1	579.8	EL2	102.9	ALF	148.63

LAUNCH DATE JUN 12 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 18 1967

HELIOCENTRIC CONIC DISTANCE 348.272

RL	151.91	LAL	-.00	LOL	260.37	VL	26.909	GAL	-1.62	AZL	92.91	HCA	153.74	SMA	129.71	ECC	.17341	INC	2.9090	V1	29.328
RP	108.04	LAP	-1.29	LOP	54.14	VP	37.863	GAP	-2.70	AZP	87.39	TAL	187.78	TAP	341.52	RCA	107.22	APO	152.21	V2	35.075
RC	77.874	GL	-27.34	GP	-6.35	ZAL	108.62	ZAP	60.69	ETS	3.16	ZAE	166.01	ETE	355.40	ZAC	93.27	ETC	13.54	CLP	-60.49

PLANETOCENTRIC CONIC

C3	8.832	VHL	2.972	DLA	-13.95	RAL	141.90	RAO	6567.3	VEL	11.411	PTH	1.98	VHP	3.173	DPA	-.19	RAP	172.93	ECC	1.1454

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 20 7	1589.24	-1.11	4.88	351.41	118.30	5 46 36	989.2	2.68	358.25
90.00	13 39 13	5130.30	25.10	228.41	354.84	76.44	15 4 44	4530.3	22.99	220.37
100.00	6 34 5	1350.59	-1.97	346.86	350.93	119.83	6 56 36	750.6	2.01	340.34
100.00	15 7 57	4844.18	26.05	207.09	354.57	74.80	16 28 41	4244.2	23.71	199.07
110.00	7 25 47	1188.66	-4.19	333.19	349.55	123.96	7 45 36	588.7	.29	326.98
110.00	16 32 44	4578.88	28.55	186.06	353.69	70.35	17 49 3	3978.9	25.60	178.12

DIFFERENTIAL CORRECTIONS

TDE	.1866	TRA	-.2705	TC3	.4787	BAU	.0694
RDE	-.1691	RRA	-.0336	RC3	-.3414	FAU	.17931
FDE	-3.1827	FRA	-.2983	FC	-17.5764	BSP	2110
BDE	.2518	BRA	.2726	BC3	.5880	FSP	-3278

MID-COURSE EXECUTION ACCURACY

SGT	706.5	SGR	389.7	SG3	1048.1
RRT	-.5051	RRF	.8799	RTF	-.5673
SGB	806.8	R23	-.5943	R13	.6643
SG1	740.2	SG2	321.0	THA	160.65

ORBIT DETERMINATION ACCURACY

ST	394.3	SR	326.6	SS	1685.2
CRT	-.8858	CRS	-.9989	CST	.9000
LSA	1753.1	MSA	168.9	SSA	10.9
EL1	497.7	EL2	120.1	ALF	141.04

LAUNCH DATE JUN 12 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 20 1967

HELIOCENTRIC CONIC DISTANCE 354.727

RL	151.91	LAL	-.00	LOL	260.37	VL	26.926	GAL	-1.62	AZL	92.83	HCA	156.96	SMA	129.83	ECC	.17239	INC	2.8326	V1	29.328
RP	108.00	LAP	-1.11	LOP	57.35	VP	37.886	GAP	-2.22	AZP	87.39	TAL	187.81	TAP	344.77	RCA	107.44	APO	152.21	V2	35.088
RC	80.046	GL	-26.90	GP	-7.46	ZAL	108.79	ZAP	66.06	ETS	3.03	ZAE	169.42	ETE	346.17	ZAC	95.60	ETC	13.36	CLP	-65.84

PLANETOCENTRIC CONIC

C3	8.644	VHL	2.940	DLA	-13.50	RAL	141.97	RAO	6567.3	VEL	11.403	PTH	1.97	VHP	3.060	DPA	-.36	RAP	170.54	ECC	1.1423

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 16 27	1600.75	-1.48	5.52	351.18	118.28	5 43 8	1000.8	2.31	358.90
90.00	13 43 28	5110.59	24.78	227.05	354.47	75.84	15 8 38	4510.6	22.59	219.06
100.00	6 30 43	1361.13	-2.33	347.44	350.71	119.81	6 53 24	761.1	1.65	340.92
100.00	15 11 52	4825.45	25.71	205.80	354.19	74.21	16 32 18	4225.5	23.30	197.84
110.00	7 23 4	1197.15	-4.52	333.64	349.35	123.92	7 43 2	597.1	-.03	327.42
110.00	16 36 0	4562.20	28.16	184.92	353.30	69.77	17 52 3	3962.2	25.15	177.04

DIFFERENTIAL CORRECTIONS

TDE	.1213	TRA	-.2730	TC3	.1378	BAU	.0573
RDE	-.1767	RRA	-.0326	RC3	-.4759	FAU	.19191
FDE	-3.3376	FRA	-.3103	FC	-19.2205	BSP	1680
BDE	.2144	BRA	.2750	BC3	.4955	FSP	-3545

MID-COURSE EXECUTION ACCURACY

SGT	601.6	SGR	448.6	SG3	1127.9
RRT	-.2534	RRF	.9296	RTF	-.2691
SGB	750.4	R23	-.7995	R13	.4757
SG1	622.1	SG2	419.6	THA	159.80

ORBIT DETERMINATION ACCURACY

ST	287.8	SR	345.1	SS	1722.7
CRT	-.7876	CRS	-.9992	CST	.8040
LSA	1772.2	MSA	170.1	SSA	9.9
EL1	425.8	EL2	143.7	ALF	128.48

LAUNCH DATE JUN 12 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 22 1967

HELIOCENTRIC CONIC DISTANCE 361.162

RL	151.91	LAL	-.00	LOL	260.37	VL	26.938	GAL	-1.60	AZL	92.73	HCA	160.18	SMA	129.91	ECC	.17161	INC	2.7333	V1	29.328
RP	107.96	LAP	-.93	LOP	60.56	VP	37.907	GAP	-1.76	AZP	87.43	TAL	187.77	TAP	347.95	RCA	107.61	APO	152.20	V2	35.101
RC	82.236	GL	-26.23	GP	-8.87	ZAL	108.87	ZAP	71.61	ETS	2.81	ZAE	172.35	ETE	326.33	ZAC	98.16	ETC	13.07	CLP	-71.38

PLANETOCENTRIC CONIC

C3	8.438	VHL	2.905	DLA	-12.89	RAL	142.25	RAO	6567.3	VEL	11.394	PTH	1.97	VHP	2.976	DPA	-.74	RAP	167.87	ECC	1.1389

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 12 15	1617.18	-2.01	6.44	351.11	118.25	5 39 12	1017.2	1.78	359.81
90.00	13 49 51	5085.05	24.34	225.31	354.22	75.07	15 14 36	4485.1	22.05	217.38
100.00	6 26 55	1376.26	-2.84	348.27	350.65	119.77	6 49 52	776.3	1.14	341.75
100.00	15 17 52	4801.20	25.25	204.15	353.94	73.45	16 37 53	4201.2	22.74	196.25
110.00	7 20 9	1209.58	-4.99	334.29	349.32	123.86	7 40 18	609.6	-.51	328.07
110.00	16 41 8	4540.64	27.65	183.45	353.03	69.05	17 56 49	3940.6	24.54	175.66

DIFFERENTIAL CORRECTIONS

TDE	.0507	TRA	-.2779	TC3	-.2678	BAU	.0791
RDE	-.1875	RRA	-.0309	RC3	-.6483	FAU	.20235
FDE	-3.4178	FRA	-.2891	FC	-20.7596	BSP	1627
BDE	.1942	BRA	.2796	BC3	.7014	FSP	-3774

MID-COURSE EXECUTION ACCURACY

SGT	591.8	SGR	531.6	SG3	1194.9
RRT	.1804	RRF	.9621	RTF	.1871
SGB	795.5	R23	.7795	R13	.5641
SG1	618.4	SG2	500.3	THA	29.59

ORBIT DETERMINATION ACCURACY

ST	196.1	SR	370.5	SS	1736.2
CRT	-.4644	CRS	-.9994	CST	.4850
LSA	1777.8	MSA	171.5	SSA	8.8
EL1	384.3	EL2	167.4	ALF	107.16

LAUNCH DATE JUN 12 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 24 1967

HELIOCENTRIC CONIC DISTANCE 367.576

```
RL  151.91 LAL   -.00 LOL 260.37 VL  26.946 GAL  -1.57 AZL  92.60 HCA 163.40 SMA 129.96 ECC .17105 INC 2.5966 V1  29.328
RP  107.92 LAP   -.74 LOP  63.78 VP  37.924 GAP  -1.30 AZP  87.51 TAL 187.66 TAP 351.06 RCA 107.73 APO 152.19 V2  35.113
RC  84.440 GL  -25.23 GP  -10.75 ZAL 108.87 ZAP  77.28 ETS   2.44 ZAE 173.21 ETE 289.54 ZAC 100.94 ETC  12.58 CLP -77.05
```

PLANETOCENTRIC CONIC

```
C3   8.199 VHL  2.863 DLA -12.00 RAL 142.77 RAD 6567.3 VEL 11.384 PTH   1.97 VHP  2.922 DPA  -1.53 RAP 164.91 ECC 1.1349
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 6 48	1641.83	-2.81	7.82	351.22	118.19	5 34 9	1041.8	.98	1.19
90.00	13 59 27	5049.63	23.70	222.91	354.08	74.03	15 23 37	4449.6	21.28	215.07
100.00	6 22 1	1399.12	-3.61	349.53	350.78	119.69	6 45 20	799.1	.37	343.00
100.00	15 26 55	4767.57	24.58	201.87	353.79	72.43	16 46 22	4167.6	21.95	194.07
110.00	7 16 27	1228.66	-5.71	335.29	349.48	123.76	7 36 56	628.7	-1.24	329.07
110.00	16 48 58	4510.79	26.90	181.45	352.87	68.07	18 4 9	3910.8	23.69	173.76

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE -.0199 TRA -.2814 TC3 -.7346 BAU  .1253   SGT  714.1 SGR  646.3 SG3 1240.3      ST   177.7 SR   404.1 SS  1713.7
 RDE -.2017 RRA -.0274 RC3 -.8762 FAU .20915   RRT  .5620 RRF  .9814 RTF  .5706     CRT  .2669 CRS -.9996 CST -.2471
 FDE-3.3865 FRA -.2205 FC-22.0835 BSP   2172   SGB  963.2 R23  .5015 R13  .8439     LSA 1761.2 MSA  172.3 SSA     7.8
 BDE  .2026 BRA  .2827 BC3 1.1434 FSP  -3925   SG1  852.8 SG2  447.6 THA  39.96     EL1  407.5 EL2  169.8 ALF  81.89
```

LAUNCH DATE JUN 12 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 26 1967

HELIOCENTRIC CONIC DISTANCE 373.969

```
RL  151.91 LAL   -.00 LOL 260.37 VL  26.950 GAL  -1.53 AZL  92.40 HCA 166.62 SMA 129.99 ECC .17068 INC 2.3965 V1  29.328
RP  107.89 LAP   -.55 LOP  67.00 VP  37.938 GAP  -.86 AZP  87.67 TAL 187.48 TAP 354.10 RCA 107.80 APO 152.18 V2  35.125
RC  86.655 GL  -23.63 GP  -13.40 ZAL 108.83 ZAP  82.97 ETS   1.81 ZAE 170.49 ETE 258.33 ZAC 103.89 ETC  11.75 CLP -82.78
```

PLANETOCENTRIC CONIC

```
C3   7.902 VHL  2.811 DLA -10.61 RAL 143.62 RAD 6567.3 VEL 11.371 PTH   1.96 VHP  2.905 DPA  -3.04 RAP 161.63 ECC 1.1301
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 58 37	1681.53	-4.08	10.04	351.56	118.05	5 26 39	1081.5	-.30	3.40
90.00	14 14 25	4996.26	22.65	219.35	354.05	72.54	15 37 41	4396.3	20.05	211.64
100.00	6 14 40	1436.15	-4.86	351.57	351.13	119.53	6 38 37	836.2	-.89	345.03
100.00	15 41 2	4716.87	23.50	198.50	353.75	70.97	16 59 39	4116.9	20.68	190.83
110.00	7 10 56	1260.00	-6.89	336.95	349.88	123.56	7 31 56	660.0	-2.43	330.70
110.00	17 1 17	4465.79	25.72	178.48	352.80	66.67	18 15 42	3865.8	22.34	170.96

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE -.0842 TRA -.2804 TC3-1.2669 BAU  .1845   SGT  935.4 SGR  811.5 SG3 1260.7      ST   245.6 SR   448.1 SS  1641.3
 RDE -.2195 RRA -.0212 RC3-1.2016 FAU .21184   RRT  .7688 RRF  .9920 RTF  .7729     CRT  .7224 CRS -.9997 CST -.7101
 FDE-3.2027 FRA -.1120 FC-23.2084 BSP   3154   SGB 1238.3 R23  .3764 R13  .9179     LSA 1710.4 MSA  172.0 SSA     6.8
 BDE  .2351 BRA  .2812 BC3 1.7462 FSP  -3997   SG1 1166.3 SG2  416.2 THA  39.75     EL1  486.4 EL2  156.4 ALF  65.72
```

LAUNCH DATE JUN 12 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 28 1967

HELIOCENTRIC CONIC DISTANCE 380.342

```
RL  151.91 LAL   -.00 LOL 260.37 VL  26.951 GAL  -1.48 AZL  92.07 HCA 169.84 SMA 130.00 ECC .17051 INC 2.0717 V1  29.328
RP  107.85 LAP   -.37 LOP  70.21 VP  37.950 GAP  -.43 AZP  87.96 TAL 187.23 TAP 357.07 RCA 107.83 APO 152.16 V2  35.137
RC  88.880 GL  -20.84 GP  -17.50 ZAL 108.80 ZAP  88.55 ETS    .74 ZAE 165.05 ETE 245.67 ZAC 107.00 ETC  10.25 CLP -88.48
```

PLANETOCENTRIC CONIC

```
C3   7.504 VHL  2.739 DLA  -8.14 RAL 145.01 RAD 6567.2 VEL 11.353 PTH   1.96 VHP  2.939 DPA  -5.93 RAP 157.86 ECC 1.1235
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 44 25	1752.41	-6.34	14.03	352.29	117.66	5 13 38	1152.4	-2.58	7.36
90.00	14 39 41	4906.50	20.70	213.49	354.15	70.24	16 1 27	4306.5	17.82	206.00
100.00	6 1 50	1502.68	-7.08	355.26	351.88	119.12	6 26 52	902.7	-3.14	348.69
100.00	16 4 57	4631.46	21.49	192.95	353.83	68.71	17 22 9	4031.5	18.41	185.51
110.00	7 1 6	1317.09	-9.03	339.99	350.69	123.11	7 23 3	717.1	-4.61	333.69
110.00	17 22 10	4389.81	23.58	173.62	352.85	64.51	18 35 20	3789.8	19.96	166.36

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE -.1295 TRA -.2695 TC3-1.8879 BAU  .2555   SGT 1211.4 SGR 1060.0 SG3 1237.9      ST   321.8 SR   497.5 SS  1471.5
 RDE -.2375 RRA -.0070 RC3-1.7090 FAU .20738   RRT  .8656 RRF  .9971 RTF  .8665     CRT  .8508 CRS -.9998 CST -.8425
 FDE-2.7643 FRA  .0706 FC-23.9260 BSP   4445   SGB 1609.7 R23  .2886 R13  .9544     LSA 1577.1 MSA  170.5 SSA     5.9
 BDE  .2705 BRA  .2696 BC3 2.5466 FSP  -3928   SG1 1555.7 SG2  413.3 THA  40.60     EL1  574.1 EL2  146.5 ALF  58.93
```

LAUNCH DATE JUN 12 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 30 1967

HELIOCENTRIC CONIC DISTANCE 386.702

```
RL  151.91 LAL   -.00 LOL 260.37 VL  26.948 GAL  -1.42 AZL  91.45 HCA 173.07 SMA 129.98 ECC .17051 INC 1.4483 V1  29.328
RP  107.82 LAP   -.17 LOP  73.44 VP  37.958 GAP  -.00 AZP  88.56 TAL 186.93 TAP 359.99 RCA 107.82 APO 152.14 V2  35.149
RC  91.113 GL  -15.01 GP  -24.80 ZAL 108.91 ZAP  93.73 ETS 358.72 ZAE 156.56 ETE 243.54 ZAC 110.28 ETC   7.22 CLP -94.11
```

PLANETOCENTRIC CONIC

```
C3   6.934 VHL  2.633 DLA  -2.86 RAL 147.55 RAD 6567.2 VEL 11.328 PTH   1.95 VHP  3.079 DPA -11.86 RAP 152.99 ECC 1.1141
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 14 24	1904.66	-11.04	22.74	354.11	116.24	4 46 9	1304.7	-7.43	15.92
90.00	15 29 59	4726.13	16.15	202.22	354.73	66.42	16 48 45	4126.1	12.82	195.12
100.00	5 34 25	1646.57	-11.75	3.39	353.74	117.69	6 1 52	1046.6	-7.95	356.66
100.00	16 52 40	4459.46	16.87	182.27	354.39	64.95	18 6 59	3859.5	13.35	175.24
110.00	6 39 36	1442.51	-13.61	346.82	352.65	121.66	7 3 38	842.5	-9.32	340.34
110.00	18 3 58	4236.27	18.78	164.30	353.37	60.90	19 14 34	3636.3	14.76	157.49

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE -.1244 TRA -.2385 TC3-2.6600 BAU  .3573   SGT 1518.5 SGR 1574.5 SG3 1208.7      ST   315.1 SR   567.4 SS  1219.1
 RDE -.2600 RRA  .0035 RC3-2.7899 FAU .20108   RRT  .9233 RRF  .9993 RTF  .9241     CRT  .8645 CRS -.9999 CST -.8591
 FDE-2.0977 FRA  .1116 FC-25.1058 BSP   6703   SGB 2187.4 R23  .1846 R13  .9821     LSA 1372.0 MSA  157.6 SSA     5.3
 BDE  .2882 BRA  .2385 BC3 3.8548 FSP  -4099   SG1 2145.1 SG2  428.0 THA  46.12     EL1  633.3 EL2  141.9 ALF  62.88
```

```
LAUNCH DATE  JUN 12 1967                          FLIGHT TIME 142.00                          ARRIVAL DATE  NOV  1 1967

 HELIOCENTRIC CONIC                                DISTANCE 393.025
  RL  151.91 LAL   -.00 LOL 260.37 VL  26.942 GAL  -1.34 AZL  89.75 HCA 176.29 SMA 129.94 ECC .17067 INC  .1175 V1  29.328
  RP  107.78 LAP    .02 LOP  76.66 VP  37.965 GAP    .41 AZP  90.25 TAL 186.54 TAP   2.83 RCA 107.76 APO 152.12 V2  35.160
  RC  93.352 GL    2.63 GP  -41.06 ZAL 108.83 ZAP  97.30 ETS 354.29 ZAE 140.08 ETE 247.60 ZAC 113.12 ETC 359.70 CLP -99.71
 PLANETOCENTRIC CONIC
  C3   6.403 VHL  2.530 DLA  13.40 RAL 154.49 RAD 6567.2 VEL 11.305 PTH   1.94 VHP  3.671 DPA -26.12 RAP 144.43 ECC 1.1054
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     2 36 14   2409.11     -23.76     54.19       3.06      105.87    3 16 23     1809.1     -21.36      46.35
     90.00    18  3 34   4194.14       -.15    171.65        .45       61.68   19 13 28     3594.1      -3.93     165.02
    100.00     4  4 35   2124.18     -24.59     32.96       2.79      107.55    4 39 59     1524.2     -21.96      25.15
    100.00    19 17 54   3954.30        .61    153.60        .03       60.11   20 23 49     3354.3      -3.37     147.07
    110.00     5 28 35   1861.37     -26.77     12.14       1.92      112.10    5 59 36     1261.4     -23.53       4.47
    110.00    20 10 24   3789.88       2.56    139.90     358.80       55.90   21 13 34     3189.9      -1.93     133.70
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE  .1092 TRA -.0978 TC3-3.4436 BAU  .4772      SGT 1774.9 SGR 2263.3 SG3  806.0        ST   261.7 SR   150.5 SS   199.7
  RDE -.0077 RRA  .1917 RC3-4.3841 FAU .13354      RRT  .9363 RRF  .9999 RTF  .9367        CRT -.2525 CRS -.9795 CST  .0645
  FDE  .0242 FRA  .8079 FC-18.0543 BSP   8397      SGB 2876.2 R23  .1329 R13  .9910        LSA  273.5 MSA  236.9 SSA    8.2
  BDE  .1094 BRA  .2152 BC3 5.5749 FSP  -2476      SG1 2832.7 SG2  498.1 THA  52.35        EL1  265.6 EL2  143.5 ALF 168.27

LAUNCH DATE  JUN 12 1967                          FLIGHT TIME 144.00                          ARRIVAL DATE  NOV  3 1967

 HELIOCENTRIC CONIC                                DISTANCE 399.286
  RL  151.91 LAL   -.00 LOL 260.37 VL  26.934 GAL  -1.24 AZL  66.76 HCA 179.48 SMA 129.88 ECC .17097 INC23.2174 V1  29.328
  RP  107.75 LAP    .21 LOP  79.88 VP  37.968 GAP    .81 AZP 113.24 TAL 186.05 TAP   5.52 RCA 107.68 APO 152.09 V2  35.170
  RC  95.596 GL   66.39 GP  -85.23 ZAL  93.81 ZAP  92.41 ETS 254.39 ZAE  88.87 ETE 160.87 ZAC 106.19 ETC 247.78 CLP 120.41
 PLANETOCENTRIC CONIC
  C3 134.480 VHL 11.597 DLA  63.26 RAL 212.80 RAD 6570.4 VEL 15.994 PTH   2.82 VHP 17.076 DPA -64.08 RAP  87.30 ECC 3.2132
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     30.74    21 14 24   4837.44     -12.87    236.88     116.20       27.49   22 35  1     4237.4     -19.93     233.38
    149.26     7 10 34   3136.17     -12.86     95.50     116.18       27.49    8  2 50     2536.2     -19.92      92.00
     30.74    21 14 24   4837.44     -12.87    236.88     116.20       27.49   22 35  1     4237.4     -19.93     233.38
    149.26     7 10 34   3136.17     -12.86     95.50     116.18       27.49    8  2 50     2536.2     -19.92      92.00
     30.74    21 14 24   4837.44     -12.87    236.88     116.20       27.49   22 35  1     4237.4     -19.93     233.38
    149.26     7 10 34   3136.17     -12.86     95.50     116.18       27.49    8  2 50     2536.2     -19.92      92.00
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE 1.9802 TRA 3.5796 TC3  .1237 BAU  .3161      SGT 4060.4 SGR 2860.6 SG3  106.8        ST  1532.1 SR  1609.9 SS   726.0
  RDE-2.8959 RRA-2.2406 RC3 -.1250 FAU-.00654      RRT -.9601 RRF -.9696 RTF  .9993        CRT -.9203 CRS  .9458 CST -.9975
  FDE  .6889 FRA 1.0790 FC3  .0421 BSP   5604      SGB 4966.9 R23 -.0564 R13 -.9984        LSA 2293.7 MSA  453.4 SSA     .3
  BDE 3.5082 BRA 4.2230 BC3  .1758 FSP    100      SG1 4922.9 SG2  659.8 THA 145.21        EL1 2177.9 EL2  443.1 ALF 133.46

LAUNCH DATE  JUN 12 1967                          FLIGHT TIME 146.00                          ARRIVAL DATE  NOV  5 1967

 HELIOCENTRIC CONIC                                DISTANCE 405.653
  RL  151.91 LAL   -.00 LOL 260.37 VL  26.923 GAL  -1.16 AZL  98.25 HCA 182.77 SMA 129.81 ECC .17147 INC 8.2450 V1  29.328
  RP  107.72 LAP    .40 LOP  83.11 VP  37.970 GAP   1.23 AZP  81.76 TAL 185.62 TAP   8.39 RCA 107.55 APO 152.06 V2  35.180
  RC  97.843 GL  -54.20 GP   48.77 ZAL  98.84 ZAP 103.34 ETS  17.01 ZAE 124.67 ETE 119.32 ZAC  93.58 ETC  27.73 CLP-110.49
 PLANETOCENTRIC CONIC
  C3  22.673 VHL  4.762 DLA -40.26 RAL 134.07 RAD 6567.9 VEL 12.002 PTH   2.14 VHP  4.284 DPA  57.12 RAP 184.82 ECC 1.3731
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     60.10     5 36 59   1551.11      26.17     18.00       8.59      121.76    6  2 50      951.1      30.16      10.55
    119.90    12 19 54   5582.06      26.18    260.16       8.60      121.75   13 52 56     4982.1      30.17     252.71
     60.10     5 36 59   1551.11      26.17     18.00       8.59      121.76    6  2 50      951.1      30.16      10.55
    119.90    12 19 54   5582.06      26.18    260.16       8.60      121.75   13 52 56     4982.1      30.17     252.71
     60.10     5 36 59   1551.11      26.17     18.00       8.59      121.76    6  2 50      951.1      30.16      10.55
    119.90    12 19 54   5582.06      26.18    260.16       8.60      121.75   13 52 56     4982.1      30.17     252.71
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE-1.5099 TRA -.7127 TC3-1.2144 BAU  .5065      SGT 2429.2 SGR 2472.2 SG3  623.1        ST  1848.1 SR  2181.2 SS  2331.7
  RDE 1.8095 RRA  .2660 RC3 1.1480 FAU .08989      RRT -.9477 RRF -.9998 RTF  .9539        CRT -.9921 CRS 1.0000 CST -.9929
  FDE-5.2245 FRA -.8513 FC3-3.4321 BSP  10283      SGB 3465.9 R23  .1390 R13 -.9903        LSA 3684.0 MSA  195.9 SSA     .7
  BDE 2.3567 BRA  .7607 BC3 1.6711 FSP  -1907      SG1 3420.3 SG2  560.4 THA 134.47        EL1 2853.4 EL2  177.2 ALF 130.24

LAUNCH DATE  JUN 12 1967                          FLIGHT TIME 148.00                          ARRIVAL DATE  NOV  7 1967

 HELIOCENTRIC CONIC                                DISTANCE 411.928
  RL  151.91 LAL   -.00 LOL 260.37 VL  26.910 GAL  -1.05 AZL  95.62 HCA 186.00 SMA 129.72 ECC .17207 INC 5.6234 V1  29.328
  RP  107.69 LAP    .59 LOP  86.34 VP  37.970 GAP   1.62 AZP  84.41 TAL 185.05 TAP  11.05 RCA 107.39 APO 152.04 V2  35.190
  RC 100.092 GL  -44.96 GP   26.39 ZAL 100.47 ZAP 111.68 ETS  12.35 ZAE 141.98 ETE 134.91 ZAC 103.62 ETC  24.71 CLP-114.35
 PLANETOCENTRIC CONIC
  C3  13.923 VHL  3.731 DLA -32.11 RAL 139.46 RAD 6567.5 VEL 11.632 PTH   2.04 VHP  3.352 DPA  38.24 RAP 166.54 ECC 1.2291
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     74.20     7 16 55   1203.41      24.30    349.23       3.43      111.66    7 36 58      603.4      27.02     341.30
    105.80    11 22 57   5703.34      24.31    268.76       3.43      111.65   12 58  0     5103.3      27.03     260.83
     74.20     7 16 55   1203.41      24.30    349.23       3.43      111.66    7 36 58      603.4      27.02     341.30
    105.80    11 22 57   5703.34      24.31    268.76       3.43      111.65   12 58  0     5103.3      27.03     260.83
    110.00    10 19 44    611.29      17.23    302.23     359.77      119.99   10 29 55       11.3      21.09     295.22
    110.00    13 19 18   5343.46      31.79    243.76       6.10      103.28   14 48 22     4743.5      33.29     234.85
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE-1.2084 TRA -.5210 TC3-2.3347 BAU  .4801      SGT 2714.9 SGR 1382.5 SG3  965.4        ST  1877.7 SR  1110.9 SS  2538.1
  RDE  .7230 RRA  .0510 RC3 1.0970 FAU .14841      RRT -.9521 RRF -.9995 RTF  .9580        CRT -.9920 CRS 1.0000 CST -.9926
  FDE-5.7031 FRA -.4753 FC3-9.2280 BSP   8943      SGB 3046.6 R23  .2258 R13 -.9739        LSA 3341.5 MSA  190.8 SSA    1.3
  BDE 1.4082 BRA  .5235 BC3 2.5796 FSP  -2913      SG1 3022.9 SG2  379.6 THA 153.69        EL1 2178.4 EL2  121.0 ALF 149.49
```

LAUNCH DATE JUN 12 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 9 1967

HELIOCENTRIC CONIC DISTANCE 418.181

RL 151.91 LAL -.00 LOL 260.37 VL 26.894 GAL -.93 AZL 94.83 HCA 189.24 SMA 129.61 ECC .17282 INC 4.8321 V1 29.328
RP 107.66 LAP .78 LOP 89.57 VP 37.967 GAP 2.00 AZP 85.23 TAL 184.44 TAP 13.67 RCA 107.21 APO 152.01 V2 35.199
RC 102.344 GL -40.99 GP 17.33 ZAL 100.36 ZAP 117.11 ETS 10.15 ZAE 145.81 ETE 148.25 ZAC 107.93 ETC 22.77 CLP-118.52

PLANETOCENTRIC CONIC

C3 11.930 VHL 3.454 DLA -28.84 RAL 142.26 RAD 6567.5 VEL 11.546 PTH 2.02 VHP 3.258 DPA 30.31 RAP 161.11 ECC 1.1963

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.27	8 43 22	930.61	22.66	328.23	2.95	108.34	8 58 53	330.6	24.95	320.27
95.73	10 18 49	621.70	22.67	305.59	2.96	108.33	10 29 11	21.7	24.96	297.63
100.00	9 46 1	727.27	18.06	311.46	1.04	114.23	9 58 9	127.3	21.18	304.06
100.00	11 58 51	5588.31	27.42	261.21	4.40	102.39	13 31 59	4988.3	28.85	252.70
110.00	9 37 49	753.08	12.24	310.18	357.81	122.17	9 50 22	153.1	16.40	303.54
110.00	14 23 33	5135.26	33.96	227.93	5.50	94.17	15 49 8	4535.3	34.16	218.69

DIFFERENTIAL CORRECTIONS
TOE-1.1817 TRA -.4571 TC3-3.0542 BAU .5038
ROE .4211 RRA .0143 RC3 .8058 FAU .16163
FOE-5.3271 FRA -.2202 FC-11.7293 BSP 9372
BOE 1.2545 BRA .4573 BC3 3.1587 FSP -3224

MID-COURSE EXECUTION ACCURACY
SGT 3007.2 SGR 893.6 SG3 1036.5
RRT -.9553 RRF -.9976 RTF .9640
SGB 3137.2 R23 .2368 R13 -.9698
SG1 3126.9 SG2 254.0 THA 164.04

ORBIT DETERMINATION ACCURACY
ST 1978.4 SR 698.7 SS 2488.4
CRT -.9928 CRS 1.0000 CST -.9931
LSA 3249.6 MSA 184.9 SSA 2.4
EL1 2096.6 EL2 79.1 ALF 160.65

LAUNCH DATE JUN 12 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 11 1967

HELIOCENTRIC CONIC DISTANCE 424.418

RL 151.91 LAL -.00 LOL 260.37 VL 26.876 GAL -.79 AZL 94.45 HCA 192.47 SMA 129.49 ECC .17370 INC 4.4496 V1 29.328
RP 107.63 LAP .96 LOP 92.80 VP 37.963 GAP 2.39 AZP 85.66 TAL 183.77 TAP 16.25 RCA 107.00 APO 151.98 V2 35.208
RC 104.596 GL -38.78 GP 12.62 ZAL 99.65 ZAP 121.58 ETS 8.89 ZAE 145.83 ETE 157.22 ZAC 110.27 ETC 21.53 CLP-122.46

PLANETOCENTRIC CONIC

C3 11.081 VHL 3.329 DLA -27.27 RAL 144.37 RAD 6567.4 VEL 11.510 PTH 2.00 VHP 3.298 DPA 26.21 RAP 158.38 ECC 1.1824

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 31 57	981.30	17.38	329.83	1.91	112.71	8 48 18	381.3	20.31	322.38
90.00	10 47 7	5828.31	26.30	278.59	4.80	100.90	12 24 15	5228.3	27.54	270.14
100.00	9 16 3	838.81	14.82	318.16	.69	116.26	9 30 1	238.8	18.23	311.02
100.00	12 45 42	5446.03	29.08	250.96	5.30	97.24	14 16 28	4846.0	29.78	242.23
110.00	9 27 2	804.29	10.37	312.97	358.11	122.76	9 40 27	204.3	14.62	306.44
110.00	14 51 11	5053.32	34.18	221.54	5.70	90.39	16 15 25	4453.3	33.86	212.31

DIFFERENTIAL CORRECTIONS
TOE-1.2143 TRA -.4145 TC3-3.6081 BAU .5410
ROE .2893 RRA .0029 RC3 .5635 FAU .16005
FOE-4.9044 FRA -.0147 FC-12.5049 BSP 10121
BOE 1.2483 BRA .4145 BC3 3.6519 FSP -3231

MID-COURSE EXECUTION ACCURACY
SGT 3283.7 SGR 623.5 SG3 1024.4
RRT -.9507 RRF -.9912 RTF .9674
SGB 3342.4 R23 .2203 R13 -.9698
SG1 3337.0 SG2 190.2 THA 169.73

ORBIT DETERMINATION ACCURACY
ST 2105.2 SR 498.1 SS 2406.2
CRT -.9937 CRS 1.0000 CST -.9935
LSA 3230.6 MSA 181.6 SSA 3.5
EL1 2162.6 EL2 54.1 ALF 166.76

LAUNCH DATE JUN 12 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 13 1967

HELIOCENTRIC CONIC DISTANCE 430.637

RL 151.91 LAL -.00 LOL 260.37 VL 26.857 GAL -.65 AZL 94.22 HCA 195.71 SMA 129.36 ECC .17471 INC 4.2222 V1 29.328
RP 107.61 LAP 1.14 LOP 96.04 VP 37.956 GAP 2.76 AZP 85.93 TAL 183.06 TAP 18.77 RCA 106.76 APO 151.96 V2 35.216
RC 106.849 GL -37.34 GP 9.78 ZAL 98.65 ZAP 125.53 ETS 8.05 ZAE 144.64 ETE 163.11 ZAC 111.65 ETC 20.66 CLP-126.13

PLANETOCENTRIC CONIC

C3 10.625 VHL 3.260 DLA -26.46 RAL 146.26 RAD 6567.4 VEL 11.490 PTH 2.00 VHP 3.382 DPA 23.72 RAP 156.80 ECC 1.1749

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 17 13	1046.80	15.62	333.83	2.49	113.92	8 34 40	446.8	18.72	326.53
90.00	11 16 56	5745.63	27.23	272.72	6.06	98.09	12 52 41	5145.6	28.07	264.15
100.00	9 8 39	880.69	13.54	320.61	1.47	116.90	9 23 20	280.7	17.05	313.57
100.00	13 8 11	5386.97	29.51	246.63	6.35	95.00	14 37 58	4787.0	29.89	237.84
110.00	9 25 38	827.41	9.52	314.21	359.10	122.99	9 39 25	227.4	13.79	307.73
110.00	15 7 42	5013.02	34.16	218.40	6.52	88.53	16 31 15	4413.0	33.57	209.20

DIFFERENTIAL CORRECTIONS
TOE-1.2641 TRA -.3713 TC3-4.0526 BAU .5781
ROE .2195 RRA -.0004 RC3 .3777 FAU .15291
FOE-4.5183 FRA .1639 FC-12.4595 BSP 10852
BOE 1.2830 BRA .3713 BC3 4.0701 FSP -3120

MID-COURSE EXECUTION ACCURACY
SGT 3528.3 SGR 457.7 SG3 981.9
RRT -.9334 RRF -.9737 RTF .9694
SGB 3557.8 R23 .1864 R13 -.9705
SG1 3554.1 SG2 163.1 THA 173.08

ORBIT DETERMINATION ACCURACY
ST 2234.2 SR 385.8 SS 2322.2
CRT -.9950 CRS .9999 CST -.9939
LSA 3240.6 MSA 178.3 SSA 4.6
EL1 2266.9 EL2 38.0 ALF 170.25

LAUNCH DATE JUN 12 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 15 1967

HELIOCENTRIC CONIC DISTANCE 436.837

RL 151.91 LAL -.00 LOL 260.37 VL 26.836 GAL -.49 AZL 94.07 HCA 198.95 SMA 129.22 ECC .17586 INC 4.0709 V1 29.328
RP 107.59 LAP 1.32 LOP 99.27 VP 37.948 GAP 3.13 AZP 86.15 TAL 182.30 TAP 21.25 RCA 106.49 APO 151.94 V2 35.223
RC 109.101 GL -36.30 GP 7.89 ZAL 97.43 ZAP 129.10 ETS 7.45 ZAE 143.09 ETE 167.08 ZAC 112.43 ETC 19.99 CLP-129.54

PLANETOCENTRIC CONIC

C3 10.355 VHL 3.218 DLA -26.07 RAL 148.10 RAD 6567.4 VEL 11.478 PTH 2.00 VHP 3.489 DPA 22.01 RAP 155.90 ECC 1.1704

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 15 33	1071.84	14.92	335.34	3.68	114.35	8 33 25	471.8	18.09	328.09
90.00	11 33 14	5710.20	27.54	270.17	7.45	96.86	13 8 24	5110.2	28.20	261.57
100.00	9 9 23	898.00	13.01	321.62	2.73	117.15	9 24 21	298.0	16.55	314.61
100.00	13 22 5	5359.27	29.66	244.58	7.68	93.93	14 51 25	4759.3	29.89	235.78
110.00	9 28 47	837.12	9.16	314.73	.45	123.08	9 42 44	237.1	13.45	308.26
110.00	15 19 11	4992.92	34.11	216.83	7.75	87.60	16 42 24	4392.9	33.40	207.66

DIFFERENTIAL CORRECTIONS
TOE-1.3207 TRA -.3226 TC3-4.4232 BAU .6132
ROE .1785 RRA -.0002 RC3 .2345 FAU .14366
FOE-4.1704 FRA .3296 FC-12.0102 BSP 11511
BOE 1.3327 BRA .3226 BC3 4.4295 FSP -2949

MID-COURSE EXECUTION ACCURACY
SGT 3747.3 SGR 351.8 SG3 927.8
RRT -.8925 RRF -.9335 RTF .9704
SGB 3763.8 R23 .1461 R13 -.9709
SG1 3760.5 SG2 158.1 THA 175.20

ORBIT DETERMINATION ACCURACY
ST 2360.8 SR 317.8 SS 2240.4
CRT -.9964 CRS .9995 CST -.9942
LSA 3265.4 MSA 175.4 SSA 5.7
EL1 2381.9 EL2 26.6 ALF 172.36

LAUNCH DATE JUN 12 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 17 1967

HELIOCENTRIC CONIC DISTANCE 443.018

RL 151.91 LAL -.00 LOL 260.37 VL 26.813 GAL -.32 AZL 93.96 HCA 202.19 SMA 129.06 ECC .17713 INC 3.9626 V1 29.328
RP 107.57 LAP 1.50 LOP 102.51 VP 37.938 GAP 3.50 AZP 86.33 TAL 181.49 TAP 23.69 RCA 106.20 APO 151.92 V2 35.230
RC 111.351 GL -35.47 GP 6.54 ZAL 96.06 ZAP 132.36 ETS 6.98 ZAE 141.48 ETE 169.88 ZAC 112.79 ETC 19.43 CLP-132.70

PLANETOCENTRIC CONIC

C3 10.195 VHL 3.193 DLA -25.93 RAL 149.95 RAD 6567.4 VEL 11.471 PTH 1.99 VHP 3.610 DPA 20.72 RAP 155.47 ECC 1.1678

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 19 55	1078.87	14.72	335.76	5.23	114.46	8 37 54	478.9	17.90	328.53
90.00	11 43 38	5696.87	27.65	269.21	9.04	96.38	13 18 35	5096.9	28.24	260.59
100.00	9 14 30	902.64	12.86	321.89	4.30	117.22	9 29 33	302.6	16.41	314.89
100.00	13 31 44	5348.34	29.70	243.77	9.24	93.51	15 0 53	4748.3	29.87	234.97
110.00	9 34 43	839.22	9.08	314.85	2.06	123.10	9 48 42	239.2	13.37	308.38
110.00	15 28 1	4984.52	34.08	216.17	9.28	87.22	16 51 6	4384.5	33.32	207.02

DIFFERENTIAL CORRECTIONS
TDE-1.3855 TRA -.2726 TC3-4.7547 BAU .6482
RDE .1539 RRA .0026 RC3 .1241 FAU .13451
FDE-3.8784 FRA .4613 FC-11.4225 BSP 12240
BDE 1.3940 BRA .2726 BC3 4.7563 FSP -2800

MID-COURSE EXECUTION ACCURACY
SGT 3961.8 SGR 287.3 SG3 874.7
RRT -.8169 RRF -.8577 RTF .9711
SGB 3972.3 R23 .1093 R13 -.9714
SG1 3968.8 SG2 165.5 THA 176.60

ORBIT DETERMINATION ACCURACY
ST 2493.3 SR 276.2 SS 2173.4
CRT -.9978 CRS .9987 CST -.9945
LSA 3314.6 MSA 172.4 SSA 6.9
EL1 2508.5 EL2 18.1 ALF 173.69

LAUNCH DATE JUN 12 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 19 1967

HELIOCENTRIC CONIC DISTANCE 449.180

RL 151.91 LAL -.00 LOL 260.37 VL 26.789 GAL -.14 AZL 93.88 HCA 205.44 SMA 128.90 ECC .17854 INC 3.8805 V1 29.328
RP 107.55 LAP 1.67 LOP 105.75 VP 37.927 GAP 3.87 AZP 86.49 TAL 180.65 TAP 26.08 RCA 105.89 APO 151.92 V2 35.236
RC 113.598 GL -34.77 GP 5.54 ZAL 94.55 ZAP 135.36 ETS 6.60 ZAE 139.92 ETE 171.91 ZAC 112.81 ETC 18.94 CLP-135.64

PLANETOCENTRIC CONIC

C3 10.107 VHL 3.179 DLA -25.95 RAL 151.85 RAD 6567.4 VEL 11.467 PTH 1.99 VHP 3.740 DPA 19.68 RAP 155.40 ECC 1.1663

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 28 2	1075.38	14.82	335.55	7.03	114.41	8 45 57	475.4	17.99	328.31
90.00	11 50 41	5696.92	27.65	269.22	10.81	96.39	13 25 38	5096.9	28.24	260.60
100.00	9 22 29	899.55	12.96	321.71	6.11	117.17	9 37 28	299.6	16.50	314.71
100.00	13 38 55	5347.98	29.71	243.74	11.02	93.49	15 8 3	4748.0	29.87	234.94
110.00	9 42 33	836.58	9.18	314.70	3.87	123.07	9 56 29	236.6	13.47	308.23
110.00	15 35 20	4983.72	34.08	216.11	11.05	87.18	16 58 24	4383.7	33.31	206.95

DIFFERENTIAL CORRECTIONS
TDE-1.4543 TRA -.2257 TC3-5.0515 BAU .6826
RDE .1390 RRA .0076 RC3 .0375 FAU .12603
FDE-3.6278 FRA .5364 FC-10.7948 BSP 12962
BDE 1.4609 BRA .2258 BC3 5.0516 FSP -2661

MID-COURSE EXECUTION ACCURACY
SGT 4170.1 SGR 252.2 SG3 824.3
RRT -.7039 RRF -.7423 RTF .9726
SGB 4177.8 R23 .0793 R13 -.9728
SG1 4173.9 SG2 178.9 THA 177.56

ORBIT DETERMINATION ACCURACY
ST 2626.2 SR 250.6 SS 2116.4
CRT -.9989 CRS .9973 CST -.9949
LSA 3378.0 MSA 166.5 SSA 8.0
EL1 2638.1 EL2 11.9 ALF 174.55

LAUNCH DATE JUN 12 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 21 1967

HELIOCENTRIC CONIC DISTANCE 455.324

RL 151.91 LAL -.00 LOL 260.37 VL 26.764 GAL .05 AZL 93.82 HCA 208.68 SMA 128.73 ECC .18008 INC 3.8160 V1 29.328
RP 107.53 LAP 1.83 LOP 108.99 VP 37.914 GAP 4.23 AZP 86.65 TAL 179.76 TAP 28.44 RCA 105.55 APO 151.91 V2 35.241
RC 115.842 GL -34.13 GP 4.78 ZAL 92.92 ZAP 138.14 ETS 6.28 ZAE 138.46 ETE 173.43 ZAC 112.55 ETC 18.49 CLP-138.36

PLANETOCENTRIC CONIC

C3 10.076 VHL 3.174 DLA -26.09 RAL 153.82 RAD 6567.4 VEL 11.466 PTH 1.99 VHP 3.879 DPA 18.78 RAP 155.63 ECC 1.1658

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 38 52	1064.70	15.12	334.91	9.07	114.23	8 56 37	464.7	18.27	327.65
90.00	11 55 34	5706.38	27.57	269.90	12.76	96.72	13 30 40	5106.4	28.22	261.29
100.00	9 32 35	891.27	13.22	321.23	8.12	117.06	9 47 26	291.3	16.74	314.21
100.00	13 44 33	5355.05	29.68	244.27	12.98	93.77	15 13 48	4755.0	29.88	235.47
110.00	9 51 51	830.80	9.39	314.39	5.87	123.02	10 5 42	230.8	13.67	307.91
110.00	15 41 46	4988.28	34.10	216.47	13.03	87.39	17 4 54	4388.3	33.36	207.30

DIFFERENTIAL CORRECTIONS
TDE-1.5105 TRA -.1433 TC3-5.2459 BAU .7067
RDE .1292 RRA .0108 RC3 -.0376 FAU .11491
FDE-3.3466 FRA .7146 FC3-9.8728 BSP 13292
BDE 1.5160 BRA .1437 BC3 5.2461 FSP -2409

MID-COURSE EXECUTION ACCURACY
SGT 4313.7 SGR 235.3 SG3 762.3
RRT -.5539 RRF -.5911 RTF .9704
SGB 4320.1 R23 .0632 R13 -.9705
SG1 4315.7 SG2 195.9 THA 178.27

ORBIT DETERMINATION ACCURACY
ST 2729.6 SR 233.2 SS 2030.3
CRT -.9992 CRS .9945 CST -.9947
LSA 3405.7 MSA 167.8 SSA 9.2
EL1 2739.5 EL2 9.3 ALF 175.12

LAUNCH DATE JUN 12 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 23 1967

HELIOCENTRIC CONIC DISTANCE 461.449

RL 151.91 LAL -.00 LOL 260.37 VL 26.737 GAL .26 AZL 93.76 HCA 211.93 SMA 128.55 ECC .18175 INC 3.7636 V1 29.328
RP 107.52 LAP 1.99 LOP 112.24 VP 37.900 GAP 4.60 AZP 86.80 TAL 178.83 TAP 30.76 RCA 105.19 APO 151.92 V2 35.246
RC 118.080 GL -33.53 GP 4.17 ZAL 91.18 ZAP 140.71 ETS 6.00 ZAE 137.12 ETE 174.60 ZAC 112.06 ETC 18.07 CLP-140.90

PLANETOCENTRIC CONIC

C3 10.094 VHL 3.177 DLA -26.31 RAL 155.87 RAD 6567.4 VEL 11.467 PTH 1.99 VHP 4.023 DPA 17.97 RAP 156.10 ECC 1.1661

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 51 57	1048.60	15.57	333.94	11.31	113.95	9 9 25	448.6	18.68	326.64
90.00	11 58 52	5723.19	27.43	271.11	14.87	97.31	13 34 15	5123.2	28.16	262.52
100.00	9 44 22	879.28	13.59	320.53	10.33	116.88	9 59 2	279.3	17.09	313.49
100.00	13 49 7	5367.74	29.62	245.21	15.12	94.26	15 18 35	4767.7	29.89	236.41
110.00	10 2 19	822.94	9.68	313.97	8.04	122.94	10 16 2	222.9	13.95	307.48
110.00	15 47 39	4996.85	34.12	217.14	15.21	87.78	17 10 56	4396.8	33.44	207.96

DIFFERENTIAL CORRECTIONS
TDE-1.5845 TRA -.0782 TC3-5.4685 BAU .7381
RDE .1252 RRA .0167 RC3 -.0924 FAU .10760
FDE-3.1609 FRA .7818 FC3-9.2285 BSP 13953
BDE 1.5894 BRA .0799 BC3 5.4693 FSP -2297

MID-COURSE EXECUTION ACCURACY
SGT 4501.6 SGR 235.7 SG3 719.5
RRT -.4207 RRF -.4534 RTF .9714
SGB 4507.8 R23 .0483 R13 -.9715
SG1 4502.7 SG2 213.7 THA 178.74

ORBIT DETERMINATION ACCURACY
ST 2859.8 SR 226.0 SS 1989.2
CRT -.9986 CRS .9912 CST -.9951
LSA 3487.1 MSA 162.4 SSA 10.3
EL1 2868.7 EL2 11.8 ALF 175.49

LAUNCH DATE JUN 12 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 25 1967

HELIOCENTRIC CONIC DISTANCE 467.554
RL 151.91 LAL -.00 LOL 260.37 VL 26.710 GAL .48 AZL 93.72 HCA 215.17 SMA 128.37 ECC .18357 INC 3.7199 V1 29.328
RP 107.50 LAP 2.14 LOP 115.48 VP 37.884 GAP 4.96 AZP 86.96 TAL 177.87 TAP 33.05 RCA 104.81 APO 151.94 V2 35.250
RC 120.312 GL -32.94 GP 3.69 ZAL 89.35 ZAP 143.11 ETS 5.76 ZAE 135.91 ETE 175.53 ZAC 111.36 ETC 17.67 CLP-143.26
PLANETOCENTRIC CONIC
C3 10.157 VHL 3.187 DLA -26.58 RAL 158.01 RAD 6567.4 VEL 11.469 PTH 1.99 VHP 4.174 DPA 17.20 RAP 156.79 ECC 1.1672

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 6 59	1028.00	16.13	332.69	13.74	113.59	9 24 7	428.0	19.19	325.35
90.00	12 0 53	5746.25	27.22	272.76	17.12	98.12	13 36 39	5146.3	28.06	264.20
100.00	9 57 35	864.58	14.04	319.67	12.72	116.66	10 11 59	264.6	17.51	312.59
100.00	13 52 58	5384.91	29.52	246.47	17.42	94.92	15 22 43	4784.9	29.89	237.69
110.00	10 13 46	813.76	10.02	313.48	10.37	122.85	10 27 20	213.8	14.28	306.97
110.00	15 53 16	5008.49	34.15	218.04	17.58	88.32	17 16 44	4408.5	33.54	208.85

DIFFERENTIAL CORRECTIONS
TDE-1.6486 TRA .0045 TC3-5.6169 BAU .7629
RDE .1237 RRA .0222 RC3 -.1386 FAU .09925
FDE-2.9551 FRA .8741 FC3-8.4603 BSP 14405
BDE 1.6533 BRA .0227 BC3 5.6186 FSP -2138

MID-COURSE EXECUTION ACCURACY
SGT 4647.9 SGR 243.4 SG3 671.4
RRT -.3027 RRF -.3311 RTF .9709
SGB 4654.2 R23 .0384 R13 -.9709
SG1 4648.4 SG2 231.9 THA 179.09

ORBIT DETERMINATION ACCURACY
ST 2965.9 SR 222.8 SS 1926.1
CRT -.9970 CRS .9865 CST -.9952
LSA 3539.9 MSA 159.6 SSA 11.4
EL1 2974.2 EL2 17.3 ALF 175.72

LAUNCH DATE JUN 12 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 27 1967

HELIOCENTRIC CONIC DISTANCE 473.639
RL 151.91 LAL -.00 LOL 260.37 VL 26.681 GAL .71 AZL 93.68 HCA 218.42 SMA 128.18 ECC .18553 INC 3.6826 V1 29.328
RP 107.49 LAP 2.29 LOP 118.73 VP 37.867 GAP 5.32 AZP 87.11 TAL 176.88 TAP 35.30 RCA 104.40 APO 151.96 V2 35.253
RC 122.538 GL -32.34 GP 3.29 ZAL 87.42 ZAP 145.34 ETS 5.55 ZAE 134.80 ETE 176.26 ZAC 110.48 ETC 17.29 CLP-145.48
PLANETOCENTRIC CONIC
C3 10.263 VHL 3.204 DLA -26.89 RAL 160.23 RAD 6567.4 VEL 11.474 PTH 1.99 VHP 4.330 DPA 16.46 RAP 157.65 ECC 1.1689

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 23 51	1003.35	16.80	331.19	16.36	113.13	9 40 34	403.4	19.79	323.79
90.00	12 1 43	5775.08	26.93	274.82	19.51	99.11	13 37 58	5175.1	27.91	266.29
100.00	10 11 58	847.92	14.54	318.69	15.28	116.41	10 26 6	247.9	17.98	311.58
100.00	13 56 17	5405.75	29.39	248.01	19.88	95.72	15 26 23	4805.7	29.87	239.24
110.00	10 25 59	803.91	10.38	312.95	12.87	122.75	10 39 23	203.9	14.63	306.41
110.00	15 58 46	5022.52	34.17	219.14	20.11	88.97	17 22 28	4422.5	33.65	209.93

DIFFERENTIAL CORRECTIONS
TDE-1.7184 TRA .0910 TC3-5.7422 BAU .7882
RDE .1249 RRA .0282 RC3 -.1743 FAU .09203
FDE-2.7851 FRA .9448 FC3-7.7631 BSP 14935
BDE 1.7230 BRA .0952 BC3 5.7449 FSP -2019

MID-COURSE EXECUTION ACCURACY
SGT 4797.4 SGR 256.1 SG3 629.8
RRT -.2162 RRF -.2413 RTF .9709
SGB 4804.2 R23 .0315 R13 -.9709
SG1 4797.7 SG2 250.1 THA 179.34

ORBIT DETERMINATION ACCURACY
ST 3075.9 SR 224.1 SS 1876.3
CRT -.9943 CRS .9811 CST -.9954
LSA 3606.5 MSA 155.8 SSA 12.4
EL1 3083.9 EL2 23.8 ALF 175.86

LAUNCH DATE JUN 12 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 29 1967

HELIOCENTRIC CONIC DISTANCE 479.704
RL 151.91 LAL -.00 LOL 260.37 VL 26.652 GAL .96 AZL 93.65 HCA 221.67 SMA 127.99 ECC .18764 INC 3.6504 V1 29.328
RP 107.49 LAP 2.43 LOP 121.97 VP 37.849 GAP 5.68 AZP 87.27 TAL 175.86 TAP 37.52 RCA 103.97 APO 152.00 V2 35.256
RC 124.755 GL -31.72 GP 2.96 ZAL 85.42 ZAP 147.43 ETS 5.35 ZAE 133.80 ETE 176.86 ZAC 109.45 ETC 16.92 CLP-147.55
PLANETOCENTRIC CONIC
C3 10.414 VHL 3.227 DLA -27.21 RAL 162.53 RAD 6567.4 VEL 11.481 PTH 2.00 VHP 4.490 DPA 15.73 RAP 158.66 ECC 1.1714

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 42 39	974.43	17.56	329.41	19.18	112.57	9 58 53	374.4	20.47	321.94
90.00	12 1 18	5809.90	26.53	277.29	22.03	100.29	13 38 8	5209.9	27.68	268.82
100.00	10 27 25	829.81	15.09	317.63	18.01	116.11	10 41 14	229.8	18.48	310.47
100.00	13 59 14	5429.75	29.21	249.77	22.48	96.63	15 29 44	4829.7	29.83	241.02
110.00	10 38 52	793.85	10.75	312.40	15.51	122.64	10 52 6	193.8	14.98	305.85
110.00	16 4 16	5038.48	34.18	220.39	22.80	89.71	17 28 15	4438.5	33.76	211.17

DIFFERENTIAL CORRECTIONS
TDE-1.7874 TRA .1859 TC3-5.8297 BAU .8122
RDE .1282 RRA .0343 RC3 -.2017 FAU .08530
FDE-2.6270 FRA 1.0090 FC3-7.0909 BSP 15401
BDE 1.7919 BRA .1890 BC3 5.8332 FSP -1898

MID-COURSE EXECUTION ACCURACY
SGT 4936.1 SGR 271.0 SG3 590.8
RRT -.1548 RRF -.1770 RTF .9708
SGB 4943.5 R23 .0266 R13 -.9709
SG1 4936.3 SG2 267.7 THA 179.51

ORBIT DETERMINATION ACCURACY
ST 3177.3 SR 228.6 SS 1825.4
CRT -.9908 CRS .9751 CST -.9956
LSA 3668.3 MSA 152.2 SSA 13.5
EL1 3185.4 EL2 30.8 ALF 175.92

LAUNCH DATE JUN 12 1967 FLIGHT TIME 172.00 ARRIVAL DATE DEC 1 1967

HELIOCENTRIC CONIC DISTANCE 485.748
RL 151.91 LAL -.00 LOL 260.37 VL 26.622 GAL 1.22 AZL 93.62 HCA 224.91 SMA 127.79 ECC .18991 INC 3.6220 V1 29.328
RP 107.48 LAP 2.56 LOP 125.22 VP 37.829 GAP 6.04 AZP 87.43 TAL 174.80 TAP 39.72 RCA 103.52 APO 152.06 V2 35.258
RC 126.964 GL -31.07 GP 2.69 ZAL 83.34 ZAP 149.40 ETS 5.18 ZAE 132.90 ETE 177.35 ZAC 108.28 ETC 16.57 CLP-149.50
PLANETOCENTRIC CONIC
C3 10.613 VHL 3.258 DLA -27.55 RAL 164.92 RAD 6567.4 VEL 11.489 PTH 2.00 VHP 4.656 DPA 15.01 RAP 159.81 ECC 1.1747

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 3 42	940.21	18.45	327.28	22.19	111.87	10 19 22	340.2	21.25	319.74
90.00	11 59 17	5851.76	25.99	280.24	24.64	101.67	13 36 49	5251.8	27.33	271.83
100.00	10 43 46	810.71	15.66	316.49	20.90	115.79	10 57 17	210.7	19.00	309.29
100.00	14 1 54	5456.50	28.99	251.73	25.21	97.63	15 32 50	4856.5	29.74	243.00
110.00	10 52 15	784.04	11.11	311.87	18.29	122.54	11 5 19	184.0	15.33	305.30
110.00	16 9 54	5055.93	34.18	221.75	25.65	90.51	17 34 10	4455.9	33.87	212.52

DIFFERENTIAL CORRECTIONS
TDE-1.8549 TRA .2926 TC3-5.8677 BAU .8331
RDE .1332 RRA .0402 RC3 -.2222 FAU .07876
FDE-2.4794 FRA 1.0733 FC3-6.4252 BSP 15806
BDE 1.8596 BRA .2953 BC3 5.8719 FSP -1783

MID-COURSE EXECUTION ACCURACY
SGT 5059.2 SGR 286.6 SG3 553.7
RRT -.1134 RRF -.1337 RTF .9705
SGB 5067.3 R23 .0235 R13 -.9705
SG1 5059.3 SG2 284.8 THA 179.63

ORBIT DETERMINATION ACCURACY
ST 3268.9 SR 235.5 SS 1773.7
CRT -.9866 CRS .9685 CST -.9957
LSA 3723.6 MSA 149.4 SSA 14.4
EL1 3277.2 EL2 38.4 ALF 175.93

LAUNCH DATE JUN 12 1967 FLIGHT TIME 174.00 ARRIVAL DATE DEC 3 1967

DISTANCE 491.771

HELIOCENTRIC CONIC
RL 151.91 LAL -.00 LOL 260.37 VL 26.591 GAL 1.49 AZL 93.60 HCA 228.16 SMA 127.59 ECC .19235 INC 3.5966 V1 29.328
RP 107.48 LAP 2.68 LOP 128.47 VP 37.808 GAP 6.41 AZP 87.60 TAL 173.72 TAP 41.89 RCA 103.05 APO 152.13 V2 35.259
RC 129.165 GL -30.40 GP 2.45 ZAL 81.20 ZAP 151.25 ETS 5.02 ZAE 132.09 ETE 177.76 ZAC 106.99 ETC 16.23 CLP-151.34

PLANETOCENTRIC CONIC
C3 10.862 VHL 3.296 DLA -27.89 RAL 167.37 RAD 6567.4 VEL 11.500 PTH 2.00 VHP 4.827 DPA 14.27 RAP 161.07 ECC 1.1788

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 27 56	897.60	19.50	324.61	25.41	110.94	10 42 54	297.6	22.18	316.95
90.00	11 54 38	615.78	25.22	305.95	27.31	103.32	12 4 54	15.8	26.80	297.64
100.00	11 0 53	791.05	16.24	315.32	23.94	115.45	11 14 5	191.0	19.53	308.07
100.00	14 4 22	5485.61	28.71	253.85	28.07	98.72	15 35 48	4885.6	29.61	245.16
110.00	11 6 1	774.92	11.45	311.37	21.21	122.43	11 18 56	174.9	15.65	304.78
110.00	16 15 43	5074.50	34.16	223.20	28.64	91.37	17 40 18	4474.5	33.97	213.96

DIFFERENTIAL CORRECTIONS
TDE-1.9239 TRA .4065 TC3-5.8772 BAU .8541
RDE .1397 RRA .0460 RC3 -.2359 FAU .07293
FDE-2.3467 FRA 1.1288 FC3-5.8125 BSP 16208
BDE 1.9290 BRA .4091 BC3 5.8820 FSP -1678

MID-COURSE EXECUTION ACCURACY
SGT 5180.2 SGR 302.2 SG3 520.2
RRT -.0878 RRF -.1066 RTF .9703
SGB 5189.0 R23 .0212 R13 -.9703
SG1 5180.2 SG2 301.1 THA 179.71

ORBIT DETERMINATION ACCURACY
ST 3355.3 SR 244.4 SS 1724.4
CRT -.9819 CRS .9618 CST -.9959
LSA 3777.6 MSA 146.8 SSA 15.3
EL1 3363.9 EL2 46.2 ALF 175.91

LAUNCH DATE JUN 12 1967 FLIGHT TIME 176.00 ARRIVAL DATE DEC 5 1967

DISTANCE 497.771

HELIOCENTRIC CONIC
RL 151.91 LAL -.00 LOL 260.37 VL 26.559 GAL 1.78 AZL 93.57 HCA 231.41 SMA 127.38 ECC .19496 INC 3.5737 V1 29.328
RP 107.48 LAP 2.79 LOP 131.72 VP 37.786 GAP 6.78 AZP 87.77 TAL 172.62 TAP 44.03 RCA 102.55 APO 152.22 V2 35.259
RC 131.355 GL -29.68 GP 2.25 ZAL 79.00 ZAP 153.00 ETS 4.88 ZAE 131.36 ETE 178.10 ZAC 105.60 ETC 15.90 CLP-153.08

PLANETOCENTRIC CONIC
C3 11.166 VHL 3.342 DLA -28.21 RAL 169.90 RAD 6567.4 VEL 11.513 PTH 2.01 VHP 5.002 DPA 13.53 RAP 162.44 ECC 1.1838

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 59 48	832.26	21.04	320.43	28.94	109.40	11 13 40	232.3	23.49	312.62
90.00	11 42 54	692.47	23.91	311.19	29.92	105.64	11 54 26	92.5	25.83	303.04
100.00	11 18 39	771.22	16.81	314.13	27.12	115.08	11 31 31	171.2	20.06	306.84
100.00	14 6 43	5516.78	28.36	256.10	31.05	99.85	15 38 40	4916.8	29.43	247.46
110.00	11 20 2	766.92	11.74	310.94	24.25	122.34	11 32 48	166.9	15.92	304.33
110.00	16 21 50	5093.85	34.12	224.71	31.76	92.26	17 46 44	4493.9	34.05	215.46

DIFFERENTIAL CORRECTIONS
TDE-1.9932 TRA .5294 TC3-5.8520 BAU .8743
RDE .1476 RRA .0517 RC3 -.2438 FAU .06757
FDE-2.2248 FRA 1.1791 FC3-5.2391 BSP 16616
BDE 1.9987 BRA .5320 BC3 5.8570 FSP -1586

MID-COURSE EXECUTION ACCURACY
SGT 5295.0 SGR 317.4 SG3 489.3
RRT -.0739 RRF -.0915 RTF .9702
SGB 5304.5 R23 .0196 R13 -.9702
SG1 5295.0 SG2 316.5 THA 179.75

ORBIT DETERMINATION ACCURACY
ST 3433.6 SR 254.9 SS 1675.9
CRT -.9769 CRS .9551 CST -.9961
LSA 3826.4 MSA 144.6 SSA 16.1
EL1 3442.6 EL2 54.4 ALF 175.85

LAUNCH DATE JUN 12 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 7 1967

DISTANCE 503.747

HELIOCENTRIC CONIC
RL 151.91 LAL -.00 LOL 260.37 VL 26.527 GAL 2.08 AZL 93.55 HCA 234.66 SMA 127.18 ECC .19776 INC 3.5528 V1 29.328
RP 107.48 LAP 2.90 LOP 134.97 VP 37.763 GAP 7.15 AZP 87.94 TAL 171.49 TAP 46.15 RCA 102.03 APO 152.33 V2 35.259
RC 133.537 GL -28.93 GP 2.08 ZAL 76.77 ZAP 154.65 ETS 4.76 ZAE 130.71 ETE 178.38 ZAC 104.10 ETC 15.59 CLP-154.73

PLANETOCENTRIC CONIC
C3 11.531 VHL 3.396 DLA -28.52 RAL 172.47 RAD 6567.4 VEL 11.529 PTH 2.01 VHP 5.183 DPA 12.77 RAP 163.89 ECC 1.1898

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
86.49	11 2 8	864.58	22.56	323.35	32.58	107.92	11 16 32	264.6	24.80	315.38
93.51	12 1 7	673.46	22.57	309.36	32.58	107.90	12 12 21	73.5	24.81	301.39
100.00	11 36 55	751.65	17.38	312.95	30.43	114.71	11 49 26	151.6	20.56	305.60
100.00	14 9 1	5549.67	27.96	258.46	34.12	101.03	15 41 31	4949.7	29.20	249.88
110.00	11 34 7	760.42	11.98	310.58	27.40	122.26	11 46 48	160.4	16.15	303.96
110.00	16 28 18	5113.67	34.05	226.25	35.01	93.18	17 53 31	4513.7	34.12	217.01

DIFFERENTIAL CORRECTIONS
TDE-2.0615 TRA .6617 TC3-5.7883 BAU .8931
RDE .1568 RRA .0570 RC3 -.2467 FAU .06253
FDE-2.1109 FRA 1.2250 FC3-4.6949 BSP 16987
BDE 2.0675 BRA .6641 BC3 5.7936 FSP -1498

MID-COURSE EXECUTION ACCURACY
SGT 5400.6 SGR 331.8 SG3 460.3
RRT -.0686 RRF -.0855 RTF .9701
SGB 5410.8 R23 .0187 R13 -.9701
SG1 5400.7 SG2 331.0 THA 179.76

ORBIT DETERMINATION ACCURACY
ST 3501.2 SR 266.7 SS 1626.5
CRT -.9717 CRS .9486 CST -.9962
LSA 3867.1 MSA 143.2 SSA 16.8
EL1 3510.8 EL2 62.8 ALF 175.77

LAUNCH DATE JUN 12 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 9 1967

DISTANCE 509.700

HELIOCENTRIC CONIC
RL 151.91 LAL -.00 LOL 260.37 VL 26.495 GAL 2.40 AZL 93.53 HCA 237.91 SMA 126.97 ECC .20075 INC 3.5335 V1 29.328
RP 107.48 LAP 2.99 LOP 138.22 VP 37.739 GAP 7.53 AZP 88.12 TAL 170.35 TAP 48.25 RCA 101.48 APO 152.45 V2 35.257
RC 135.709 GL -28.15 GP 1.93 ZAL 74.50 ZAP 156.23 ETS 4.65 ZAE 130.11 ETE 178.62 ZAC 102.52 ETC 15.29 CLP-156.30

PLANETOCENTRIC CONIC
C3 11.962 VHL 3.459 DLA -28.80 RAL 175.09 RAD 6567.5 VEL 11.548 PTH 2.02 VHP 5.369 DPA 11.99 RAP 165.42 ECC 1.1969

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.54	10 56 36	923.94	22.61	327.72	35.82	108.32	11 12 0	323.9	24.90	319.76
95.46	12 27 34	629.48	22.62	306.15	35.82	108.31	12 38 3	29.5	24.91	298.19
100.00	11 55 29	732.77	17.91	311.80	33.86	114.34	12 7 42	132.8	21.04	304.41
100.00	14 11 21	5583.91	27.49	260.90	37.29	102.23	15 44 25	4983.9	28.90	252.38
110.00	11 48 10	755.81	12.14	310.33	30.65	122.20	12 0 46	155.8	16.31	303.70
110.00	16 35 10	5133.64	33.97	227.81	38.37	94.09	18 0 44	4533.6	34.16	218.57

DIFFERENTIAL CORRECTIONS
TDE-2.1289 TRA .8051 TC3-5.6890 BAU .9106
RDE .1673 RRA .0618 RC3 -.2451 FAU .05783
FDE-2.0047 FRA 1.2697 FC3-4.1853 BSP 17327
BDE 2.1355 BRA .8074 BC3 5.6942 FSP -1415

MID-COURSE EXECUTION ACCURACY
SGT 5499.1 SGR 345.3 SG3 433.5
RRT -.0699 RRF -.0862 RTF .9699
SGB 5509.9 R23 .0182 R13 -.9699
SG1 5499.1 SG2 344.5 THA 179.75

ORBIT DETERMINATION ACCURACY
ST 3558.2 SR 279.5 SS 1576.8
CRT -.9665 CRS .9421 CST -.9964
LSA 3899.3 MSA 142.7 SSA 17.3
EL1 3568.4 EL2 71.5 ALF 175.66

LAUNCH DATE JUN 12 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 11 1967

HELIOCENTRIC CONIC DISTANCE 515.626

RL 151.91 LAL -.00 LOL 260.37 VL 26.462 GAL 2.74 AZL 93.52 HCA 241.15 SMA 126.75 ECC .20395 INC 3.5156 V1 29.328
RP 107.49 LAP 3.08 LOP 141.47 VP 37.714 GAP 7.91 AZP 88.30 TAL 169.18 TAP 50.33 RCA 100.90 APO 152.61 V2 35.255
RC 137.871 GL -27.33 GP 1.80 ZAL 72.21 ZAP 157.73 ETS 4.56 ZAE 129.58 ETE 178.82 ZAC 100.87 ETC 15.01 CLP-157.80

PLANETOCENTRIC CONIC

C3 12.466 VHL 3.531 DLA -29.04 RAL 177.75 RAD 6567.5 VEL 11.570 PTH 2.02 VHP 5.561 DPA 11.20 RAP 167.01 ECC 1.2052

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.27	10 56 49	966.09	22.61	330.82	39.15	108.73	11 12 55	366.1	24.96	322.88
96.73	12 48 31	604.84	22.62	304.33	39.15	108.72	12 58 36	4.8	24.97	296.39
100.00	12 14 12	715.12	18.40	310.72	37.39	113.98	12 26 7	115.1	21.49	303.28
100.00	14 13 50	5619.07	26.96	263.37	40.53	103.43	15 47 29	5019.1	28.54	254.93
110.00	12 2 1	753.45	12.23	310.20	33.98	122.17	12 14 34	153.5	16.39	303.57
110.00	16 42 30	5153.51	33.86	229.35	41.83	95.00	18 8 24	4553.5	34.18	220.12

DIFFERENTIAL CORRECTIONS
TOE-2.1921 TRA .9612 TC3-5.5470 BAU .9254
ROE .1790 RRA .0662 RC3 -.2397 FAU .05327
FDE-1.9015 FRA 1.3136 FC3-3.6993 BSP 17582
BDE 2.1994 BRA .9634 BC3 5.5522 FSP -1332

MID-COURSE EXECUTION ACCURACY
SGT 5583.9 SGR 357.9 SG3 407.9
RRT -.0757 RRF -.0916 RTF .9695
SGB 5595.4 R23 .0180 R13 -.9695
SG1 5584.0 SG2 356.9 THA 179.72

ORBIT DETERMINATION ACCURACY
ST 3599.2 SR 292.9 SS 1524.1
CRT -.9611 CRS .9354 CST -.9965
LSA 3916.8 MSA 143.4 SSA 17.7
EL1 3610.2 EL2 80.7 ALF 175.53

LAUNCH DATE JUN 12 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 13 1967

HELIOCENTRIC CONIC DISTANCE 521.525

RL 151.91 LAL -.00 LOL 260.37 VL 26.428 GAL 3.10 AZL 93.50 HCA 244.40 SMA 126.54 ECC .20738 INC 3.4987 V1 29.328
RP 107.50 LAP 3.16 LOP 144.72 VP 37.688 GAP 8.30 AZP 88.49 TAL 168.00 TAP 52.40 RCA 100.30 APO 152.78 V2 35.253
RC 140.023 GL -26.47 GP 1.68 ZAL 69.91 ZAP 159.17 ETS 4.48 ZAE 129.09 ETE 179.00 ZAC 99.14 ETC 14.75 CLP-159.24

PLANETOCENTRIC CONIC

C3 13.053 VHL 3.613 DLA -29.25 RAL 180.42 RAD 6567.5 VEL 11.595 PTH 2.03 VHP 5.759 DPA 10.39 RAP 168.67 ECC 1.2148

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.34	11 0 5	999.76	22.54	333.28	42.57	109.15	11 16 45	399.8	24.95	325.36
97.66	13 6 35	5878.93	22.56	281.19	42.57	109.13	14 44 34	5278.9	24.96	273.27
100.00	12 32 45	699.43	18.83	309.75	41.01	113.65	12 44 24	99.4	21.87	302.27
100.00	14 16 37	5654.49	26.37	265.84	43.84	104.61	15 50 51	5054.5	28.12	257.48
110.00	12 15 31	753.70	12.22	310.21	37.38	122.18	12 28 4	153.7	16.38	303.58
110.00	16 50 20	5172.98	33.73	230.86	45.38	95.88	18 16 33	4573.0	34.18	221.64

DIFFERENTIAL CORRECTIONS
TOE-2.2581 TRA 1.1244 TC3-5.3878 BAU .9411
ROE .1919 RRA .0699 RC3 -.2309 FAU .04924
FDE-1.8099 FRA 1.3510 FC3-3.2654 BSP 17905
BDE 2.2662 BRA 1.1266 BC3 5.3928 FSP -1263

MID-COURSE EXECUTION ACCURACY
SGT 5670.7 SGR 369.6 SG3 384.8
RRT -.0862 RRF -.1020 RTF .9694
SGB 5682.8 R23 .0181 R13 -.9694
SG1 5670.8 SG2 368.3 THA 179.68

ORBIT DETERMINATION ACCURACY
ST 3635.0 SR 306.8 SS 1475.0
CRT -.9559 CRS .9294 CST -.9966
LSA 3932.1 MSA 144.6 SSA 17.9
EL1 3646.8 EL2 89.8 ALF 175.38

LAUNCH DATE JUN 12 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 15 1967

HELIOCENTRIC CONIC DISTANCE 527.394

RL 151.91 LAL -.00 LOL 260.37 VL 26.395 GAL 3.47 AZL 93.48 HCA 247.65 SMA 126.33 ECC .21105 INC 3.4827 V1 29.328
RP 107.51 LAP 3.22 LOP 147.98 VP 37.662 GAP 8.69 AZP 88.67 TAL 166.80 TAP 54.45 RCA 99.67 APO 152.99 V2 35.249
RC 142.165 GL -25.59 GP 1.58 ZAL 67.61 ZAP 160.55 ETS 4.43 ZAE 128.65 ETE 179.14 ZAC 97.36 ETC 14.50 CLP-160.61

PLANETOCENTRIC CONIC

C3 13.732 VHL 3.706 DLA -29.42 RAL 183.11 RAD 6567.5 VEL 11.624 PTH 2.04 VHP 5.965 DPA 9.56 RAP 170.37 ECC 1.2260

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.66	11 5 28	1027.84	22.42	335.31	46.06	109.57	11 22 36	427.8	24.88	327.42
98.34	13 22 36	5872.87	22.43	280.69	46.07	109.55	15 0 29	5272.9	24.89	272.80
100.00	12 50 49	686.66	19.18	308.96	44.70	113.38	13 2 16	86.7	22.18	301.45
100.00	14 19 56	5689.28	25.75	268.24	47.22	105.73	15 54 46	5089.3	27.66	259.96
110.00	12 28 32	756.84	12.11	310.39	40.83	122.21	12 41 9	156.8	16.27	303.76
110.00	16 58 42	5191.86	33.59	232.31	49.01	96.73	18 25 14	4591.9	34.16	223.11

DIFFERENTIAL CORRECTIONS
TOE-2.3212 TRA 1.2995 TC3-5.1991 BAU .9553
ROE .2060 RRA .0730 RC3 -.2194 FAU .04544
FDE-1.7221 FRA 1.3873 FC3-2.8645 BSP 18184
BDE 2.3304 BRA 1.3015 BC3 5.2038 FSP -1197

MID-COURSE EXECUTION ACCURACY
SGT 5748.9 SGR 380.3 SG3 363.1
RRT -.0996 RRF -.1151 RTF .9693
SGB 5761.4 R23 .0182 R13 -.9693
SG1 5749.0 SG2 378.5 THA 179.62

ORBIT DETERMINATION ACCURACY
ST 3657.0 SR 320.9 SS 1424.4
CRT -.9507 CRS .9234 CST -.9968
LSA 3934.9 MSA 146.9 SSA 18.0
EL1 3669.7 EL2 99.2 ALF 175.23

LAUNCH DATE JUN 12 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 17 1967

HELIOCENTRIC CONIC DISTANCE 533.232

RL 151.91 LAL -.00 LOL 260.37 VL 26.361 GAL 3.87 AZL 93.47 HCA 250.89 SMA 126.11 ECC .21497 INC 3.4675 V1 29.328
RP 107.52 LAP 3.28 LOP 151.23 VP 37.634 GAP 9.10 AZP 88.86 TAL 165.59 TAP 56.48 RCA 99.00 APO 153.22 V2 35.245
RC 144.295 GL -24.68 GP 1.49 ZAL 65.32 ZAP 161.88 ETS 4.39 ZAE 128.26 ETE 179.26 ZAC 95.52 ETC 14.27 CLP-161.94

PLANETOCENTRIC CONIC

C3 14.513 VHL 3.810 DLA -29.55 RAL 185.78 RAD 6567.6 VEL 11.658 PTH 2.05 VHP 6.178 DPA 8.71 RAP 172.12 ECC 1.2388

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.19	11 12 28	1051.79	22.23	337.01	49.62	109.98	11 30 0	451.8	24.75	329.15
98.81	13 36 57	5873.29	22.24	280.65	49.62	109.97	15 14 50	5273.3	24.76	272.79
100.00	13 7 54	678.25	19.41	308.44	48.42	113.19	13 19 12	78.2	22.38	300.91
100.00	14 24 13	5722.07	25.13	270.48	50.67	106.75	15 59 35	5122.1	27.18	262.28
110.00	12 40 58	763.09	11.88	310.73	44.32	122.29	12 53 42	163.1	16.06	304.11
110.00	17 7 37	5209.99	33.44	233.70	52.72	97.54	18 34 27	4610.0	34.12	224.53

DIFFERENTIAL CORRECTIONS
TOE-2.3792 TRA 1.4901 TC3-4.9755 BAU .9662
ROE .2211 RRA .0752 RC3 -.2060 FAU .04168
FDE-1.6360 FRA 1.4255 FC3-2.4861 BSP 18364
BDE 2.3895 BRA 1.4920 BC3 4.9797 FSP -1128

MID-COURSE EXECUTION ACCURACY
SGT 5814.7 SGR 390.1 SG3 342.5
RRT -.1148 RRF -.1299 RTF .9689
SGB 5827.8 R23 .0183 R13 -.9689
SG1 5814.9 SG2 387.5 THA 179.56

ORBIT DETERMINATION ACCURACY
ST 3662.6 SR 334.9 SS 1371.6
CRT -.9453 CRS .9171 CST -.9968
LSA 3922.4 MSA 150.5 SSA 17.9
EL1 3676.2 EL2 108.9 ALF 175.06

LAUNCH DATE JUN 12 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 19 1967

DISTANCE 539.036

HELIOCENTRIC CONIC
RL 151.91 LAL -.00 LOL 260.37 VL 26.327 GAL 4.28 AZL 93.45 HCA 254.14 SMA 125.90 ECC .21918 INC 3.4528 V1 29.328
RP 107.53 LAP 3.32 LOP 154.48 VP 37.605 GAP 9.52 AZP 89.06 TAL 164.36 TAP 58.50 RCA 98.30 APO 153.49 V2 35.240
RC 146.414 GL -23.75 GP 1.41 ZAL 63.05 ZAP 163.16 ETS 4.38 ZAE 127.89 ETE 179.36 ZAC 93.64 ETC 14.06 CLP-163.22

PLANETOCENTRIC CONIC
C3 15.409 VHL 3.925 DLA -29.63 RAL 188.44 RAD 6567.6 VEL 11.696 PTH 2.06 VHP 6.399 DPA 7.86 RAP 173.91 ECC 1.2536

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.90	11 20 49	1072.41	21.98	338.44	53.22	110.39	11 38 41	472.4	24.55	330.61
99.10	13 49 49	5879.46	21.99	281.01	53.23	110.38	15 27 48	5279.5	24.56	273.18
100.00	13 23 15	676.39	19.46	308.32	52.15	113.15	13 34 31	76.4	22.42	300.79
100.00	14 30 4	5750.72	24.55	272.41	54.19	107.61	16 5 55	5150.7	26.73	264.29
110.00	12 52 43	772.64	11.53	311.25	47.82	122.40	13 5 36	172.6	15.73	304.65
110.00	17 17 5	5227.23	33.28	235.02	56.48	98.31	18 44 12	4627.2	34.07	225.87

DIFFERENTIAL CORRECTIONS
TDE-2.4398 TRA 1.6880 TC3-4.7450 BAU .9783
RDE .2375 RRA .0765 RC3 -.1909 FAU .03838
FDE-1.5597 FRA 1.4579 FC3-2.1561 BSP 18626
BDE 2.4513 BRA 1.6897 BC3 4.7489 FSP -1072

MID-COURSE EXECUTION ACCURACY
SGT 5881.6 SGR 398.9 SG3 323.8
RRT -.1330 RRF -.1478 RTF .9688
SGB 5895.1 R23 .0186 R13 -.9688
SG1 5881.8 SG2 395.3 THA 179.48

ORBIT DETERMINATION ACCURACY
ST 3663.0 SR 348.8 SS 1322.8
CRT -.9401 CRS .9114 CST -.9969
LSA 3907.0 MSA 154.5 SSA 17.8
EL1 3677.6 EL2 118.4 ALF 174.88

LAUNCH DATE JUN 12 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 21 1967

DISTANCE 544.803

HELIOCENTRIC CONIC
RL 151.91 LAL -.00 LOL 260.37 VL 26.292 GAL 4.72 AZL 93.44 HCA 257.38 SMA 125.68 ECC .22369 INC 3.4386 V1 29.328
RP 107.55 LAP 3.36 LOP 157.73 VP 37.576 GAP 9.95 AZP 89.25 TAL 163.13 TAP 60.52 RCA 97.57 APO 153.80 V2 35.234
RC 148.521 GL -22.81 GP 1.34 ZAL 60.81 ZAP 164.40 ETS 4.40 ZAE 127.55 ETE 179.44 ZAC 91.71 ETC 13.87 CLP-164.45

PLANETOCENTRIC CONIC
C3 16.435 VHL 4.054 DLA -29.66 RAL 191.07 RAD 6567.7 VEL 11.740 PTH 2.07 VHP 6.630 DPA 6.98 RAP 175.73 ECC 1.2705

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.78	11 30 19	1090.16	21.65	339.62	56.86	110.79	11 48 29	490.2	24.28	331.83
99.22	14 1 16	602.91	21.66	303.82	56.87	110.77	14 11 19	2.9	24.29	296.03
100.00	13 36 1	683.62	19.26	308.77	55.83	113.31	13 47 25	83.6	22.25	301.25
100.00	14 38 15	5772.72	24.09	273.89	57.80	108.25	16 14 27	5172.7	26.36	265.82
110.00	13 3 42	785.57	11.06	311.95	51.33	122.55	13 16 47	185.6	15.27	305.39
110.00	17 27 3	5243.54	33.11	236.27	60.29	99.03	18 54 27	4643.5	34.00	227.14

DIFFERENTIAL CORRECTIONS
TDE-2.4983 TRA 1.8991 TC3-4.4964 BAU .9887
RDE .2548 RRA .0768 RC3 -.1748 FAU .03524
FDE-1.4873 FRA 1.4902 FC3-1.8563 BSP 18860
BDE 2.5112 BRA 1.9006 BC3 4.4998 FSP -1019

MID-COURSE EXECUTION ACCURACY
SGT 5941.3 SGR 406.7 SG3 306.2
RRT -.1527 RRF -.1671 RTF .9687
SGB 5955.2 R23 .0187 R13 -.9687
SG1 5941.6 SG2 401.9 THA 179.40

ORBIT DETERMINATION ACCURACY
ST 3652.1 SR 362.1 SS 1274.4
CRT -.9349 CRS .9056 CST -.9970
LSA 3881.6 MSA 159.2 SSA 17.5
EL1 3667.8 EL2 127.9 ALF 174.70

LAUNCH DATE JUN 12 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 23 1967

DISTANCE 550.529

HELIOCENTRIC CONIC
RL 151.91 LAL -.00 LOL 260.37 VL 26.258 GAL 5.18 AZL 93.42 HCA 260.63 SMA 125.47 ECC .22853 INC 3.4248 V1 29.328
RP 107.57 LAP 3.38 LOP 160.97 VP 37.546 GAP 10.39 AZP 89.44 TAL 161.90 TAP 62.52 RCA 96.79 APO 154.14 V2 35.228
RC 150.615 GL -21.86 GP 1.28 ZAL 58.61 ZAP 165.60 ETS 4.45 ZAE 127.25 ETE 179.51 ZAC 89.75 ETC 13.69 CLP-165.65

PLANETOCENTRIC CONIC
C3 17.606 VHL 4.196 DLA -29.65 RAL 193.65 RAD 6567.7 VEL 11.789 PTH 2.08 VHP 6.871 DPA 6.09 RAP 177.58 ECC 1.2898

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.81	11 40 54	1105.17	21.26	340.57	60.53	111.18	11 59 19	505.2	23.95	332.83
99.19	14 11 18	619.63	21.27	304.90	60.53	111.16	14 21 38	19.6	23.96	297.15
100.00	13 45 40	701.60	18.77	309.89	59.44	113.70	13 57 22	101.6	21.82	302.41
100.00	14 49 13	5786.48	23.79	274.80	61.52	108.65	16 25 39	5186.5	26.12	266.77
110.00	13 13 52	801.91	10.46	312.84	54.83	122.73	13 27 14	201.9	14.70	306.30
110.00	17 37 30	5258.93	32.94	237.44	64.15	99.70	19 5 9	4658.9	33.93	228.34

DIFFERENTIAL CORRECTIONS
TDE-2.5552 TRA 2.1231 TC3-4.2361 BAU .9978
RDE .2732 RRA .0761 RC3 -.1582 FAU .03230
FDE-1.4194 FRA 1.5214 FC3-1.5884 BSP 19085
BDE 2.5698 BRA 2.1245 BC3 4.2390 FSP -970

MID-COURSE EXECUTION ACCURACY
SGT 5995.0 SGR 413.6 SG3 289.8
RRT -.1739 RRF -.1877 RTF .9687
SGB 6009.3 R23 .0188 R13 -.9687
SG1 5995.4 SG2 407.3 THA 179.31

ORBIT DETERMINATION ACCURACY
ST 3631.4 SR 374.8 SS 1227.0
CRT -.9297 CRS .8999 CST -.9971
LSA 3847.8 MSA 164.5 SSA 17.1
EL1 3648.1 EL2 137.4 ALF 174.51

LAUNCH DATE JUN 12 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 25 1967

DISTANCE 556.211

HELIOCENTRIC CONIC
RL 151.91 LAL -.00 LOL 260.37 VL 26.224 GAL 5.67 AZL 93.41 HCA 263.87 SMA 125.25 ECC .23373 INC 3.4112 V1 29.328
RP 107.59 LAP 3.39 LOP 164.22 VP 37.516 GAP 10.85 AZP 89.64 TAL 160.66 TAP 64.52 RCA 95.98 APO 154.53 V2 35.221
RC 152.696 GL -20.90 GP 1.22 ZAL 56.45 ZAP 166.77 ETS 4.54 ZAE 126.96 ETE 179.57 ZAC 87.76 ETC 13.54 CLP-166.82

PLANETOCENTRIC CONIC
C3 18.943 VHL 4.352 DLA -29.60 RAL 196.18 RAD 6567.8 VEL 11.846 PTH 2.10 VHP 7.123 DPA 5.20 RAP 179.46 ECC 1.3118

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.00	11 52 28	1117.57	20.80	341.30	64.21	111.55	12 11 5	517.6	23.54	333.60
99.00	14 19 56	641.47	20.81	306.33	64.21	111.54	14 30 37	41.5	23.55	298.63
100.00	13 52 23	729.56	18.00	311.60	62.95	114.28	14 4 33	129.6	21.13	304.20
100.00	15 2 41	5792.76	23.66	275.22	65.34	108.83	16 39 14	5192.8	26.01	267.21
110.00	13 23 12	821.59	9.73	313.90	58.32	122.93	13 36 54	221.6	14.00	307.40
110.00	17 48 22	5273.49	32.77	238.54	68.03	100.33	19 16 15	4673.5	33.84	229.47

DIFFERENTIAL CORRECTIONS
TDE-2.6101 TRA 2.3614 TC3-3.9657 BAU 1.0050
RDE .2925 RRA .0741 RC3 -.1415 FAU .02950
FDE-1.3552 FRA 1.5526 FC3-1.3482 BSP 19277
BDE 2.6264 BRA 2.3626 BC3 3.9683 FSP -922

MID-COURSE EXECUTION ACCURACY
SGT 6041.9 SGR 419.5 SG3 274.4
RRT -.1960 RRF -.2092 RTF .9686
SGB 6056.5 R23 .0188 R13 -.9686
SG1 6042.5 SG2 411.4 THA 179.22

ORBIT DETERMINATION ACCURACY
ST 3601.0 SR 386.5 SS 1180.8
CRT -.9243 CRS .8941 CST -.9972
LSA 3805.4 MSA 170.4 SSA 16.7
EL1 3618.7 EL2 146.8 ALF 174.32

LAUNCH DATE JUN 12 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 27 1967

HELIOCENTRIC CONIC DISTANCE 561.843

RL 151.91 LAL -.00 LOL 260.37 VL 26.189 GAL 6.19 AZL 93.40 HCA 267.11 SMA 125.04 ECC .23933 INC 3.3979 V1 29.328
RP 107.62 LAP 3.39 LOP 167.47 VP 37.484 GAP 11.33 AZP 89.83 TAL 159.41 TAP 66.52 RCA 95.11 APO 154.97 V2 35.214
RC 154.762 GL -19.94 GP 1.17 ZAL 54.34 ZAP 167.91 ETS 4.69 ZAE 126.69 ETE 179.61 ZAC 85.74 ETC 13.41 CLP-167.97

PLANETOCENTRIC CONIC

C3 20.468 VHL 4.524 DLA -29.50 RAL 198.65 RAD 6567.8 VEL 11.910 PTH 2.12 VHP 7.388 DPA 4.29 RAP 181.36 ECC 1.3368

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.35	12 5 1	1127.28	20.27	341.79	67.89	111.91	12 23 48	527.3	23.06	334.14
98.65	14 27 4	668.51	20.28	308.11	67.90	111.90	14 38 13	68.5	23.08	300.45
100.00	13 56 55	765.05	16.99	313.76	66.39	114.97	14 9 40	165.0	20.22	306.45
100.00	15 17 52	5794.01	23.63	275.30	69.24	108.86	16 54 26	5194.0	25.99	267.29
110.00	13 31 42	844.51	8.88	315.13	61.77	123.15	13 45 47	244.5	13.18	308.67
110.00	17 59 34	5287.32	32.59	239.58	71.94	100.92	19 27 41	4687.3	33.76	230.54

DIFFERENTIAL CORRECTIONS
TDE-2.6611 TRA 2.6171 TC3-3.6851 BAU 1.0089
RDE .3127 RRA .0708 RC3 -.1252 FAU .02677
FDE-1.2934 FRA 1.5855 FC3-1.1321 BSP 19384
BDE 2.6794 BRA 2.6181 BC3 3.6872 FSP -873

MID-COURSE EXECUTION ACCURACY
SGT 6081.0 SGR 424.5 SG3 260.0
RRT -.2187 RRF -.2309 RTF .9685
SGB 6095.8 R23 .0185 R13 -.9685
SG1 6081.7 SG2 414.2 THA 179.12

ORBIT DETERMINATION ACCURACY
ST 3559.9 SR 397.2 SS 1135.3
CRT -.9186 CRS .8878 CST -.9973
LSA 3753.4 MSA 176.8 SSA 16.3
EL1 3578.6 EL2 156.2 ALF 174.14

LAUNCH DATE JUN 12 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 29 1967

HELIOCENTRIC CONIC DISTANCE 567.421

RL 151.91 LAL -.00 LOL 260.37 VL 26.155 GAL 6.74 AZL 93.38 HCA 270.35 SMA 124.83 ECC .24535 INC 3.3845 V1 29.328
RP 107.64 LAP 3.38 LOP 170.71 VP 37.453 GAP 11.83 AZP 90.02 TAL 158.17 TAP 68.52 RCA 94.20 APO 155.46 V2 35.205
RC 156.813 GL -18.99 GP 1.12 ZAL 52.29 ZAP 169.03 ETS 4.90 ZAE 126.43 ETE 179.64 ZAC 83.69 ETC 13.30 CLP-169.08

PLANETOCENTRIC CONIC

C3 22.206 VHL 4.712 DLA -29.37 RAL 201.05 RAD 6567.9 VEL 11.983 PTH 2.14 VHP 7.668 DPA 3.37 RAP 183.28 ECC 1.3655

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.87	12 18 40	1133.84	19.68	342.02	71.57	112.25	12 37 33	533.8	22.53	334.43
98.13	14 32 34	701.19	19.69	310.27	71.57	112.24	14 44 15	101.2	22.54	302.67
100.00	13 59 58	805.66	15.81	316.19	69.76	115.70	14 13 24	205.7	19.14	308.98
100.00	15 33 57	5792.64	23.66	275.21	73.17	108.82	17 10 29	5192.6	26.01	267.20
110.00	13 39 23	870.49	7.91	316.51	65.20	123.36	13 53 54	270.5	12.25	310.10
110.00	18 11 1	5300.58	32.42	240.57	75.86	101.49	19 39 22	4700.6	33.66	231.56

DIFFERENTIAL CORRECTIONS
TDE-2.7143 TRA 2.8847 TC3-3.4096 BAU 1.0128
RDE .3337 RRA .0661 RC3 -.1093 FAU .02429
FDE-1.2378 FRA 1.6163 FC3 -.9470 BSP 19551
BDE 2.7347 BRA 2.8855 BC3 3.4113 FSP -832

MID-COURSE EXECUTION ACCURACY
SGT 6116.8 SGR 428.6 SG3 246.6
RRT -.2428 RRF -.2539 RTF .9686
SGB 6131.8 R23 .0182 R13 -.9686
SG1 6117.7 SG2 415.7 THA 179.02

ORBIT DETERMINATION ACCURACY
ST 3515.5 SR 406.7 SS 1093.3
CRT -.9130 CRS .8818 CST -.9974
LSA 3699.4 MSA 183.0 SSA 15.9
EL1 3535.0 EL2 165.0 ALF 173.96

LAUNCH DATE JUN 12 1967 FLIGHT TIME 202.00 ARRIVAL DATE DEC 31 1967

HELIOCENTRIC CONIC DISTANCE 572.937

RL 151.91 LAL -.00 LOL 260.37 VL 26.120 GAL 7.32 AZL 93.37 HCA 273.58 SMA 124.62 ECC .25185 INC 3.3712 V1 29.328
RP 107.67 LAP 3.36 LOP 173.96 VP 37.420 GAP 12.35 AZP 90.21 TAL 156.93 TAP 70.51 RCA 93.23 APO 156.00 V2 35.197
RC 158.850 GL -18.05 GP 1.08 ZAL 50.31 ZAP 170.12 ETS 5.19 ZAE 126.19 ETE 179.67 ZAC 81.63 ETC 13.21 CLP-170.18

PLANETOCENTRIC CONIC

C3 24.190 VHL 4.918 DLA -29.20 RAL 203.37 RAD 6568.0 VEL 12.065 PTH 2.16 VHP 7.963 DPA 2.45 RAP 185.21 ECC 1.3981

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.58	12 33 31	1136.74	19.03	341.95	75.23	112.57	12 52 27	536.7	21.92	334.41
97.42	14 36 14	740.00	19.04	312.85	75.24	112.56	14 48 34	140.0	21.94	305.31
100.00	14 2 3	849.70	14.49	318.80	73.07	116.43	14 16 13	249.7	17.93	311.69
100.00	15 50 23	5790.33	23.71	275.06	77.13	108.76	17 26 53	5190.3	26.05	267.04
110.00	13 46 17	899.35	6.83	318.05	68.58	123.58	14 1 16	299.3	11.19	311.68
110.00	18 22 38	5313.44	32.24	241.53	79.79	102.03	19 51 12	4713.4	33.56	232.55

DIFFERENTIAL CORRECTIONS
TDE-2.7672 TRA 3.1684 TC3-3.1357 BAU 1.0145
RDE .3555 RRA .0599 RC3 -.0944 FAU .02194
FDE-1.1863 FRA 1.6476 FC3 -.7851 BSP 19712
BDE 2.7900 BRA 3.1690 BC3 3.1371 FSP -793

MID-COURSE EXECUTION ACCURACY
SGT 6146.9 SGR 431.9 SG3 234.1
RRT -.2676 RRF -.2775 RTF .9688
SGB 6162.0 R23 .0177 R13 -.9688
SG1 6148.0 SG2 416.0 THA 178.92

ORBIT DETERMINATION ACCURACY
ST 3465.5 SR 414.8 SS 1053.6
CRT -.9073 CRS .8758 CST -.9975
LSA 3640.8 MSA 189.2 SSA 15.4
EL1 3485.9 EL2 173.4 ALF 173.79

LAUNCH DATE JUN 12 1967 FLIGHT TIME 204.00 ARRIVAL DATE JAN 2 1968

HELIOCENTRIC CONIC DISTANCE 578.384

RL 151.91 LAL -.00 LOL 260.37 VL 26.086 GAL 7.94 AZL 93.36 HCA 276.82 SMA 124.41 ECC .25887 INC 3.3579 V1 29.328
RP 107.70 LAP 3.33 LOP 177.20 VP 37.388 GAP 12.90 AZP 90.40 TAL 155.70 TAP 72.52 RCA 92.20 APO 156.61 V2 35.187
RC 160.871 GL -17.11 GP 1.04 ZAL 48.39 ZAP 171.20 ETS 5.60 ZAE 125.95 ETE 179.68 ZAC 79.55 ETC 13.14 CLP-171.27

PLANETOCENTRIC CONIC

C3 26.454 VHL 5.143 DLA -28.99 RAL 205.61 RAD 6568.1 VEL 12.159 PTH 2.18 VHP 8.275 DPA 1.52 RAP 187.15 ECC 1.4354

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.52	12 50 0	1134.50	18.32	341.48	78.88	112.86	13 8 54	534.5	21.26	333.99
96.48	14 37 36	786.39	18.34	315.96	78.89	112.85	14 50 43	186.4	21.28	308.47
100.00	14 3 29	896.09	13.07	321.51	76.34	117.13	14 18 25	296.1	16.60	314.50
100.00	16 6 48	5788.07	23.76	274.91	81.09	108.69	17 43 16	5188.1	26.09	266.88
110.00	13 52 26	930.85	5.64	319.71	71.91	123.77	14 7 57	330.8	10.04	313.38
110.00	18 34 20	5326.07	32.06	242.47	83.71	102.56	20 3 7	4726.1	33.45	233.52

DIFFERENTIAL CORRECTIONS
TDE-2.8198 TRA 3.4699 TC3-2.8651 BAU 1.0137
RDE .3779 RRA .0522 RC3 -.0805 FAU .01970
FDE-1.1385 FRA 1.6797 FC3 -.6446 BSP 19847
BDE 2.8450 BRA 3.4703 BC3 2.8662 FSP -756

MID-COURSE EXECUTION ACCURACY
SGT 6171.0 SGR 434.2 SG3 222.4
RRT -.2929 RRF -.3014 RTF .9691
SGB 6186.2 R23 .0171 R13 -.9691
SG1 6172.3 SG2 415.1 THA 178.81

ORBIT DETERMINATION ACCURACY
ST 3410.6 SR 421.5 SS 1016.3
CRT -.9014 CRS .8697 CST -.9975
LSA 3578.4 MSA 195.3 SSA 15.0
EL1 3431.8 EL2 181.4 ALF 173.63

LAUNCH DATE JUN 12 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 4 1968

HELIOCENTRIC CONIC DISTANCE 583.753

RL 151.91 LAL -.00 LOL 260.37 VL 26.052 GAL 8.60 AZL 93.34 HCA 280.05 SMA 124.20 ECC .26647 INC 3.3443 V1 29.328
RP 107.73 LAP 3.29 LOP 180.44 VP 37.355 GAP 13.48 AZP 90.58 TAL 154.48 TAP 74.53 RCA 91.11 APO 157.30 V2 35.178
RC 162.878 GL -16.19 GP 1.00 ZAL 46.54 ZAP 172.27 ETS 6.17 ZAE 125.72 ETE 179.69 ZAC 77.47 ETC 13.09 CLP-172.34

PLANETOCENTRIC CONIC

C3 29.043 VHL 5.389 DLA -28.75 RAL 207.76 RAD 6568.2 VEL 12.264 PTH 2.21 VHP 8.608 DPA .60 RAP 189.11 ECC 1.4780

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.81	13 9 1	1124.07	17.57	340.37	82.50	113.13	13 27 45	524.1	20.55	332.93
95.19	14 35 45	843.32	17.58	319.81	82.51	113.12	14 49 48	243.3	20.56	312.37
100.00	14 4 26	944.19	11.56	324.28	79.55	117.76	14 20 10	344.2	15.18	317.37
100.00	16 23 1	5786.47	23.79	274.80	85.04	108.65	17 59 27	5186.5	26.12	266.77
110.00	13 57 53	964.77	4.35	321.49	75.21	123.94	14 13 58	364.8	8.78	315.20
110.00	18 46 3	5338.66	31.87	243.41	87.63	103.08	20 15 1	4738.7	33.34	234.49

DIFFERENTIAL CORRECTIONS
TDE-2.8696 TRA 3.7935 TC3-2.5961 BAU 1.0084
RDE .4009 RRA .0426 RC3 -.0679 FAU .01748
FDE-1.0926 FRA 1.7149 FC3 -.5209 BSP 19877
BDE 2.8975 BRA 3.7937 BC3 2.5970 FSP -717

MID-COURSE EXECUTION ACCURACY
SGT 6188.7 SGR 435.6 SG3 211.5
RRT -.3182 RRF -.3250 RTF .9694
SGB 6204.0 R23 .0161 R13 -.9694
SG1 6190.3 SG2 412.8 THA 178.71

ORBIT DETERMINATION ACCURACY
ST 3349.6 SR 426.5 SS 980.7
CRT -.8951 CRS .8630 CST -.9976
LSA 3510.4 MSA 201.3 SSA 14.5
EL1 3371.4 EL2 188.9 ALF 173.48

LAUNCH DATE JUN 12 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 6 1968

HELIOCENTRIC CONIC DISTANCE 589.032

RL 151.91 LAL -.00 LOL 260.37 VL 26.018 GAL 9.30 AZL 93.33 HCA 283.28 SMA 124.00 ECC .27471 INC 3.3304 V1 29.328
RP 107.76 LAP 3.24 LOP 183.67 VP 37.321 GAP 14.10 AZP 90.77 TAL 153.27 TAP 76.56 RCA 89.93 APO 158.06 V2 35.167
RC 164.869 GL -15.29 GP .97 ZAL 44.77 ZAP 173.33 ETS 6.97 ZAE 125.49 ETE 179.70 ZAC 75.37 ETC 13.08 CLP-173.40

PLANETOCENTRIC CONIC

C3 32.006 VHL 5.657 DLA -28.48 RAL 209.82 RAD 6568.3 VEL 12.385 PTH 2.24 VHP 8.963 DPA -.33 RAP 191.07 ECC 1.5267

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
86.79	13 33 35	1095.59	16.76	337.92	86.09	113.37	13 51 50	495.6	19.78	330.53
93.21	14 27 36	920.56	16.77	325.12	86.09	113.36	14 42 57	320.6	19.79	317.73
100.00	14 5 0	993.59	9.98	327.10	82.71	118.32	14 21 33	393.6	13.69	320.27
100.00	16 38 52	5785.83	23.81	274.76	88.97	108.63	18 15 18	5185.8	26.13	266.73
110.00	14 2 41	1000.87	2.98	323.38	78.45	124.07	14 19 22	400.9	7.43	317.13
110.00	18 57 40	5351.32	31.67	244.34	91.53	103.60	20 26 52	4751.3	33.21	235.45

DIFFERENTIAL CORRECTIONS
TDE-2.9244 TRA 4.1335 TC3-2.3405 BAU 1.0018
RDE .4245 RRA .0314 RC3 -.0566 FAU .01545
FDE-1.0527 FRA 1.7495 FC3 -.4178 BSP 19993
BDE 2.9550 BRA 4.1336 BC3 2.3411 FSP -685

MID-COURSE EXECUTION ACCURACY
SGT 6202.3 SGR 436.2 SG3 201.2
RRT -.3444 RRF -.3497 RTF .9700
SGB 6217.6 R23 .0151 R13 -.9700
SG1 6204.1 SG2 409.4 THA 178.61

ORBIT DETERMINATION ACCURACY
ST 3289.3 SR 430.1 SS 949.3
CRT -.8890 CRS .8570 CST -.9977
LSA 3444.2 MSA 206.5 SSA 14.1
EL1 3311.5 EL2 195.6 ALF 173.35

LAUNCH DATE JUN 12 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 8 1968

HELIOCENTRIC CONIC DISTANCE 594.207

RL 151.91 LAL -.00 LOL 260.37 VL 25.984 GAL 10.05 AZL 93.32 HCA 286.51 SMA 123.79 ECC .28367 INC 3.3162 V1 29.328
RP 107.79 LAP 3.18 LOP 186.91 VP 37.288 GAP 14.75 AZP 90.94 TAL 152.09 TAP 78.60 RCA 88.68 APO 158.91 V2 35.156
RC 166.846 GL -14.40 GP .94 ZAL 43.07 ZAP 174.38 ETS 8.14 ZAE 125.26 ETE 179.69 ZAC 73.28 ETC 13.08 CLP-174.46

PLANETOCENTRIC CONIC

C3 35.407 VHL 5.950 DLA -28.19 RAL 211.78 RAD 6568.4 VEL 12.521 PTH 2.27 VHP 9.343 DPA -1.25 RAP 193.04 ECC 1.5827

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 44 57	1109.68	13.85	337.60	88.67	114.95	14 3 27	509.7	17.10	330.43
90.00	14 31 53	957.41	18.01	328.35	90.56	112.23	14 47 51	357.4	20.87	320.85
100.00	14 5 15	1044.02	8.33	329.94	85.83	118.81	14 22 39	444.0	12.12	323.19
100.00	16 54 17	5786.34	23.80	274.79	92.87	108.64	18 30 44	5186.3	26.12	266.76
110.00	14 6 52	1038.94	1.52	325.37	81.65	124.15	14 24 11	438.9	5.99	319.14
110.00	19 9 10	5364.19	31.46	245.28	95.41	104.12	20 38 34	4764.2	33.08	236.43

DIFFERENTIAL CORRECTIONS
TDE-2.9809 TRA 4.4950 TC3-2.0946 BAU .9917
RDE .4486 RRA .0182 RC3 -.0465 FAU .01350
FDE-1.0163 FRA 1.7859 FC3 -.3301 BSP 20084
BDE 3.0144 BRA 4.4951 BC3 2.0951 FSP -653

MID-COURSE EXECUTION ACCURACY
SGT 6210.3 SGR 435.9 SG3 191.6
RRT -.3709 RRF -.3745 RTF .9707
SGB 6225.6 R23 .0140 R13 -.9707
SG1 6212.4 SG2 404.7 THA 178.50

ORBIT DETERMINATION ACCURACY
ST 3227.1 SR 432.0 SS 920.6
CRT -.8829 CRS .8509 CST -.9978
LSA 3376.9 MSA 211.1 SSA 13.6
EL1 3249.7 EL2 201.4 ALF 173.23

LAUNCH DATE JUN 12 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 10 1968

HELIOCENTRIC CONIC DISTANCE 599.263

RL 151.91 LAL -.00 LOL 260.37 VL 25.951 GAL 10.85 AZL 93.30 HCA 289.74 SMA 123.59 ECC .29342 INC 3.3015 V1 29.328
RP 107.83 LAP 3.11 LOP 190.14 VP 37.254 GAP 15.45 AZP 91.12 TAL 150.93 TAP 80.67 RCA 87.33 APO 159.86 V2 35.145
RC 168.808 GL -13.54 GP .92 ZAL 41.45 ZAP 175.42 ETS 9.93 ZAE 125.02 ETE 179.69 ZAC 71.18 ETC 13.12 CLP-175.51

PLANETOCENTRIC CONIC

C3 39.320 VHL 6.271 DLA -27.87 RAL 213.65 RAD 6568.5 VEL 12.676 PTH 2.30 VHP 9.752 DPA -2.17 RAP 195.00 ECC 1.6471

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 31 55	1202.88	11.11	343.07	91.27	116.22	13 51 58	602.9	14.54	336.07
90.00	14 59 49	917.18	19.02	325.84	94.88	111.38	15 15 6	317.2	21.76	318.24
100.00	14 5 12	1095.28	6.64	332.80	88.89	119.21	14 23 27	495.3	10.49	326.12
100.00	17 9 13	5788.06	23.76	274.90	96.73	108.69	18 45 41	5188.1	26.09	266.88
110.00	14 10 28	1078.76	.00	327.45	84.79	124.18	14 28 26	478.8	4.49	321.24
110.00	19 20 27	5377.34	31.24	246.24	99.25	104.65	20 50 4	4777.3	32.93	237.43

DIFFERENTIAL CORRECTIONS
TDE-3.0401 TRA 4.8810 TC3-1.8590 BAU .9774
RDE .4730 RRA .0030 RC3 -.0378 FAU .01162
FDE -.9837 FRA 1.8248 FC3 -.2559 BSP 20158
BDE 3.0767 BRA 4.8810 BC3 1.8594 FSP -624

MID-COURSE EXECUTION ACCURACY
SGT 6213.4 SGR 434.8 SG3 182.6
RRT -.3976 RRF -.3996 RTF .9716
SGB 6228.6 R23 .0128 R13 -.9716
SG1 6215.8 SG2 398.8 THA 178.40

ORBIT DETERMINATION ACCURACY
ST 3164.2 SR 432.2 SS 895.0
CRT -.8768 CRS .8450 CST -.9979
LSA 3309.6 MSA 215.1 SSA 13.2
EL1 3186.9 EL2 206.4 ALF 173.14

LAUNCH DATE JUN 12 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 12 1968

HELIOCENTRIC CONIC DISTANCE 604.180

RL 151.91 LAL -.00 LOL 260.37 VL 25.918 GAL 11.72 AZL 93.29 HCA 292.97 SMA 123.40 ECC .30407 INC 3.2863 V1 29.328
RP 107.86 LAP 3.03 LOP 193.37 VP 37.220 GAP 16.20 AZP 91.28 TAL 149.80 TAP 82.77 RCA 85.88 APO 160.92 V2 35.134
RC 170.755 GL -12.69 GP .89 ZAL 39.91 ZAP 176.46 ETS 12.89 ZAE 124.77 ETE 179.67 ZAC 69.10 ETC 13.18 CLP-176.58

PLANETOCENTRIC CONIC

C3 43.835 VHL 6.621 DLA -27.54 RAL 215.41 RAD 6568.7 VEL 12.853 PTH 2.34 VHP 10.194 DPA -3.08 RAP 196.97 ECC 1.7214

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 24 34	1277.48	8.83	347.37	94.03	117.01	13 45 52	677.5	12.38	340.49
90.00	15 21 15	897.43	19.51	324.60	98.92	110.94	15 36 12	297.4	22.18	316.94
100.00	14 4 53	1147.21	4.91	335.68	91.91	119.52	14 24 0	547.2	8.80	329.06
100.00	17 23 37	5790.97	23.70	275.10	100.55	108.78	19 0 8	5191.0	26.04	267.08
110.00	14 13 30	1120.11	-1.58	329.61	87.88	124.15	14 32 11	520.1	2.91	323.40
110.00	19 31 29	5390.83	31.00	247.22	103.06	105.19	21 1 20	4790.8	32.77	238.45

DIFFERENTIAL CORRECTIONS
TDE-3.0990 TRA 5.2966 TC3-1.6317 BAU .9564
ROE .4977 RRA -.0144 RC3 -.0306 FAU .00973
FDE -.9530 FRA 1.8681 FC3 -.1922 BSP 20129
BDE 3.1387 BRA 5.2966 BC3 1.6320 FSP -593

MID-COURSE EXECUTION ACCURACY
SGT 6211.4 SGR 432.8 SG3 174.3
RRT -.4241 RRF -.4243 RTF .9726
SGB 6226.4 R23 .0113 R13 -.9726
SG1 6214.1 SG2 391.8 THA 178.30

ORBIT DETERMINATION ACCURACY
ST 3098.6 SR 430.7 SS 871.6
CRT -.8703 CRS .8387 CST -.9980
LSA 3240.2 MSA 218.4 SSA 12.8
EL1 3121.3 EL2 210.6 ALF 173.07

LAUNCH DATE JUN 12 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 14 1968

HELIOCENTRIC CONIC DISTANCE 608.933

RL 151.91 LAL -.00 LOL 260.37 VL 25.886 GAL 12.66 AZL 93.27 HCA 296.19 SMA 123.21 ECC .31574 INC 3.2702 V1 29.328
RP 107.90 LAP 2.93 LOP 196.60 VP 37.186 GAP 17.01 AZP 91.44 TAL 148.71 TAP 84.91 RCA 84.30 APO 162.11 V2 35.122
RC 172.686 GL -11.87 GP .87 ZAL 38.46 ZAP 177.49 ETS 18.49 ZAE 124.50 ETE 179.66 ZAC 67.03 ETC 13.27 CLP-177.65

PLANETOCENTRIC CONIC

C3 49.064 VHL 7.005 DLA -27.18 RAL 217.07 RAD 6568.8 VEL 13.055 PTH 2.38 VHP 10.672 DPA -3.98 RAP 198.93 ECC 1.8075

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 19 7	1345.61	6.70	351.24	96.83	117.58	13 41 33	745.6	10.34	344.45
90.00	15 39 58	885.82	19.79	323.86	102.83	110.68	15 54 44	285.8	22.43	316.18
100.00	14 4 17	1199.69	3.14	338.58	94.87	119.74	14 24 17	599.7	7.08	332.00
100.00	17 37 29	5795.01	23.61	275.37	104.31	108.89	19 14 4	5195.0	25.97	267.36
110.00	14 16 2	1162.82	-3.21	331.84	90.93	124.05	14 35 24	562.8	1.28	325.63
110.00	19 42 14	5404.65	30.75	248.22	106.81	105.73	21 12 18	4804.6	32.60	239.49

DIFFERENTIAL CORRECTIONS
TDE-3.1669 TRA 5.7363 TC3-1.4205 BAU .9319
ROE .5228 RRA -.0339 RC3 -.0244 FAU .00797
FDE -.9278 FRA 1.9129 FC3 -.1406 BSP 20189
BDE 3.2097 BRA 5.7364 BC3 1.4207 FSP -566

MID-COURSE EXECUTION ACCURACY
SGT 6204.1 SGR 430.1 SG3 166.4
RRT -.4511 RRF -.4498 RTF .9739
SGB 6219.0 R23 .0098 R13 -.9739
SG1 6207.2 SG2 383.7 THA 178.20

ORBIT DETERMINATION ACCURACY
ST 3036.1 SR 427.7 SS 852.3
CRT -.8643 CRS .8333 CST -.9982
LSA 3174.7 MSA 220.5 SSA 12.3
EL1 3058.6 EL2 213.5 ALF 173.02

LAUNCH DATE JUN 12 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 16 1968

HELIOCENTRIC CONIC DISTANCE 613.491

RL 151.91 LAL -.00 LOL 260.37 VL 25.854 GAL 13.67 AZL 93.25 HCA 299.41 SMA 123.02 ECC .32855 INC 3.2533 V1 29.328
RP 107.94 LAP 2.83 LOP 199.82 VP 37.152 GAP 17.89 AZP 91.60 TAL 147.68 TAP 87.09 RCA 82.60 APO 163.43 V2 35.110
RC 174.603 GL -11.07 GP .85 ZAL 37.10 ZAP 178.47 ETS 31.97 ZAE 124.21 ETE 179.64 ZAC 64.97 ETC 13.39 CLP-178.73

PLANETOCENTRIC CONIC

C3 55.143 VHL 7.426 DLA -26.80 RAL 218.63 RAD 6569.0 VEL 13.285 PTH 2.43 VHP 11.194 DPA -4.86 RAP 200.88 ECC 1.9075

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 14 34	1410.39	4.65	354.89	99.60	117.96	13 38 4	810.4	8.35	348.17
90.00	15 56 57	879.03	19.95	323.43	106.63	110.52	16 11 36	279.0	22.57	315.73
100.00	14 3 24	1252.61	1.35	341.48	97.78	119.86	14 24 17	652.6	5.31	334.94
100.00	17 50 48	5800.08	23.50	275.70	108.00	109.03	19 27 28	5200.1	25.88	267.71
110.00	14 18 2	1206.69	-4.88	334.14	93.91	123.88	14 38 9	606.7	-.40	327.92
110.00	19 52 39	5418.77	30.48	249.24	110.49	106.27	21 22 58	4818.8	32.41	240.55

DIFFERENTIAL CORRECTIONS
TDE-3.2409 TRA 6.2082 TC3-1.2217 BAU .9008
ROE .5481 RRA -.0557 RC3 -.0195 FAU .00623
FDE -.9064 FRA 1.9619 FC3 -.0979 BSP 20228
BDE 3.2869 BRA 6.2085 BC3 1.2219 FSP -542

MID-COURSE EXECUTION ACCURACY
SGT 6192.4 SGR 426.6 SG3 159.0
RRT -.4783 RRF -.4754 RTF .9753
SGB 6207.1 R23 .0083 R13 -.9753
SG1 6195.8 SG2 374.4 THA 178.11

ORBIT DETERMINATION ACCURACY
ST 2974.6 SR 423.1 SS 836.4
CRT -.8586 CRS .8282 CST -.9983
LSA 3110.9 MSA 221.6 SSA 11.9
EL1 2996.8 EL2 215.3 ALF 173.00

LAUNCH DATE JUN 12 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 18 1968

HELIOCENTRIC CONIC DISTANCE 617.817

RL 151.91 LAL -.00 LOL 260.37 VL 25.822 GAL 14.77 AZL 93.24 HCA 302.63 SMA 122.83 ECC .34266 INC 3.2353 V1 29.328
RP 107.97 LAP 2.72 LOP 203.04 VP 37.119 GAP 18.84 AZP 91.75 TAL 146.69 TAP 89.33 RCA 80.74 APO 164.92 V2 35.097
RC 176.504 GL -10.29 GP .83 ZAL 35.83 ZAP 179.15 ETS 77.14 ZAE 123.90 ETE 179.62 ZAC 62.94 ETC 13.54 CLP-179.84

PLANETOCENTRIC CONIC

C3 62.245 VHL 7.890 DLA -26.41 RAL 220.08 RAD 6569.2 VEL 13.550 PTH 2.48 VHP 11.764 DPA -5.73 RAP 202.81 ECC 2.0244

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 10 26	1473.12	2.63	358.40	102.35	118.20	13 34 59	873.1	6.39	351.73
90.00	16 12 39	875.49	20.04	323.20	110.32	110.44	16 27 14	275.5	22.64	315.50
100.00	14 2 13	1305.88	-.46	344.41	100.63	119.89	14 23 59	705.9	3.52	337.88
100.00	18 3 33	5806.01	23.36	276.09	111.61	109.20	19 40 19	5206.0	25.77	268.12
110.00	14 19 32	1251.54	-6.58	336.50	96.84	123.62	14 40 23	651.5	-2.11	330.26
110.00	20 2 43	5433.12	30.20	250.26	114.10	106.82	21 33 16	4833.1	32.21	241.62

DIFFERENTIAL CORRECTIONS
TDE-3.3218 TRA 6.7154 TC3-1.0353 BAU .8616
ROE .5735 RRA -.0801 RC3 -.0157 FAU .00450
FDE -.8887 FRA 2.0157 FC3 -.0626 BSP 20264
BDE 3.3710 BRA 6.7158 BC3 1.0354 FSP -518

MID-COURSE EXECUTION ACCURACY
SGT 6175.5 SGR 422.3 SG3 152.1
RRT -.5054 RRF -.5012 RTF .9769
SGB 6189.9 R23 .0067 R13 -.9769
SG1 6179.2 SG2 364.2 THA 178.01

ORBIT DETERMINATION ACCURACY
ST 2913.8 SR 417.0 SS 823.8
CRT -.8532 CRS .8236 CST -.9984
LSA 3048.6 MSA 221.6 SSA 11.5
EL1 2935.6 EL2 215.9 ALF 173.00

LAUNCH DATE JUN 13 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 22 1967

HELIOCENTRIC CONIC DISTANCE 156.863

```
RL  151.93 LAL   -.00 LOL 261.32 VL  22.010 GAL   2.17 AZL  93.54 HCA  62.06 SMA 105.11 ECC .44674 INC 3.5362 V1  29.325
RP  108.93 LAP  -3.12 LOP 323.34 VP  34.265 GAP -26.46 AZP  91.66 TAL 177.30 TAP 239.37 RCA  58.15 APO 152.06 V2  34.790
RC  44.335 GL  -10.39 GP    -.64 ZAL  85.00 ZAP  15.14 ETS 178.10 ZAE 169.41 ETE 100.44 ZAC 106.53 ETC  15.12 CLP  15.13
```

PLANETOCENTRIC CONIC

```
C3  56.621 VHL  7.525 DLA  -8.10 RAL 172.55 RAD 6569.0 VEL 13.341 PTH   2.44 VHP 15.764 DPA  10.91 RAP 161.16 ECC 1.9318
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 30 4	2219.50	-19.69	41.79	49.47	110.77	7 7 3	1619.5	-16.69	34.40
90.00	16 25 57	5370.98	27.83	245.46	55.69	84.55	17 55 28	4771.0	26.78	236.95
100.00	7 47 29	1969.70	-21.05	22.86	48.91	111.73	8 20 19	1369.7	-17.91	15.47
100.00	17 51 12	5096.01	29.28	225.07	55.52	83.71	19 16 8	4496.0	28.10	216.47
110.00	8 46 49	1783.97	-24.68	7.09	47.23	114.44	9 16 33	1184.0	-21.17	359.70
110.00	19 8 23	4854.51	33.20	206.13	54.92	81.34	20 29 17	4254.5	31.65	197.25

DIFFERENTIAL CORRECTIONS

```
TDE  .4310 TRA -.9332 TC3  .0015 BAU  .0493
RDE -.5090 RRA -.2306 RC3  .0651 FAU .01810
FDE -.3143 FRA  .3815 FC3 -.2767 BSP   2115
BDE  .6670 BRA  .9613 BC3  .0651 FSP   -105
```

MID-COURSE EXECUTION ACCURACY

```
SGT  789.2 SGR  437.4 SG3   48.6
RRT  .0008 RRF -.0004 RTF -.6530
SGB  902.3 R23  .0004 R13 -.6530
SG1  789.2 SG2  437.4 THA    .04
```

ORBIT DETERMINATION ACCURACY

```
ST   392.5 SR   391.3 SS   347.7
CRT -.7537 CRS -.8814 CST  .9729
LSA  623.4 MSA  197.9 SSA   14.6
EL1  519.0 EL2  194.5 ALF 135.12
```

LAUNCH DATE JUN 13 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 24 1967

HELIOCENTRIC CONIC DISTANCE 163.360

```
RL  151.93 LAL   -.00 LOL 261.32 VL  22.455 GAL   2.01 AZL  93.52 HCA  65.22 SMA 106.78 ECC .42395 INC 3.5161 V1  29.325
RP  108.92 LAP  -3.19 LOP 326.50 VP  34.557 GAP -25.06 AZP  91.47 TAL 177.27 TAP 242.49 RCA  61.51 APO 152.05 V2  34.793
RC  43.707 GL  -11.20 GP    -.67 ZAL  85.09 ZAP  13.48 ETS 177.59 ZAE 169.30 ETE  86.65 ZAC 105.08 ETC  14.94 CLP  13.47
```

PLANETOCENTRIC CONIC

```
C3  50.217 VHL  7.086 DLA  -8.81 RAL 172.16 RAD 6568.8 VEL 13.099 PTH   2.39 VHP 14.987 DPA  10.33 RAP 162.57 ECC 1.8264
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 34 7	2166.72	-18.38	38.47	46.95	111.93	7 10 14	1566.7	-15.24	31.20
90.00	16 18 44	5364.35	27.79	244.98	53.37	84.31	17 48 8	4764.3	26.71	236.48
100.00	7 51 10	1918.14	-19.71	19.61	46.36	112.94	8 23 8	1318.1	-16.44	12.35
100.00	17 44 22	5088.15	29.22	224.50	53.20	83.41	19 9 10	4488.2	28.00	215.90
110.00	8 49 38	1735.07	-23.27	3.99	44.64	115.78	9 18 33	1135.1	-19.61	356.76
110.00	19 2 23	4843.99	33.09	205.33	52.57	80.88	20 23 7	4244.0	31.48	196.48

DIFFERENTIAL CORRECTIONS

```
TDE  .4318 TRA -.9120 TC3  .0220 BAU  .0516
RDE -.4818 RRA -.2165 RC3  .0737 FAU .01886
FDE -.3325 FRA  .3867 FC3 -.3252 BSP   2245
BDE  .6470 BRA  .9373 BC3  .0769 FSP   -118
```

MID-COURSE EXECUTION ACCURACY

```
SGT  824.4 SGR  440.5 SG3   53.6
RRT -.0016 RRF  .0020 RTF -.6733
SGB  934.7 R23 -.0004 R13  .6733
SG1  824.4 SG2  440.5 THA 179.93
```

ORBIT DETERMINATION ACCURACY

```
ST   414.7 SR   393.2 SS   369.6
CRT -.7611 CRS -.8878 CST  .9725
LSA  650.5 MSA  199.4 SSA   15.0
EL1  536.4 EL2  197.2 ALF 137.01
```

LAUNCH DATE JUN 13 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 26 1967

HELIOCENTRIC CONIC DISTANCE 169.900

```
RL  151.93 LAL   -.00 LOL 261.32 VL  22.867 GAL   1.82 AZL  93.50 HCA  68.39 SMA 108.41 ECC .40243 INC 3.4971 V1  29.325
RP  108.90 LAP  -3.25 LOP 329.67 VP  34.830 GAP -23.73 AZP  91.29 TAL 177.29 TAP 245.68 RCA  64.78 APO 152.04 V2  34.797
RC  43.245 GL  -12.04 GP    -.70 ZAL  85.30 ZAP  11.82 ETS 176.94 ZAE 168.63 ETE  73.38 ZAC 103.64 ETC  14.76 CLP  11.80
```

PLANETOCENTRIC CONIC

```
C3  44.635 VHL  6.681 DLA  -9.51 RAL 171.63 RAD 6568.7 VEL 12.884 PTH   2.35 VHP 14.242 DPA   9.73 RAP 163.96 ECC 1.7346
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 37 32	2114.68	-17.03	35.25	44.37	112.97	7 12 47	1514.7	-13.77	28.09
90.00	16 11 6	5357.37	27.74	244.48	50.92	84.06	17 40 23	4757.4	26.63	235.99
100.00	7 54 13	1867.32	-18.34	16.47	43.77	114.03	8 25 20	1267.3	-14.93	9.33
100.00	17 37 7	5079.96	29.16	223.90	50.74	83.10	19 1 47	4480.0	27.90	215.32
110.00	8 51 50	1686.87	-21.81	1.01	42.00	117.00	9 19 57	1086.9	-18.01	353.94
110.00	18 55 58	4833.17	32.97	204.51	50.10	80.41	20 16 32	4233.2	31.29	195.69

DIFFERENTIAL CORRECTIONS

```
TDE  .4338 TRA -.8894 TC3  .0481 BAU  .0572
RDE -.4557 RRA -.2028 RC3  .0830 FAU .01971
FDE -.3524 FRA  .3907 FC3 -.3824 BSP   2393
BDE  .6292 BRA  .9122 BC3  .0959 FSP   -133
```

MID-COURSE EXECUTION ACCURACY

```
SGT  860.6 SGR  442.8 SG3   59.1
RRT -.0050 RRF  .0051 RTF -.6931
SGB  967.8 R23 -.0004 R13  .6931
SG1  860.6 SG2  442.8 THA 179.80
```

ORBIT DETERMINATION ACCURACY

```
ST   438.5 SR   394.4 SS   392.9
CRT -.7698 CRS -.8947 CST  .9722
LSA  679.6 MSA  200.0 SSA   15.3
EL1  555.2 EL2  198.8 ALF 138.93
```

LAUNCH DATE JUN 13 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 28 1967

HELIOCENTRIC CONIC DISTANCE 176.479

```
RL  151.93 LAL   -.00 LOL 261.32 VL  23.248 GAL   1.62 AZL  93.48 HCA  71.55 SMA 109.99 ECC .38217 INC 3.4788 V1  29.325
RP  108.89 LAP  -3.30 LOP 332.84 VP  35.085 GAP -22.46 AZP  91.10 TAL 177.37 TAP 248.92 RCA  67.96 APO 152.03 V2  34.801
RC  42.956 GL  -12.92 GP    -.74 ZAL  85.64 ZAP  10.15 ETS 176.09 ZAE 167.46 ETE  61.77 ZAC 102.21 ETC  14.60 CLP  10.12
```

PLANETOCENTRIC CONIC

```
C3  39.772 VHL  6.306 DLA -10.18 RAL 170.96 RAD 6568.5 VEL 12.694 PTH   2.31 VHP 13.528 DPA   9.14 RAP 165.35 ECC 1.6545
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 40 17	2063.69	-15.64	32.15	41.74	113.91	7 14 41	1463.7	-12.28	25.08
90.00	16 3 4	5350.19	27.69	243.96	48.36	83.81	17 32 14	4750.2	26.54	235.48
100.00	7 56 35	1817.52	-16.93	13.44	41.13	115.01	8 26 53	1217.5	-13.42	6.41
100.00	17 29 27	5071.58	29.09	223.28	48.17	82.79	18 53 58	4471.6	27.78	214.72
110.00	8 53 23	1639.68	-20.32	358.16	39.34	118.10	9 20 43	1039.7	-16.41	351.22
110.00	18 49 8	4822.19	32.84	203.68	47.51	79.93	20 9 31	4222.2	31.10	194.89

DIFFERENTIAL CORRECTIONS

```
TDE  .4362 TRA -.8656 TC3  .0800 BAU  .0652
RDE -.4307 RRA -.1896 RC3  .0929 FAU .02067
FDE -.3738 FRA  .3938 FC3 -.4499 BSP   2540
BDE  .6130 BRA  .8862 BC3  .1226 FSP   -150
```

MID-COURSE EXECUTION ACCURACY

```
SGT  897.6 SGR  444.4 SG3   65.2
RRT -.0085 RRF  .0082 RTF -.7120
SGB 1001.6 R23 -.0002 R13  .7120
SG1  897.6 SG2  444.3 THA 179.68
```

ORBIT DETERMINATION ACCURACY

```
ST   463.2 SR   394.8 SS   417.3
CRT -.7791 CRS -.9015 CST  .9721
LSA  710.2 MSA  199.9 SSA   15.7
EL1  575.0 EL2  199.3 ALF 140.82
```

LAUNCH DATE JUN 13 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 30 1967

HELIOCENTRIC CONIC DISTANCE 183.090

RL	151.93	LAL	-.00	LOL	261.32	VL	23.600	GAL	1.42	AZL	93.46	HCA	74.72	SMA	111.51	ECC	.36314	INC	3.4613	V1	29.325
RP	108.87	LAP	-3.34	LOP	336.01	VP	35.325	GAP	-21.25	AZP	90.91	TAL	177.52	TAP	252.23	RCA	71.02	APO	152.01	V2	34.806
RC	42.841	GL	-13.82	GP	-.77	ZAL	86.11	ZAP	8.47	ETS	174.92	ZAE	165.90	ETE	52.23	ZAC	100.79	ETC	14.45	CLP	8.44

PLANETOCENTRIC CONIC

C3	35.537	VHL	5.961	DLA	-10.82	RAL	170.17	RAD	6568.4	VEL	12.526	PTH	2.27	VHP	12.844	DPA	8.53	RAP	166.71	ECC	1.5848

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 42 21	2014.05	-14.25	29.17	39.07	114.73	7 15 55	1414.1	-10.80	22.19
90.00	15 54 39	5342.92	27.63	243.44	45.70	83.55	17 23 42	4742.9	26.45	234.97
100.00	7 58 17	1769.08	-15.51	10.54	38.45	115.88	8 27 46	1169.1	-11.90	3.61
100.00	17 21 24	5063.13	29.01	222.66	45.50	82.47	18 45 47	4463.1	27.67	214.12
110.00	8 54 16	1593.77	-18.83	355.44	36.65	119.07	9 20 50	993.8	-14.81	348.62
110.00	18 41 55	4811.20	32.71	202.85	44.82	79.46	20 2 6	4211.2	30.91	194.09

DIFFERENTIAL CORRECTIONS

TDE	.4375	TRA	-.8429	TC3	.1165	BAU	.0740
RDE	-.4069	RRA	-.1769	RC3	.1034	FAU	.02172
FDE	-.3972	FRA	.3959	FC3	-.5291	BSP	2649
BDE	.5975	BRA	.8613	BC3	.1558	FSP	-168

MID-COURSE EXECUTION ACCURACY

SGT	936.2	SGR	445.1	SG3	72.0		
RRT	-.0109	RRF	.0120	RTF	-.7280		
SGB	1036.6	R23	-.0018	R13	.7280		
SG1	936.2	SG2	445.0	THA	179.62		

ORBIT DETERMINATION ACCURACY

ST	487.9	SR	394.5	SS	443.3
CRT	-.7874	CRS	-.9085	CST	.9715
LSA	741.7	MSA	199.5	SSA	16.1
EL1	594.9	EL2	199.4	ALF	142.61

LAUNCH DATE JUN 13 1967 FLIGHT TIME 80.00 ARRIVAL DATE SEP 1 1967

HELIOCENTRIC CONIC DISTANCE 189.730

RL	151.93	LAL	-.00	LOL	261.32	VL	23.925	GAL	1.20	AZL	93.44	HCA	77.88	SMA	112.98	ECC	.34531	INC	3.4442	V1	29.325
RP	108.86	LAP	-3.37	LOP	339.18	VP	35.548	GAP	-20.10	AZP	90.72	TAL	177.72	TAP	255.60	RCA	73.97	APO	151.99	V2	34.812
RC	42.900	GL	-14.75	GP	-.82	ZAL	86.72	ZAP	6.78	ETS	173.16	ZAE	164.10	ETE	44.63	ZAC	99.38	ETC	14.31	CLP	6.73

PLANETOCENTRIC CONIC

C3	31.851	VHL	5.644	DLA	-11.43	RAL	169.24	RAD	6568.3	VEL	12.378	PTH	2.23	VHP	12.188	DPA	7.93	RAP	168.06	ECC	1.5242

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 43 42	1966.11	-12.87	26.33	36.37	115.44	7 16 28	1366.1	-9.34	19.43
90.00	15 45 54	5335.64	27.58	242.91	42.95	83.29	17 14 50	4735.6	26.36	234.45
100.00	7 59 16	1722.29	-14.10	7.78	35.75	116.63	8 27 59	1122.3	-10.41	.93
100.00	17 13 1	5054.69	28.94	222.05	42.75	82.15	18 37 15	4454.7	27.55	213.52
110.00	8 54 28	1549.46	-17.34	352.86	33.94	119.93	9 20 17	949.5	-13.23	346.16
110.00	18 34 19	4800.29	32.57	202.03	42.05	78.99	19 54 19	4200.3	30.71	193.30

DIFFERENTIAL CORRECTIONS

TDE	.4413	TRA	-.8167	TC3	.1624	BAU	.0846
RDE	-.3843	RRA	-.1648	RC3	.1143	FAU	.02291
FDE	-.4230	FRA	.3962	FC3	-.6228	BSP	2802
BDE	.5852	BRA	.8332	BC3	.1986	FSP	-190

MID-COURSE EXECUTION ACCURACY

SGT	974.7	SGR	444.9	SG3	79.5		
RRT	-.0156	RRF	.0167	RTF	-.7452		
SGB	1071.4	R23	-.0020	R13	.7452		
SG1	974.7	SG2	444.9	THA	179.48		

ORBIT DETERMINATION ACCURACY

ST	514.9	SR	393.5	SS	471.0
CRT	-.7984	CRS	-.9157	CST	.9716
LSA	776.2	MSA	197.7	SSA	16.4
EL1	617.2	EL2	197.7	ALF	144.41

LAUNCH DATE JUN 13 1967 FLIGHT TIME 82.00 ARRIVAL DATE SEP 3 1967

HELIOCENTRIC CONIC DISTANCE 196.394

RL	151.93	LAL	-.00	LOL	261.32	VL	24.224	GAL	.99	AZL	93.43	HCA	81.05	SMA	114.38	ECC	.32866	INC	3.4275	V1	29.325
RP	108.84	LAP	-3.39	LOP	342.35	VP	35.757	GAP	-18.99	AZP	90.53	TAL	177.98	TAP	259.03	RCA	76.79	APO	151.97	V2	34.819
RC	43.133	GL	-15.70	GP	-.86	ZAL	87.44	ZAP	5.08	ETS	170.21	ZAE	162.15	ETE	38.60	ZAC	97.99	ETC	14.19	CLP	5.01

PLANETOCENTRIC CONIC

C3	28.647	VHL	5.352	DLA	-12.01	RAL	168.19	RAD	6568.2	VEL	12.248	PTH	2.20	VHP	11.559	DPA	7.32	RAP	169.38	ECC	1.4715

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 44 19	1920.16	-11.51	23.64	33.64	116.05	7 16 19	1320.2	-7.91	16.80
90.00	15 36 52	5328.41	27.52	242.39	40.13	83.04	17 5 40	4728.4	26.27	233.95
100.00	7 59 32	1677.47	-12.72	5.17	33.02	117.28	8 27 30	1077.5	-8.96	358.40
100.00	17 4 19	5046.34	28.86	221.44	39.93	81.84	18 28 26	4446.3	27.43	212.93
110.00	8 53 58	1507.03	-15.89	350.43	31.21	120.67	9 19 5	907.0	-11.70	343.83
110.00	18 26 23	4789.54	32.42	201.22	39.21	78.53	19 46 13	4189.5	30.51	192.53

DIFFERENTIAL CORRECTIONS

TDE	.4456	TRA	-.7903	TC3	.2153	BAU	.0954
RDE	-.3630	RRA	-.1532	RC3	.1254	FAU	.02424
FDE	-.4515	FRA	.3953	FC3	-.7327	BSP	2941
BDE	.5747	BRA	.8050	BC3	.2492	FSP	-213

MID-COURSE EXECUTION ACCURACY

SGT	1014.3	SGR	443.9	SG3	87.9		
RRT	-.0209	RRF	.0221	RTF	-.7609		
SGB	1107.2	R23	-.0024	R13	.7610		
SG1	1014.3	SG2	443.8	THA	179.35		

ORBIT DETERMINATION ACCURACY

ST	543.1	SR	391.8	SS	500.4
CRT	-.8096	CRS	-.9230	CST	.9718
LSA	812.6	MSA	195.4	SSA	16.8
EL1	640.7	EL2	194.9	ALF	146.16

LAUNCH DATE JUN 13 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 5 1967

HELIOCENTRIC CONIC DISTANCE 203.078

RL	151.93	LAL	-.00	LOL	261.32	VL	24.500	GAL	.77	AZL	93.41	HCA	84.22	SMA	115.72	ECC	.31313	INC	3.4111	V1	29.325
RP	108.81	LAP	-3.39	LOP	345.53	VP	35.951	GAP	-17.93	AZP	90.34	TAL	178.30	TAP	262.52	RCA	79.49	APO	151.96	V2	34.826
RC	43.534	GL	-16.65	GP	-.91	ZAL	88.29	ZAP	3.38	ETS	164.21	ZAE	160.15	ETE	33.79	ZAC	96.63	ETC	14.07	CLP	3.26

PLANETOCENTRIC CONIC

C3	25.865	VHL	5.086	DLA	-12.55	RAL	167.01	RAD	6568.0	VEL	12.134	PTH	2.17	VHP	10.955	DPA	6.72	RAP	170.67	ECC	1.4257

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 44 11	1876.53	-10.19	21.11	30.89	116.56	7 15 27	1276.5	-6.55	14.33
90.00	15 27 36	5321.24	27.46	241.87	37.26	82.79	16 56 17	4721.2	26.17	233.44
100.00	7 59 4	1634.92	-11.38	2.73	30.27	117.83	8 26 19	1034.9	-7.57	356.01
100.00	16 55 24	5038.09	28.78	220.84	37.06	81.54	18 19 22	4438.1	27.31	212.35
110.00	8 52 46	1466.77	-14.47	348.17	28.47	121.31	9 17 12	866.8	-10.22	341.65
110.00	18 18 12	4779.00	32.28	200.44	36.33	78.09	19 37 51	4179.0	30.30	191.78

DIFFERENTIAL CORRECTIONS

TDE	.4507	TRA	-.7622	TC3	.2779	BAU	.1071
RDE	-.3429	RRA	-.1421	RC3	.1366	FAU	.02575
FDE	-.4829	FRA	.3927	FC3	-.8620	BSP	3096
BDE	.5663	BRA	.7753	BC3	.3097	FSP	-239

MID-COURSE EXECUTION ACCURACY

SGT	1054.3	SGR	442.1	SG3	97.4		
RRT	-.0269	RRF	.0280	RTF	-.7766		
SGB	1143.3	R23	-.0026	R13	.7766		
SG1	1054.4	SG2	441.9	THA	179.21		

ORBIT DETERMINATION ACCURACY

ST	572.3	SR	389.4	SS	531.4
CRT	-.8216	CRS	-.9301	CST	.9722
LSA	851.1	MSA	192.2	SSA	17.2
EL1	665.4	EL2	190.9	ALF	147.83

LAUNCH DATE JUN 13 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 7 1967

HELIOCENTRIC CONIC DISTANCE 209.777

RL 151.93 LAL -.00 LOL 261.32 VL 24.754 GAL .56 AZL 93.39 HCA 87.39 SMA 117.00 ECC .29870 INC 3.3949 V1 29.325
RP 108.79 LAP -3.39 LOP 348.70 VP 36.132 GAP -16.92 AZP 90.15 TAL 178.68 TAP 266.06 RCA 82.05 APO 151.95 V2 34.834
RC 44.099 GL -17.62 GP -.97 ZAL 89.24 ZAP 1.76 ETS 146.36 ZAE 158.18 ETE 29.88 ZAC 95.31 ETC 13.97 CLP 1.47

PLANETOCENTRIC CONIC

C3 23.452 VHL 4.843 DLA -13.04 RAL 165.72 RAD 6568.0 VEL 12.035 PTH 2.15 VHP 10.376 DPA 6.12 RAP 171.92 ECC 1.3860

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 43 17	1835.52	-8.93	18.75	28.14	116.98	7 13 53	1235.5	-5.25	12.02
90.00	15 18 11	5314.12	27.39	241.36	34.36	82.54	16 46 45	4714.1	26.08	232.94
100.00	7 57 51	1594.92	-10.10	.45	27.52	118.29	8 24 26	994.9	-6.24	353.78
100.00	16 46 18	5029.94	28.69	220.25	34.15	81.24	18 10 8	4429.9	27.18	211.77
110.00	8 50 51	1428.93	-13.12	346.07	25.74	121.85	9 14 40	828.9	-8.82	339.61
110.00	18 9 47	4768.70	32.13	199.67	33.41	77.66	19 29 16	4168.7	30.10	191.05

DIFFERENTIAL CORRECTIONS
TDE .4562 TRA -.7337 TC3 .3485 BAU .1187
ROE -.3241 RRA -.1317 RC3 .1476 FAU .02745
FDE -.5169 FRA .3897 FC3-1.0132 BSP 3272
BDE .5596 BRA .7454 BC3 .3784 FSP -269

MID-COURSE EXECUTION ACCURACY
SGT 1095.1 SGR 439.4 SG3 107.9
RRT -.0337 RRF .0338 RTF -.7916
SGB 1179.9 R23 -.0020 R13 .7916
SG1 1095.2 SG2 439.1 THA 179.08

ORBIT DETERMINATION ACCURACY
ST 602.4 SR 386.5 SS 563.4
CRT -.8337 CRS -.9369 CST .9728
LSA 890.9 MSA 188.6 SSA 17.6
EL1 691.1 EL2 186.0 ALF 149.40

LAUNCH DATE JUN 13 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 9 1967

HELIOCENTRIC CONIC DISTANCE 216.487

RL 151.93 LAL -.00 LOL 261.32 VL 24.987 GAL .35 AZL 93.38 HCA 90.56 SMA 118.21 ECC .28533 INC 3.3787 V1 29.325
RP 108.76 LAP -3.38 LOP 351.88 VP 36.300 GAP -15.95 AZP 89.97 TAL 179.11 TAP 269.67 RCA 84.48 APO 151.94 V2 34.842
RC 44.820 GL -18.58 GP -1.03 ZAL 90.30 ZAP 1.09 ETS 70.82 ZAE 156.27 ETE 26.67 ZAC 94.02 ETC 13.89 CLP -.35

PLANETOCENTRIC CONIC

C3 21.363 VHL 4.622 DLA -13.49 RAL 164.32 RAD 6567.9 VEL 11.948 PTH 2.13 VHP 9.822 DPA 5.52 RAP 173.14 ECC 1.3516

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 41 38	1797.38	-7.75	16.58	25.39	117.32	7 11 36	1197.4	-4.03	9.87
90.00	15 8 42	5306.99	27.33	240.85	31.44	82.29	16 37 9	4707.0	25.98	232.44
100.00	7 55 55	1557.74	-8.89	358.35	24.78	118.66	8 21 53	957.7	-5.00	351.72
100.00	16 37 7	5021.86	28.61	219.66	31.23	80.94	18 0 49	4421.9	27.06	211.20
110.00	8 48 16	1393.75	-11.85	344.13	23.01	122.30	9 11 30	793.8	-7.50	337.74
110.00	18 1 15	4758.62	31.98	198.92	30.48	77.24	19 20 34	4158.6	29.90	190.33

DIFFERENTIAL CORRECTIONS
TDE .4557 TRA -.7060 TC3 .4147 BAU .1268
ROE -.3066 RRA -.1218 RC3 .1580 FAU .02926
FDE -.5538 FRA .3828 FC3-1.1859 BSP 3356
BDE .5492 BRA .7165 BC3 .4438 FSP -301

MID-COURSE EXECUTION ACCURACY
SGT 1129.7 SGR 435.8 SG3 119.4
RRT -.0383 RRF .0414 RTF -.7987
SGB 1210.8 R23 -.0055 R13 .7987
SG1 1129.8 SG2 435.4 THA 179.01

ORBIT DETERMINATION ACCURACY
ST 626.2 SR 382.9 SS 596.3
CRT -.8426 CRS -.9437 CST .9720
LSA 927.0 MSA 186.2 SSA 18.1
EL1 711.2 EL2 181.6 ALF 150.64

LAUNCH DATE JUN 13 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 11 1967

HELIOCENTRIC CONIC DISTANCE 223.204

RL 151.93 LAL -.00 LOL 261.32 VL 25.201 GAL .15 AZL 93.36 HCA 93.73 SMA 119.35 ECC .27297 INC 3.3626 V1 29.325
RP 108.74 LAP -3.36 LOP 355.06 VP 36.456 GAP -15.02 AZP 89.78 TAL 179.60 TAP 273.32 RCA 86.77 APO 151.93 V2 34.851
RC 45.690 GL -19.53 GP -1.11 ZAL 91.46 ZAP 2.48 ETS 26.03 ZAE 154.48 ETE 23.99 ZAC 92.77 ETC 13.81 CLP -2.22

PLANETOCENTRIC CONIC

C3 19.557 VHL 4.422 DLA -13.89 RAL 162.84 RAD 6567.8 VEL 11.872 PTH 2.11 VHP 9.290 DPA 4.93 RAP 174.31 ECC 1.3219

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 39 15	1762.37	-6.65	14.59	22.66	117.59	7 8 37	1162.4	-2.90	7.91
90.00	14 59 16	5299.78	27.26	240.33	28.53	82.04	16 27 36	4699.8	25.88	231.94
100.00	7 53 15	1523.61	-7.77	356.43	22.05	118.96	8 18 38	923.6	-3.85	349.84
100.00	16 27 57	5013.78	28.52	219.08	28.31	80.64	17 51 31	4413.8	26.93	210.64
110.00	8 45 1	1361.43	-10.67	342.38	20.30	122.67	9 7 43	761.4	-6.29	336.02
110.00	17 52 40	4748.72	31.83	198.19	27.55	76.83	19 11 48	4148.7	29.69	189.63

DIFFERENTIAL CORRECTIONS
TDE .4646 TRA -.6746 TC3 .5023 BAU .1384
ROE -.2904 RRA -.1126 RC3 .1675 FAU .03136
FDE -.5965 FRA .3761 FC3-1.3882 BSP 3522
BDE .5479 BRA .6839 BC3 .5295 FSP -341

MID-COURSE EXECUTION ACCURACY
SGT 1170.6 SGR 431.3 SG3 132.6
RRT -.0502 RRF .0505 RTF -.8139
SGB 1247.5 R23 -.0032 R13 .8139
SG1 1170.8 SG2 430.7 THA 178.77

ORBIT DETERMINATION ACCURACY
ST 659.9 SR 378.9 SS 632.7
CRT -.8567 CRS -.9502 CST .9735
LSA 972.8 MSA 181.0 SSA 18.5
EL1 740.8 EL2 174.1 ALF 152.14

LAUNCH DATE JUN 13 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 13 1967

HELIOCENTRIC CONIC DISTANCE 229.926

RL 151.93 LAL -.00 LOL 261.32 VL 25.398 GAL -.04 AZL 93.35 HCA 96.90 SMA 120.43 ECC .26158 INC 3.3463 V1 29.325
RP 108.71 LAP -3.32 LOP 358.24 VP 36.601 GAP -14.12 AZP 89.60 TAL 180.13 TAP 277.03 RCA 88.93 APO 151.93 V2 34.860
RC 46.700 GL -20.45 GP -1.19 ZAL 92.69 ZAP 4.32 ETS 15.46 ZAE 152.85 ETE 21.71 ZAC 91.58 ETC 13.75 CLP -4.15

PLANETOCENTRIC CONIC

C3 17.997 VHL 4.242 DLA -14.24 RAL 161.28 RAD 6567.7 VEL 11.806 PTH 2.09 VHP 8.780 DPA 4.36 RAP 175.42 ECC 1.2962

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 36 7	1730.67	-5.65	12.80	19.96	117.79	7 4 58	1130.7	-1.88	6.14
90.00	14 49 58	5292.40	27.19	239.80	25.64	81.78	16 18 10	4692.4	25.78	231.42
100.00	7 49 53	1492.68	-6.75	354.71	19.36	119.19	8 14 45	892.7	-2.80	348.14
100.00	16 18 53	5005.62	28.43	218.49	25.42	80.35	17 42 19	4405.6	26.80	210.07
110.00	8 41 9	1332.11	-9.59	340.79	17.63	122.97	9 3 21	732.1	-5.18	334.48
110.00	17 44 7	4738.96	31.68	197.47	24.65	76.43	19 3 6	4139.0	29.49	188.95

DIFFERENTIAL CORRECTIONS
TDE .4723 TRA -.6003 TC3 .6365 BAU .1588
ROE -.2755 RRA -.1047 RC3 .1749 FAU .03466
FDE -.6493 FRA .3217 FC3-1.6673 BSP 3938
BDE .5468 BRA .6094 BC3 .6601 FSP -407

MID-COURSE EXECUTION ACCURACY
SGT 1182.5 SGR 426.3 SG3 148.9
RRT -.0696 RRF .0693 RTF -.8332
SGB 1257.0 R23 -.0027 R13 .8333
SG1 1182.9 SG2 425.1 THA 178.35

ORBIT DETERMINATION ACCURACY
ST 685.7 SR 374.6 SS 673.8
CRT -.8808 CRS -.9622 CST .9751
LSA 1017.6 MSA 169.2 SSA 19.0
EL1 765.0 EL2 159.0 ALF 153.04

LAUNCH DATE JUN 13 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 15 1967

HELIOCENTRIC CONIC DISTANCE 236.648

RL 151.93 LAL -.00 LOL 261.32 VL 25.577 GAL -.23 AZL 93.33 HCA 100.08 SMA 121.44 ECC .25113 INC 3.3297 V1 29.325
RP 108.68 LAP -3.28 LOP 1.42 VP 36.736 GAP -13.26 AZP 89.42 TAL 180.70 TAP 280.77 RCA 90.94 APO 151.93 V2 34.870
RC 47.841 GL -21.35 GP -1.28 ZAL 93.98 ZAP 6.27 ETS 11.17 ZAE 151.39 ETE 19.75 ZAC 90.45 ETC 13.70 CLP -6.14

PLANETOCENTRIC CONIC

C3 16.653 VHL 4.081 DLA -14.53 RAL 159.67 RAD 6567.7 VEL 11.749 PTH 2.07 VHP 8.292 DPA 3.79 RAP 176.47 ECC 1.2741

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 32 19	1702.40	-4.75	11.21	17.30	117.95	7 0 42	1102.4	-.97	4.57
90.00	14 40 55	5284.77	27.12	239.26	22.79	81.52	16 8 59	4684.8	25.66	230.89
100.00	7 45 52	1465.08	-5.83	353.17	16.70	119.37	8 10 18	865.1	-1.87	346.62
100.00	16 10 2	4997.32	28.33	217.89	22.57	80.05	17 33 20	4397.3	26.67	209.49
110.00	8 36 42	1305.88	-8.61	339.39	15.00	123.21	8 58 28	705.9	-4.18	333.10
110.00	17 35 42	4729.28	31.52	196.76	21.79	76.03	18 54 32	4129.3	29.28	188.27

DIFFERENTIAL CORRECTIONS
TDE .4788 TRA -.6092 TC3 .7059 BAU .1623
RDE -.2617 RRA -.0960 RC3 .1818 FAU .03674
FDE -.7010 FRA .3486 FC3-1.9098 BSP 3882
BDE .5457 BRA .6167 BC3 .7289 FSP -439

MID-COURSE EXECUTION ACCURACY
SGT 1250.8 SGR 419.9 SG3 165.2
RRT -.0733 RRF .0747 RTF -.8391
SGB 1319.5 R23 -.0054 R13 .8392
SG1 1251.3 SG2 418.7 THA 178.41

ORBIT DETERMINATION ACCURACY
ST 722.9 SR 369.8 SS 714.2
CRT -.8823 CRS -.9631 CST .9751
LSA 1067.5 MSA 171.6 SSA 19.2
EL1 796.4 EL2 158.0 ALF 154.64

LAUNCH DATE JUN 13 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 17 1967

HELIOCENTRIC CONIC DISTANCE 243.369

RL 151.93 LAL -.00 LOL 261.32 VL 25.741 GAL -.41 AZL 93.31 HCA 103.26 SMA 122.38 ECC .24156 INC 3.3129 V1 29.325
RP 108.64 LAP -3.22 LOP 4.60 VP 36.860 GAP -12.43 AZP 89.24 TAL 181.30 TAP 284.55 RCA 92.82 APO 151.94 V2 34.881
RC 49.103 GL -22.20 GP -1.38 ZAL 95.31 ZAP 8.31 ETS 8.88 ZAE 150.13 ETE 18.05 ZAC 89.39 ETC 13.66 CLP -8.20

PLANETOCENTRIC CONIC

C3 15.497 VHL 3.937 DLA -14.77 RAL 158.02 RAD 6567.6 VEL 11.700 PTH 2.06 VHP 7.826 DPA 3.25 RAP 177.46 ECC 1.2550

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 27 54	1677.64	-3.96	9.82	14.69	118.06	6 55 52	1077.6	-.17	3.19
90.00	14 32 12	5276.80	27.04	238.69	20.01	81.24	16 0 9	4676.8	25.55	230.34
100.00	7 41 17	1440.87	-5.02	351.83	14.11	119.51	8 5 18	840.9	-1.05	345.29
100.00	16 1 30	4988.80	28.23	217.28	19.78	79.74	17 24 39	4388.8	26.52	208.89
110.00	8 31 45	1282.80	-7.75	338.16	12.43	123.40	8 53 8	682.8	-3.30	331.89
110.00	17 27 32	4719.63	31.36	196.05	18.99	75.64	18 46 11	4119.6	29.07	187.60

DIFFERENTIAL CORRECTIONS
TDE .4807 TRA -.5790 TC3 .8077 BAU .1717
RDE -.2490 RRA -.0885 RC3 .1859 FAU .03990
FDE -.7594 FRA .3332 FC3-2.2287 BSP 3969
BDE .5414 BRA .5858 BC3 .8288 FSP -495

MID-COURSE EXECUTION ACCURACY
SGT 1285.9 SGR 413.0 SG3 184.3
RRT -.0836 RRF .0873 RTF -.8479
SGB 1350.6 R23 -.0084 R13 .8480
SG1 1286.4 SG2 411.3 THA 178.29

ORBIT DETERMINATION ACCURACY
ST 747.2 SR 364.7 SS 755.0
CRT -.8920 CRS -.9684 CST .9752
LSA 1110.2 MSA 168.5 SSA 19.5
EL1 817.7 EL2 150.6 ALF 155.59

LAUNCH DATE JUN 13 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 19 1967

HELIOCENTRIC CONIC DISTANCE 250.084

RL 151.93 LAL -.00 LOL 261.32 VL 25.891 GAL -.58 AZL 93.30 HCA 106.44 SMA 123.26 ECC .23282 INC 3.2955 V1 29.325
RP 108.61 LAP -3.16 LOP 7.78 VP 36.975 GAP -11.63 AZP 89.07 TAL 181.92 TAP 288.36 RCA 94.56 APO 151.95 V2 34.891
RC 50.476 GL -23.00 GP -1.49 ZAL 96.68 ZAP 10.44 ETS 7.46 ZAE 149.08 ETE 16.54 ZAC 88.42 ETC 13.63 CLP -10.34

PLANETOCENTRIC CONIC

C3 14.503 VHL 3.808 DLA -14.95 RAL 156.36 RAD 6567.6 VEL 11.657 PTH 2.05 VHP 7.380 DPA 2.72 RAP 178.36 ECC 1.2387

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 22 56	1656.38	-3.27	8.63	12.17	118.14	6 50 32	1056.4	.51	2.00
90.00	14 23 56	5268.40	26.95	238.09	17.30	80.96	15 51 45	4668.4	25.42	229.75
100.00	7 36 11	1420.03	-4.32	350.68	11.59	119.61	7 59 51	820.0	-.34	344.15
100.00	15 53 22	4979.98	28.12	216.65	17.07	79.42	17 16 22	4380.0	26.37	208.28
110.00	8 26 22	1262.84	-7.00	337.10	9.94	123.54	8 47 25	662.8	-2.54	330.85
110.00	17 19 41	4709.94	31.19	195.34	16.28	75.26	18 38 11	4109.9	28.86	186.92

DIFFERENTIAL CORRECTIONS
TDE .4838 TRA -.5458 TC3 .9084 BAU .1798
RDE -.2375 RRA -.0817 RC3 .1875 FAU .04336
FDE -.8254 FRA .3112 FC3-2.5886 BSP 4099
BDE .5389 BRA .5519 BC3 .9275 FSP -560

MID-COURSE EXECUTION ACCURACY
SGT 1315.6 SGR 405.3 SG3 205.6
RRT -.0996 RRF .1041 RTF -.8559
SGB 1376.6 R23 -.0101 R13 .8560
SG1 1316.3 SG2 403.1 THA 178.06

ORBIT DETERMINATION ACCURACY
ST 771.5 SR 359.4 SS 798.1
CRT -.9026 CRS -.9735 CST .9756
LSA 1154.8 MSA 164.9 SSA 19.7
EL1 839.1 EL2 142.2 ALF 156.48

LAUNCH DATE JUN 13 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 21 1967

HELIOCENTRIC CONIC DISTANCE 256.792

RL 151.93 LAL -.00 LOL 261.32 VL 26.027 GAL -.74 AZL 93.28 HCA 109.62 SMA 124.07 ECC .22489 INC 3.2776 V1 29.325
RP 108.58 LAP -3.09 LOP 10.97 VP 37.081 GAP -10.86 AZP 88.90 TAL 182.57 TAP 292.19 RCA 96.17 APO 151.97 V2 34.903
RC 51.950 GL -23.75 GP -1.62 ZAL 98.05 ZAP 12.68 ETS 6.51 ZAE 148.27 ETE 15.20 ZAC 87.53 ETC 13.61 CLP -12.58

PLANETOCENTRIC CONIC

C3 13.650 VHL 3.695 DLA -15.08 RAL 154.71 RAD 6567.5 VEL 11.621 PTH 2.04 VHP 6.954 DPA 2.22 RAP 179.17 ECC 1.2246

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 17 30	1638.55	-2.70	7.63	9.74	118.20	6 44 48	1038.5	1.09	1.01
90.00	14 16 12	5259.55	26.85	237.46	14.69	80.65	15 43 52	4659.6	25.28	229.14
100.00	7 30 39	1402.50	-3.73	349.71	9.17	119.68	7 54 2	802.5	.25	343.19
100.00	15 45 44	4970.83	28.01	215.99	14.46	79.10	17 8 35	4370.8	26.22	207.65
110.00	8 20 38	1245.92	-6.36	336.20	7.53	123.66	8 41 24	645.9	-1.90	329.97
110.00	17 12 14	4700.18	31.02	194.64	13.66	74.87	18 30 34	4100.2	28.64	186.25

DIFFERENTIAL CORRECTIONS
TDE .4865 TRA -.5141 TC3 1.0117 BAU .1877
RDE -.2270 RRA -.0754 RC3 .1861 FAU .04738
FDE -.9000 FRA .2887 FC3-3.0050 BSP 4207
BDE .5369 BRA .5196 BC3 1.0286 FSP -633

MID-COURSE EXECUTION ACCURACY
SGT 1345.3 SGR 396.9 SG3 230.1
RRT -.1176 RRF .1229 RTF -.8640
SGB 1402.6 R23 -.0118 R13 .8642
SG1 1346.2 SG2 393.9 THA 177.83

ORBIT DETERMINATION ACCURACY
ST 794.4 SR 354.0 SS 843.6
CRT -.9123 CRS -.9779 CST .9762
LSA 1200.7 MSA 161.7 SSA 19.8
EL1 859.3 EL2 134.0 ALF 157.30

LAUNCH DATE JUN 13 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 23 1967

DISTANCE 263.490

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 26.150 GAL -.90 AZL 93.26 HCA 112.80 SMA 124.82 ECC .21770 INC 3.2590 V1 29.325
RP 108.54 LAP -3.00 LOP 14.16 VP 37.178 GAP -10.12 AZP 88.74 TAL 183.22 TAP 296.02 RCA 97.65 APO 151.99 V2 34.914
RC 53.515 GL -24.43 GP -1.77 ZAL 99.41 ZAP 15.02 ETS 5.84 ZAE 147.71 ETE 13.98 ZAC 86.76 ETC 13.61 CLP -14.92

PLANETOCENTRIC CONIC
C3 12.919 VHL 3.594 DLA -15.15 RAL 153.09 RAD 6567.5 VEL 11.589 PTH 2.03 VHP 6.548 DPA 1.74 RAP 179.87 ECC 1.2126

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 11 42	1624.01	-2.23	6.82	7.41	118.24	6 38 46	1024.0	1.56	.19
90.00	14 9 4	5250.22	26.75	236.80	12.20	80.34	15 36 34	4650.2	25.14	228.50
100.00	7 24 48	1388.14	-3.24	348.92	6.85	119.73	7 47 56	788.1	.74	342.40
100.00	15 38 39	4961.32	27.88	215.31	11.97	78.76	17 1 20	4361.3	26.05	206.99
110.00	8 14 40	1231.91	-5.83	335.46	5.24	123.74	8 35 12	631.9	-1.36	329.23
110.00	17 5 16	4690.31	30.85	193.92	11.16	74.48	18 23 26	4090.3	28.41	185.57

DIFFERENTIAL CORRECTIONS
TDE .4885 TRA -.4812 TC3 1.1146 BAU .1950
RDE -.2176 RRA -.0698 RC3 .1811 FAU .05202
FDE -.9855 FRA .2586 FC3-3.4862 BSP 4323
BDE .5347 BRA .4862 BC3 1.1292 FSP -720

MID-COURSE EXECUTION ACCURACY
SGT 1371.1 SGR 387.9 SG3 258.2
RRT -.1394 RRF .1461 RTF -.8714
SGB 1424.9 R23 -.0144 R13 .8717
SG1 1372.2 SG2 383.8 THA 177.55

ORBIT DETERMINATION ACCURACY
ST 814.7 SR 348.6 SS 892.7
CRT -.9216 CRS -.9820 CST .9767
LSA 1247.6 MSA 159.0 SSA 19.8
EL1 877.2 EL2 125.6 ALF 158.01

LAUNCH DATE JUN 13 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 25 1967

DISTANCE 270.176

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 26.262 GAL -1.04 AZL 93.24 HCA 115.99 SMA 125.51 ECC .21121 INC 3.2394 V1 29.325
RP 108.50 LAP -2.91 LOP 17.34 VP 37.268 GAP -9.41 AZP 88.58 TAL 183.87 TAP 299.86 RCA 99.00 APO 152.02 V2 34.926
RC 55.163 GL -25.04 GP -1.93 ZAL 100.74 ZAP 17.49 ETS 5.36 ZAE 147.40 ETE 12.87 ZAC 86.10 ETC 13.61 CLP -17.39

PLANETOCENTRIC CONIC
C3 12.292 VHL 3.506 DLA -15.17 RAL 151.52 RAD 6567.5 VEL 11.562 PTH 2.02 VHP 6.161 DPA 1.29 RAP 180.46 ECC 1.2023

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 5 39	1612.56	-1.86	6.18	5.20	118.26	6 32 31	1012.6	1.93	359.56
90.00	14 2 36	5240.42	26.63	236.10	9.84	80.01	15 29 56	4640.4	24.98	227.82
100.00	7 18 44	1376.74	-2.86	348.30	4.65	119.77	7 41 41	776.7	1.13	341.77
100.00	15 32 12	4951.47	27.75	214.61	9.61	78.41	16 54 43	4351.5	25.87	206.31
110.00	8 8 34	1220.62	-5.41	334.87	3.07	123.80	8 28 55	620.6	-.93	328.65
110.00	16 58 51	4680.34	30.66	193.20	8.79	74.09	18 16 51	4080.3	28.18	184.89

DIFFERENTIAL CORRECTIONS
TDE .4867 TRA -.4503 TC3 1.2063 BAU .2002
RDE -.2090 RRA -.0646 RC3 .1724 FAU .05722
FDE-1.0782 FRA .2258 FC3-4.0303 BSP 4415
BDE .5296 BRA .4549 BC3 1.2185 FSP -819

MID-COURSE EXECUTION ACCURACY
SGT 1389.0 SGR 378.4 SG3 289.6
RRT -.1633 RRF .1720 RTF -.8769
SGB 1439.7 R23 -.0179 R13 .8772
SG1 1390.5 SG2 373.0 THA 177.25

ORBIT DETERMINATION ACCURACY
ST 827.9 SR 343.1 SS 941.1
CRT -.9294 CRS -.9854 CST .9768
LSA 1289.9 MSA 157.3 SSA 19.7
EL1 888.4 EL2 118.0 ALF 158.54

LAUNCH DATE JUN 13 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 27 1967

DISTANCE 276.850

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 26.362 GAL -1.16 AZL 93.22 HCA 119.17 SMA 126.14 ECC .20538 INC 3.2187 V1 29.325
RP 108.46 LAP -2.81 LOP 20.53 VP 37.350 GAP -8.72 AZP 88.43 TAL 184.51 TAP 303.69 RCA 100.23 APO 152.05 V2 34.938
RC 56.885 GL -25.57 GP -2.13 ZAL 102.03 ZAP 20.10 ETS 4.99 ZAE 147.36 ETE 11.83 ZAC 85.59 ETC 13.62 CLP -20.00

PLANETOCENTRIC CONIC
C3 11.754 VHL 3.428 DLA -15.15 RAL 150.02 RAD 6567.4 VEL 11.539 PTH 2.01 VHP 5.795 DPA .88 RAP 180.91 ECC 1.1934

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 59 28	1603.93	-1.59	5.70	3.14	118.28	6 26 11	1003.9	2.21	359.07
90.00	13 56 49	5230.18	26.51	235.38	7.63	79.66	15 23 59	4630.2	24.81	227.12
100.00	7 12 34	1368.06	-2.56	347.82	2.59	119.79	7 35 22	768.1	1.42	341.30
100.00	15 26 24	4941.28	27.61	213.89	7.39	78.06	16 48 45	4341.3	25.68	205.61
110.00	8 2 26	1211.84	-5.07	334.41	1.03	123.85	8 22 38	611.8	-.59	328.19
110.00	16 53 1	4670.27	30.47	192.48	6.56	73.70	18 10 51	4070.3	27.94	184.20

DIFFERENTIAL CORRECTIONS
TDE .4818 TRA -.4226 TC3 1.2837 BAU .2033
RDE -.2012 RRA -.0600 RC3 .1598 FAU .06307
FDE-1.1819 FRA .1912 FC3-4.6449 BSP 4440
BDE .5221 BRA .4268 BC3 1.2936 FSP -926

MID-COURSE EXECUTION ACCURACY
SGT 1399.4 SGR 368.6 SG3 325.1
RRT -.1907 RRF .2026 RTF -.8805
SGB 1447.2 R23 -.0231 R13 .8809
SG1 1401.3 SG2 361.3 THA 176.92

ORBIT DETERMINATION ACCURACY
ST 835.0 SR 337.7 SS 991.3
CRT -.9356 CRS -.9882 CST .9767
LSA 1330.0 MSA 156.7 SSA 19.5
EL1 893.8 EL2 111.4 ALF 158.93

LAUNCH DATE JUN 13 1967 FLIGHT TIME 108.00 ARRIVAL DATE SEP 29 1967

DISTANCE 283.508

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 26.453 GAL -1.28 AZL 93.20 HCA 122.36 SMA 126.72 ECC .20017 INC 3.1967 V1 29.325
RP 108.43 LAP -2.70 LOP 23.73 VP 37.426 GAP -8.06 AZP 88.29 TAL 185.13 TAP 307.50 RCA 101.35 APO 152.08 V2 34.951
RC 58.673 GL -26.03 GP -2.35 ZAL 103.26 ZAP 22.87 ETS 4.72 ZAE 147.60 ETE 10.85 ZAC 85.23 ETC 13.64 CLP -22.76

PLANETOCENTRIC CONIC
C3 11.292 VHL 3.360 DLA -15.09 RAL 148.61 RAD 6567.4 VEL 11.519 PTH 2.01 VHP 5.447 DPA .50 RAP 181.21 ECC 1.1858

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 53 14	1597.88	-1.39	5.36	1.21	118.29	6 19 52	997.9	2.40	358.74
90.00	13 51 46	5219.54	26.38	234.63	5.57	79.31	15 18 46	4619.5	24.63	226.39
100.00	7 6 23	1361.86	-2.35	347.48	.68	119.81	7 29 5	761.9	1.63	340.96
100.00	15 21 19	4930.79	27.46	213.14	5.32	77.69	16 43 29	4330.8	25.48	204.90
110.00	7 56 22	1205.32	-4.83	334.06	359.14	123.88	8 16 27	605.3	-.35	327.85
110.00	16 47 49	4660.09	30.28	191.75	4.49	73.31	18 5 30	4060.1	27.69	183.51

DIFFERENTIAL CORRECTIONS
TDE .4752 TRA -.3937 TC3 1.3503 BAU .2050
RDE -.1943 RRA -.0559 RC3 .1425 FAU .06974
FDE-1.2987 FRA .1475 FC3-5.3469 BSP 4464
BDE .5134 BRA .3976 BC3 1.3578 FSP -1052

MID-COURSE EXECUTION ACCURACY
SGT 1401.2 SGR 358.7 SG3 365.4
RRT -.2247 RRF .2398 RTF -.8837
SGB 1446.3 R23 -.0289 R13 .8842
SG1 1403.6 SG2 348.9 THA 176.49

ORBIT DETERMINATION ACCURACY
ST 837.0 SR 332.6 SS 1044.0
CRT -.9416 CRS -.9906 CST .9765
LSA 1369.8 MSA 156.2 SSA 19.1
EL1 894.6 EL2 104.8 ALF 159.19

LAUNCH DATE JUN 13 1967 FLIGHT TIME 110.00 ARRIVAL DATE OCT 1 1967

HELIOCENTRIC CONIC DISTANCE 290.150

```
RL  151.93 LAL   -.00 LOL 261.32 VL  26.533 GAL  -1.39 AZL  93.17 HCA 125.56 SMA 127.23 ECC .19553 INC 3.1731 V1  29.325
RP  108.39 LAP  -2.58 LOP  26.92 VP  37.495 GAP  -7.41 AZP  88.15 TAL 185.73 TAP 311.29 RCA 102.36 APO 152.11 V2  34.964
RC  60.521 GL  -26.41 GP   -2.60 ZAL 104.42 ZAP  25.82 ETS   4.52 ZAE 148.13 ETE   9.89 ZAC  85.05 ETC  13.66 CLP -25.70
```

PLANETOCENTRIC CONIC

```
C3  10.894 VHL  3.301 DLA -14.98 RAL 147.30 RAD 6567.4 VEL 11.501 PTH   2.00 VHP  5.119 DPA    .16 RAP 181.33 ECC 1.1793
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 47 5	1594.12	-1.27	5.15	359.44	118.29	6 13 39	994.1	2.52	358.53
90.00	13 47 29	5208.52	26.24	233.85	3.67	78.94	15 14 17	4608.5	24.45	225.64
100.00	7 0 18	1357.85	-2.22	347.26	358.92	119.82	7 22 56	757.9	1.77	340.74
100.00	15 16 56	4920.02	27.30	212.38	3.42	77.32	16 38 56	4320.0	25.28	204.16
110.00	7 50 26	1200.82	-4.66	333.83	357.40	123.90	8 10 27	600.8	-.17	327.61
110.00	16 43 18	4649.82	30.07	191.02	2.58	72.92	18 0 47	4049.8	27.44	182.82

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .4668 TRA -.3664 TC3 1.4050 BAU  .2054   SGT 1396.6 SGR  349.2 SG3  411.6      ST   834.5 SR   328.1 SS  1100.7
 RDE -.1883 RRA -.0523 RC3  .1199 FAU .07742   RRT -.2656 RRF  .2850 RTF -.8862     CRT -.9468 CRS -.9927 CST  .9763
 FDE-1.4316 FRA  .0985 FC3-6.1521 BSP   4486  SGB 1439.6 R23 -.0365 R13  .8870     LSA 1411.0 MSA  156.1 SSA   18.6
 BDE  .5033 BRA  .3701 BC3 1.4101 FSP  -1199   SGI 1399.8 SG2  335.9 THA 175.97    EL1  891.2 EL2   98.9 ALF 159.32
```

LAUNCH DATE JUN 13 1967 FLIGHT TIME 112.00 ARRIVAL DATE OCT 3 1967

HELIOCENTRIC CONIC DISTANCE 296.775

```
RL  151.93 LAL   -.00 LOL 261.32 VL  26.605 GAL  -1.48 AZL  93.15 HCA 128.75 SMA 127.70 ECC .19142 INC 3.1475 V1  29.325
RP  108.35 LAP  -2.45 LOP  30.12 VP  37.557 GAP  -6.79 AZP  88.05 TAL 186.29 TAP 315.04 RCA 103.26 APO 152.14 V2  34.977
RC  62.420 GL  -26.72 GP   -2.90 ZAL 105.49 ZAP  28.96 ETS   4.38 ZAE 148.97 ETE   8.93 ZAC  85.06 ETC  13.69 CLP -28.83
```

PLANETOCENTRIC CONIC

```
C3  10.549 VHL  3.248 DLA -14.85 RAL 146.10 RAD 6567.4 VEL 11.486 PTH   2.00 VHP  4.811 DPA   -.13 RAP 181.27 ECC 1.1736
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 41 5	1592.36	-1.21	5.06	357.84	118.29	6 7 37	992.4	2.58	358.43
90.00	13 43 56	5197.18	26.09	233.05	1.94	78.57	15 10 33	4597.2	24.25	224.87
100.00	6 54 24	1355.78	-2.15	347.14	357.32	119.82	7 17 0	755.8	1.84	340.62
100.00	15 13 18	4909.00	27.13	211.60	1.68	76.95	16 35 7	4309.0	25.06	203.41
110.00	7 44 45	1198.09	-4.55	333.69	355.82	123.92	8 4 43	598.1	-.07	327.47
110.00	16 39 27	4639.44	29.86	190.29	.84	72.54	17 56 46	4039.4	27.18	182.12

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .4534 TRA -.3424 TC3 1.4325 BAU  .2025   SGT 1377.0 SGR  340.5 SG3  463.3      ST   822.0 SR   324.1 SS  1158.5
 RDE -.1831 RRA -.0492 RC3  .0919 FAU .08597   RRT -.3128 RRF  .3384 RTF -.8860     CRT -.9505 CRS -.9943 CST  .9755
 FDE-1.5779 FRA  .0452 FC3-7.0553 BSP   4436  SGB 1418.5 R23 -.0476 R13  .8871     LSA 1448.4 MSA  156.8 SSA   18.1
 BDE  .4890 BRA  .3459 BC3 1.4355 FSP  -1364   SGI 1381.4 SG2  322.4 THA 175.32    EL1  878.6 EL2   94.2 ALF 159.21
```

LAUNCH DATE JUN 13 1967 FLIGHT TIME 114.00 ARRIVAL DATE OCT 5 1967

HELIOCENTRIC CONIC DISTANCE 303.382

```
RL  151.93 LAL   -.00 LOL 261.32 VL  26.668 GAL  -1.57 AZL  93.12 HCA 131.95 SMA 128.12 ECC .18779 INC 3.1194 V1  29.325
RP  108.31 LAP  -2.32 LOP  33.31 VP  37.614 GAP  -6.19 AZP  87.91 TAL 186.80 TAP 318.75 RCA 104.06 APO 152.18 V2  34.990
RC  64.367 GL  -26.95 GP   -3.24 ZAL 106.47 ZAP  32.33 ETS   4.27 ZAE 150.14 ETE   7.93 ZAC  85.30 ETC  13.71 CLP -32.18
```

PLANETOCENTRIC CONIC

```
C3  10.249 VHL  3.201 DLA -14.69 RAL 145.03 RAD 6567.4 VEL 11.473 PTH   1.99 VHP  4.523 DPA   -.38 RAP 180.99 ECC 1.1687
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 35 19	1592.36	-1.21	5.06	356.39	118.29	6 1 51	992.4	2.58	358.43
90.00	13 41 9	5185.50	25.93	232.24	.38	78.19	15 7 35	4585.5	24.04	224.08
100.00	6 48 46	1355.40	-2.14	347.12	355.88	119.82	7 11 21	755.4	1.85	340.60
100.00	15 10 24	4897.70	26.96	210.81	.12	76.56	16 32 2	4297.7	24.84	202.65
110.00	7 39 21	1196.92	-4.51	333.62	354.40	123.92	7 59 18	596.9	-.02	327.41
110.00	16 36 18	4628.94	29.65	189.55	359.26	72.15	17 53 27	4028.9	26.92	181.42

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .4373 TRA -.3197 TC3 1.4391 BAU  .1973   SGT 1345.8 SGR  333.5 SG3  522.0      ST   802.9 SR   321.1 SS  1220.1
 RDE -.1789 RRA -.0466 RC3  .0572 FAU .09568   RRT -.3691 RRF  .4025 RTF -.8843     CRT -.9535 CRS -.9956 CST  .9745
 FDE-1.7422 FRA -.0161 FC3-8.0824 BSP   4367  SGB 1386.6 R23 -.0623 R13  .8859     LSA 1487.0 MSA  157.7 SSA   17.4
 BDE  .4724 BRA  .3231 BC3 1.4402 FSP  -1554   SGI 1351.8 SG2  308.6 THA 174.48    EL1  860.0 EL2   90.3 ALF 158.88
```

LAUNCH DATE JUN 13 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 7 1967

HELIOCENTRIC CONIC DISTANCE 309.969

```
RL  151.93 LAL   -.00 LOL 261.32 VL  26.723 GAL  -1.64 AZL  93.09 HCA 135.15 SMA 128.48 ECC .18462 INC 3.0884 V1  29.325
RP  108.27 LAP  -2.18 LOP  36.51 VP  37.666 GAP  -5.61 AZP  87.81 TAL 187.26 TAP 322.41 RCA 104.76 APO 152.20 V2  35.003
RC  66.356 GL  -27.10 GP   -3.64 ZAL 107.35 ZAP  35.93 ETS   4.20 ZAE 151.63 ETE   6.84 ZAC  85.77 ETC  13.73 CLP -35.77
```

PLANETOCENTRIC CONIC

```
C3   9.983 VHL  3.160 DLA -14.49 RAL 144.10 RAD 6567.4 VEL 11.462 PTH   1.99 VHP  4.256 DPA   -.59 RAP 180.47 ECC 1.1643
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 29 51	1593.90	-1.26	5.14	355.11	118.29	5 56 25	993.9	2.53	358.51
90.00	13 39 9	5173.48	25.75	231.40	358.98	77.80	15 5 23	4573.5	23.82	223.26
100.00	6 43 26	1356.49	-2.17	347.18	354.61	119.82	7 6 2	756.5	1.81	340.66
100.00	15 8 15	4886.12	26.77	210.00	358.72	76.17	16 29 42	4286.1	24.60	201.87
110.00	7 34 19	1197.11	-4.52	333.63	353.15	123.92	7 54 16	597.1	-.03	327.42
110.00	16 33 52	4618.27	29.42	188.80	357.86	71.75	17 50 50	4018.3	26.65	180.71

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .4141 TRA -.3021 TC3 1.4074 BAU  .1879   SGT 1294.3 SGR  329.1 SG3  586.3      ST   770.3 SR   319.3 SS  1280.4
 RDE -.1755 RRA -.0445 RC3  .0155 FAU .10630   RRT -.4300 RRF  .4755 RTF -.8779     CRT -.9545 CRS -.9965 CST  .9725
 FDE-1.9177 FRA -.0777 FC3-9.2179 BSP   4198  SGB 1335.5 R23 -.0856 R13  .8804     LSA 1519.5 MSA  159.5 SSA   16.6
 BDE  .4498 BRA  .3054 BC3 1.4075 FSP  -1759   SGI 1302.4 SG2  295.3 THA 173.42    EL1  829.2 EL2   88.4 ALF 158.16
```

LAUNCH DATE JUN 13 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 9 1967

DISTANCE 316.538

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 26.772 GAL -1.70 AZL 93.05 HCA 138.35 SMA 128.81 ECC .18186 INC 3.0536 VI 29.325
RP 108.22 LAP -2.03 LOP 39.71 VP 37.712 GAP -5.05 AZP 87.72 TAL 187.67 TAP 326.02 RCA 105.38 APO 152.23 V2 35.016
RC 68.382 GL -27.17 GP -4.11 ZAL 108.12 ZAP 39.79 ETS 4.15 ZAE 153.47 ETE 5.56 ZAC 86.51 ETC 13.75 CLP -39.61

PLANETOCENTRIC CONIC
C3 9.746 VHL 3.122 DLA -14.27 RAL 143.30 RAD 6567.4 VEL 11.451 PTH 1.99 VHP 4.009 DPA -.75 RAP 179.69 ECC 1.1604

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 24 43	1596.85	-1.36	5.31	354.00	118.29	5 51 20	996.9	2.43	358.68
90.00	13 37 57	5160.99	25.57	230.53	357.76	77.41	15 3 58	4561.0	23.58	222.42
100.00	6 38 27	1358.94	-2.26	347.32	353.50	119.82	7 1 6	758.9	1.73	340.80
100.00	15 6 54	4874.13	26.57	209.16	357.50	75.78	16 28 8	4274.1	24.35	201.07
110.00	7 29 40	1198.53	-4.57	333.71	352.06	123.91	7 49 38	598.5	-.09	327.49
110.00	16 32 10	4607.31	29.18	188.03	356.62	71.36	17 48 58	4007.3	26.36	179.98

DIFFERENTIAL CORRECTIONS
TOE .3857 TRA -.2878 TC3 1.3415 BAU .1749
RDE -.1733 RRA -.0427 RC3 -.0351 FAU .11797
FDE-2.1071 FRA -.1422 FC-10.4792 BSP 3966
BDE .4229 BRA .2909 BC3 1.3420 FSP -1986

MID-COURSE EXECUTION ACCURACY
SGT 1224.6 SGR 329.0 SG3 657.1
RRT -.4951 RRF .5577 RTF -.8666
SGB 1268.0 R23 -.1201 R13 .8709
SG1 1236.0 SG2 283.2 THA 172.00

ORBIT DETERMINATION ACCURACY
ST 727.0 SR 319.0 SS 1341.6
CRT -.9539 CRS -.9973 CST .9694
LSA 1550.5 MSA 161.4 SSA 15.8
EL1 789.0 EL2 88.2 ALF 156.98

LAUNCH DATE JUN 13 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 11 1967

DISTANCE 323.086

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 26.813 GAL -1.74 AZL 93.01 HCA 141.56 SMA 129.08 ECC .17948 INC 3.0142 VI 29.325
RP 108.18 LAP -1.87 LOP 42.92 VP 37.754 GAP -4.50 AZP 87.64 TAL 188.01 TAP 329.57 RCA 105.92 APO 152.25 V2 35.029
RC 70.443 GL -27.16 GP -4.67 ZAL 108.79 ZAP 43.93 ETS 4.11 ZAE 155.66 ETE 3.98 ZAC 87.54 ETC 13.75 CLP -43.74

PLANETOCENTRIC CONIC
C3 9.530 VHL 3.087 DLA -14.03 RAL 142.66 RAD 6567.3 VEL 11.442 PTH 1.98 VHP 3.785 DPA -.89 RAP 178.63 ECC 1.1568

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 19 55	1601.15	-1.50	5.55	353.06	118.28	5 46 36	1001.1	2.30	358.92
90.00	13 37 35	5147.87	25.37	229.62	356.70	76.99	15 3 23	4547.9	23.33	221.54
100.00	6 33 49	1362.68	-2.38	347.52	352.56	119.81	6 56 32	762.7	1.60	341.00
100.00	15 6 21	4861.57	26.36	208.29	356.43	75.36	16 27 23	4261.6	24.09	200.23
110.00	7 25 24	1201.12	-4.67	333.84	351.14	123.90	7 45 26	601.1	-.18	327.63
110.00	16 31 16	4595.90	28.93	187.24	355.55	70.95	17 47 52	3995.9	26.06	179.23

DIFFERENTIAL CORRECTIONS
TOE .3507 TRA -.2774 TC3 1.2327 BAU .1575
RDE -.1724 RRA -.0414 RC3 -.0960 FAU .13052
FDE-2.3043 FRA -.2071 FC-11.8567 BSP 3658
BDE .3908 BRA .2805 BC3 1.2364 FSP -2234

MID-COURSE EXECUTION ACCURACY
SGT 1133.4 SGR 334.9 SG3 733.3
RRT -.5567 RRF .6451 RTF -.8467
SGB 1181.8 R23 -.1737 R13 .8547
SG1 1149.5 SG2 274.3 THA 170.09

ORBIT DETERMINATION ACCURACY
ST 670.4 SR 320.8 SS 1401.0
CRT -.9507 CRS -.9979 CST .9643
LSA 1577.4 MSA 163.6 SSA 14.9
EL1 737.7 EL2 90.4 ALF 155.14

LAUNCH DATE JUN 13 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 13 1967

DISTANCE 329.614

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 26.848 GAL -1.78 AZL 92.97 HCA 144.76 SMA 129.32 ECC .17745 INC 2.9686 VI 29.325
RP 108.14 LAP -1.71 LOP 46.12 VP 37.792 GAP -3.97 AZP 87.57 TAL 188.29 TAP 333.05 RCA 106.37 APO 152.27 V2 35.042
RC 72.534 GL -27.07 GP -5.33 ZAL 109.35 ZAP 48.36 ETS 4.07 ZAE 158.19 ETE 1.88 ZAC 88.86 ETC 13.72 CLP -48.14

PLANETOCENTRIC CONIC
C3 9.329 VHL 3.054 DLA -13.74 RAL 142.16 RAD 6567.3 VEL 11.433 PTH 1.98 VHP 3.584 DPA -1.00 RAP 177.27 ECC 1.1535

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 15 26	1606.87	-1.68	5.87	352.27	118.27	5 42 12	1006.9	2.11	359.24
90.00	13 38 7	5133.81	25.16	228.65	355.81	76.55	15 3 40	4533.8	23.06	220.61
100.00	6 29 32	1367.78	-2.55	347.80	351.79	119.79	6 52 20	767.8	1.43	341.28
100.00	15 6 41	4848.13	26.12	207.36	355.53	74.93	16 27 30	4248.1	23.80	199.33
110.00	7 21 32	1204.91	-4.81	334.04	350.39	123.88	7 41 37	604.9	-.33	327.83
110.00	16 31 11	4583.76	28.66	186.40	354.64	70.52	17 47 35	3983.8	25.74	178.44

DIFFERENTIAL CORRECTIONS
TOE .3112 TRA -.2696 TC3 1.0874 BAU .1373
RDE -.1732 RRA -.0406 RC3 -.1708 FAU .14415
FDE-2.5130 FRA -.2739 FC-13.3771 BSP 3315
BDE .3562 BRA .2727 BC3 1.1008 FSP -2509

MID-COURSE EXECUTION ACCURACY
SGT 1026.2 SGR 350.2 SG3 816.4
RRT -.6070 RRF .7332 RTF -.8152
SGB 1084.3 R23 -.2524 R13 .8311
SG1 1049.6 SG2 272.1 THA 167.44

ORBIT DETERMINATION ACCURACY
ST 604.6 SR 325.8 SS 1462.4
CRT -.9446 CRS -.9984 CST .9567
LSA 1607.1 MSA 165.4 SSA 14.0
EL1 680.2 EL2 95.1 ALF 152.44

LAUNCH DATE JUN 13 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 15 1967

DISTANCE 336.121

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 26.878 GAL -1.80 AZL 92.92 HCA 147.97 SMA 129.52 ECC .17574 INC 2.9153 VI 29.325
RP 108.10 LAP -1.55 LOP 49.33 VP 37.825 GAP -3.46 AZP 87.53 TAL 188.50 TAP 336.47 RCA 106.76 APO 152.28 V2 35.056
RC 74.652 GL -26.87 GP -6.11 ZAL 109.80 ZAP 53.08 ETS 4.02 ZAE 161.05 ETE 358.84 ZAC 90.49 ETC 13.66 CLP -52.84

PLANETOCENTRIC CONIC
C3 9.137 VHL 3.023 DLA -13.41 RAL 141.82 RAD 6567.3 VEL 11.425 PTH 1.98 VHP 3.406 DPA -1.11 RAP 175.60 ECC 1.1504

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 11 12	1614.22	-1.92	6.28	351.66	118.26	5 38 6	1014.2	1.87	359.65
90.00	13 39 39	5118.36	24.91	227.58	355.06	76.07	15 4 57	4518.4	22.75	219.58
100.00	6 25 31	1374.41	-2.78	348.17	351.18	119.77	6 48 26	774.4	1.20	341.65
100.00	15 8 0	4833.40	25.86	206.35	354.79	74.46	16 28 34	4233.4	23.48	198.36
110.00	7 18 0	1210.06	-5.01	334.31	349.79	123.86	7 38 10	610.1	-.53	328.10
110.00	16 32 1	4570.51	28.36	185.49	353.89	70.06	17 48 12	3970.5	25.38	177.58

DIFFERENTIAL CORRECTIONS
TOE .2633 TRA -.2668 TC3 .8849 BAU .1127
RDE -.1757 RRA -.0401 RC3 -.2611 FAU .15791
FDE-2.7121 FRA -.3307 FC-14.9624 BSP 2863
BDE .3166 BRA .2698 BC3 .9226 FSP -2784

MID-COURSE EXECUTION ACCURACY
SGT 897.5 SGR 376.8 SG3 900.6
RRT -.6210 RRF .8122 RTF -.7556
SGB 973.4 R23 -.3691 R13 .7913
SG1 930.8 SG2 284.8 THA 163.83

ORBIT DETERMINATION ACCURACY
ST 523.1 SR 334.0 SS 1516.2
CRT -.9311 CRS -.9987 CST .9425
LSA 1629.6 MSA 167.6 SSA 13.1
EL1 611.8 EL2 104.2 ALF 148.24

LAUNCH DATE JUN 13 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 17 1967

HELIOCENTRIC CONIC DISTANCE 342.608

RL 151.93 LAL -.00 LOL 261.32 VL 26.902 GAL -1.81 AZL 92.85 HCA 151.18 SMA 129.68 ECC .17432 INC 2.8513 V1 29.325
RP 108.06 LAP -1.37 LOP 52.53 VP 37.854 GAP -2.96 AZP 87.50 TAL 188.64 TAP 339.82 RCA 107.08 APO 152.29 V2 35.069
RC 76.795 GL -26.56 GP -7.05 ZAL 110.14 ZAP 58.09 ETS 3.92 ZAE 164.17 ETE 354.06 ZAC 92.41 ETC 13.55 CLP -57.81

PLANETOCENTRIC CONIC

C3 8.946 VHL 2.991 DLA -13.02 RAL 141.65 RAD 6567.3 VEL 11.416 PTH 1.98 VHP 3.254 DPA -1.26 RAP 173.62 ECC 1.1472

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 7 6	1623.66	-2.22	6.80	351.20	118.24	5 34 10	1023.7	1.57	.18
90.00	13 42 22	5100.79	24.61	226.38	354.47	75.54	15 7 23	4500.8	22.39	218.42
100.00	6 21 41	1383.03	-3.07	348.64	350.73	119.75	6 44 44	783.0	.91	342.12
100.00	15 10 28	4816.65	25.55	205.20	354.19	73.93	16 30 45	4216.7	23.10	197.26
110.00	7 14 43	1216.94	-5.27	334.68	349.36	123.82	7 35 0	616.9	-.79	328.45
110.00	16 33 56	4555.51	28.00	184.46	353.28	69.55	17 49 51	3955.5	24.96	176.61

DIFFERENTIAL CORRECTIONS
TDE .2101 TRA -.2666 TC3 .6354 BAU .0881
RDE -.1806 RRA -.0400 RC3 -.3730 FAU .17193
FDE-2.8988 FRA -.3794 FC-16.6386 BSP 2412
BDE .2770 BRA .2696 BC3 .7368 FSP -3077

MID-COURSE EXECUTION ACCURACY
SGT 762.4 SGR 419.0 SG3 986.8
RRT -.5723 RRF .8775 RTF -.6462
SGB 870.0 R23 -.5132 R13 .7331
SG1 807.2 SG2 324.6 THA 158.99

ORBIT DETERMINATION ACCURACY
ST 432.3 SR 346.7 SS 1564.8
CRT -.9046 CRS -.9990 CST .9158
LSA 1651.4 MSA 169.2 SSA 12.1
EL1 541.5 EL2 118.0 ALF 141.90

LAUNCH DATE JUN 13 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 19 1967

HELIOCENTRIC CONIC DISTANCE 349.074

RL 151.93 LAL -.00 LOL 261.32 VL 26.921 GAL -1.81 AZL 92.77 HCA 154.40 SMA 129.81 ECC .17317 INC 2.7728 V1 29.325
RP 108.02 LAP -1.20 LOP 55.74 VP 37.879 GAP -2.47 AZP 87.50 TAL 188.71 TAP 343.11 RCA 107.33 APO 152.30 V2 35.082
RC 78.958 GL -26.11 GP -8.19 ZAL 110.39 ZAP 63.34 ETS 3.77 ZAE 167.39 ETE 345.80 ZAC 94.63 ETC 13.36 CLP -63.05

PLANETOCENTRIC CONIC

C3 8.750 VHL 2.958 DLA -12.54 RAL 141.66 RAD 6567.3 VEL 11.408 PTH 1.97 VHP 3.129 DPA -1.50 RAP 171.32 ECC 1.1440

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 2 58	1636.01	-2.62	7.49	350.90	118.21	5 30 14	1036.0	1.17	.86
90.00	13 46 34	5079.97	24.25	224.96	354.02	74.92	15 11 14	4480.0	21.95	217.05
100.00	6 17 51	1394.37	-3.45	349.27	350.44	119.71	6 41 6	794.4	.53	342.74
100.00	15 14 21	4796.84	25.17	203.85	353.73	73.32	16 34 18	4196.8	22.64	195.96
110.00	7 11 34	1226.18	-5.62	335.16	349.09	123.77	7 32 0	626.2	-1.14	328.94
110.00	16 37 8	4537.80	27.58	183.26	352.81	68.95	17 52 46	3937.8	24.46	175.47

DIFFERENTIAL CORRECTIONS
TDE .1496 TRA -.2710 TC3 .3203 BAU .0704
RDE -.1875 RRA -.0396 RC3 -.5100 FAU .18466
FDE-3.0431 FRA -.3999 FC-18.2700 BSP 1964
BDE .2399 BRA .2739 BC3 .6022 FSP -3335

MID-COURSE EXECUTION ACCURACY
SGT 639.5 SGR 478.7 SG3 1065.9
RRT -.3927 RRF .9253 RTF -.4220
SGB 798.8 R23 -.6696 R13 .6418
SG1 685.0 SG2 411.0 THA 153.40

ORBIT DETERMINATION ACCURACY
ST 331.7 SR 364.1 SS 1597.1
CRT -.8405 CRS -.9993 CST .8529
LSA 1662.5 MSA 171.1 SSA 11.1
EL1 472.7 EL2 138.4 ALF 131.83

LAUNCH DATE JUN 13 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 21 1967

HELIOCENTRIC CONIC DISTANCE 355.519

RL 151.93 LAL -.00 LOL 261.32 VL 26.935 GAL -1.80 AZL 92.67 HCA 157.61 SMA 129.91 ECC .17227 INC 2.6734 V1 29.325
RP 107.98 LAP -1.02 LOP 58.96 VP 37.901 GAP -2.00 AZP 87.53 TAL 188.71 TAP 346.32 RCA 107.53 APO 152.29 V2 35.094
RC 81.139 GL -25.45 GP -9.61 ZAL 110.54 ZAP 68.81 ETS 3.52 ZAE 170.28 ETE 330.24 ZAC 97.11 ETC 13.06 CLP -68.50

PLANETOCENTRIC CONIC

C3 8.541 VHL 2.922 DLA -11.91 RAL 141.86 RAD 6567.3 VEL 11.399 PTH 1.97 VHP 3.032 DPA -1.92 RAP 168.73 ECC 1.1406

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 58 26	1652.71	-3.16	8.43	350.77	118.15	5 25 59	1052.7	.63	1.80
90.00	13 52 42	5054.06	23.78	223.21	353.69	74.16	15 16 56	4454.1	21.38	215.36
100.00	6 13 43	1409.81	-3.97	350.12	350.32	119.65	6 37 13	809.8	.00	343.59
100.00	15 20 6	4772.19	24.68	202.18	353.40	72.57	16 39 38	4172.2	22.06	194.36
110.00	7 8 17	1238.95	-6.10	335.84	349.00	123.70	7 28 56	639.0	-1.63	329.60
110.00	16 42 2	4515.82	27.03	181.78	352.47	68.23	17 57 18	3915.8	23.83	174.08

DIFFERENTIAL CORRECTIONS
TDE .0850 TRA -.2771 TC3 -.0541 BAU .0782
RDE -.1971 RRA -.0387 RC3 -.6824 FAU .19568
FDE-3.1292 FRA -.3920 FC-19.8353 BSP 1785
BDE .2147 BRA .2798 BC3 .6845 FSP -3569

MID-COURSE EXECUTION ACCURACY
SGT 580.6 SGR 560.7 SG3 1135.3
RRT -.0269 RRF .9576 RTF -.0288
SGB 807.2 R23 -.9009 R13 .3246
SG1 583.1 SG2 558.1 THA 161.15

ORBIT DETERMINATION ACCURACY
ST 235.7 SR 387.3 SS 1610.8
CRT -.6632 CRS -.9994 CST .6784
LSA 1664.4 MSA 172.7 SSA 10.1
EL1 423.8 EL2 161.2 ALF 116.02

LAUNCH DATE JUN 13 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 23 1967

HELIOCENTRIC CONIC DISTANCE 361.943

RL 151.93 LAL -.00 LOL 261.32 VL 26.945 GAL -1.78 AZL 92.54 HCA 160.83 SMA 129.98 ECC .17159 INC 2.5425 V1 29.325
RP 107.94 LAP -.83 LOP 62.17 VP 37.920 GAP -1.54 AZP 87.60 TAL 188.63 TAP 349.47 RCA 107.68 APO 152.28 V2 35.107
RC 83.336 GL -24.49 GP -11.43 ZAL 110.61 ZAP 74.43 ETS 3.13 ZAE 171.76 ETE 302.55 ZAC 99.81 ETC 12.58 CLP -74.11

PLANETOCENTRIC CONIC

C3 8.305 VHL 2.882 DLA -11.04 RAL 142.29 RAD 6567.3 VEL 11.388 PTH 1.97 VHP 2.965 DPA -2.67 RAP 165.85 ECC 1.1367

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 52 57	1676.34	-3.91	9.75	350.82	118.07	5 20 54	1076.3	-.13	3.11
90.00	14 1 36	5019.92	23.13	220.92	353.49	73.19	15 25 16	4419.9	20.61	213.16
100.00	6 8 46	1431.78	-4.71	351.33	350.38	119.55	6 32 38	831.8	-.74	344.79
100.00	15 28 29	4739.71	24.00	200.01	353.19	71.62	16 47 29	4139.7	21.26	192.28
110.00	7 4 27	1257.37	-6.80	336.81	349.09	123.58	7 25 25	657.4	-2.33	330.56
110.00	16 49 17	4486.89	26.29	179.87	352.25	67.32	18 4 4	3886.9	22.98	172.27

DIFFERENTIAL CORRECTIONS
TDE .0195 TRA -.2829 TC3 -.4872 BAU .1143
RDE -.2096 RRA -.0372 RC3 -.9073 FAU .20440
FDE-3.1337 FRA -.3569 FC-21.3058 BSP 2114
BDE .2105 BRA .2853 BC3 1.0298 FSP -3766

MID-COURSE EXECUTION ACCURACY
SGT 639.2 SGR 672.9 SG3 1191.4
RRT .4042 RRF .9777 RTF .4108
SGB 928.2 R23 .4706 R13 .8572
SG1 778.5 SG2 505.4 THA 48.62

ORBIT DETERMINATION ACCURACY
ST 176.4 SR 417.7 SS 1600.0
CRT -.1650 CRS -.9996 CST .1828
LSA 1653.9 MSA 173.6 SSA 9.1
EL1 418.9 EL2 173.5 ALF 94.81

LAUNCH DATE JUN 13 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 25 1967

DISTANCE 368.347

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 26.951 GAL -1.74 AZL 92.36 HCA 164.05 SMA 130.02 ECC .17112 INC 2.3604 V1 29.325
RP 107.91 LAP -.65 LOP 65.39 VP 37.936 GAP -1.09 AZP 87.73 TAL 188.49 TAP 352.54 RCA 107.77 APO 152.27 V2 35.119
RC 85.546 GL -23.06 GP -13.86 ZAL 110.63 ZAP 80.11 ETS 2.51 ZAE 170.35 ETE 271.68 ZAC 102.69 ETC 11.81 CLP -79.81

PLANETOCENTRIC CONIC
C3 8.027 VHL 2.833 DLA -9.77 RAL 143.01 RAD 6567.3 VEL 11.376 PTH 1.96 VHP 2.934 DPA -3.96 RAP 162.67 ECC 1.1321

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 45 31	1711.75	-5.05	11.74	351.08	117.90	5 14 2	1111.8	-1.27	5.09
90.00	14 14 48	4971.83	22.15	217.74	353.42	71.89	15 37 40	4371.8	19.46	210.09
100.00	6 2 2	1464.86	-5.82	353.16	350.66	119.37	6 26 27	864.9	-1.86	346.61
100.00	15 40 57	4693.95	22.98	196.99	353.11	70.34	16 59 11	4094.0	20.09	189.39
110.00	6 59 20	1285.45	-7.85	338.30	349.41	123.38	7 20 45	685.4	-3.41	332.03
110.00	17 0 9	4446.13	25.19	177.21	352.14	66.09	18 14 15	3846.1	21.74	169.75

DIFFERENTIAL CORRECTIONS
TDE -.0429 TRA -.2865 TC3 -.9884 BAU .1673
RDE -.2233 RRA -.0325 RC3-1.2056 FAU .20837
FDE-2.9918 FRA -.2587 FC-22.4722 BSP 2902
BDE .2274 BRA .2883 BC3 1.5590 FSP -3856

MID-COURSE EXECUTION ACCURACY
SGT 816.6 SGR 821.6 SG3 1218.9
RRT .6872 RRF .9892 RTF .6917
SGB 1158.4 R23 .3732 R13 .9163
SG1 1064.0 SG2 458.1 THA 45.26

ORBIT DETERMINATION ACCURACY
ST 197.3 SR 452.4 SS 1537.3
CRT .4823 CRS -.9997 CST -.4676
LSA 1605.2 MSA 174.1 SSA 8.2
EL1 463.9 EL2 168.5 ALF 76.28

LAUNCH DATE JUN 13 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 27 1967

DISTANCE 374.731

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 26.953 GAL -1.69 AZL 92.09 HCA 167.27 SMA 130.04 ECC .17084 INC 2.0891 V1 29.325
RP 107.87 LAP -.46 LOP 68.60 VP 37.948 GAP -.65 AZP 87.96 TAL 188.27 TAP 355.55 RCA 107.82 APO 152.25 V2 35.131
RC 87.767 GL -20.76 GP -17.31 ZAL 110.62 ZAP 85.73 ETS 1.53 ZAE 166.09 ETE 253.54 ZAC 105.72 ETC 10.55 CLP -85.53

PLANETOCENTRIC CONIC
C3 7.680 VHL 2.771 DLA -7.74 RAL 144.15 RAD 6567.3 VEL 11.361 PTH 1.96 VHP 2.947 DPA -6.24 RAP 159.11 ECC 1.1264

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 33 59	1769.27	-6.87	14.98	351.68	117.54	5 3 28	1169.3	-3.13	8.30
90.00	14 35 24	4898.06	20.51	212.95	353.49	70.03	15 57 2	4298.1	17.60	205.48
100.00	5 51 36	1518.88	-7.61	356.17	351.27	118.99	6 16 55	918.9	-3.69	349.58
100.00	16 0 28	4623.69	21.30	192.45	353.17	68.52	17 17 32	4023.7	18.19	185.03
110.00	6 51 20	1331.84	-9.58	340.78	350.08	122.97	7 13 32	731.8	-5.17	334.47
110.00	17 17 14	4383.49	23.40	173.22	352.17	64.34	18 30 17	3783.5	19.75	165.98

DIFFERENTIAL CORRECTIONS
TDE -.0922 TRA -.2830 TC3-1.5641 BAU .2326
RDE -.2371 RRA -.0235 RC3-1.6385 FAU .20711
FDE-2.6760 FRA -.1169 FC-23.3470 BSP 4038
BDE .2544 BRA .2839 BC3 2.2652 FSP -3862

MID-COURSE EXECUTION ACCURACY
SGT 1066.1 SGR 1033.2 SG3 1216.1
RRT .8259 RRF .9954 RTF .8275
SGB 1484.6 R23 .2947 R13 .9508
SG1 1418.5 SG2 437.8 THA 43.91

ORBIT DETERMINATION ACCURACY
ST 261.5 SR 491.3 SS 1412.4
CRT .7534 CRS -.9998 CST -.7431
LSA 1508.2 MSA 173.4 SSA 7.3
EL1 533.5 EL2 158.4 ALF 65.89

LAUNCH DATE JUN 13 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 29 1967

DISTANCE 381.094

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 26.952 GAL -1.64 AZL 91.64 HCA 170.50 SMA 130.03 ECC .17074 INC 1.6386 V1 29.325
RP 107.83 LAP -.27 LOP 71.82 VP 37.958 GAP -.22 AZP 88.38 TAL 187.99 TAP 358.49 RCA 107.83 APO 152.23 V2 35.143
RC 89.996 GL -16.65 GP -22.71 ZAL 110.66 ZAP 91.10 ETS 359.90 ZAE 159.42 ETE 246.53 ZAC 108.84 ETC 8.33 CLP -91.19

PLANETOCENTRIC CONIC
C3 7.223 VHL 2.688 DLA -4.05 RAL 146.03 RAD 6567.2 VEL 11.341 PTH 1.95 VHP 3.033 DPA -10.36 RAP 154.91 ECC 1.1189

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 13 20	1874.73	-10.14	21.00	352.97	116.58	4 44 35	1274.7	-6.49	14.23
90.00	15 11 5	4770.53	17.34	204.93	353.88	67.26	16 30 35	4170.5	14.11	197.75
100.00	5 32 47	1618.46	-10.85	1.79	352.59	118.02	5 59 45	1018.5	-7.02	355.09
100.00	16 34 19	4502.03	18.08	184.85	353.54	65.78	17 49 21	3902.0	14.65	177.73
110.00	6 36 40	1418.45	-12.75	345.49	351.47	121.99	7 0 18	818.4	-8.43	339.05
110.00	17 46 55	4274.81	20.04	166.58	352.52	61.71	18 58 10	3674.8	16.10	159.67

DIFFERENTIAL CORRECTIONS
TDE -.1111 TRA -.2656 TC3-2.2519 BAU .3125
RDE -.2382 RRA -.0015 RC3-2.3239 FAU .19657
FDE-2.0504 FRA .1042 FC-23.5594 BSP 5513
BDE .2629 BRA .2656 BC3 3.2360 FSP -3685

MID-COURSE EXECUTION ACCURACY
SGT 1357.8 SGR 1348.5 SG3 1157.7
RRT .8925 RRF .9984 RTF .8926
SGB 1913.6 R23 .2299 R13 .9715
SG1 1861.5 SG2 443.6 THA 44.78

ORBIT DETERMINATION ACCURACY
ST 294.0 SR 509.2 SS 1150.0
CRT .8137 CRS -.9998 CST -.8045
LSA 1280.2 MSA 171.1 SSA 6.8
EL1 567.7 EL2 153.3 ALF 62.68

LAUNCH DATE JUN 13 1967 FLIGHT TIME 140.00 ARRIVAL DATE OCT 31 1967

DISTANCE 387.435

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 26.948 GAL -1.57 AZL 90.73 HCA 173.72 SMA 130.00 ECC .17081 INC .7213 V1 29.325
RP 107.80 LAP -.08 LOP 75.05 VP 37.966 GAP .20 AZP 89.28 TAL 187.64 TAP 1.36 RCA 107.79 APO 152.21 V2 35.154
RC 92.232 GL -7.62 GP -32.37 ZAL 110.77 ZAP 95.71 ETS 356.91 ZAE 148.87 ETE 246.13 ZAC 111.88 ETC 3.93 CLP -96.77

PLANETOCENTRIC CONIC
C3 6.659 VHL 2.581 DLA 4.21 RAL 149.74 RAD 6567.2 VEL 11.316 PTH 1.95 VHP 3.303 DPA -18.52 RAP 149.15 ECC 1.1096

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 26 42	2116.99	-17.09	35.40	356.68	112.93	4 1 59	1517.0	-13.84	28.23
90.00	16 27 19	4499.72	9.56	188.86	355.79	63.22	17 42 19	3899.7	5.89	182.11
100.00	4 50 1	1848.26	-17.80	15.30	356.35	114.42	5 20 49	1248.3	-14.36	8.21
100.00	17 46 41	4243.68	10.25	169.67	355.42	61.77	18 57 25	3643.7	6.40	163.00
110.00	6 2 47	1620.52	-19.71	357.01	355.35	118.51	6 29 48	1020.5	-15.75	350.13
110.00	18 50 25	4044.19	12.09	153.44	354.33	57.78	19 57 49	3444.2	7.75	147.03

DIFFERENTIAL CORRECTIONS
TDE -.0365 TRA -.2055 TC3-3.0618 BAU .4152
RDE -.1660 RRA .0648 RC3-3.5173 FAU .16667
FDE -.8814 FRA .4479 FC-21.6682 BSP 7392
BDE .1700 BRA .2155 BC3 4.6633 FSP -3123

MID-COURSE EXECUTION ACCURACY
SGT 1647.1 SGR 1858.0 SG3 984.7
RRT .9256 RRF .9996 RTF .9255
SGB 2482.9 R23 .1678 R13 .9854
SG1 2437.0 SG2 475.4 THA 48.72

ORBIT DETERMINATION ACCURACY
ST 166.3 SR 375.1 SS 573.1
CRT .4248 CRS -.9992 CST -.3994
LSA 688.3 MSA 151.3 SSA 9.4
EL1 382.9 EL2 147.5 ALF 77.45

```
LAUNCH DATE  JUN 13 1967                          FLIGHT TIME 142.00                          ARRIVAL DATE  NOV  2 1967

 HELIOCENTRIC CONIC                                DISTANCE 393.751
  RL  151.93 LAL    -.00 LOL 261.32 VL  26.941 GAL  -1.48 AZL  87.90 HCA 176.95 SMA 129.95 ECC .17104 INC 2.0900 V1  29.325
  RP  107.77 LAP     .11 LOP  78.27 VP  37.971 GAP    .61 AZP  92.09 TAL 187.22 TAP   4.17 RCA 107.72 APO 152.18 V2  35.165
  RC  94.474 GL    21.01 GP  -53.39 ZAL 108.59 ZAP  97.53 ETS 350.74 ZAE 127.96 ETE 249.36 ZAC 113.15 ETC 353.67 CLP-102.69
 PLANETOCENTRIC CONIC
  C3   7.547 VHL  2.747 DLA  30.46 RAL 161.88 RAD 6567.2 VEL 11.355 PTH   1.96 VHP  4.521 DPA -36.94 RAP 137.38 ECC 1.1242
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM - INJ 2 LAT INJ 2 LONG
     78.27     21  9 18   3633.78     -25.80     142.65      16.65      73.21   22  9 51     3033.8      -27.85      134.40
    101.73      0 21 36   3027.24     -25.78      97.96      16.64      73.19    1 12  3     2427.2      -27.84       89.71
     78.27     21  9 18   3633.78     -25.80     142.65      16.65      73.21   22  9 51     3033.8      -27.85      134.40
    101.73      0 21 36   3027.24     -25.78      97.96      16.64      73.19    1 12  3     2427.2      -27.84       89.71
    110.00      3 16 41   2479.46     -34.01      58.06      18.35      86.37    3 58  1     1879.5      -34.14       48.82
    110.00     23 13 23   3229.56     -18.10     109.69      13.10      60.50   24  7 12     2629.6      -21.89      102.61
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
  TDE  .4345 TRA  .0164 TC3-3.2154 BAU  .5613      SGT 1985.9 SGR 2745.5 SG3  550.6          ST   907.7 SR   823.1 SS   771.6
  RDE  .3739 RRA  .3482 RC3-4.5391 FAU .09144      RRT  .9438 RRF  .9999 RTF  .9451          CRT  .9550 CRS-1.0000 CST -.9576
  FDE  .8999 FRA  .8134 FC-10.4889 BSP  10161      SGB 3388.5 R23  .1096 R13  .9939          LSA 1432.8 MSA  209.3 SSA    1.5
  BDE  .5732 BRA  .3485 BC3 5.5626 FSP  -1726      SG1 3345.4 SG2  538.5 THA  54.62          EL1 1211.6 EL2  182.9 ALF  42.07

LAUNCH DATE  JUN 13 1967                          FLIGHT TIME 144.00                          ARRIVAL DATE  NOV  4 1967

 HELIOCENTRIC CONIC                                DISTANCE 400.244
  RL  151.93 LAL    -.00 LOL 261.32 VL  26.931 GAL  -1.43 AZL 149.98 HCA 180.35 SMA 129.88 ECC .17150 INC59.9410 V1  29.325
  RP  107.73 LAP     .30 LOP  81.50 VP  37.973 GAP   1.06 AZP  30.03 TAL 186.91 TAP   7.26 RCA 107.61 APO 152.16 V2  35.175
  RC  96.719 GL   -55.77 GP   65.75 ZAL  91.73 ZAP  91.46 ETS 177.87 ZAE  62.72 ETE 270.38 ZAC  76.91 ETC 175.47 CLP  93.55
 PLANETOCENTRIC CONIC
  C3 794.937 VHL 28.195 DLA -45.47 RAL 141.76 RAD 6572.8 VEL 30.269 PTH   3.45 VHP 34.761 DPA  52.55 RAP 319.30 ECC14.0826
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     52.80      5 33 47   2258.81        .26      57.76      51.50     135.47    6 11 26     1658.8       5.95       52.55
    127.20     13 16 36    839.83        .27     307.68      51.51     135.47   13 30 36      239.8       5.97      302.47
     52.80      5 33 47   2258.81        .26      57.76      51.50     135.47    6 11 26     1658.8       5.95       52.55
    127.20     13 16 36    839.83        .27     307.68      51.51     135.47   13 30 36      239.8       5.97      302.47
     52.80      5 33 47   2258.81        .26      57.76      51.50     135.47    6 11 26     1658.8       5.95       52.55
    127.20     13 16 36    839.83        .27     307.68      51.51     135.47   13 30 36      239.8       5.97      302.47
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
  TDE 4.5572 TRA 1.9757 TC3 -.1113 BAU 3.3657      SGT 1256.8 SGR 3404.0 SG3   61.9          ST   942.1 SR  2964.5 SS  1906.7
  RD-14.5851 RRA -.2931 RC3  .2965 FAU-.05417      RRT -.8983 RRF  .9995 RTF -.8906          CRT -.9848 CRS-1.0000 CST  .9841
  FDE-3.1236 FRA -.0336 FC3  .0590 BSP  17236      SGB 3628.6 R23 -.0658 R13  .9974          LSA 3644.9 MSA  159.6 SSA    1.8
  BDE15.2805 BRA 1.9973 BC3  .3167 FSP    271      SG1 3590.6 SG2  523.5 THA 108.76          EL1 3106.6 EL2  156.3 ALF 107.42

LAUNCH DATE  JUN 13 1967                          FLIGHT TIME 146.00                          ARRIVAL DATE  NOV  6 1967

 HELIOCENTRIC CONIC                                DISTANCE 406.370
  RL  151.93 LAL    -.00 LOL 261.32 VL  26.918 GAL  -1.29 AZL  98.24 HCA 183.44 SMA 129.80 ECC .17195 INC 8.2416 V1  29.325
  RP  107.70 LAP     .49 LOP  84.72 VP  37.974 GAP   1.42 AZP  81.77 TAL 186.24 TAP   9.68 RCA 107.48 APO 152.11 V2  35.185
  RC  98.967 GL   -54.00 GP   48.37 ZAL  99.48 ZAP 104.92 ETS  18.81 ZAE 124.58 ETE 121.46 ZAC  94.17 ETC  28.30 CLP-112.81
 PLANETOCENTRIC CONIC
  C3  22.741 VHL  4.769 DLA -40.06 RAL 134.13 RAD 6567.9 VEL 12.005 PTH   2.14 VHP  4.311 DPA  57.10 RAP 183.70 ECC 1.3743
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     60.39      5 34 37   1548.05       26.02      17.64       8.62     121.60    6  0 25      948.1      30.00       10.19
    119.61     12 14 51   5586.56       26.04     260.45       8.63     121.59   13 47 58     4986.6      30.01      253.00
     60.39      5 34 37   1548.05       26.02      17.64       8.62     121.60    6  0 25      948.1      30.00       10.19
    119.61     12 14 51   5586.56       26.04     260.45       8.63     121.59   13 47 58     4986.6      30.01      253.00
     60.39      5 34 37   1548.05       26.02      17.64       8.62     121.60    6  0 25      948.1      30.00       10.19
    119.61     12 14 51   5586.56       26.04     260.45       8.63     121.59   13 47 58     4986.6      30.01      253.00
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
  TDE-1.6151 TRA -.7840 TC3-1.3291 BAU  .5345      SGT 2624.4 SGR 2429.8 SG3  621.4          ST  1975.7 SR  2123.7 SS  2311.5
  RDE 1.7636 RRA  .2918 RC3 1.1506 FAU .09217      RRT -.9514 RRF -.9997 RTF  .9582          CRT -.9924 CRS 1.0000 CST -.9933
  FDE-5.1511 FRA -.9483 FC3-3.5091 BSP  11179      SGB 3576.5 R23  .1453 R13 -.9893          LSA 3703.6 MSA  199.7 SSA     .9
  BDE 2.3914 BRA  .8366 BC3 1.7580 FSP  -1995      SG1 3533.1 SG2  555.9 THA 137.32          EL1 2895.1 EL2  178.2 ALF 132.92

LAUNCH DATE  JUN 13 1967                          FLIGHT TIME 148.00                          ARRIVAL DATE  NOV  8 1967

 HELIOCENTRIC CONIC                                DISTANCE 412.635
  RL  151.93 LAL    -.00 LOL 261.32 VL  26.903 GAL  -1.17 AZL  95.88 HCA 186.67 SMA 129.70 ECC .17260 INC 5.8776 V1  29.325
  RP  107.67 LAP     .68 LOP  87.95 VP  37.972 GAP   1.80 AZP  84.16 TAL 185.64 TAP  12.30 RCA 107.31 APO 152.08 V2  35.195
  RC 101.218 GL   -45.90 GP   28.68 ZAL 100.96 ZAP 113.04 ETS  14.48 ZAE 139.48 ETE 135.01 ZAC 103.11 ETC  25.55 CLP-116.49
 PLANETOCENTRIC CONIC
  C3  14.713 VHL  3.836 DLA -32.95 RAL 138.97 RAD 6567.6 VEL 11.666 PTH   2.05 VHP  3.467 DPA  40.50 RAP 167.29 ECC 1.2421
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     72.41      6 59 20   1251.95       24.58     353.08       4.05     112.66    7 20 12      651.9      27.43      345.18
    107.59     11 28 47   5679.20       24.60     267.04       4.06     112.64   13  3 26     5079.2      27.44      259.14
     72.41      6 59 20   1251.95       24.58     353.08       4.05     112.66    7 20 12      651.9      27.43      345.18
    107.59     11 28 47   5679.20       24.60     267.04       4.06     112.64   13  3 26     5079.2      27.44      259.14
    110.00     10 34 13   5847.13       18.98     277.10       1.14     118.98   12 11 40     5247.1      22.70      269.93
    110.00     12 53  4   5420.06       30.46     249.33       6.40     106.32   14 23 24     4820.1      32.39      240.65
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
  TDE-1.3119 TRA -.5820 TC3-2.3149 BAU  .5032      SGT 2840.3 SGR 1450.0 SG3  898.1          ST  1984.8 SR  1179.5 SS  2466.0
  RDE  .7890 RRA  .0709 RC3 1.0886 FAU .13893      RRT -.9527 RRF -.9993 RTF  .9594          CRT -.9922 CRS 1.0000 CST -.9928
  FDE-5.5062 FRA -.5796 FC3-8.1752 BSP   9426      SGB 3189.0 R23  .2208 R13 -.9749          LSA 3372.6 MSA  193.9 SSA    1.5
  BDE 1.5309 BRA  .5863 BC3 2.5581 FSP  -2712      SG1 3164.3 SG2  395.7 THA 153.62          EL1 2305.4 EL2  126.9 ALF 149.37
```

LAUNCH DATE JUN 13 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 10 1967

HELIOCENTRIC CONIC DISTANCE 418.877

```
RL  151.93 LAL   -.00 LOL 261.32 VL  26.887 GAL  -1.05 AZL  95.05 HCA 189.90 SMA 129.58 ECC .17339 INC 5.0526 V1  29.325
RP  107.65 LAP    .87 LOP  91.19 VP  37.968 GAP   2.19 AZP  85.02 TAL 184.99 TAP  14.90 RCA 107.11 APO 152.05 V2  35.204
RC 103.470 GL  -41.96 GP   19.58 ZAL 100.90 ZAP 118.54 ETS  12.15 ZAE 143.57 ETE 147.17 ZAC 107.38 ETC  23.61 CLP-120.47
```

PLANETOCENTRIC CONIC

```
C3  12.538 VHL  3.541 DLA -29.73 RAL 141.80 RAD 6567.5 VEL 11.573 PTH   2.02 VHP  3.350 DPA  32.51 RAP 161.80 ECC 1.2064
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.54	8 8 4	1036.02	23.10	336.17	3.48	109.26	8 25 20	436.0	25.51	328.22
99.46	10 42 35	5825.40	23.10	277.43	3.48	109.25	12 19 41	5225.4	25.52	269.48
100.00	.10 20 31	607.90	21.23	304.01	2.73	111.55	10 30 39	7.9	23.97	296.29
100.00	11 12 50	5728.75	25.00	270.93	4.16	106.95	12 48 19	5128.8	27.08	262.75
110.00	9 44 12	722.48	13.35	308.50	358.59	121.77	9 56 15	122.5	17.45	301.79
110.00	14 5 38	5186.93	33.63	231.93	6.21	96.51	15 32 5	4586.9	34.17	222.73

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE-1.2750 TRA -.5180 TC3-3.0389 BAU  .5290   SGT 3133.6 SGR  985.1 SG3  981.6     ST  2084.3 SR   777.6 SS  2448.6
 RDE  .4803 RRA  .0283 RC3  .8515 FAU .15457   RRT -.9563 RRF -.9976 RTF  .9654     CRT -.9929 CRS 1.0000 CST -.9934
 FDE-5.2245 FRA -.3665 FC-10.6728 BSP  9964    SGB 3284.8 R23  .2297 R13 -.9715     LSA 3303.0 MSA  187.0 SSA    2.5
 BDE 1.3625 BRA  .5188 BC3 3.1559 FSP  -3101   SG1 3273.2 SG2  275.7 THA 163.14     EL1 2223.0 EL2   86.7 ALF 159.64
```

LAUNCH DATE JUN 13 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 12 1967

HELIOCENTRIC CONIC DISTANCE 425.105

```
RL  151.93 LAL   -.00 LOL 261.32 VL  26.868 GAL   -.91 AZL  94.63 HCA 193.14 SMA 129.45 ECC .17432 INC 4.6311 V1  29.325
RP  107.62 LAP   1.05 LOP  94.42 VP  37.962 GAP   2.56 AZP  85.49 TAL 184.30 TAP  17.44 RCA 106.89 APO 152.02 V2  35.212
RC 105.723 GL  -39.64 GP   14.55 ZAL 100.23 ZAP 123.00 ETS  10.70 ZAE 144.02 ETE 155.85 ZAC 109.73 ETC  22.27 CLP-124.25
```

PLANETOCENTRIC CONIC

```
C3  11.559 VHL  3.400 DLA -28.07 RAL 144.01 RAD 6567.4 VEL 11.530 PTH   2.01 VHP  3.379 DPA  28.06 RAP 159.01 ECC 1.1902
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 1 11	876.53	20.01	323.27	3.22	110.46	9 15 47	276.5	22.62	315.57
90.00	10 7 5	662.55	24.45	309.16	4.74	104.75	10 18 8	62.5	26.24	300.95
100.00	9 27 59	789.85	16.27	315.25	1.55	115.43	9 41 8	189.9	19.56	308.00
100.00	12 22 59	5512.50	28.41	255.79	5.70	99.70	13 54 51	4912.5	29.46	247.14
110.00	9 31 4	780.13	11.26	311.66	358.70	122.49	9 44 4	180.1	15.46	305.08
110.00	14 36 22	5094.98	34.11	224.80	6.40	92.32	16 1 17	4495.0	34.06	215.55

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE-1.2891 TRA -.4638 TC3-3.5722 BAU  .5600   SGT 3377.0 SGR  697.5 SG3  968.5     ST  2189.9 SR   560.1 SS  2358.0
 RDE  .3323 RRA  .0085 RC3  .6112 FAU .15262   RRT -.9511 RRF -.9918 RTF  .9674     CRT -.9936 CRS 1.0000 CST -.9936
 FDE-4.7912 FRA -.1194 FC-11.4304 BSP  10473   SGB 3448.3 R23  .2205 R13 -.9702     LSA 3261.2 MSA  184.0 SSA    3.6
 BDE 1.3313 BRA  .4639 BC3 3.6241 FSP  -3059   SG1 3441.8 SG2  211.4 THA 168.84     EL1 2259.5 EL2   61.5 ALF 165.73
```

LAUNCH DATE JUN 13 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 14 1967

HELIOCENTRIC CONIC DISTANCE 431.314

```
RL  151.93 LAL   -.00 LOL 261.32 VL  26.847 GAL   -.75 AZL  94.37 HCA 196.38 SMA 129.31 ECC .17537 INC 4.3738 V1  29.325
RP  107.60 LAP   1.23 LOP  97.66 VP  37.955 GAP   2.94 AZP  85.80 TAL 183.55 TAP  19.93 RCA 106.64 APO 151.99 V2  35.220
RC 107.975 GL  -38.09 GP   11.41 ZAL  99.23 ZAP 126.90 ETS   9.71 ZAE 143.18 ETE 161.79 ZAC 111.11 ETC  21.27 CLP-127.77
```

PLANETOCENTRIC CONIC

```
C3  11.017 VHL  3.319 DLA -27.17 RAL 145.99 RAD 6567.4 VEL 11.507 PTH   2.00 VHP  3.458 DPA  25.24 RAP 157.43 ECC 1.1813
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 31 16	990.74	17.14	330.41	3.34	112.89	8 47 46	390.7	20.09	322.98
90.00	10 52 51	5816.48	26.45	277.76	6.34	100.50	12 29 48	5216.5	27.63	269.29
100.00	9 16 34	844.37	14.65	318.48	2.16	116.35	9 30 38	244.4	18.07	311.36
100.00	12 50 14	5438.08	29.15	250.38	6.81	96.94	14 20 52	4838.1	29.80	241.64
110.00	9 28 24	807.19	10.26	313.12	359.61	122.79	9 41 51	207.2	14.51	306.60
110.00	14 54 53	5048.03	34.18	221.13	7.18	90.15	16 19 1	4448.0	33.83	211.91

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE-1.3272 TRA -.4158 TC3-4.0152 BAU  .5946   SGT 3606.2 SGR  518.5 SG3  930.5     ST  2305.2 SR   435.5 SS  2272.2
 RDE  .2522 RRA  .0018 RC3  .4241 FAU .14622   RRT -.9364 RRF -.9772 RTF  .9690     CRT -.9946 CRS  .9999 CST -.9939
 FDE-4.4035 FRA  .0728 FC-11.4904 BSP  11113   SGB 3643.2 R23  .1925 R13 -.9703     LSA 3261.0 MSA  180.5 SSA    4.7
 BDE 1.3510 BRA  .4158 BC3 4.0375 FSP  -2951   SG1 3638.8 SG2  180.4 THA 172.31     EL1 2345.6 EL2   44.4 ALF 169.36
```

LAUNCH DATE JUN 13 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 16 1967

HELIOCENTRIC CONIC DISTANCE 437.504

```
RL  151.93 LAL   -.00 LOL 261.32 VL  26.825 GAL   -.59 AZL  94.20 HCA 199.62 SMA 129.16 ECC .17655 INC 4.1997 V1  29.325
RP  107.58 LAP   1.41 LOP 100.89 VP  37.946 GAP   3.31 AZP  86.04 TAL 182.76 TAP  22.38 RCA 106.36 APO 151.97 V2  35.227
RC 110.226 GL  -36.94 GP    9.27 ZAL  98.02 ZAP 130.40 ETS   8.97 ZAE 141.89 ETE 165.92 ZAC 111.87 ETC  20.49 CLP-131.04
```

PLANETOCENTRIC CONIC

```
C3  10.686 VHL  3.269 DLA -26.69 RAL 147.92 RAD 6567.4 VEL 11.492 PTH   2.00 VHP  3.562 DPA  23.26 RAP 156.55 ECC 1.1759
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 25 42	1028.48	16.12	332.72	4.41	113.60	8 42 51	428.5	19.18	325.38
90.00	11 13 45	5766.28	27.02	274.20	7.81	98.81	12 49 52	5166.3	27.96	265.66
100.00	9 15 26	867.88	13.94	319.86	3.35	116.71	9 29 54	267.9	17.41	312.80
100.00	13 6 43	5402.12	29.41	247.74	8.15	95.58	14 36 45	4802.1	29.88	238.97
110.00	9 30 49	819.55	9.81	313.79	.93	122.91	9 44 29	219.5	14.07	307.29
110.00	15 7 49	5023.21	34.17	219.19	8.38	89.00	16 31 32	4423.2	33.65	209.99

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE-1.3778 TRA -.3660 TC3-4.3957 BAU  .6292   SGT 3821.9 SGR  402.2 SG3  883.1     ST  2426.1 SR   359.0 SS  2195.4
 RDE  .2048 RRA  .0004 RC3  .2776 FAU .13802   RRT -.9035 RRF -.9450 RTF  .9698     CRT -.9959 CRS  .9997 CST -.9941
 FDE-4.0667 FRA  .2399 FC-11.1814 BSP  11794   SGB 3843.0 R23  .1563 R13 -.9705     LSA 3286.8 MSA  177.6 SSA    5.9
 BDE 1.3930 BRA  .3660 BC3 4.4045 FSP  -2816   SG1 3839.2 SG2  171.6 THA 174.56     EL1 2452.3 EL2   32.2 ALF 171.62
```

LAUNCH DATE JUN 13 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 18 1967

HELIOCENTRIC CONIC DISTANCE 443.676

```
RL  151.93 LAL   -.00 LOL 261.32 VL  26.801 GAL   -.42 AZL  94.07 HCA 202.86 SMA 129.00 ECC .17785 INC 4.0734 V1  29.325
RP  107.56 LAP   1.58 LOP 104.13 VP  37.935 GAP   3.67 AZP  86.25 TAL 181.93 TAP  24.79 RCA 106.06 APO 151.95 V2  35.233
RC 112.475 GL  -36.02 GP    7.74 ZAL  96.63 ZAP 133.58 ETS   8.40 ZAE 140.47 ETE 168.86 ZAC 112.18 ETC  19.83 CLP-134.08
```

PLANETOCENTRIC CONIC

```
C3  10.480 VHL  3.237 DLA -26.49 RAL 149.85 RAD 6567.4 VEL 11.483 PTH   2.00 VHP  3.682 DPA  21.75 RAP 156.16 ECC 1.1725
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 28 19	1041.58	15.76	333.51	5.91	113.83	8 45 40	441.6	18.85	326.20
90.00	11 26 34	5745.27	27.23	272.69	9.43	98.08	13 2 19	5145.3	28.07	264.13
100.00	9 19 32	876.13	13.68	320.35	4.90	116.84	9 34 9	276.1	17.18	313.30
100.00	13 18 1	5385.96	29.52	246.55	9.73	94.96	14 47 47	4786.0	29.89	237.77
110.00	9 36 19	823.47	9.66	314.00	2.54	122.95	9 50 3	223.5	13.94	307.51
110.00	15 17 44	5011.38	34.15	218.27	9.89	88.45	16 41 15	4411.4	33.56	209.08

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.4350 TRA -.3129 TC3-4.7235 BAU  .6622   SGT 4023.2 SGR  327.4 SG3  832.6      ST  2548.3 SR   310.4 SS  2126.5
RDE  .1753 RRA  .0020 RC3  .1612 FAU .12915   RRT -.8424 RRF -.8843 RTF  .9703     CRT -.9973 CRS  .9991 CST -.9943
FDE-3.7728 FRA  .3798 FC-10.6692 BSP  12443   SGB 4036.5 R23  .1211 R13 -.9707     LSA 3328.9 MSA  174.4 SSA    7.0
BDE 1.4457 BRA  .3129 BC3 4.7263 FSP  -2662   SG1 4032.7 SG2  176.0 THA 176.07     EL1 2567.0 EL2   22.7 ALF 173.07
```

LAUNCH DATE JUN 13 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 20 1967

HELIOCENTRIC CONIC DISTANCE 449.829

```
RL  151.93 LAL   -.00 LOL 261.32 VL  26.776 GAL   -.23 AZL  93.98 HCA 206.11 SMA 128.83 ECC .17929 INC 3.9768 V1  29.325
RP  107.54 LAP   1.75 LOP 107.37 VP  37.923 GAP   4.04 AZP  86.43 TAL 181.05 TAP  27.16 RCA 105.74 APO 151.93 V2  35.239
RC 114.720 GL  -35.24 GP    6.59 ZAL  95.11 ZAP 136.50 ETS   7.93 ZAE 139.07 ETE 171.03 ZAC 112.15 ETC  19.25 CLP-136.91
```

PLANETOCENTRIC CONIC

```
C3  10.357 VHL  3.218 DLA -26.47 RAL 151.83 RAD 6567.4 VEL 11.478 PTH   2.00 VHP  3.812 DPA  20.53 RAP 156.14 ECC 1.1705
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 35 35	1041.28	15.77	333.50	7.72	113.83	8 52 56	441.3	18.86	326.18
90.00	11 35 4	5740.83	27.27	272.38	11.23	97.93	13 10 45	5140.8	28.09	263.80
100.00	9 26 59	875.26	13.71	320.30	6.71	116.82	9 41 34	275.3	17.20	313.24
100.00	13 26 21	5382.08	29.54	246.27	11.51	94.81	14 56 3	4782.1	29.89	237.48
110.00	9 43 56	822.08	9.71	313.92	4.36	122.94	9 57 38	222.1	13.98	307.43
110.00	15 25 54	5008.03	34.15	218.01	11.66	88.30	16 49 22	4408.0	33.53	208.82

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.4940 TRA -.2524 TC3-5.0067 BAU  .6933   SGT 4208.6 SGR  282.7 SG3  783.0      ST  2665.9 SR   279.0 SS  2061.9
RDE  .1567 RRA  .0052 RC3  .0686 FAU .12054   RRT -.7478 RRF -.7884 RTF  .9706     CRT -.9985 CRS  .9979 CST -.9945
FDE-3.5105 FRA  .5047 FC-10.0757 BSP  13068   SGB 4218.0 R23  .0920 R13 -.9708     LSA 3377.4 MSA  170.8 SSA    8.1
BDE 1.5022 BRA  .2524 BC3 5.0072 FSP  -2519   SG1 4213.9 SG2  187.4 THA 177.12     EL1 2680.4 EL2   15.3 ALF 174.03
```

LAUNCH DATE JUN 13 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 22 1967

HELIOCENTRIC CONIC DISTANCE 455.964

```
RL  151.93 LAL   -.00 LOL 261.32 VL  26.750 GAL   -.03 AZL  93.90 HCA 209.35 SMA 128.66 ECC .18086 INC 3.9003 V1  29.325
RP  107.52 LAP   1.91 LOP 110.62 VP  37.909 GAP   4.40 AZP  86.60 TAL 180.14 TAP  29.49 RCA 105.39 APO 151.93 V2  35.244
RC 116.961 GL  -34.54 GP    5.70 ZAL  93.45 ZAP 139.20 ETS   7.54 ZAE 137.74 ETE 172.67 ZAC 111.84 ETC  18.72 CLP-139.53
```

PLANETOCENTRIC CONIC

```
C3  10.299 VHL  3.209 DLA -26.56 RAL 153.87 RAD 6567.4 VEL 11.476 PTH   1.99 VHP  3.950 DPA  19.48 RAP 156.42 ECC 1.1695
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 46 6	1032.18	16.02	332.94	9.77	113.67	9 3 19	432.2	19.09	325.61
90.00	11 40 50	5747.65	27.21	272.86	13.19	98.16	13 16 38	5147.6	28.06	264.30
100.00	9 36 50	868.36	13.92	319.89	8.74	116.72	9 51 18	268.4	17.40	312.82
100.00	13 32 48	5386.70	29.51	246.61	13.49	94.99	15 2 35	4786.7	29.89	237.82
110.00	9 53 8	817.20	9.89	313.66	6.39	122.89	10 6 45	217.2	14.16	307.16
110.00	15 33 0	5010.63	34.15	218.21	13.65	88.42	16 56 30	4410.6	33.56	209.02

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.5652 TRA -.2474 TC3-5.3491 BAU  .7365   SGT 4454.2 SGR  262.5 SG3  749.0      ST  2800.2 SR   260.9 SS  2019.2
RDE  .1461 RRA  .0151 RC3  .0038 FAU .11668   RRT -.6430 RRF -.6732 RTF  .9773     CRT -.9992 CRS  .9967 CST -.9957
FDE-3.3093 FRA  .3926 FC3-9.8085 BSP  14138   SGB 4461.9 R23  .0569 R13 -.9774     LSA 3458.8 MSA  152.0 SSA    9.2
BDE 1.5720 BRA  .2478 BC3 5.3491 FSP  -2529   SG1 4457.4 SG2  200.9 THA 177.83     EL1 2812.4 EL2   10.6 ALF 174.68
```

LAUNCH DATE JUN 13 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 24 1967

HELIOCENTRIC CONIC DISTANCE 462.079

```
RL  151.93 LAL   -.00 LOL 261.32 VL  26.722 GAL    .18 AZL  93.84 HCA 212.60 SMA 128.48 ECC .18257 INC 3.8377 V1  29.325
RP  107.51 LAP   2.07 LOP 113.86 VP  37.893 GAP   4.76 AZP  86.77 TAL 179.19 TAP  31.79 RCA 105.02 APO 151.93 V2  35.248
RC 119.197 GL  -33.88 GP    4.99 ZAL  91.69 ZAP 141.70 ETS   7.21 ZAE 136.50 ETE 173.94 ZAC 111.29 ETC  18.24 CLP-141.98
```

PLANETOCENTRIC CONIC

```
C3  10.294 VHL  3.208 DLA -26.75 RAL 155.99 RAD 6567.4 VEL 11.475 PTH   1.99 VHP  4.095 DPA  18.54 RAP 156.94 ECC 1.1694
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 59 18	1016.27	16.45	331.98	12.04	113.38	9 16 15	416.3	19.48	324.61
90.00	11 44 35	5763.36	27.05	273.99	15.32	98.71	13 20 38	5163.4	27.98	265.44
100.00	9 48 36	857.04	14.27	319.23	10.99	116.55	10 2 53	257.0	17.72	312.14
100.00	13 37 58	5397.82	29.44	247.43	15.65	95.41	15 7 56	4797.8	29.88	238.65
110.00	10 3 37	809.90	10.16	313.27	8.59	122.81	10 17 7	209.9	14.42	306.75
110.00	15 39 26	5017.73	34.16	218.77	15.85	88.75	17 3 4	4417.7	33.61	209.57

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.6186 TRA -.1084 TC3-5.4365 BAU  .7482   SGT 4535.6 SGR  253.2 SG3  687.0      ST  2893.1 SR   247.9 SS  1943.8
RDE  .1387 RRA  .0144 RC3 -.0685 FAU .10345   RRT -.4953 RRF -.5308 RTF  .9701     CRT -.9991 CRS  .9929 CST -.9948
FDE-3.0653 FRA  .7229 FC3-8.7007 BSP  14114   SGB 4542.6 R23  .0566 R13 -.9702     LSA 3490.4 MSA  164.2 SSA   10.4
BDE 1.6245 BRA  .1093 BC3 5.4369 FSP  -2211   SG1 4537.3 SG2  219.9 THA 178.41     EL1 2903.7 EL2   10.7 ALF 175.11
```

LAUNCH DATE JUN 13 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 26 1967

HELIOCENTRIC CONIC DISTANCE 468.174
RL 151.93 LAL -.00 LOL 261.32 VL 26.694 GAL .41 AZL 93.79 HCA 215.84 SMA 128.29 ECC .18441 INC 3.7854 V1 29.325
RP 107.50 LAP 2.22 LOP 117.10 VP 37.877 GAP 5.12 AZP 86.93 TAL 178.20 TAP 34.05 RCA 104.63 APO 151.94 V2 35.252
RC 121.426 GL -33.24 GP 4.42 ZAL 89.82 ZAP 144.03 ETS 6.92 ZAE 135.38 ETE 174.94 ZAC 110.55 ETC 17.79 CLP-144.26
PLANETOCENTRIC CONIC
C3 10.338 VHL 3.215 DLA -26.99 RAL 158.19 RAD 6567.4 VEL 11.477 PTH 2.00 VHP 4.246 DPA 17.67 RAP 157.67 ECC 1.1701

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 14 50	994.73	17.03	330.66	14.52	112.97	9 31 25	394.7	20.00	323.24
90.00	11 46 38	5786.62	26.80	275.64	17.59	99.50	13 23 5	5186.6	27.84	267.13
100.00	10 1 56	842.56	14.71	318.38	13.42	116.32	10 15 59	242.6	18.13	311.25
100.00	13 42 13	5414.03	29.33	248.62	17.98	96.03	15 12 27	4814.0	29.86	239.85
110.00	10 15 8	801.10	10.49	312.79	10.97	122.72	10 28 29	201.1	14.73	306.26
110.00	15 45 30	5028.25	34.18	219.59	18.24	89.23	17 9 18	4428.2	33.69	210.38

DIFFERENTIAL CORRECTIONS
TDE-1.6837 TRA -.0278 TC3-5.6096 BAU .7754
RDE .1359 RRA .0200 RC3 -.1165 FAU .09630
FDE-2.8774 FRA .8077 FC3-8.0643 BSP 14568
BDE 1.6892 BRA .0343 BC3 5.6108 FSP -2057

MID-COURSE EXECUTION ACCURACY
SGT 4692.3 SGR 256.6 SG3 645.4
RRT -.3809 RRF -.4114 RTF .9701
SGB 4699.3 R23 .0444 R13 -.9702
SG1 4693.3 SG2 237.3 THA 178.80

ORBIT DETERMINATION ACCURACY
ST 3002.4 SR 242.5 SS 1890.2
CRT -.9980 CRS .9889 CST -.9950
LSA 3552.5 MSA 160.6 SSA 11.5
EL1 3012.1 EL2 15.2 ALF 175.39

LAUNCH DATE JUN 13 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 28 1967

HELIOCENTRIC CONIC DISTANCE 474.250
RL 151.93 LAL -.00 LOL 261.32 VL 26.664 GAL .64 AZL 93.74 HCA 219.09 SMA 128.09 ECC .18640 INC 3.7407 V1 29.325
RP 107.49 LAP 2.36 LOP 120.35 VP 37.859 GAP 5.48 AZP 87.10 TAL 177.19 TAP 36.28 RCA 104.22 APO 151.97 V2 35.255
RC 123.648 GL -32.59 GP 3.96 ZAL 87.86 ZAP 146.20 ETS 6.66 ZAE 134.35 ETE 175.74 ZAC 109.63 ETC 17.36 CLP-146.40
PLANETOCENTRIC CONIC
C3 10.429 VHL 3.229 DLA -27.28 RAL 160.48 RAD 6567.4 VEL 11.481 PTH 2.00 VHP 4.402 DPA 16.83 RAP 158.57 ECC 1.1716

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 32 40	967.64	17.74	328.99	17.21	112.44	9 48 48	367.6	20.63	321.51
90.00	11 47 3	5817.26	26.44	277.81	19.99	100.53	13 24 0	5217.3	27.62	269.35
100.00	10 16 37	825.64	15.22	317.38	16.03	116.04	10 30 23	225.6	18.59	310.22
100.00	13 45 47	5434.49	29.18	250.12	20.46	96.81	15 16 22	4834.5	29.81	241.37
110.00	10 27 31	791.44	10.84	312.27	13.51	122.62	10 40 42	191.4	15.07	305.72
110.00	15 51 23	5041.46	34.18	220.62	20.80	89.84	17 15 25	4441.5	33.78	211.40

DIFFERENTIAL CORRECTIONS
TDE-1.7480 TRA .0634 TC3-5.7289 BAU .7991
RDE .1359 RRA .0258 RC3 -.1553 FAU .08912
FDE-2.7051 FRA .8878 FC3-7.3983 BSP 15048
BDE 1.7533 BRA .0685 BC3 5.7310 FSP -1940

MID-COURSE EXECUTION ACCURACY
SGT 4829.7 SGR 266.2 SG3 604.9
RRT -.2879 RRF -.3149 RTF .9698
SGB 4837.0 R23 .0364 R13 -.9698
SG1 4830.3 SG2 254.9 THA 179.09

ORBIT DETERMINATION ACCURACY
ST 3103.6 SR 241.6 SS 1837.2
CRT -.9959 CRS .9840 CST -.9952
LSA 3611.2 MSA 157.0 SSA 12.5
EL1 3112.9 EL2 21.7 ALF 175.57

LAUNCH DATE JUN 13 1967 FLIGHT TIME 170.00 ARRIVAL DATE NOV 30 1967

HELIOCENTRIC CONIC DISTANCE 480.306
RL 151.93 LAL -.00 LOL 261.32 VL 26.634 GAL .90 AZL 93.70 HCA 222.34 SMA 127.89 ECC .18855 INC 3.7017 V1 29.325
RP 107.48 LAP 2.49 LOP 123.60 VP 37.839 GAP 5.84 AZP 87.26 TAL 176.14 TAP 38.48 RCA 103.78 APO 152.01 V2 35.257
RC 125.861 GL -31.93 GP 3.57 ZAL 85.82 ZAP 148.23 ETS 6.44 ZAE 133.42 ETE 176.39 ZAC 108.55 ETC 16.96 CLP-148.41
PLANETOCENTRIC CONIC
C3 10.568 VHL 3.251 DLA -27.59 RAL 162.85 RAD 6567.4 VEL 11.487 PTH 2.00 VHP 4.563 DPA 16.02 RAP 159.63 ECC 1.1739

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 53 7	934.09	18.60	326.90	20.11	111.74	10 8 42	334.1	21.39	319.34
90.00	11 45 31	5856.17	25.92	280.55	22.50	101.81	13 23 7	5256.2	27.29	272.15
100.00	10 32 29	806.90	15.77	316.27	18.81	115.73	10 45 56	206.9	19.11	309.06
100.00	13 48 50	5458.60	28.97	251.88	23.09	97.71	15 19 49	4858.6	29.73	243.16
110.00	10 40 34	781.47	11.21	311.73	16.20	122.51	10 53 36	181.5	15.42	305.15
110.00	15 57 14	5056.79	34.18	221.82	23.53	90.55	17 21 31	4456.8	33.88	212.58

DIFFERENTIAL CORRECTIONS
TDE-1.8126 TRA .1632 TC3-5.8106 BAU .8214
RDE .1382 RRA .0317 RC3 -.1852 FAU .08252
FDE-2.5488 FRA .9597 FC3-6.7599 BSP 15462
BDE 1.8179 BRA .1663 BC3 5.8136 FSP -1822

MID-COURSE EXECUTION ACCURACY
SGT 4958.2 SGR 279.0 SG3 567.5
RRT -.2191 RRF -.2429 RTF .9696
SGB 4966.1 R23 .0306 R13 -.9696
SG1 4958.6 SG2 272.2 THA 179.29

ORBIT DETERMINATION ACCURACY
ST 3198.2 SR 244.4 SS 1785.9
CRT -.9929 CRS .9783 CST -.9954
LSA 3668.0 MSA 153.5 SSA 13.6
EL1 3207.4 EL2 28.9 ALF 175.66

LAUNCH DATE JUN 13 1967 FLIGHT TIME 172.00 ARRIVAL DATE DEC 2 1967

HELIOCENTRIC CONIC DISTANCE 486.340
RL 151.93 LAL -.00 LOL 261.32 VL 26.603 GAL 1.16 AZL 93.67 HCA 225.58 SMA 127.69 ECC .19085 INC 3.6674 V1 29.325
RP 107.48 LAP 2.62 LOP 126.85 VP 37.819 GAP 6.20 AZP 87.43 TAL 175.07 TAP 40.65 RCA 103.32 APO 152.06 V2 35.258
RC 128.066 GL -31.25 GP 3.24 ZAL 83.70 ZAP 150.14 ETS 6.25 ZAE 132.58 ETE 176.92 ZAC 107.34 ETC 16.58 CLP-150.30
PLANETOCENTRIC CONIC
C3 10.757 VHL 3.280 DLA -27.92 RAL 165.30 RAD 6567.4 VEL 11.495 PTH 2.00 VHP 4.728 DPA 15.22 RAP 160.81 ECC 1.1770

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 17 16	890.59	19.67	324.16	23.25	110.78	10 32 7	290.6	22.33	316.49
90.00	11 40 54	618.83	25.17	306.16	25.07	103.42	11 51 13	18.8	26.77	297.86
100.00	10 49 23	786.79	16.36	315.06	21.76	115.37	11 2 29	186.8	19.65	307.81
100.00	13 51 29	5485.91	28.70	253.87	25.85	98.73	15 22 55	4885.9	29.61	245.18
110.00	10 54 11	771.69	11.57	311.20	19.04	122.39	11 7 3	171.7	15.76	304.60
110.00	16 3 10	5073.78	34.16	223.14	26.41	91.34	17 27 43	4473.8	33.97	213.90

DIFFERENTIAL CORRECTIONS
TDE-1.8796 TRA .2702 TC3-5.8596 BAU .8432
RDE .1425 RRA .0376 RC3 -.2073 FAU .07647
FDE-2.4090 FRA 1.0226 FC3-6.1546 BSP 15888
BDE 1.8850 BRA .2728 BC3 5.8633 FSP -1717

MID-COURSE EXECUTION ACCURACY
SGT 5083.3 SGR 293.2 SG3 533.3
RRT -.1711 RRF -.1925 RTF .9694
SGB 5091.8 R23 .0265 R13 -.9694
SG1 5083.6 SG2 288.9 THA 179.43

ORBIT DETERMINATION ACCURACY
ST 3289.4 SR 250.0 SS 1737.7
CRT -.9892 CRS .9721 CST -.9955
LSA 3725.5 MSA 150.2 SSA 14.5
EL1 3298.7 EL2 36.6 ALF 175.70

```
LAUNCH DATE  JUN 13 1967                          FLIGHT TIME 174.00                          ARRIVAL DATE  DEC  4 1967

  HELIOCENTRIC CONIC                              DISTANCE 492.353
   RL  151.93 LAL   -.00 LOL 261.32 VL  26.572 GAL   1.44 AZL  93.64 HCA 228.83 SMA 127.49 ECC .19331 INC 3.6367 V1  29.325
   RP  107.48 LAP   2.74 LOP 130.10 VP  37.797 GAP   6.56 AZP  87.60 TAL 173.97 TAP  42.80 RCA 102.84 APO 152.13 V2  35.259
   RC 130.261 GL  -30.53 GP    2.96 ZAL  81.52 ZAP 151.95 ETS   6.07 ZAE 131.82 ETE 177.37 ZAC 106.01 ETC  16.21 CLP-152.09
  PLANETOCENTRIC CONIC
   C3  10.999 VHL  3.316 DLA -28.24 RAL 167.82 RAD 6567.4 VEL 11.506 PTH   2.00 VHP  4.899 DPA  14.42 RAP 162.10 ECC 1.1810
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00    10 50 48    818.74      21.34     319.55      26.74      109.06   11  4 27     218.7       23.75      311.71
      90.00    11 27 29    699.78      23.78     311.68      27.57      105.85   11 39  8      99.8       25.72      303.55
     100.00    11  7 11    765.71      16.97     313.80      24.87      114.98   11 19 57     165.7       20.20      306.49
     100.00    13 53 47   5516.09      28.37     256.05      28.74       99.83   15 25 43    4916.1       29.44      247.41
     110.00    11  8 11    762.56      11.90     310.70      22.01      122.28   11 20 54     162.6       16.08      304.08
     110.00    16  9 16   5092.00      34.12     224.56      29.44       92.18   17 34  8    4492.0       34.05      215.32
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TOE-1.9468 TRA  .3867 TC3-5.8730 BAU  .8642    SGT 5202.1 SGR  307.9 SG3  501.8         ST  3373.0 SR   257.8 SS  1690.2
   RDE  .1484 RRA  .0434 RC3 -.2225 FAU .07093    RRT -.1393 RRF -.1587 RTF  .9693         CRT -.9848 CRS  .9656 CST -.9957
   FDE-2.2810 FRA 1.0812 FC3-5.5831 BSP  16291    SGB 5211.2 R23  .0234 R13 -.9693         LSA 3778.7 MSA  147.5 SSA   15.4
   BDE 1.9525 BRA  .3891 BC3 5.8772 FSP  -1620    SG1 5202.3 SG2  304.9 THA 179.53         EL1 3382.6 EL2   44.6 ALF 175.70

LAUNCH DATE  JUN 13 1967                          FLIGHT TIME 176.00                          ARRIVAL DATE  DEC  6 1967

  HELIOCENTRIC CONIC                              DISTANCE 498.343
   RL  151.93 LAL   -.00 LOL 261.32 VL  26.539 GAL   1.74 AZL  93.61 HCA 232.08 SMA 127.28 ECC .19596 INC 3.6088 V1  29.325
   RP  107.48 LAP   2.85 LOP 133.35 VP  37.775 GAP   6.93 AZP  87.78 TAL 172.84 TAP  44.92 RCA 102.34 APO 152.22 V2  35.259
   RC 132.447 GL  -29.79 GP    2.73 ZAL  79.29 ZAP 153.65 ETS   5.92 ZAE 131.14 ETE 177.74 ZAC 104.58 ETC  15.86 CLP-153.78
  PLANETOCENTRIC CONIC
   C3  11.298 VHL  3.361 DLA -28.55 RAL 170.41 RAD 6567.4 VEL 11.519 PTH   2.01 VHP  5.074 DPA  13.62 RAP 163.50 ECC 1.1859
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      86.17    10 47 19    868.90      22.68     323.70      30.23      107.83   11  1 48     268.9       24.90      315.72
      93.83    11 51 35    660.69      22.69     308.46      30.23      107.82   12  2 36      60.7       24.91      300.48
     100.00    11 25 47    743.99      17.59     312.48      28.13      114.56   11 38 11     144.0       20.76      305.12
     100.00    13 55 48   5548.87      27.97     258.40      31.73      101.00   15 28 17    4948.9       29.20      249.82
     110.00    11 22 26    754.54      12.19     310.26      25.11      122.19   11 35  0     154.5       16.35      303.63
     110.00    16 15 39   5111.09      34.06     226.05      32.61       93.06   17 40 50    4511.1       34.11      216.81
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TOE-2.0135 TRA  .5128 TC3-5.8441 BAU  .8834    SGT 5310.9 SGR  322.4 SG3  472.2         ST  3447.2 SR   267.3 SS  1642.0
   RDE  .1559 RRA  .0489 RC3 -.2318 FAU .06565    RRT -.1199 RRF -.1380 RTF  .9690         CRT -.9800 CRS  .9589 CST -.9959
   FDE-2.1619 FRA 1.1348 FC3-5.0305 BSP  16670    SGB 5320.6 R23  .0216 R13 -.9691         LSA 3824.8 MSA  145.4 SSA   16.2
   BDE 2.0195 BRA  .5151 BC3 5.8487 FSP  -1530    SG1 5311.0 SG2  320.0 THA 179.58         EL1 3457.1 EL2   53.0 ALF 175.65

LAUNCH DATE  JUN 13 1967                          FLIGHT TIME 178.00                          ARRIVAL DATE  DEC  8 1967

  HELIOCENTRIC CONIC                              DISTANCE 504.310
   RL  151.93 LAL   -.00 LOL 261.32 VL  26.507 GAL   2.05 AZL  93.58 HCA 235.33 SMA 127.06 ECC .19879 INC 3.5834 V1  29.325
   RP  107.48 LAP   2.95 LOP 136.60 VP  37.751 GAP   7.30 AZP  87.96 TAL 171.70 TAP  47.03 RCA 101.81 APO 152.32 V2  35.258
   RC 134.624 GL  -29.00 GP    2.52 ZAL  77.01 ZAP 155.27 ETS   5.79 ZAE 130.52 ETE 178.05 ZAC 103.06 ETC  15.54 CLP-155.39
  PLANETOCENTRIC CONIC
   C3  11.660 VHL  3.415 DLA -28.85 RAL 173.05 RAD 6567.4 VEL 11.535 PTH   2.01 VHP  5.255 DPA  12.81 RAP 164.97 ECC 1.1919
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      84.24    10 42  1    926.54      22.76     327.97      33.41      108.22   10 57 28     326.5       25.04      319.99
      95.76    12 17 56    616.17      22.78     305.23      33.41      108.20   12 28 12      16.2       25.05      297.25
     100.00    11 45  4    721.95      18.21     311.14      31.52      114.12   11 57  6     121.9       21.32      303.72
     100.00    13 57 34   5584.03      27.49     260.90      34.82      102.24   15 30 38    4984.0       28.90      252.39
     110.00    11 36 46    748.05      12.42     309.90      28.32      122.10   11 49 14     148.1       16.58      303.26
     110.00    16 22 22   5130.68      33.98     227.58      35.90       93.96   17 47 52    4530.7       34.16      218.34
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TOE-2.0799 TRA  .6482 TC3-5.7811 BAU  .9019    SGT 5413.8 SGR  336.3 SG3  444.9         ST  3511.7 SR   278.3 SS  1594.1
   RDE  .1648 RRA  .0541 RC3 -.2357 FAU .06083    RRT -.1102 RRF -.1272 RTF  .9690         CRT -.9750 CRS  .9523 CST -.9960
   FDE-2.0519 FRA 1.1837 FC3-4.5164 BSP  17028    SGB 5424.2 R23  .0202 R13 -.9690         LSA 3863.9 MSA  143.8 SSA   16.9
   BDE 2.0864 BRA  .6504 BC3 5.7859 FSP  -1447    SG1 5413.9 SG2  334.3 THA 179.61         EL1 3522.2 EL2   61.7 ALF 175.58

LAUNCH DATE  JUN 13 1967                          FLIGHT TIME 180.00                          ARRIVAL DATE  DEC 10 1967

  HELIOCENTRIC CONIC                              DISTANCE 510.253
   RL  151.93 LAL   -.00 LOL 261.32 VL  26.474 GAL   2.37 AZL  93.56 HCA 238.58 SMA 126.85 ECC .20181 INC 3.5598 V1  29.325
   RP  107.48 LAP   3.04 LOP 139.85 VP  37.726 GAP   7.67 AZP  88.14 TAL 170.53 TAP  49.11 RCA 101.25 APO 152.45 V2  35.256
   RC 136.791 GL  -28.19 GP    2.34 ZAL  74.70 ZAP 156.81 ETS   5.69 ZAE 129.96 ETE 178.31 ZAC 101.45 ETC  15.23 CLP-156.92
  PLANETOCENTRIC CONIC
   C3  12.091 VHL  3.477 DLA -29.12 RAL 175.73 RAD 6567.5 VEL 11.553 PTH   2.02 VHP  5.442 DPA  11.99 RAP 166.53 ECC 1.1990
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      82.92    10 42  3    968.55      22.80     331.08      36.70      108.61   10 58 11     368.6       25.14      323.12
      97.08    12 39 18   5877.43      22.82     281.17      36.70      108.60   14 17 16    5277.4       25.15      273.21
     100.00    12  4 55    699.81      18.82     309.78      35.05      113.66   12 16 35      99.8       21.86      302.30
     100.00    13 59  7   5621.40      26.92     263.54      38.00      103.51   15 32 49    5021.4       28.51      255.10
     110.00    11 51  2    743.51      12.59     309.66      31.63      122.85   12  3 26     143.5       16.73      303.00
     110.00    16 29 30   5150.46      33.88     229.11      39.30       94.86   17 55 20    4550.5       34.18      219.88
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TOE-2.1423 TRA  .7974 TC3-5.6713 BAU  .9175    SGT 5502.5 SGR  349.5 SG3  418.7         ST  3560.7 SR   290.2 SS  1542.4
   RDE  .1749 RRA  .0588 RC3 -.2352 FAU .05609    RRT -.1069 RRF -.1231 RTF  .9685         CRT -.9696 CRS  .9453 CST -.9962
   FDE-1.9447 FRA 1.2343 FC3-4.0159 BSP  17288    SGB 5513.6 R23  .0193 R13 -.9685         LSA 3888.5 MSA  143.7 SSA   17.4
   BDE 2.1494 BRA  .7996 BC3 5.6761 FSP  -1360    SG1 5502.7 SG2  347.5 THA 179.61         EL1 3571.8 EL2   70.8 ALF 175.48
```

LAUNCH DATE JUN 13 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 12 1967

DISTANCE 516.168

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 26.440 GAL 2.72 AZL 93.54 HCA 241.82 SMA 126.64 ECC .20505 INC 3.5378 V1 29.325
RP 107.49 LAP 3.12 LOP 143.10 VP 37.700 GAP 8.06 AZP 88.33 TAL 169.35 TAP 51.17 RCA 100.67 APO 152.60 V2 35.254
RC 138.949 GL -27.33 GP 2.19 ZAL 72.38 ZAP 158.28 ETS 5.60 ZAE 129.46 ETE 178.53 ZAC 99.77 ETC 14.94 CLP-158.39

PLANETOCENTRIC CONIC
C3 12.597 VHL 3.549 DLA -29.35 RAL 178.44 RAD 6567.5 VEL 11.575 PTH 2.02 VHP 5.634 DPA 11.15 RAP 168.14 ECC 1.2073

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.92	10 44 59	1002.61	22.79	333.58	40.08	109.02	11 1 42	402.6	25.18	325.64
98.08	12 58 1	5860.82	22.80	279.94	40.09	109.00	14 35 42	5260.8	25.19	272.00
100.00	12 25 13	677.87	19.42	308.42	38.69	113.19	12 36 31	77.9	22.39	300.88
100.00	14 0 28	5660.79	26.26	266.28	41.24	104.81	15 34 48	5060.8	28.04	257.93
110.00	12 5 5	741.33	12.67	309.54	35.02	122.02	12 17 26	141.3	16.81	302.87
110.00	16 37 6	5170.09	33.75	230.63	42.81	95.75	18 3 16	4570.1	34.18	221.41

DIFFERENTIAL CORRECTIONS
TDE-2.2075 TRA .9526 TC3-5.5418 BAU .9341
RDE .1865 RRA .0631 RC3 -.2304 FAU .05193
FDE-1.8498 FRA 1.2755 FC3-3.5688 BSP 17622
BDE 2.2153 BRA .9547 BC3 5.5466 FSP -1291

MID-COURSE EXECUTION ACCURACY
SGT 5593.5 SGR 361.9 SG3 395.1
RRT -.1102 RRF -.1260 RTF .9685
SGB 5605.1 R23 .0189 R13 -.9685
SG1 5593.6 SG2 359.7 THA 179.59

ORBIT DETERMINATION ACCURACY
ST 3604.5 SR 303.1 SS 1494.4
CRT -.9643 CRS .9389 CST -.9963
LSA 3911.1 MSA 143.9 SSA 17.8
EL1 3616.4 EL2 79.9 ALF 175.36

LAUNCH DATE JUN 13 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 14 1967

DISTANCE 522.057

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 26.406 GAL 3.08 AZL 93.52 HCA 245.07 SMA 126.42 ECC .20852 INC 3.5172 V1 29.325
RP 107.50 LAP 3.19 LOP 146.35 VP 37.674 GAP 8.45 AZP 88.52 TAL 168.15 TAP 53.22 RCA 100.06 APO 152.78 V2 35.251
RC 141.095 GL -26.45 GP 2.05 ZAL 70.04 ZAP 159.69 ETS 5.54 ZAE 129.00 ETE 178.72 ZAC 98.02 ETC 14.66 CLP-159.79

PLANETOCENTRIC CONIC
C3 13.189 VHL 3.632 DLA -29.55 RAL 181.17 RAD 6567.5 VEL 11.601 PTH 2.03 VHP 5.833 DPA 10.30 RAP 169.81 ECC 1.2171

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.17	10 49 58	1031.41	22.72	335.69	43.56	109.43	11 7 10	431.4	25.16	327.77
98.83	13 14 49	5851.74	22.73	279.24	43.56	109.41	14 52 21	5251.7	25.17	271.32
100.00	12 45 54	656.23	19.99	307.07	42.43	112.70	12 56 50	56.2	22.89	299.47
100.00	14 1 34	5702.15	25.51	269.12	44.54	106.13	15 36 37	5102.1	27.48	260.87
110.00	12 18 44	741.84	12.65	309.56	38.48	122.02	12 31 6	141.8	16.79	302.90
110.00	16 45 14	5189.30	33.61	232.11	46.41	96.62	18 11 43	4589.3	34.16	222.91

DIFFERENTIAL CORRECTIONS
TDE-2.2708 TRA 1.1195 TC3-5.3792 BAU .9493
RDE .1992 RRA .0667 RC3 -.2222 FAU .04800
FDE-1.7600 FRA 1.3159 FC3-3.1506 BSP 17926
BDE 2.2795 BRA 1.1214 BC3 5.3838 FSP -1224

MID-COURSE EXECUTION ACCURACY
SGT 5676.4 SGR 373.4 SG3 373.0
RRT -.1179 RRF -.1332 RTF .9684
SGB 5688.7 R23 .0187 R13 -.9684
SG1 5676.6 SG2 370.8 THA 179.55

ORBIT DETERMINATION ACCURACY
ST 3635.8 SR 316.4 SS 1445.5
CRT -.9590 CRS .9326 CST -.9964
LSA 3922.7 MSA 145.2 SSA 18.0
EL1 3648.5 EL2 89.3 ALF 175.23

LAUNCH DATE JUN 13 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 16 1967

DISTANCE 527.915

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 26.372 GAL 3.46 AZL 93.50 HCA 248.32 SMA 126.20 ECC .21223 INC 3.4976 V1 29.325
RP 107.51 LAP 3.25 LOP 149.60 VP 37.646 GAP 8.84 AZP 88.71 TAL 166.94 TAP 55.25 RCA 99.42 APO 152.99 V2 35.247
RC 143.232 GL -25.54 GP 1.93 ZAL 67.71 ZAP 161.04 ETS 5.50 ZAE 128.59 ETE 178.88 ZAC 96.21 ETC 14.41 CLP-161.14

PLANETOCENTRIC CONIC
C3 13.874 VHL 3.725 DLA -29.71 RAL 183.91 RAD 6567.5 VEL 11.630 PTH 2.04 VHP 6.039 DPA 9.44 RAP 171.53 ECC 1.2283

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.61	10 56 35	1056.25	22.58	337.48	47.11	109.84	11 14 11	456.3	25.08	329.58
99.39	13 30 3	5848.98	22.59	278.99	47.11	109.83	15 7 32	5249.0	25.09	271.09
100.00	13 6 54	634.90	20.54	305.72	46.27	112.20	13 17 29	34.9	23.38	298.07
100.00	14 2 24	5745.57	24.66	272.07	47.87	107.46	15 38 9	5145.6	26.81	263.93
110.00	12 31 53	745.37	12.52	309.76	41.98	122.07	12 44 19	145.4	16.67	303.10
110.00	16 53 54	5207.86	33.46	233.54	50.09	97.45	18 20 42	4607.9	34.13	224.36

DIFFERENTIAL CORRECTIONS
TDE-2.3319 TRA 1.2977 TC3-5.1884 BAU .9632
RDE .2132 RRA .0695 RC3 -.2113 FAU .04431
FDE-1.6750 FRA 1.3539 FC3-2.7648 BSP 18205
BDE 2.3416 BRA 1.2996 BC3 5.1927 FSP -1162

MID-COURSE EXECUTION ACCURACY
SGT 5752.2 SGR 384.0 SG3 352.3
RRT -.1290 RRF -.1439 RTF .9683
SGB 5765.0 R23 .0187 R13 -.9683
SG1 5752.4 SG2 380.8 THA 179.50

ORBIT DETERMINATION ACCURACY
ST 3654.4 SR 330.0 SS 1396.1
CRT -.9537 CRS .9263 CST -.9966
LSA 3923.1 MSA 147.5 SSA 18.1
EL1 3667.9 EL2 98.9 ALF 175.07

LAUNCH DATE JUN 13 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 18 1967

DISTANCE 533.742

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 26.338 GAL 3.86 AZL 93.48 HCA 251.56 SMA 125.99 ECC .21621 INC 3.4788 V1 29.325
RP 107.53 LAP 3.30 LOP 152.85 VP 37.618 GAP 9.25 AZP 88.90 TAL 165.71 TAP 57.27 RCA 98.75 APO 153.23 V2 35.243
RC 145.356 GL -24.61 GP 1.82 ZAL 65.38 ZAP 162.35 ETS 5.49 ZAE 128.21 ETE 179.01 ZAC 94.36 ETC 14.18 CLP-162.44

PLANETOCENTRIC CONIC
C3 14.666 VHL 3.830 DLA -29.82 RAL 186.64 RAD 6567.6 VEL 11.664 PTH 2.05 VHP 6.252 DPA 8.57 RAP 173.29 ECC 1.2414

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.23	11 4 31	1077.90	22.38	339.00	50.71	110.25	11 22 29	477.9	24.93	331.14
99.77	13 43 52	5851.83	22.39	279.12	50.72	110.23	15 21 24	5251.8	24.94	271.25
100.00	13 28 24	613.17	21.10	304.35	50.19	111.68	13 38 37	13.2	23.85	296.64
100.00	14 2 40	5791.79	23.68	275.15	51.22	108.80	15 39 12	5191.8	26.03	267.14
110.00	12 44 24	752.14	12.28	310.13	45.52	122.16	12 56 56	152.1	16.44	303.49
110.00	17 3 9	5225.58	33.29	234.90	53.84	98.24	18 30 15	4625.6	34.07	225.74

DIFFERENTIAL CORRECTIONS
TDE-2.3876 TRA 1.4915 TC3-4.9628 BAU .9738
RDE .2282 RRA .0715 RC3 -.1983 FAU .04067
FDE-1.5912 FRA 1.3941 FC3-2.4010 BSP 18373
BDE 2.3985 BRA 1.4932 BC3 4.9668 FSP -1096

MID-COURSE EXECUTION ACCURACY
SGT 5816.0 SGR 393.6 SG3 332.7
RRT -.1421 RRF -.1565 RTF .9679
SGB 5829.3 R23 .0185 R13 -.9679
SG1 5816.2 SG2 389.5 THA 179.45

ORBIT DETERMINATION ACCURACY
ST 3656.4 SR 343.5 SS 1344.1
CRT -.9481 CRS .9197 CST -.9966
LSA 3907.8 MSA 151.2 SSA 18.0
EL1 3670.9 EL2 108.8 ALF 174.91

LAUNCH DATE JUN 13 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 20 1967

HELIOCENTRIC CONIC DISTANCE 539.534
RL 151.93 LAL -.00 LOL 261.32 VL 26.303 GAL 4.29 AZL 93.46 HCA 254.81 SMA 125.77 ECC .22047 INC 3.4608 V1 29.325
RP 107.54 LAP 3.34 LOP 156.10 VP 37.589 GAP 9.67 AZP 89.09 TAL 164.47 TAP 59.28 RCA 98.04 APO 153.50 V2 35.237
RC 147.469 GL -23.65 GP 1.72 ZAL 63.08 ZAP 163.60 ETS 5.52 ZAE 127.86 ETE 179.12 ZAC 92.45 ETC 13.96 CLP-163.69
PLANETOCENTRIC CONIC
C3 15.575 VHL 3.947 DLA -29.89 RAL 189.34 RAD 6567.6 VEL 11.703 PTH 2.06 VHP 6.475 DPA 7.68 RAP 175.09 ECC 1.2563

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.01	11 13 38	1096.72	22.10	340.29	54.37	110.65	11 31 55	496.7	24.71	332.47
99.99	13 56 20	5859.98	22.11	279.61	54.37	110.64	15 33 59	5260.0	24.72	271.79
100.00	13 53 3	5870.42	21.86	280.28	54.27	110.91	15 30 54	5270.4	24.51	272.49
100.00	13 59 35	5849.56	22.36	278.94	54.47	110.37	15 37 5	5249.6	24.93	271.08
110.00	12 56 10	762.35	11.91	310.69	49.07	122.28	13 8 53	162.4	16.08	304.07
110.00	17 12 58	5242.35	33.12	236.18	57.65	98.98	18 40 20	4642.3	34.01	227.05

DIFFERENTIAL CORRECTIONS
TDE-2.4461 TRA 1.6925 TC3-4.7303 BAU .9857
RDE .2445 RRA .0726 RC3 -.1836 FAU .03747
FDE-1.5170 FRA 1.4279 FC3-2.0829 BSP 18630
BDE 2.4583 BRA 1.6940 BC3 4.7339 FSP -1043

MID-COURSE EXECUTION ACCURACY
SGT 5880.8 SGR 402.2 SG3 314.7
RRT -.1585 RRF -.1725 RTF .9679
SGB 5894.6 R23 .0187 R13 -.9679
SG1 5881.2 SG2 397.1 THA 179.38

ORBIT DETERMINATION ACCURACY
ST 3653.4 SR 356.9 SS 1296.0
CRT -.9427 CRS .9137 CST -.9968
LSA 3889.7 MSA 155.2 SSA 17.8
EL1 3668.9 EL2 118.5 ALF 174.73

LAUNCH DATE JUN 13 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 22 1967

HELIOCENTRIC CONIC DISTANCE 545.288
RL 151.93 LAL -.00 LOL 261.32 VL 26.268 GAL 4.73 AZL 93.44 HCA 258.05 SMA 125.55 ECC .22503 INC 3.4433 V1 29.325
RP 107.56 LAP 3.37 LOP 159.35 VP 37.559 GAP 10.10 AZP 89.29 TAL 163.23 TAP 61.28 RCA 97.30 APO 153.80 V2 35.231
RC 149.570 GL -22.69 GP 1.64 ZAL 60.81 ZAP 164.82 ETS 5.58 ZAE 127.54 ETE 179.21 ZAC 90.51 ETC 13.77 CLP-164.91
PLANETOCENTRIC CONIC
C3 16.617 VHL 4.076 DLA -29.91 RAL 192.01 RAD 6567.7 VEL 11.747 PTH 2.07 VHP 6.706 DPA 6.78 RAP 176.93 ECC 1.2735

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.94	11 23 45	1113.19	21.76	341.38	58.05	111.04	11 42 18	513.2	24.43	333.59
100.06	14 7 31	5872.99	21.77	280.44	58.06	111.03	15 45 24	5273.0	24.44	272.65
79.94	11 23 45	1113.19	21.76	341.38	58.05	111.04	11 42 18	513.2	24.43	333.59
100.06	14 7 31	5872.99	21.77	280.44	58.06	111.03	15 45 24	5273.0	24.44	272.65
110.00	13 7 8	776.07	11.41	311.44	52.62	122.44	13 20 4	176.1	15.61	304.85
110.00	17 23 19	5258.11	32.95	237.37	61.51	99.66	18 50 57	4658.1	33.93	228.27

DIFFERENTIAL CORRECTIONS
TDE-2.5019 TRA 1.9071 TC3-4.4794 BAU .9958
RDE .2618 RRA .0726 RC3 -.1679 FAU .03442
FDE-1.4462 FRA 1.4618 FC3-1.7933 BSP 18859
BDE 2.5155 BRA 1.9085 BC3 4.4825 FSP -992

MID-COURSE EXECUTION ACCURACY
SGT 5938.5 SGR 409.9 SG3 297.9
RRT -.1765 RRF -.1901 RTF .9679
SGB 5952.6 R23 .0187 R13 -.9679
SG1 5938.9 SG2 403.5 THA 179.30

ORBIT DETERMINATION ACCURACY
ST 3638.4 SR 369.7 SS 1248.1
CRT -.9373 CRS .9076 CST -.9969
LSA 3860.9 MSA 160.0 SSA 17.5
EL1 3654.9 EL2 128.3 ALF 174.55

LAUNCH DATE JUN 13 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 24 1967

HELIOCENTRIC CONIC DISTANCE 551.002
RL 151.93 LAL -.00 LOL 261.32 VL 26.234 GAL 5.20 AZL 93.43 HCA 261.29 SMA 125.34 ECC .22994 INC 3.4263 V1 29.325
RP 107.58 LAP 3.39 LOP 162.60 VP 37.528 GAP 10.54 AZP 89.48 TAL 161.98 TAP 63.27 RCA 96.52 APO 154.15 V2 35.225
RC 151.657 GL -21.71 GP 1.56 ZAL 58.58 ZAP 166.01 ETS 5.68 ZAE 127.25 ETE 179.29 ZAC 88.53 ETC 13.60 CLP-166.09
PLANETOCENTRIC CONIC
C3 17.810 VHL 4.220 DLA -29.89 RAL 194.64 RAD 6567.7 VEL 11.798 PTH 2.09 VHP 6.949 DPA 5.87 RAP 178.79 ECC 1.2931

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.02	11 34 51	1127.19	21.35	342.25	61.76	111.43	11 53 38	527.2	24.07	334.51
99.98	14 17 22	602.96	21.36	303.70	61.77	111.41	14 27 25	3.0	24.08	295.96
100.00	14 12 10	619.55	20.94	304.75	61.59	111.84	14 22 30	19.5	23.72	297.06
100.00	14 22 44	5873.88	21.77	280.51	61.94	111.00	16 0 37	5273.9	24.44	272.72
110.00	13 17 14	793.30	10.77	312.37	56.16	122.64	13 30 27	193.3	15.00	305.82
110.00	17 34 9	5272.89	32.77	238.49	65.40	100.30	19 2 2	4672.9	33.85	229.42

DIFFERENTIAL CORRECTIONS
TDE-2.5559 TRA 2.1350 TC3-4.2160 BAU 1.0045
RDE .2802 RRA .0716 RC3 -.1517 FAU .03154
FDE-1.3797 FRA 1.4950 FC3-1.5333 BSP 19070
BDE 2.5712 BRA 2.1362 BC3 4.2187 FSP -944

MID-COURSE EXECUTION ACCURACY
SGT 5990.0 SGR 416.7 SG3 282.1
RRT -.1962 RRF -.2091 RTF .9678
SGB 6004.5 R23 .0187 R13 -.9678
SG1 5990.6 SG2 408.6 THA 179.21

ORBIT DETERMINATION ACCURACY
ST 3613.7 SR 381.9 SS 1201.2
CRT -.9318 CRS .9014 CST -.9970
LSA 3823.6 MSA 165.5 SSA 17.1
EL1 3631.2 EL2 138.0 ALF 174.37

LAUNCH DATE JUN 13 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 26 1967

HELIOCENTRIC CONIC DISTANCE 556.670
RL 151.93 LAL -.00 LOL 261.32 VL 26.199 GAL 5.70 AZL 93.41 HCA 264.53 SMA 125.12 ECC .23520 INC 3.4095 V1 29.325
RP 107.60 LAP 3.39 LOP 165.84 VP 37.497 GAP 11.00 AZP 89.68 TAL 160.72 TAP 65.26 RCA 95.69 APO 154.55 V2 35.217
RC 153.730 GL -20.74 GP 1.49 ZAL 56.40 ZAP 167.16 ETS 5.85 ZAE 126.98 ETE 179.35 ZAC 86.53 ETC 13.44 CLP-167.24
PLANETOCENTRIC CONIC
C3 19.172 VHL 4.379 DLA -29.82 RAL 197.20 RAD 6567.8 VEL 11.856 PTH 2.10 VHP 7.203 DPA 4.95 RAP 180.67 ECC 1.3155

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.25	11 46 51	1138.85	20.87	342.91	65.49	111.79	12 5 50	538.9	23.64	335.22
99.75	14 25 51	625.87	20.88	305.20	65.49	111.78	14 36 17	25.9	23.65	297.51
100.00	14 9 48	677.10	19.44	308.37	64.85	113.17	14 21 5	77.1	22.41	300.83
100.00	14 45 34	5850.89	22.33	279.02	66.09	110.41	16 23 5	5250.9	24.90	271.17
110.00	13 26 28	813.96	10.01	313.49	59.68	122.86	13 40 2	214.0	14.27	306.98
110.00	17 45 24	5286.79	32.60	239.54	69.33	100.90	19 13 31	4686.8	33.76	230.50

DIFFERENTIAL CORRECTIONS
TDE-2.6083 TRA 2.3769 TC3-3.9434 BAU 1.0114
RDE .2995 RRA .0692 RC3 -.1354 FAU .02881
FDE-1.3173 FRA 1.5278 FC3-1.3008 BSP 19258
BDE 2.6255 BRA 2.3779 BC3 3.9457 FSP -898

MID-COURSE EXECUTION ACCURACY
SGT 6035.4 SGR 422.5 SG3 267.4
RRT -.2171 RRF -.2292 RTF .9678
SGB 6050.1 R23 .0186 R13 -.9678
SG1 6036.1 SG2 412.4 THA 179.13

ORBIT DETERMINATION ACCURACY
ST 3580.0 SR 393.1 SS 1155.9
CRT -.9261 CRS .8952 CST -.9970
LSA 3778.6 MSA 171.5 SSA 16.7
EL1 3598.5 EL2 147.6 ALF 174.18

LAUNCH DATE JUN 13 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 28 1967

HELIOCENTRIC CONIC DISTANCE 562.288
RL 151.93 LAL -.00 LOL 261.32 VL 26.164 GAL 6.23 AZL 93.39 HCA 267.77 SMA 124.90 ECC .24087 INC 3.3929 V1 29.325
RP 107.63 LAP 3.39 LOP 169.09 VP 37.465 GAP 11.49 AZP 89.87 TAL 159.47 TAP 67.24 RCA 94.82 APO 154.99 V2 35.210
RC 155.789 GL -19.76 GP 1.43 ZAL 54.27 ZAP 168.28 ETS 6.08 ZAE 126.72 ETE 179.40 ZAC 84.49 ETC 13.31 CLP-168.37
PLANETOCENTRIC CONIC
C3 20.728 VHL 4.553 DLA -29.71 RAL 199.71 RAD 6567.8 VEL 11.921 PTH 2.12 VHP 7.469 DPA 4.03 RAP 182.58 ECC 1.3411

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.63	11 59 43	1148.17	20.32	343.36	69.21	112.14	12 18 51	548.2	23.15	335.72
99.37	14 32 56	653.67	20.34	307.03	69.21	112.13	14 43 49	53.7	23.16	299.39
100.00	14 9 34	728.38	18.03	311.53	68.17	114.25	14 21 42	128.4	21.16	304.13
100.00	15 5 46	5836.73	22.66	278.10	70.18	110.03	16 43 3	5236.7	25.18	270.21
110.00	13 34 50	837.92	9.13	314.78	63.17	123.09	13 48 48	237.9	13.42	308.31
110.00	17 56 59	5299.95	32.43	240.53	73.28	101.46	19 25 19	4699.9	33.67	231.51

DIFFERENTIAL CORRECTIONS
TOE-2.6565 TRA 2.6360 TC3-3.6613 BAU 1.0151
RDE .3196 RRA .0655 RC3 -.1195 FAU .02615
FOE-1.2568 FRA 1.5621 FC3-1.0922 BSP 19363
BDE 2.6756 BRA 2.6368 BC3 3.6633 FSP -852

MID-COURSE EXECUTION ACCURACY
SGT 6072.7 SGR 427.4 SG3 253.6
RRT -.2385 RRF -.2496 RTF .9677
SGB 6087.7 R23 .0182 R13 -.9678
SG1 6073.6 SG2 415.0 THA 179.03

ORBIT DETERMINATION ACCURACY
ST 3535.4 SR 403.2 SS 1111.0
CRT -.9201 CRS .8884 CST -.9971
LSA 3723.4 MSA 178.1 SSA 16.3
EL1 3554.8 EL2 157.1 ALF 174.00

LAUNCH DATE JUN 13 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 30 1967

HELIOCENTRIC CONIC DISTANCE 567.850
RL 151.93 LAL -.00 LOL 261.32 VL 26.129 GAL 6.78 AZL 93.38 HCA 271.01 SMA 124.69 ECC .24698 INC 3.3764 V1 29.325
RP 107.65 LAP 3.38 LOP 172.33 VP 37.433 GAP 11.99 AZP 90.06 TAL 158.21 TAP 69.23 RCA 93.90 APO 155.49 V2 35.201
RC 157.834 GL -18.79 GP 1.37 ZAL 52.21 ZAP 169.39 ETS 6.39 ZAE 126.48 ETE 179.44 ZAC 82.44 ETC 13.20 CLP-169.47
PLANETOCENTRIC CONIC
C3 22.503 VHL 4.744 DLA -29.55 RAL 202.13 RAD 6567.9 VEL 11.995 PTH 2.14 VHP 7.751 DPA 3.09 RAP 184.50 ECC 1.3703

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.17	12 13 33	1154.71	19.71	343.58	72.92	112.48	12 32 48	554.7	22.59	335.99
98.83	14 38 28	686.77	19.73	309.22	72.93	112.46	14 49 54	86.8	22.60	301.63
100.00	14 9 33	779.27	16.58	314.61	71.46	115.23	14 22 33	179.3	19.84	307.34
100.00	15 25 8	5825.48	22.92	277.37	74.25	109.73	17 2 14	5225.5	25.40	269.45
110.00	13 42 22	864.99	8.12	316.22	66.61	123.32	13 56 47	265.0	12.44	309.80
110.00	18 8 49	5312.52	32.25	241.47	77.24	101.99	19 37 22	4712.5	33.57	232.48

DIFFERENTIAL CORRECTIONS
TOE-2.7068 TRA 2.9075 TC3-3.3845 BAU 1.0187
RDE .3406 RRA .0605 RC3 -.1041 FAU .02373
FOE-1.2026 FRA 1.5943 FC3 -.9130 BSP 19533
BDE 2.7282 BRA 2.9081 BC3 3.3861 FSP -812

MID-COURSE EXECUTION ACCURACY
SGT 6107.0 SGR 431.3 SG3 240.7
RRT -.2615 RRF -.2714 RTF .9679
SGB 6122.3 R23 .0178 R13 -.9679
SG1 6108.1 SG2 416.3 THA 178.94

ORBIT DETERMINATION ACCURACY
ST 3487.8 SR 412.2 SS 1069.7
CRT -.9142 CRS .8821 CST -.9972
LSA 3666.7 MSA 184.4 SSA 15.8
EL1 3508.1 EL2 166.1 ALF 173.82

LAUNCH DATE JUN 13 1967 FLIGHT TIME 202.00 ARRIVAL DATE JAN 1 1968

HELIOCENTRIC CONIC DISTANCE 573.349
RL 151.93 LAL -.00 LOL 261.32 VL 26.094 GAL 7.37 AZL 93.36 HCA 274.25 SMA 124.48 ECC .25357 INC 3.3599 V1 29.325
RP 107.68 LAP 3.35 LOP 175.58 VP 37.400 GAP 12.51 AZP 90.25 TAL 156.97 TAP 71.21 RCA 92.92 APO 156.04 V2 35.192
RC 159.863 GL -17.83 GP 1.32 ZAL 50.20 ZAP 170.47 ETS 6.82 ZAE 126.24 ETE 179.47 ZAC 80.37 ETC 13.12 CLP-170.56
PLANETOCENTRIC CONIC
C3 24.531 VHL 4.953 DLA -29.37 RAL 204.48 RAD 6568.0 VEL 12.079 PTH 2.16 VHP 8.048 DPA 2.16 RAP 186.44 ECC 1.4037

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.88	12 28 31	1157.77	19.05	343.51	76.62	112.78	12 47 49	557.8	21.97	335.98
98.12	14 42 12	725.85	19.06	311.81	76.62	112.77	14 54 18	125.9	21.98	304.28
100.00	14 9 34	830.43	15.07	317.66	74.73	116.12	14 23 25	230.4	18.46	310.51
100.00	15 43 50	5816.47	23.13	276.78	78.31	109.49	17 20 47	5216.5	25.57	268.83
110.00	13 49 5	894.94	6.99	317.81	70.01	123.55	14 4 0	294.9	11.36	311.44
110.00	18 20 49	5324.72	32.08	242.37	81.20	102.50	19 49 33	4724.7	33.46	233.42

DIFFERENTIAL CORRECTIONS
TOE-2.7565 TRA 3.1957 TC3-3.1082 BAU 1.0198
RDE .3624 RRA .0539 RC3 -.0896 FAU .02142
FOE-1.1523 FRA 1.6272 FC3 -.7560 BSP 19677
BDE 2.7802 BRA 3.1961 BC3 3.1095 FSP -775

MID-COURSE EXECUTION ACCURACY
SGT 6135.3 SGR 434.4 SG3 228.6
RRT -.2852 RRF -.2939 RTF .9681
SGB 6150.6 R23 .0173 R13 -.9682
SG1 6136.5 SG2 416.3 THA 178.84

ORBIT DETERMINATION ACCURACY
ST 3434.6 SR 419.7 SS 1030.7
CRT -.9081 CRS .8756 CST -.9973
LSA 3605.3 MSA 190.7 SSA 15.4
EL1 3455.7 EL2 174.7 ALF 173.65

LAUNCH DATE JUN 13 1967 FLIGHT TIME 204.00 ARRIVAL DATE JAN 3 1968

HELIOCENTRIC CONIC DISTANCE 578.777
RL 151.93 LAL -.00 LOL 261.32 VL 26.060 GAL 8.00 AZL 93.34 HCA 277.48 SMA 124.27 ECC .26069 INC 3.3433 V1 29.325
RP 107.71 LAP 3.31 LOP 178.82 VP 37.367 GAP 13.07 AZP 90.44 TAL 155.73 TAP 73.21 RCA 91.87 APO 156.66 V2 35.183
RC 161.876 GL -16.89 GP 1.28 ZAL 48.27 ZAP 171.53 ETS 7.41 ZAE 126.01 ETE 179.49 ZAC 78.28 ETC 13.06 CLP-171.63
PLANETOCENTRIC CONIC
C3 26.847 VHL 5.181 DLA -29.14 RAL 206.74 RAD 6568.1 VEL 12.175 PTH 2.18 VHP 8.364 DPA 1.22 RAP 188.39 ECC 1.4418

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.81	12 44 53	1156.44	18.32	343.09	80.29	113.07	13 4 9	556.4	21.29	335.61
97.19	14 43 51	771.77	18.33	314.88	80.30	113.06	14 56 43	171.8	21.30	307.40
100.00	14 9 31	882.00	13.50	320.69	77.96	116.92	14 24 13	282.0	17.01	313.65
100.00	16 1 54	5809.48	23.29	276.32	82.35	109.29	17 38 44	5209.5	25.70	268.35
110.00	13 55 3	927.53	5.76	319.54	73.37	123.75	14 10 31	327.5	10.16	313.20
110.00	18 32 51	5336.72	31.90	243.26	85.16	103.00	20 1 48	4736.7	33.35	234.34

DIFFERENTIAL CORRECTIONS
TOE-2.8062 TRA 3.5015 TC3-2.8368 BAU 1.0186
RDE .3848 RRA .0457 RC3 -.0762 FAU .01922
FOE-1.1057 FRA 1.6610 FC3 -.6198 BSP 19810
BDE 2.8324 BRA 3.5018 BC3 2.8378 FSP -739

MID-COURSE EXECUTION ACCURACY
SGT 6158.2 SGR 436.6 SG3 217.4
RRT -.3094 RRF -.3168 RTF .9685
SGB 6173.6 R23 .0165 R13 -.9685
SG1 6159.7 SG2 415.1 THA 178.74

ORBIT DETERMINATION ACCURACY
ST 3377.2 SR 425.8 SS 994.3
CRT -.9019 CRS .8691 CST -.9974
LSA 3540.7 MSA 196.9 SSA 14.9
EL1 3399.0 EL2 182.8 ALF 173.49

LAUNCH DATE JUN 13 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 5 1968

HELIOCENTRIC CONIC DISTANCE 584.125

RL	151.93	LAL	-.00	LOL	261.32	VL	26.025	GAL	8.67	AZL	93.33	HCA	280.71	SMA	124.06	ECC	.26840	INC	3.3264	V1	29.325
RP	107.74	LAP	3.27	LOP	182.05	VP	37.334	GAP	13.65	AZP	90.62	TAL	154.50	TAP	75.21	RCA	90.76	APO	157.36	V2	35.172
RC	163.875	GL	-15.95	GP	1.23	ZAL	46.41	ZAP	172.59	ETS	8.21	ZAE	125.79	ETE	179.51	ZAC	76.19	ETC	13.02	CLP	-172.69

PLANETOCENTRIC CONIC

C3	29.498	VHL	5.431	DLA	-28.89	RAL	208.90	RAD	6568.2	VEL	12.283	PTH	2.21	VHP	8.699	DPA	.28	RAP	190.35	ECC	1.4855

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.03	13 3 20	1148.37	17.54	342.15	83.93	113.33	13 22 28	548.4	20.55	334.72
95.97	14 42 42	826.80	17.55	318.58	83.94	113.32	14 56 29	226.8	20.56	311.16
100.00	14 9 23	934.03	11.88	323.70	81.15	117.63	14 24 57	334.0	15.49	316.76
100.00	16 19 20	5804.41	23.40	275.99	86.36	109.15	17 56 5	5204.4	25.80	268.01
110.00	14 0 19	962.50	4.44	321.37	76.67	123.93	14 16 22	362.5	8.86	315.08
110.00	18 44 53	5348.70	31.71	244.15	89.11	103.49	20 14 1	4748.7	33.24	235.25

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TOE	-2.8528	TRA	3.8295	TC3	-2.5671	BAU	1.0127	SGT	6174.4	SGR	437.8	SG3	206.8	ST	3313.6	SR	430.3
ROE	.4077	RRA	.0356	RC3	-.0641	FAU	.01705	RRT	-.3337	RRF	-.3394	RTF	.9688	CRT	-.8952	CRS	.8620
FOE	-1.0610	FRA	1.6974	FC3	-.5003	BSP	19841	SGB	6189.9	R23	.0155	R13	-.9689	LSA	3470.5	MSA	203.1
BOE	2.8818	BRA	3.8297	BC3	2.5679	FSP	-701	SG1	6176.1	SG2	412.6	THA	178.64	EL1	3336.0	EL2	190.5

SS 959.5 CST -.9974 SSA 14.5 ALF 173.35

LAUNCH DATE JUN 13 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 7 1968

HELIOCENTRIC CONIC DISTANCE 589.381

RL	151.93	LAL	-.00	LOL	261.32	VL	25.991	GAL	9.39	AZL	93.31	HCA	283.95	SMA	123.85	ECC	.27677	INC	3.3092	V1	29.325
RP	107.78	LAP	3.21	LOP	185.29	VP	37.300	GAP	14.27	AZP	90.80	TAL	153.29	TAP	77.23	RCA	89.58	APO	158.13	V2	35.162
RC	165.860	GL	-15.04	GP	1.20	ZAL	44.63	ZAP	173.63	ETS	9.34	ZAE	125.56	ETE	179.51	ZAC	74.09	ETC	13.01	CLP	-173.74

PLANETOCENTRIC CONIC

C3	32.535	VHL	5.704	DLA	-28.61	RAL	210.97	RAD	6568.3	VEL	12.406	PTH	2.24	VHP	9.058	DPA	-.65	RAP	192.32	ECC	1.5354

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.76	13 25 45	1127.29	16.71	340.22	87.54	113.56	13 44 32	527.3	19.76	332.85
94.24	14 36 49	897.12	16.73	323.38	87.55	113.55	14 51 46	297.1	19.77	316.00
100.00	14 9 6	986.51	10.21	326.69	84.30	118.25	14 25 33	386.5	13.90	319.86
100.00	16 36 8	5801.18	23.47	275.77	90.35	109.06	18 12 49	5201.2	25.86	267.78
110.00	14 4 56	999.63	3.02	323.32	79.93	124.07	14 21 36	399.6	7.48	317.06
110.00	18 56 48	5360.82	31.51	245.04	93.03	103.99	20 26 9	4760.8	33.11	236.18

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TOE	-2.9044	TRA	4.1740	TC3	-2.3115	BAU	1.0057	SGT	6186.5	SGR	438.2	SG3	197.0	ST	3251.3	SR	433.2
ROE	.4312	RRA	.0239	RC3	-.0531	FAU	.01506	RRT	-.3590	RRF	-.3631	RTF	.9695	CRT	-.8887	CRS	.8554
FOE	-1.0221	FRA	1.7334	FC3	-.4007	BSP	19950	SGB	6202.0	R23	.0145	R13	-.9695	LSA	3402.5	MSA	208.4
BOE	2.9363	BRA	4.1741	BC3	2.3121	FSP	-670	SG1	6188.5	SG2	408.9	THA	178.54	EL1	3274.1	EL2	197.2

SS 928.8 CST -.9976 SSA 14.0 ALF 173.22

LAUNCH DATE JUN 13 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 9 1968

HELIOCENTRIC CONIC DISTANCE 594.530

RL	151.93	LAL	-.00	LOL	261.32	VL	25.957	GAL	10.15	AZL	93.29	HCA	287.17	SMA	123.65	ECC	.28587	INC	3.2914	V1	29.325
RP	107.81	LAP	3.14	LOP	188.52	VP	37.266	GAP	14.93	AZP	90.97	TAL	152.09	TAP	79.27	RCA	88.30	APO	159.00	V2	35.151
RC	167.829	GL	-14.15	GP	1.16	ZAL	42.92	ZAP	174.67	ETS	10.98	ZAE	125.34	ETE	179.52	ZAC	71.99	ETC	13.03	CLP	-174.79

PLANETOCENTRIC CONIC

C3	36.024	VHL	6.002	DLA	-28.30	RAL	212.95	RAD	6568.4	VEL	12.546	PTH	2.27	VHP	9.443	DPA	-1.58	RAP	194.29	ECC	1.5929

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	14 0 21	1066.43	15.07	335.01	90.75	114.26	14 18 7	466.4	18.22	327.75
90.00	14 17 57	1009.39	16.64	331.56	91.47	113.25	14 34 46	409.4	19.64	324.17
100.00	14 8 42	1039.40	8.49	329.68	87.40	118.77	14 26 1	439.4	12.26	322.93
100.00	16 52 17	5799.68	23.50	275.67	94.29	109.02	18 28 57	5199.7	25.88	267.68
110.00	14 8 56	1038.67	1.53	325.36	83.13	124.15	14 26 14	438.7	6.00	319.13
110.00	19 8 33	5373.18	31.31	245.94	96.94	104.48	20 38 6	4773.2	32.98	237.12

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TOE	-2.9579	TRA	4.5407	TC3	-2.0654	BAU	.9949	SGT	6193.2	SGR	437.7	SG3	187.7	ST	3187.4	SR	434.5
ROE	.4551	RRA	.0103	RC3	-.0435	FAU	.01314	RRT	-.3846	RRF	-.3871	RTF	.9703	CRT	-.8822	CRS	.8490
FOE	-.9868	FRA	1.7713	FC3	-.3159	BSP	20041	SGB	6208.7	R23	.0134	R13	-.9703	LSA	3333.9	MSA	213.0
BOE	2.9927	BRA	4.5408	BC3	2.0658	FSP	-640	SG1	6195.5	SG2	403.9	THA	178.44	EL1	3210.5	EL2	203.1

SS 901.0 CST -.9977 SSA 13.6 ALF 173.12

LAUNCH DATE JUN 13 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 11 1968

HELIOCENTRIC CONIC DISTANCE 599.556

RL	151.93	LAL	-.00	LOL	261.32	VL	25.924	GAL	10.97	AZL	93.27	HCA	290.40	SMA	123.45	ECC	.29578	INC	3.2731	V1	29.325
RP	107.84	LAP	3.07	LOP	191.75	VP	37.232	GAP	15.64	AZP	91.14	TAL	150.93	TAP	81.33	RCA	86.94	APO	159.97	V2	35.139
RC	169.783	GL	-13.28	GP	1.13	ZAL	41.30	ZAP	175.69	ETS	13.51	ZAE	125.10	ETE	179.51	ZAC	69.89	ETC	13.07	CLP	-175.84

PLANETOCENTRIC CONIC

C3	40.041	VHL	6.328	DLA	-27.97	RAL	214.82	RAD	6568.5	VEL	12.705	PTH	2.31	VHP	9.857	DPA	-2.50	RAP	196.26	ECC	1.6590

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 37 38	1191.25	11.45	342.39	92.96	116.07	13 57 30	591.2	14.87	335.38
90.00	14 55 36	938.00	18.50	327.15	96.20	111.83	15 11 14	338.0	21.30	319.59
100.00	14 8 7	1092.68	6.73	332.66	90.46	119.19	14 26 20	492.7	10.57	325.98
100.00	17 7 48	5799.84	23.50	275.68	98.19	109.02	18 44 28	5199.8	25.88	267.69
110.00	14 12 21	1079.40	-.02	327.48	86.29	124.18	14 30 20	479.4	4.46	321.27
110.00	19 20 4	5385.88	31.09	246.87	100.80	104.99	20 49 49	4785.9	32.83	238.08

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TOE	-3.0136	TRA	4.9322	TC3	-1.8298	BAU	.9797	SGT	6195.0	SGR	436.4	SG3	179.0	ST	3122.8	SR	434.1
ROE	.4794	RRA	-.0054	RC3	-.0352	FAU	.01129	RRT	-.4104	RRF	-.4112	RTF	.9713	CRT	-.8756	CRS	.8425
FOE	-.9549	FRA	1.8119	FC3	-.2441	BSP	20106	SGB	6210.3	R23	.0121	R13	-.9713	LSA	3265.1	MSA	217.0
BOE	3.0515	BRA	4.9322	BC3	1.8302	FSP	-611	SG1	6197.6	SG2	397.8	THA	178.34	EL1	3146.0	EL2	208.2

SS 876.1 CST -.9978 SSA 13.1 ALF 173.03

LAUNCH DATE JUN 13 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 13 1968

DISTANCE 604.440

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 25.891 GAL 11.85 AZL 93.25 HCA 293.63 SMA 123.25 ECC .30662 INC 3.2540 VI 29.325
RP 107.88 LAP 2.98 LOP 194.98 VP 37.198 GAP 16.40 AZP 91.31 TAL 149.80 TAP 83.43 RCA 85.46 APO 161.05 V2 35.128
RC 171.722 GL -12.43 GP 1.10 ZAL 39.76 ZAP 176.71 ETS 17.75 ZAE 124.85 ETE 179.50 ZAC 67.80 ETC 13.14 CLP-176.90

PLANETOCENTRIC CONIC
C3 44.681 VHL 6.684 DLA -27.62 RAL 216.59 RAD 6568.7 VEL 12.886 PTH 2.35 VHP 10.305 DPA -3.42 RAP 198.23 ECC 1.7353

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 28 27	1272.06	9.00	347.06	95.66	116.96	13 49 39	672.1	12.54	340.17
90.00	15 18 54	912.47	19.14	325.54	100.33	111.27	15 34 6	312.5	21.86	317.93
100.00	14 7 22	1146.29	4.94	335.63	93.46	119.52	14 26 28	546.3	8.83	329.01
100.00	17 22 40	5801.51	23.46	275.79	102.04	109.07	18 59 22	5201.5	25.85	267.81
110.00	14 15 13	1121.60	-1.64	329.68	89.38	124.15	14 33 55	521.6	2.85	323.48
110.00	19 31 18	5398.96	30.85	247.81	104.62	105.51	21 1 17	4799.0	32.67	239.06

DIFFERENTIAL CORRECTIONS
TDE-3.0697 TRA 5.3534 TC3-1.6031 BAU .9578
RDE .5039 RRA -.0233 RC3 -.0283 FAU .00943
FDE -.9253 FRA 1.8566 FC3 -.1827 BSP 20081
BDE 3.1108 BRA 5.3534 BC3 1.6034 FSP -581

MID-COURSE EXECUTION ACCURACY
SGT 6191.6 SGR 434.2 SG3 170.9
RRT -.4360 RRF -.4352 RTF .9724
SGB 6206.8 R23 .0106 R13 -.9724
SG1 6194.5 SG2 390.6 THA 178.24

ORBIT DETERMINATION ACCURACY
ST 3056.3 SR 432.0 SS 853.7
CRT -.8687 CRS .8358 CST -.9979
LSA 3195.0 MSA 220.3 SSA 12.7
EL1 3079.4 EL2 212.4 ALF 172.97

LAUNCH DATE JUN 13 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 15 1968

DISTANCE 609.153

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 25.858 GAL 12.80 AZL 93.23 HCA 296.85 SMA 123.06 ECC .31849 INC 3.2339 VI 29.325
RP 107.92 LAP 2.88 LOP 198.21 VP 37.163 GAP 17.22 AZP 91.46 TAL 148.71 TAP 85.56 RCA 83.87 APO 162.25 V2 35.116
RC 173.647 GL -11.60 GP 1.07 ZAL 38.31 ZAP 177.70 ETS 25.95 ZAE 124.58 ETE 179.49 ZAC 65.73 ETC 13.25 CLP-177.97

PLANETOCENTRIC CONIC
C3 50.060 VHL 7.075 DLA -27.25 RAL 218.25 RAD 6568.8 VEL 13.093 PTH 2.39 VHP 10.791 DPA -4.32 RAP 200.19 ECC 1.8239

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 22 2	1343.51	6.77	351.12	98.42	117.56	13 44 26	743.5	10.41	344.33
90.00	15 38 35	897.95	19.50	324.63	104.29	110.95	15 53 33	298.0	22.17	316.98
100.00	14 6 24	1200.18	3.12	338.60	96.42	119.74	14 26 24	600.2	7.06	332.03
100.00	17 36 54	5804.55	23.40	275.99	105.82	109.16	19 13 39	5204.6	25.79	268.02
110.00	14 17 35	1165.09	-3.30	331.96	92.43	124.04	14 37 0	565.1	1.19	325.75
110.00	19 42 13	5412.41	30.60	248.78	108.38	106.03	21 12 26	4812.4	32.49	240.07

DIFFERENTIAL CORRECTIONS
TDE-3.1344 TRA 5.8000 TC3-1.3926 BAU .9321
RDE .5288 RRA -.0434 RC3 -.0226 FAU .00768
FDE -.9010 FRA 1.9032 FC3 -.1329 BSP 20134
BDE 3.1786 BRA 5.8001 BC3 1.3928 FSP -556

MID-COURSE EXECUTION ACCURACY
SGT 6183.5 SGR 431.2 SG3 163.3
RRT -.4622 RRF -.4599 RTF .9737
SGB 6198.5 R23 .0092 R13 -.9737
SG1 6186.7 SG2 382.2 THA 178.15

ORBIT DETERMINATION ACCURACY
ST 2993.0 SR 428.4 SS 835.4
CRT -.8623 CRS .8300 CST -.9980
LSA 3128.8 MSA 222.4 SSA 12.3
EL1 3015.8 EL2 215.3 ALF 172.93

LAUNCH DATE JUN 13 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 17 1968

DISTANCE 613.665

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 25.826 GAL 13.84 AZL 93.21 HCA 300.07 SMA 122.87 ECC .33154 INC 3.2127 VI 29.325
RP 107.96 LAP 2.78 LOP 201.43 VP 37.129 GAP 18.11 AZP 91.61 TAL 147.67 TAP 87.74 RCA 82.14 APO 163.61 V2 35.103
RC 175.555 GL -10.79 GP 1.05 ZAL 36.95 ZAP 178.59 ETS 45.90 ZAE 124.29 ETE 179.48 ZAC 63.67 ETC 13.38 CLP-179.05

PLANETOCENTRIC CONIC
C3 56.322 VHL 7.505 DLA -26.86 RAL 219.81 RAD 6569.0 VEL 13.330 PTH 2.44 VHP 11.320 DPA -5.20 RAP 202.15 ECC 1.9269

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 16 51	1410.50	4.64	354.90	101.17	117.97	13 40 21	810.5	8.35	348.18
90.00	15 56 11	889.33	19.71	324.08	108.12	110.76	16 11 0	289.3	22.35	316.41
100.00	14 5 12	1254.30	1.29	341.58	99.32	119.87	14 26 7	654.3	5.26	335.03
100.00	17 50 31	5808.80	23.30	276.27	109.53	109.27	19 27 20	5208.8	25.72	268.31
110.00	14 19 25	1209.67	-4.99	334.29	95.41	123.86	14 39 35	609.7	-.51	328.07
110.00	19 52 47	5426.19	30.34	249.77	112.08	106.56	21 23 13	4826.2	32.31	241.11

DIFFERENTIAL CORRECTIONS
TDE-3.2050 TRA 6.2787 TC3-1.1949 BAU .8998
RDE .5538 RRA -.0657 RC3 -.0180 FAU .00596
FDE -.8804 FRA 1.9540 FC3 -.0917 BSP 20171
BDE 3.2525 BRA 6.2791 BC3 1.1950 FSP -532

MID-COURSE EXECUTION ACCURACY
SGT 6170.5 SGR 427.4 SG3 156.2
RRT -.4885 RRF -.4848 RTF .9752
SGB 6185.3 R23 .0076 R13 -.9752
SG1 6174.0 SG2 372.7 THA 178.05

ORBIT DETERMINATION ACCURACY
ST 2930.6 SR 423.2 SS 820.3
CRT -.8562 CRS .8246 CST -.9982
LSA 3064.4 MSA 223.4 SSA 11.8
EL1 2953.1 EL2 217.0 ALF 172.91

LAUNCH DATE JUN 13 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 19 1968

DISTANCE 617.938

HELIOCENTRIC CONIC
RL 151.93 LAL -.00 LOL 261.32 VL 25.794 GAL 14.96 AZL 93.19 HCA 303.29 SMA 122.69 ECC .34591 INC 3.1901 VI 29.325
RP 107.99 LAP 2.67 LOP 204.65 VP 37.096 GAP 19.08 AZP 91.75 TAL 146.69 TAP 89.98 RCA 80.25 APO 165.13 V2 35.091
RC 177.448 GL -10.01 GP 1.03 ZAL 35.69 ZAP 178.96 ETS 96.66 ZAE 123.98 ETE 179.46 ZAC 61.64 ETC 13.55 CLP 179.84

PLANETOCENTRIC CONIC
C3 63.644 VHL 7.978 DLA -26.45 RAL 221.25 RAD 6569.2 VEL 13.601 PTH 2.49 VHP 11.900 DPA -6.06 RAP 204.08 ECC 2.0474

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 12 16	1474.85	2.58	358.50	103.89	118.21	13 36 50	874.8	6.33	351.83
90.00	16 12 18	884.50	19.82	323.78	111.83	110.65	16 27 3	284.5	22.45	316.09
100.00	14 3 44	1308.58	-.55	344.55	102.16	119.89	14 25 33	708.6	3.43	338.03
100.00	18 3 30	5814.04	23.18	276.62	113.15	109.42	19 40 24	5214.0	25.62	268.67
110.00	14 20 46	1255.16	-6.71	336.69	98.34	123.60	14 41 41	655.2	-2.25	330.45
110.00	20 2 58	5440.23	30.06	250.77	115.69	107.09	21 33 39	4840.2	32.11	242.15

DIFFERENTIAL CORRECTIONS
TDE-3.2822 TRA 6.7937 TC3-1.0090 BAU .8586
RDE .5790 RRA -.0905 RC3 -.0145 FAU .00424
FDE -.8634 FRA 2.0098 FC3 -.0577 BSP 20282
BDE 3.3329 BRA 6.7943 BC3 1.0091 FSP -509

MID-COURSE EXECUTION ACCURACY
SGT 6152.2 SGR 422.8 SG3 149.5
RRT -.5147 RRF -.5098 RTF .9769
SGB 6166.7 R23 .0061 R13 -.9769
SG1 6156.0 SG2 362.2 THA 177.97

ORBIT DETERMINATION ACCURACY
ST 2869.2 SR 416.4 SS 808.6
CRT -.8502 CRS .8196 CST -.9983
LSA 3001.6 MSA 223.3 SSA 11.4
EL1 2891.1 EL2 217.5 ALF 172.92

LAUNCH DATE JUN 14 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 23 1967

HELIOCENTRIC CONIC DISTANCE 157.674

RL 151.94 LAL -.00 LOL 262.28 VL 22.166 GAL 1.73 AZL 93.56 HCA 62.69 SMA 105.70 ECC .43833 INC 3.5559 V1 29.322
RP 108.92 LAP -3.16 LOP 324.92 VP 34.370 GAP -25.94 AZP 91.63 TAL 177.78 TAP 240.47 RCA 59.37 APO 152.03 V2 34.791
RC 44.000 GL -10.77 GP -.78 ZAL 86.12 ZAP 14.56 ETS 177.40 ZAE 169.56 ETE 92.28 ZAC 105.60 ETC 14.97 CLP 14.54

PLANETOCENTRIC CONIC

C3 54.096 VHL 7.355 DLA -8.38 RAL 172.23 RAD 6569.0 VEL 13.246 PTH 2.42 VHP 15.476 DPA 10.41 RAP 162.05 ECC 1.8903

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 27 3	2199.27	-19.19	40.51	48.34	111.23	7 3 43	1599.3	-16.14	33.17
90.00	16 18 34	5368.72	27.82	245.30	54.65	84.47	17 48 2	4768.7	26.76	236.79
100.00	7 44 20	1949.94	-20.55	21.61	47.77	112.20	8 16 50	1349.9	-17.35	14.27
100.00	17 43 58	5093.28	29.26	224.87	54.48	83.60	19 8 51	4493.3	28.07	216.27
110.00	8 43 20	1765.24	-24.15	5.89	46.07	114.96	9 12 45	1165.2	-20.58	358.57
110.00	19 1 28	4850.75	33.16	205.85	53.87	81.18	20 22 19	4250.7	31.59	196.97

DIFFERENTIAL CORRECTIONS
TOE .4228 TRA -.9093 TC3 .0116 BAU .0496
ROE -.4972 RRA -.2228 RC3 .0675 FAU .01836
FDE -.3135 FRA .3692 FC3 -.2939 BSP 2069
BOE .6526 BRA .9362 BC3 .0685 FSP -107

MID-COURSE EXECUTION ACCURACY
SGT 788.3 SGR 436.7 SG3 49.7
RRT -.0006 RRF .0025 RTF -.6526
SGB 901.2 R23 -.0018 R13 .6526
SG1 788.3 SG2 436.7 THA 179.97

ORBIT DETERMINATION ACCURACY
ST 393.2 SR 390.9 SS 347.2
CRT -.7564 CRS -.8864 CST .9714
LSA 623.8 MSA 196.4 SSA 14.7
EL1 519.6 EL2 193.5 ALF 135.22

LAUNCH DATE JUN 14 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 25 1967

HELIOCENTRIC CONIC DISTANCE 164.188

RL 151.94 LAL -.00 LOL 262.28 VL 22.602 GAL 1.57 AZL 93.53 HCA 65.85 SMA 107.37 ECC .41587 INC 3.5322 V1 29.322
RP 108.91 LAP -3.22 LOP 328.09 VP 34.657 GAP -24.56 AZP 91.45 TAL 177.79 TAP 243.64 RCA 62.72 APO 152.02 V2 34.795
RC 43.455 GL -11.59 GP -.82 ZAL 86.28 ZAP 12.89 ETS 176.75 ZAE 169.12 ETE 78.54 ZAC 104.17 ETC 14.79 CLP 12.87

PLANETOCENTRIC CONIC

C3 47.979 VHL 6.927 DLA -9.07 RAL 171.76 RAD 6568.8 VEL 13.013 PTH 2.37 VHP 14.707 DPA 9.82 RAP 163.44 ECC 1.7896

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 30 40	2146.96	-17.87	37.24	45.76	112.34	7 6 26	1547.0	-14.69	30.02
90.00	16 11 10	5361.34	27.77	244.77	52.23	84.20	17 40 32	4761.3	26.67	236.27
100.00	7 47 34	1898.83	-19.20	18.41	45.17	113.36	8 19 13	1298.8	-15.87	11.20
100.00	17 36 57	5084.69	29.20	224.24	52.05	83.28	19 1 41	4484.7	27.96	215.66
110.00	8 45 44	1716.73	-22.72	2.85	43.42	116.25	9 14 20	1116.7	-19.01	355.68
110.00	18 55 17	4839.56	33.04	205.00	51.42	80.69	20 15 56	4239.6	31.40	196.16

DIFFERENTIAL CORRECTIONS
TOE .4244 TRA -.8870 TC3 .0347 BAU .0538
ROE -.4706 RRA -.2090 RC3 .0763 FAU .01918
FDE -.3320 FRA .3731 FC3 -.3460 BSP 2217
BOE .6337 BRA .9113 BC3 .0838 FSP -122

MID-COURSE EXECUTION ACCURACY
SGT 823.2 SGR 439.7 SG3 54.8
RRT -.0041 RRF .0054 RTF -.6731
SGB 933.3 R23 -.0016 R13 .6731
SG1 823.2 SG2 439.7 THA 179.83

ORBIT DETERMINATION ACCURACY
ST 415.9 SR 392.8 SS 369.2
CRT -.7649 CRS -.8931 CST .9711
LSA 651.4 MSA 197.6 SSA 15.1
EL1 537.5 EL2 195.8 ALF 137.14

LAUNCH DATE JUN 14 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 27 1967

HELIOCENTRIC CONIC DISTANCE 170.744

RL 151.94 LAL -.00 LOL 262.28 VL 23.006 GAL 1.40 AZL 93.51 HCA 69.01 SMA 108.99 ECC .39470 INC 3.5097 V1 29.322
RP 108.90 LAP -3.28 LOP 331.26 VP 34.925 GAP -23.25 AZP 91.26 TAL 177.85 TAP 246.87 RCA 65.97 APO 152.01 V2 34.799
RC 43.079 GL -12.45 GP -.85 ZAL 86.58 ZAP 11.22 ETS 175.92 ZAE 168.14 ETE 66.08 ZAC 102.74 ETC 14.63 CLP 11.19

PLANETOCENTRIC CONIC

C3 42.656 VHL 6.531 DLA -9.74 RAL 171.15 RAD 6568.6 VEL 12.807 PTH 2.33 VHP 13.970 DPA 9.22 RAP 164.81 ECC 1.7020

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 33 35	2095.61	-16.51	34.09	43.12	113.33	7 8 31	1495.6	-13.22	26.96
90.00	16 3 23	5353.61	27.71	244.21	49.69	83.93	17 32 36	4753.6	26.58	235.72
100.00	7 50 8	1848.66	-17.81	15.33	42.51	114.41	8 20 56	1248.7	-14.37	8.23
100.00	17 29 31	5075.79	29.12	223.59	49.50	82.94	18 54 7	4475.8	27.84	215.02
110.00	8 47 28	1669.12	-21.26	359.93	40.74	117.42	9 15 17	1069.1	-17.42	352.91
110.00	18 48 40	4828.09	32.91	204.13	48.85	80.19	20 9 9	4228.1	31.21	195.32

DIFFERENTIAL CORRECTIONS
TOE .4253 TRA -.8642 TC3 .0625 BAU .0605
ROE -.4451 RRA -.1957 RC3 .0857 FAU .02006
FDE -.3516 FRA .3763 FC3 -.4071 BSP 2339
BOE .6156 BRA .8861 BC3 .1061 FSP -136

MID-COURSE EXECUTION ACCURACY
SGT 858.8 SGR 442.0 SG3 60.5
RRT -.0068 RRF .0082 RTF -.6921
SGB 965.9 R23 -.0018 R13 .6921
SG1 858.8 SG2 441.9 THA 179.73

ORBIT DETERMINATION ACCURACY
ST 438.7 SR 394.0 SS 392.0
CRT -.7731 CRS -.8998 CST .9707
LSA 679.6 MSA 198.2 SSA 15.5
EL1 555.7 EL2 197.3 ALF 138.97

LAUNCH DATE JUN 14 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 29 1967

HELIOCENTRIC CONIC DISTANCE 177.336

RL 151.94 LAL -.00 LOL 262.28 VL 23.378 GAL 1.21 AZL 93.49 HCA 72.18 SMA 110.56 ECC .37479 INC 3.4881 V1 29.322
RP 108.88 LAP -3.32 LOP 334.42 VP 35.177 GAP -21.99 AZP 91.07 TAL 177.98 TAP 250.16 RCA 69.12 APO 152.00 V2 34.804
RC 42.876 GL -13.33 GP -.90 ZAL 87.00 ZAP 9.54 ETS 174.80 ZAE 166.72 ETE 55.64 ZAC 101.32 ETC 14.48 CLP 9.50

PLANETOCENTRIC CONIC

C3 38.027 VHL 6.167 DLA -10.38 RAL 170.40 RAD 6568.5 VEL 12.625 PTH 2.29 VHP 13.264 DPA 8.62 RAP 166.17 ECC 1.6258

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 35 48	2045.53	-15.14	31.05	40.43	114.22	7 9 54	1445.5	-11.74	24.02
90.00	15 55 13	5345.67	27.65	243.63	47.03	83.65	17 24 18	4745.7	26.48	235.16
100.00	7 51 59	1799.75	-16.41	12.37	39.82	115.34	8 21 59	1199.7	-12.87	5.38
100.00	17 21 43	5066.69	29.04	222.92	46.84	82.60	18 46 9	4466.7	27.72	214.37
110.00	8 48 31	1622.72	-19.78	357.14	38.02	118.47	9 15 34	1022.7	-15.82	350.26
110.00	18 41 40	4816.48	32.77	203.25	46.17	79.68	20 1 57	4216.5	31.00	194.47

DIFFERENTIAL CORRECTIONS
TOE .4280 TRA -.8399 TC3 .0976 BAU .0695
ROE -.4208 RRA -.1828 RC3 .0957 FAU .02108
FDE -.3737 FRA .3777 FC3 -.4798 BSP 2490
BOE .6002 BRA .8595 BC3 .1367 FSP -154

MID-COURSE EXECUTION ACCURACY
SGT 895.6 SGR 443.4 SG3 66.8
RRT -.0108 RRF .0126 RTF -.7109
SGB 999.3 R23 -.0024 R13 .7109
SG1 895.6 SG2 443.4 THA 179.59

ORBIT DETERMINATION ACCURACY
ST 463.5 SR 394.4 SS 416.9
CRT -.7830 CRS -.9071 CST .9705
LSA 710.5 MSA 197.8 SSA 15.8
EL1 575.6 EL2 197.5 ALF 140.85

LAUNCH DATE JUN 14 1967 FLIGHT TIME 78.00 ARRIVAL DATE AUG 31 1967

DISTANCE 183.960

HELIOCENTRIC CONIC
RL 151.94 LAL -.00 LOL 262.28 VL 23.722 GAL 1.01 AZL 93.47 HCA 75.34 SMA 112.07 ECC .35612 INC 3.4672 V1 29.322
RP 108.87 LAP -3.35 LOP 337.60 VP 35.411 GAP -20.80 AZP 90.88 TAL 178.17 TAP 253.51 RCA 72.16 APO 151.99 V2 34.809
RC 42.849 GL -14.24 GP -.94 ZAL 87.56 ZAP 7.85 ETS 173.19 ZAE 165.00 ETE 47.26 ZAC 99.92 ETC 14.34 CLP 7.79

PLANETOCENTRIC CONIC
C3 34.002 VHL 5.831 DLA -11.00 RAL 169.52 RAD 6568.3 VEL 12.465 PTH 2.25 VHP 12.587 DPA 8.01 RAP 167.52 ECC 1.5596

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 37 18	1997.07	-13.77	28.16	37.71	114.99	7 10 35	1397.1	-10.28	21.21
90.00	15 46 42	5337.61	27.59	243.05	44.28	83.36	17 15 39	4737.6	26.38	234.59
100.00	7 53 8	1752.42	-15.01	9.55	37.09	116.16	8 22 20	1152.4	-11.38	2.65
100.00	17 13 33	5057.49	28.96	222.25	44.09	82.26	18 37 50	4457.5	27.59	213.72
110.00	8 48 53	1577.82	-18.30	354.50	35.28	119.39	9 15 11	977.8	-14.24	347.73
110.00	18 34 17	4804.85	32.63	202.37	43.39	79.19	19 54 22	4204.9	30.79	193.63

DIFFERENTIAL CORRECTIONS
TDE .4324 TRA -.8144 TC3 .1400 BAU .0799
RDE -.3977 RRA -.1704 RC3 .1062 FAU .02220
FDE -.3980 FRA .3783 FC3 -.5652 BSP 2647
BDE .5875 BRA .8320 BC3 .1757 FSP -173

MID-COURSE EXECUTION ACCURACY
SGT 933.6 SGR 444.0 SG3 73.9
RRT -.0163 RRF .0174 RTF -.7298
SGB 1033.8 R23 -.0020 R13 .7298
SG1 933.7 SG2 444.0 THA 179.43

ORBIT DETERMINATION ACCURACY
ST 490.2 SR 394.2 SS 443.4
CRT -.7944 CRS -.9144 CST .9707
LSA 743.9 MSA 196.4 SSA 16.2
EL1 597.6 EL2 196.4 ALF 142.74

LAUNCH DATE JUN 14 1967 FLIGHT TIME 80.00 ARRIVAL DATE SEP 2 1967

DISTANCE 190.610

HELIOCENTRIC CONIC
RL 151.94 LAL -.00 LOL 262.28 VL 24.039 GAL .81 AZL 93.45 HCA 78.51 SMA 113.53 ECC .33865 INC 3.4469 V1 29.322
RP 108.85 LAP -3.38 LOP 340.77 VP 35.631 GAP -19.66 AZP 90.69 TAL 178.41 TAP 256.92 RCA 75.08 APO 151.97 V2 34.815
RC 42.995 GL -15.17 GP -1.00 ZAL 88.24 ZAP 6.15 ETS 170.69 ZAE 163.09 ETE 40.62 ZAC 98.53 ETC 14.21 CLP 6.07

PLANETOCENTRIC CONIC
C3 30.506 VHL 5.523 DLA -11.57 RAL 168.51 RAD 6568.2 VEL 12.324 PTH 2.22 VHP 11.938 DPA 7.40 RAP 168.84 ECC 1.5020

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 38 2	1950.54	-12.41	25.41	34.95	115.66	7 10 33	1350.5	-8.86	18.54
90.00	15 37 53	5329.52	27.53	242.47	41.46	83.08	17 6 43	4729.5	26.28	234.02
100.00	7 53 31	1706.99	-13.63	6.89	34.33	116.86	8 21 58	1107.0	-9.92	.07
100.00	17 5 5	5048.30	28.88	221.58	41.26	81.92	18 29 13	4448.3	27.46	213.07
110.00	8 48 32	1534.75	-16.84	352.01	32.53	120.20	9 14 6	934.7	-12.70	345.35
110.00	18 26 34	4793.31	32.48	201.51	40.54	78.69	19 46 27	4193.3	30.58	192.80

DIFFERENTIAL CORRECTIONS
TDE .4354 TRA -.7879 TC3 .1885 BAU .0905
RDE -.3759 RRA -.1586 RC3 .1170 FAU .02344
FDE -.4236 FRA .3774 FC3 -.6653 BSP 2779
BDE .5752 BRA .8037 BC3 .2218 FSP -194

MID-COURSE EXECUTION ACCURACY
SGT 971.3 SGR 443.8 SG3 81.6
RRT -.0211 RRF .0222 RTF -.7462
SGB 1067.9 R23 -.0023 R13 .7463
SG1 971.4 SG2 443.7 THA 179.30

ORBIT DETERMINATION ACCURACY
ST 516.4 SR 393.2 SS 470.4
CRT -.8051 CRS -.9215 CST .9708
LSA 777.5 MSA 194.6 SSA 16.6
EL1 619.3 EL2 194.5 ALF 144.46

LAUNCH DATE JUN 14 1967 FLIGHT TIME 82.00 ARRIVAL DATE SEP 4 1967

DISTANCE 197.283

HELIOCENTRIC CONIC
RL 151.94 LAL -.00 LOL 262.28 VL 24.332 GAL .61 AZL 93.43 HCA 81.68 SMA 114.92 ECC .32236 INC 3.4271 V1 29.322
RP 108.83 LAP -3.39 LOP 343.94 VP 35.835 GAP -18.57 AZP 90.50 TAL 178.72 TAP 260.40 RCA 77.87 APO 151.96 V2 34.822
RC 43.312 GL -16.11 GP -1.05 ZAL 89.05 ZAP 4.45 ETS 166.21 ZAE 161.10 ETE 35.34 ZAC 97.17 ETC 14.09 CLP 4.32

PLANETOCENTRIC CONIC
C3 27.472 VHL 5.241 DLA -12.11 RAL 167.37 RAD 6568.1 VEL 12.200 PTH 2.19 VHP 11.316 DPA 6.79 RAP 170.13 ECC 1.4521

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 38 0	1906.28	-11.09	22.83	32.18	116.22	7 9 47	1306.3	-7.48	16.01
90.00	15 28 50	5321.40	27.46	241.88	38.57	82.79	16 57 31	4721.4	26.17	233.45
100.00	7 53 10	1663.79	-12.29	4.38	31.56	117.46	8 20 54	1063.8	-8.51	357.63
100.00	16 56 21	5039.13	28.79	220.92	38.36	81.58	18 20 20	4439.1	27.32	212.42
110.00	8 47 27	1493.78	-15.42	349.68	29.76	120.89	9 12 21	893.8	-11.21	343.11
110.00	18 18 34	4781.90	32.32	200.65	37.63	78.21	19 38 16	4181.9	30.36	191.99

DIFFERENTIAL CORRECTIONS
TDE .4399 TRA -.7605 TC3 .2458 BAU .1018
RDE -.3554 RRA -.1474 RC3 .1278 FAU .02486
FDE -.4526 FRA .3746 FC3 -.7836 BSP 2936
BDE .5655 BRA .7747 BC3 .2770 FSP -219

MID-COURSE EXECUTION ACCURACY
SGT 1010.3 SGR 442.7 SG3 90.4
RRT -.0272 RRF .0283 RTF -.7621
SGB 1103.0 R23 -.0026 R13 .7622
SG1 1010.4 SG2 442.5 THA 179.16

ORBIT DETERMINATION ACCURACY
ST 544.4 SR 391.6 SS 499.6
CRT -.8169 CRS -.9288 CST .9710
LSA 813.8 MSA 191.9 SSA 17.1
EL1 642.8 EL2 191.3 ALF 146.16

LAUNCH DATE JUN 14 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 6 1967

DISTANCE 203.974

HELIOCENTRIC CONIC
RL 151.94 LAL -.00 LOL 262.28 VL 24.601 GAL .40 AZL 93.41 HCA 84.85 SMA 116.24 ECC .30721 INC 3.4076 V1 29.322
RP 108.80 LAP -3.39 LOP 347.11 VP 36.026 GAP -17.52 AZP 90.31 TAL 179.09 TAP 263.93 RCA 80.53 APO 151.95 V2 34.830
RC 43.796 GL -17.06 GP -1.12 ZAL 89.97 ZAP 2.78 ETS 156.12 ZAE 159.10 ETE 31.09 ZAC 95.84 ETC 13.99 CLP 2.55

PLANETOCENTRIC CONIC
C3 24.843 VHL 4.984 DLA -12.60 RAL 166.12 RAD 6568.0 VEL 12.092 PTH 2.16 VHP 10.720 DPA 6.18 RAP 171.39 ECC 1.4089

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 37 12	1864.60	-9.83	20.42	29.39	116.69	7 8 16	1264.6	-6.17	13.65
90.00	15 19 37	5313.28	27.39	241.30	35.64	82.51	16 48 10	4713.3	26.07	232.88
100.00	7 52 3	1623.11	-11.00	2.05	28.77	117.97	8 19 6	1023.1	-7.17	355.35
100.00	16 47 27	5030.01	28.69	220.25	35.43	81.24	18 11 17	4430.0	27.18	211.78
110.00	8 45 39	1455.21	-14.06	347.52	26.98	121.48	9 9 55	855.2	-9.80	341.02
110.00	18 10 20	4770.67	32.16	199.82	34.68	77.74	19 29 50	4170.7	30.14	191.19

DIFFERENTIAL CORRECTIONS
TDE .4420 TRA -.7350 TC3 .3067 BAU .1118
RDE -.3361 RRA -.1367 RC3 .1386 FAU .02639
FDE -.4828 FRA .3721 FC3 -.9195 BSP 3036
BDE .5553 BRA .7477 BC3 .3366 FSP -244

MID-COURSE EXECUTION ACCURACY
SGT 1049.4 SGR 440.8 SG3 100.0
RRT -.0316 RRF .0337 RTF -.7751
SGB 1138.2 R23 -.0040 R13 .7752
SG1 1049.5 SG2 440.5 THA 179.08

ORBIT DETERMINATION ACCURACY
ST 570.7 SR 389.4 SS 528.9
CRT -.8267 CRS -.9353 CST .9709
LSA 849.0 MSA 189.7 SSA 17.5
EL1 664.8 EL2 188.1 ALF 147.68

LAUNCH DATE JUN 14 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 8 1967

HELIOCENTRIC CONIC DISTANCE 210.679

```
RL  151.94 LAL   -.00 LOL 262.28 VL  24.848 GAL    .20 AZL  93.39 HCA  88.02 SMA 117.50 ECC .29315 INC 3.3883 VI  29.322
RP  108.78 LAP  -3.39 LOP 350.29 VP  36.203 GAP -16.52 AZP  90.12 TAL 179.51 TAP 267.53 RCA  83.06 APO 151.94 V2  34.838
RC  44.440 GL  -18.01 GP   -1.19 ZAL  91.01 ZAP   1.40 ETS 121.43 ZAE 157.15 ETE  27.61 ZAC  94.54 ETC  13.90 CLP    .73
```

PLANETOCENTRIC CONIC

```
C3  22.567 VHL  4.750 DLA -13.05 RAL 164.75 RAD 6567.9 VEL 11.998 PTH   2.14 VHP 10.148 DPA   5.58 RAP 172.62 ECC 1.3714
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 35 36	1825.80	-8.63	18.20	26.60	117.07	7 6 1	1225.8	-4.94	11.47
90.00	15 10 19	5305.09	27.31	240.71	32.69	82.22	16 38 44	4705.1	25.95	232.31
100.00	7 50 9	1585.23	-9.78	359.90	25.99	118.39	8 16 35	985.2	-5.92	353.24
100.00	16 38 26	5020.90	28.60	219.59	32.47	80.90	18 2 7	4420.9	27.04	211.14
110.00	8 43 9	1419.28	-12.78	345.53	24.21	121.98	9 6 48	819.3	-8.46	339.10
110.00	18 1 56	4759.61	32.00	198.99	31.71	77.28	19 21 16	4159.6	29.92	190.40

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .4462 TRA -.7064 TC3  .3801 BAU  .1232   SGT 1088.5 SGR  437.9 SG3  110.8      ST   598.8 SR   386.6 SS   559.3
RDE -.3181 RRA -.1267 RC3  .1489 FAU .02814   RRT -.0383 RRF  .0400 RTF -.7896     CRT -.8385 CRS -.9419 CST  .9714
FDE -.5160 FRA  .3668 FC3-1.0794 BSP   3182   SGB 1173.3 R23 -.0040 R13  .7896     LSA  886.4 MSA  186.2 SSA   17.9
BDE  .5480 BRA  .7176 BC3  .4082 FSP   -276   SG1 1088.7 SG2  437.6 THA 178.95     EL1  688.8 EL2  183.1 ALF 149.16
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 10 1967

HELIOCENTRIC CONIC DISTANCE 217.387

```
RL  151.94 LAL   -.00 LOL 262.28 VL  25.075 GAL    .00 AZL  93.37 HCA  91.19 SMA 118.69 ECC .28014 INC 3.3690 VI  29.322
RP  108.75 LAP  -3.37 LOP 353.47 VP  36.367 GAP -15.56 AZP  89.93 TAL 179.99 TAP 271.18 RCA  85.44 APO 151.94 V2  34.846
RC  45.237 GL  -18.95 GP   -1.27 ZAL  92.14 ZAP   1.69 ETS  48.17 ZAE 155.30 ETE  24.72 ZAC  93.28 ETC  13.83 CLP  -1.12
```

PLANETOCENTRIC CONIC

```
C3  20.600 VHL  4.539 DLA -13.45 RAL 163.29 RAD 6567.8 VEL 11.916 PTH   2.12 VHP  9.600 DPA   4.98 RAP 173.80 ECC 1.3390
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 33 16	1790.01	-7.52	16.16	23.83	117.38	7 3 6	1190.0	-3.79	9.46
90.00	15 1 1	5296.90	27.24	240.13	29.74	81.94	16 29 18	4696.9	25.84	231.74
100.00	7 47 34	1550.29	-8.65	357.93	23.22	118.73	8 13 24	950.3	-4.75	351.31
100.00	16 29 25	5011.85	28.50	218.94	29.52	80.57	17 52 56	4411.9	26.90	210.50
110.00	8 39 59	1386.12	-11.57	343.72	21.47	122.39	9 3 5	786.1	-7.22	337.33
110.00	17 53 29	4748.79	31.83	198.19	28.75	76.83	19 12 38	4148.8	29.69	189.64

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .4691 TRA -.7082 TC3  .3244 BAU  .0996   SGT 1132.4 SGR  434.9 SG3  121.0      ST   653.3 SR   383.8 SS   619.3
RDE -.3019 RRA -.1167 RC3  .1597 FAU .02841   RRT -.0889 RRF  .0740 RTF -.7656     CRT -.8499 CRS -.9470 CST  .9728
FDE -.5786 FRA  .3877 FC3-1.1939 BSP   2585   SGB 1213.0 R23  .0057 R13  .7656     LSA  960.6 MSA  185.5 SSA   18.5
BDE  .5578 BRA  .7177 BC3  .3615 FSP   -229   SG1 1133.2 SG2  432.9 THA 177.71     EL1  736.1 EL2  179.5 ALF 151.63
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 12 1967

HELIOCENTRIC CONIC DISTANCE 224.113

```
RL  151.94 LAL   -.00 LOL 262.28 VL  25.284 GAL   -.19 AZL  93.35 HCA  94.36 SMA 119.82 ECC .26815 INC 3.3497 VI  29.322
RP  108.72 LAP  -3.34 LOP 356.65 VP  36.520 GAP -14.64 AZP  89.74 TAL 180.52 TAP 274.88 RCA  87.69 APO 151.94 V2  34.856
RC  46.178 GL  -19.86 GP   -1.36 ZAL  93.36 ZAP   3.31 ETS  23.71 ZAE 153.58 ETE  22.28 ZAC  92.07 ETC  13.76 CLP  -3.02
```

PLANETOCENTRIC CONIC

```
C3  18.903 VHL  4.348 DLA -13.79 RAL 161.74 RAD 6567.8 VEL 11.844 PTH   2.10 VHP  9.076 DPA   4.39 RAP 174.93 ECC 1.3111
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 30 5	1757.78	-6.51	14.33	21.07	117.62	6 59 22	1157.8	-2.76	7.66
90.00	14 51 51	5288.32	27.15	239.51	26.79	81.64	16 19 59	4688.3	25.72	231.14
100.00	7 44 9	1518.80	-7.61	356.16	20.47	118.99	8 9 28	918.8	-3.69	349.57
100.00	16 20 28	5002.53	28.39	218.27	26.56	80.23	17 43 50	4402.5	26.75	209.85
110.00	8 36 4	1356.17	-10.48	342.09	18.74	122.73	8 58 40	756.2	-6.09	335.75
110.00	17 45 2	4737.92	31.66	197.39	25.78	76.38	19 4 0	4137.9	29.47	188.87

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .4621 TRA -.6396 TC3  .5611 BAU  .1479   SGT 1167.1 SGR  429.9 SG3  137.9      ST   662.4 SR   379.8 SS   636.2
RDE -.2862 RRA -.1085 RC3  .1664 FAU .03269   RRT -.0624 RRF  .0649 RTF -.8181     CRT -.8670 CRS -.9568 CST  .9730
FDE -.6058 FRA  .3419 FC3-1.4971 BSP   3602   SGB 1243.8 R23 -.0059 R13  .8182     LSA  977.9 MSA  176.4 SSA   18.8
BDE  .5435 BRA  .6488 BC3  .5853 FSP   -361   SG1 1167.5 SG2  429.0 THA 178.48     EL1  744.8 EL2  168.3 ALF 152.01
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 14 1967

HELIOCENTRIC CONIC DISTANCE 230.837

```
RL  151.94 LAL   -.00 LOL 262.28 VL  25.474 GAL   -.38 AZL  93.33 HCA  97.54 SMA 120.87 ECC .25712 INC 3.3302 VI  29.322
RP  108.69 LAP  -3.30 LOP 359.83 VP  36.662 GAP -13.75 AZP  89.56 TAL 181.09 TAP 278.62 RCA  89.79 APO 151.95 V2  34.865
RC  47.255 GL  -20.75 GP   -1.46 ZAL  94.65 ZAP   5.19 ETS  15.74 ZAE 152.03 ETE  20.19 ZAC  90.92 ETC  13.71 CLP  -4.99
```

PLANETOCENTRIC CONIC

```
C3  17.441 VHL  4.176 DLA -14.08 RAL 160.14 RAD 6567.7 VEL 11.782 PTH   2.08 VHP  8.573 DPA   3.80 RAP 176.00 ECC 1.2870
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 26 14	1728.91	-5.59	12.70	18.36	117.80	6 55 3	1128.9	-1.83	6.05
90.00	14 42 54	5279.57	27.06	238.89	23.88	81.34	16 10 53	4679.6	25.59	230.53
100.00	7 40 6	1490.57	-6.68	354.59	17.76	119.20	8 4 56	890.6	-2.73	348.02
100.00	16 11 42	4993.14	28.28	217.59	23.65	79.90	17 34 56	4393.1	26.60	209.20
110.00	8 31 36	1329.26	-9.48	340.64	16.05	123.00	8 53 45	729.3	-5.07	334.33
110.00	17 36 42	4727.22	31.49	196.61	22.86	75.95	18 55 29	4127.2	29.24	188.12

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .4621 TRA -.6131 TC3  .6476 BAU  .1563   SGT 1202.8 SGR  424.5 SG3  152.9      ST   685.5 SR   375.6 SS   668.7
RDE -.2720 RRA -.1002 RC3  .1731 FAU .03510   RRT -.0694 RRF  .0740 RTF -.8263     CRT -.8756 CRS -.9620 CST  .9727
FDE -.6492 FRA  .3314 FC3-1.7421 BSP  .3604   SGB 1275.5 R23 -.0085 R13  .8264     LSA 1013.6 MSA  173.9 SSA   19.2
BDE  .5362 BRA  .6213 BC3  .6704 FSP   -399   SG1 1203.2 SG2  423.4 THA 178.40     EL1  764.5 EL2  162.7 ALF 153.05
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 16 1967

HELIOCENTRIC CONIC DISTANCE 237.559

```
RL  151.94 LAL   -.00 LOL 262.28 VL  25.649 GAL   -.56 AZL  93.31 HCA 100.71 SMA 121.86 ECC .24701 INC 3.3104 V1  29.322
RP  108.66 LAP  -3.25 LOP   3.01 VP  36.793 GAP -12.90 AZP  89.38 TAL 181.69 TAP 282.41 RCA  91.76 APO 151.96 V2  34.875
RC   48.458 GL  -21.60 GP   -1.57 ZAL  95.99 ZAP   7.19 ETS  11.96 ZAE 150.68 ETE  18.37 ZAC  89.84 ETC  13.67 CLP  -7.02
```

PLANETOCENTRIC CONIC

```
C3  16.183 VHL  4.023 DLA -14.31 RAL 158.49 RAD 6567.6 VEL 11.729 PTH   2.07 VHP  8.092 DPA   3.24 RAP 177.00 ECC 1.2663
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 21 42	1703.64	-4.79	11.28	15.69	117.94	6 50 6	1103.6	-1.01	4.64
90.00	14 34 15	5270.44	26.97	238.24	21.03	81.02	16 2 6	4670.4	25.45	229.90
100.00	7 35 25	1465.82	-5.85	353.21	15.11	119.37	7 59 50	865.8	-1.90	346.66
100.00	16 3 14	4983.50	28.17	216.90	20.80	79.55	17 26 17	4383.5	26.43	208.52
110.00	8 26 34	1305.58	-8.60	339.37	13.42	123.21	8 48 20	705.6	-4.17	333.09
110.00	17 28 34	4716.50	31.31	195.82	20.00	75.52	18 47 10	4116.5	29.00	187.38

DIFFERENTIAL CORRECTIONS

```
TDE  .4686 TRA -.5798 TC3  .7512 BAU  .1670
RDE -.2591 RRA -.0926 RC3  .1775 FAU .03804
FDE -.7049 FRA  .3134 FC3-2.0351 BSP   3790
BDE  .5355 BRA  .5872 BC3  .7719 FSP   -452
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1239.8 SGR  418.5 SG3  170.7
RRT -.0848 RRF  .0894 RTF -.8381
SGB 1308.5 R23 -.0094 R13  .8382
SG1 1240.4 SG2  416.8 THA 178.15
```

ORBIT DETERMINATION ACCURACY

```
ST   715.0 SR   371.3 SS   709.4
CRT -.8882 CRS -.9679 CST  .9737
LSA 1059.8 MSA  169.3 SSA   19.5
EL1  790.7 EL2  154.3 ALF 154.18
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 18 1967

HELIOCENTRIC CONIC DISTANCE 244.279

```
RL  151.94 LAL   -.00 LOL 262.28 VL  25.808 GAL   -.73 AZL  93.29 HCA 103.89 SMA 122.79 ECC .23778 INC 3.2902 V1  29.322
RP  108.63 LAP  -3.19 LOP   6.19 VP  36.914 GAP -12.08 AZP  89.21 TAL 182.33 TAP 286.22 RCA  93.59 APO 151.98 V2  34.886
RC   49.776 GL  -22.40 GP   -1.69 ZAL  97.37 ZAP   9.28 ETS   9.80 ZAE 149.53 ETE  16.77 ZAC  88.83 ETC  13.64 CLP  -9.12
```

PLANETOCENTRIC CONIC

```
C3  15.103 VHL  3.886 DLA -14.48 RAL 156.82 RAD 6567.6 VEL 11.683 PTH   2.05 VHP  7.633 DPA   2.69 RAP 177.93 ECC 1.2486
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 16 35	1681.96	-4.09	10.06	13.10	118.04	6 44 37	1082.0	-.31	3.43
90.00	14 26 3	5260.89	26.87	237.56	18.25	80.70	15 53 44	4660.9	25.31	229.23
100.00	7 30 10	1444.53	-5.14	352.03	12.53	119.49	7 54 15	844.5	-1.17	345.49
100.00	15 55 9	4973.56	28.04	216.19	18.01	79.19	17 18 2	4373.6	26.26	207.84
110.00	8 21 4	1285.10	-7.84	338.28	10.87	123.38	8 42 29	685.1	-3.39	332.01
110.00	17 20 44	4705.75	31.12	195.04	17.21	75.09	18 39 10	4105.7	28.76	186.63

DIFFERENTIAL CORRECTIONS

```
TDE  .4718 TRA -.5470 TC3  .8557 BAU  .1765
RDE -.2473 RRA -.0856 RC3  .1794 FAU .04142
FDE -.7643 FRA  .2919 FC3-2.3742 BSP   3940
BDE  .5327 BRA  .5537 BC3  .8743 FSP   -515
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1272.8 SGR  411.6 SG3  190.7
RRT -.0998 RRF  .1052 RTF -.8476
SGB 1337.7 R23 -.0109 R13  .8478
SG1 1273.6 SG2  409.3 THA 177.94
```

ORBIT DETERMINATION ACCURACY

```
ST   739.4 SR   366.7 SS   749.2
CRT -.8990 CRS -.9731 CST  .9741
LSA 1102.1 MSA  165.6 SSA   19.8
EL1  812.3 EL2  146.2 ALF 155.11
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 20 1967

HELIOCENTRIC CONIC DISTANCE 250.992

```
RL  151.94 LAL   -.00 LOL 262.28 VL  25.953 GAL   -.89 AZL  93.27 HCA 107.07 SMA 123.64 ECC .22938 INC 3.2694 V1  29.322
RP  108.59 LAP  -3.13 LOP   9.38 VP  37.026 GAP -11.30 AZP  89.04 TAL 182.99 TAP 290.06 RCA  95.28 APO 152.00 V2  34.897
RC   51.201 GL  -23.15 GP   -1.84 ZAL  98.76 ZAP  11.46 ETS   8.41 ZAE 148.61 ETE  15.35 ZAC  87.91 ETC  13.63 CLP -11.32
```

PLANETOCENTRIC CONIC

```
C3  14.176 VHL  3.765 DLA -14.60 RAL 155.15 RAD 6567.6 VEL 11.643 PTH   2.04 VHP  7.194 DPA   2.15 RAP 178.78 ECC 1.2333
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 10 57	1663.81	-3.51	9.05	10.60	118.12	6 38 41	1063.8	.27	2.41
90.00	14 18 21	5250.87	26.75	236.84	15.56	80.36	15 45 52	4650.9	25.15	228.54
100.00	7 24 28	1426.64	-4.54	351.04	10.03	119.58	7 48 14	826.6	-.57	344.51
100.00	15 47 32	4963.27	27.91	215.45	15.33	78.83	17 10 15	4363.3	26.08	207.12
110.00	8 15 11	1267.76	-7.19	337.36	8.40	123.51	8 36 19	667.8	-2.73	331.11
110.00	17 13 17	4694.92	30.93	194.25	14.51	74.66	18 31 32	4094.9	28.52	185.89

DIFFERENTIAL CORRECTIONS

```
TDE  .4735 TRA -.5164 TC3  .9557 BAU  .1843
RDE -.2366 RRA -.0792 RC3  .1784 FAU .04512
FDE -.8309 FRA  .2691 FC3-2.7555 BSP   4032
BDE  .5294 BRA  .5225 BC3  .9722 FSP   -580
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1302.6 SGR  404.0 SG3  213.1
RRT -.1172 RRF  .1243 RTF -.8554
SGB 1363.8 R23 -.0137 R13  .8556
SG1 1303.5 SG2  400.9 THA 177.70
```

ORBIT DETERMINATION ACCURACY

```
ST   761.0 SR   362.0 SS   790.8
CRT -.9085 CRS -.9776 CST  .9744
LSA 1144.0 MSA  162.7 SSA   20.0
EL1  831.3 EL2  138.5 ALF 155.92
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 22 1967

HELIOCENTRIC CONIC DISTANCE 257.697

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.084 GAL  -1.04 AZL  93.25 HCA 110.25 SMA 124.44 ECC .22176 INC 3.2478 V1  29.322
RP  108.56 LAP  -3.05 LOP  12.56 VP  37.128 GAP -10.54 AZP  88.87 TAL 183.66 TAP 293.91 RCA  96.84 APO 152.03 V2  34.908
RC   52.722 GL  -23.82 GP   -2.00 ZAL 100.16 ZAP  13.76 ETS   7.45 ZAE 147.92 ETE  14.05 ZAC  87.09 ETC  13.62 CLP -13.61
```

PLANETOCENTRIC CONIC

```
C3  13.381 VHL  3.658 DLA -14.66 RAL 153.50 RAD 6567.5 VEL 11.609 PTH   2.03 VHP  6.775 DPA   1.64 RAP 179.52 ECC 1.2202
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 4 55	1649.08	-3.04	8.22	8.20	118.17	6 32 24	1049.1	.75	1.59
90.00	14 11 14	5240.35	26.63	236.10	12.99	80.00	15 38 34	4640.3	24.98	227.82
100.00	7 18 23	1412.05	-4.05	350.24	7.64	119.64	7 41 55	812.1	-.07	343.71
100.00	15 40 27	4952.61	27.76	214.69	12.75	78.45	17 3 0	4352.6	25.89	206.39
110.00	8 9 1	1253.45	-6.65	336.60	6.04	123.61	8 29 54	653.5	-2.19	330.36
110.00	17 6 19	4683.97	30.73	193.46	11.92	74.23	18 24 23	4084.0	28.26	185.14

DIFFERENTIAL CORRECTIONS

```
TDE  .4756 TRA -.4832 TC3 1.0593 BAU  .1920
RDE -.2270 RRA -.0734 RC3  .1739 FAU .04944
FDE -.9062 FRA  .2394 FC3-3.1985 BSP   4178
BDE  .5270 BRA  .4888 BC3 1.0735 FSP   -661
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1329.5 SGR  395.8 SG3  238.8
RRT -.1392 RRF  .1470 RTF -.8637
SGB 1387.2 R23 -.0155 R13  .8640
SG1 1330.8 SG2  391.6 THA 177.40
```

ORBIT DETERMINATION ACCURACY

```
ST   781.4 SR   357.3 SS   834.7
CRT -.9183 CRS -.9818 CST  .9750
LSA 1187.1 MSA  159.6 SSA   20.2
EL1  849.3 EL2  130.2 ALF 156.64
```

```
LAUNCH DATE  JUN 14 1967                          FLIGHT TIME 102.00                          ARRIVAL DATE  SEP 24 1967

  HELIOCENTRIC CONIC                              DISTANCE 264.392
   RL  151.94 LAL   -.00 LOL 262.28 VL  26.203 GAL  -1.18 AZL  93.23 HCA 113.44 SMA 125.17 ECC .21488 INC 3.2254 VI  29.322
   RP  108.52 LAP  -2.96 LOP  15.75 VP  37.223 GAP  -9.81 AZP  88.72 TAL 184.33 TAP 297.77 RCA  98.27 APO 152.06 V2  34.920
   RC  54.330 GL  -24.43 GP   -2.18 ZAL 101.53 ZAP  16.17 ETS   6.76 ZAE 147.49 ETE  12.86 ZAC  86.39 ETC  13.63 CLP -16.02
  PLANETOCENTRIC CONIC
   C3  12.700 VHL  3.564 DLA -14.67 RAL 151.90 RAD 6567.5 VEL 11.580 PTH   2.03 VHP  6.377 DPA   1.16 RAP 180.15 ECC 1.2090
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     5 58 35   1637.57      -2.67      7.58       5.92      118.20    6 25 52     1037.6       1.12        .95
      90.00    14  4 46   5229.33      26.50    235.32      10.55       79.63   15 31 56     4629.3      24.80     227.06
     100.00     7 12  2   1400.55      -3.66    349.61       5.37      119.69    7 35 23      800.6        .32     343.08
     100.00    15 34  0   4941.58      27.61    213.91      10.30       78.07   16 56 21     4341.6      25.69     205.63
     110.00     8  2 40   1241.99      -6.22    336.00       3.79      123.68    8 23 22      642.0      -1.75     329.76
     110.00    16 59 52   4672.91      30.52    192.67       9.47       73.80   18 17 45     4072.9      28.00     184.38
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
   TDE  .4749 TRA -.4520 TC3 1.1551 BAU  .1981     SGT 1350.9 SGR  387.2 SG3  268.0           ST   796.4 SR   352.6 SS   880.5
   RDE -.2183 RRA -.0682 RC3  .1655 FAU .05432     RRT -.1638 RRF  .1739 RTF -.8701           CRT -.9265 CRS -.9853 CST  .9752
   FDE -.9907 FRA  .2058 FC3-3.7029 BSP   4267     SGB 1405.3 R23 -.0193 R13  .8705           LSA 1228.2 MSA  157.6 SSA   20.2
   BDE  .5226 BRA  .4572 BC3 1.1669 FSP   -750     SG1 1352.6 SG2  381.5 THA 177.08           EL1  862.3 EL2  122.5 ALF 157.21

LAUNCH DATE  JUN 14 1967                          FLIGHT TIME 104.00                          ARRIVAL DATE  SEP 26 1967

  HELIOCENTRIC CONIC                              DISTANCE 271.073
   RL  151.94 LAL   -.00 LOL 262.28 VL  26.310 GAL  -1.31 AZL  93.20 HCA 116.63 SMA 125.83 ECC .20869 INC 3.2018 VI  29.322
   RP  108.48 LAP  -2.86 LOP  18.94 VP  37.310 GAP  -9.10 AZP  88.56 TAL 185.00 TAP 301.62 RCA  99.57 APO 152.09 V2  34.932
   RC  56.016 GL  -24.96 GP   -2.39 ZAL 102.86 ZAP  18.71 ETS   6.26 ZAE 147.32 ETE  11.75 ZAC  85.81 ETC  13.64 CLP -18.57
  PLANETOCENTRIC CONIC
   C3  12.117 VHL  3.481 DLA -14.63 RAL 150.36 RAD 6567.5 VEL 11.554 PTH   2.02 VHP  5.998 DPA    .70 RAP 180.65 ECC 1.1994
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     5 52  4   1629.03      -2.40      7.10       3.77      118.22    6 19 13     1029.0       1.40        .47
      90.00    13 59  0   5217.85      26.36    234.51       8.24       79.25   15 25 58     4617.9      24.61     226.28
     100.00     7  5 33   1391.92      -3.37    349.13       3.23      119.72    7 28 45      791.9        .61     342.61
     100.00    15 28 12   4930.20      27.45    213.10       7.99       77.67   16 50 22     4330.2      25.47     204.86
     110.00     7 56 14   1233.15      -5.88    335.53       1.67      123.73    8 16 47      633.2      -1.41     329.30
     110.00    16 54  0   4661.72      30.31    191.87       7.15       73.38   18 11 42     4061.7      27.73     183.62
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
   TDE  .4716 TRA -.4228 TC3 1.2401 BAU  .2024     SGT 1365.7 SGR  378.2 SG3  300.9           ST   806.1 SR   348.0 SS   927.2
   RDE -.2105 RRA -.0635 RC3  .1530 FAU .05985     RRT -.1923 RRF  .2052 RTF -.8750           CRT -.9335 CRS -.9883 CST  .9751
   FDE-1.0843 FRA  .1687 FC3-4.2760 BSP   4328     SGB 1417.1 R23 -.0241 R13  .8755           LSA 1267.1 MSA  156.5 SSA   20.0
   BDE  .5164 BRA  .4276 BC3 1.2495 FSP   -852     SG1 1367.8 SG2  370.6 THA 176.71           EL1  870.4 EL2  115.6 ALF 157.63

LAUNCH DATE  JUN 14 1967                          FLIGHT TIME 106.00                          ARRIVAL DATE  SEP 28 1967

  HELIOCENTRIC CONIC                              DISTANCE 277.741
   RL  151.94 LAL   -.00 LOL 262.28 VL  26.407 GAL  -1.43 AZL  93.18 HCA 119.82 SMA 126.44 ECC .20314 INC 3.1768 VI  29.322
   RP  108.45 LAP  -2.76 LOP  22.13 VP  37.390 GAP  -8.42 AZP  88.42 TAL 185.65 TAP 305.46 RCA 100.76 APO 152.13 V2  34.945
   RC  57.772 GL  -25.42 GP   -2.63 ZAL 104.14 ZAP  21.41 ETS   5.88 ZAE 147.42 ETE  10.70 ZAC  85.39 ETC  13.66 CLP -21.25
  PLANETOCENTRIC CONIC
   C3  11.615 VHL  3.408 DLA -14.54 RAL 148.90 RAD 6567.4 VEL 11.533 PTH   2.01 VHP  5.639 DPA    .28 RAP 181.01 ECC 1.1912
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     5 45 28   1623.20      -2.21      6.78       1.77      118.24    6 12 31     1023.2       1.58        .15
      90.00    13 53 58   5205.94      26.20    233.67       6.09       78.86   15 20 43     4605.9      24.40     225.46
     100.00     6 59  1   1385.89      -3.17    348.80       1.24      119.74    7 22  7      785.9        .81     342.28
     100.00    15 23  6   4918.48      27.28    212.27       5.84       77.27   16 45  4     4318.5      25.25     204.06
     110.00     7 49 50   1226.72      -5.64    335.19     359.70      123.77    8 10 17      626.7      -1.16     328.96
     110.00    16 48 46   4650.42      30.08    191.06       4.98       72.95   18  6 16     4050.4      27.46     182.86
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
   TDE  .4663 TRA -.3944 TC3 1.3143 BAU  .2052     SGT 1373.5 SGR  369.3 SG3  338.3           ST   810.8 SR   343.7 SS   976.3
   RDE -.2036 RRA -.0594 RC3  .1357 FAU .06613     RRT -.2264 RRF  .2430 RTF -.8789           CRT -.9398 CRS -.9908 CST  .9750
   FDE-1.1898 FRA  .1255 FC3-4.9287 BSP   4368     SGB 1422.2 R23 -.0302 R13  .8795           LSA 1305.4 MSA  155.9 SSA   19.8
   BDE  .5088 BRA  .3989 BC3 1.3213 FSP   -968     SG1 1376.2 SG2  359.0 THA 176.26           EL1  873.9 EL2  109.0 ALF 157.92

LAUNCH DATE  JUN 14 1967                          FLIGHT TIME 108.00                          ARRIVAL DATE  SEP 30 1967

  HELIOCENTRIC CONIC                              DISTANCE 284.393
   RL  151.94 LAL   -.00 LOL 262.28 VL  26.493 GAL  -1.54 AZL  93.15 HCA 123.01 SMA 127.00 ECC .19819 INC 3.1502 VI  29.322
   RP  108.41 LAP  -2.64 LOP  25.32 VP  37.463 GAP  -7.76 AZP  88.28 TAL 186.27 TAP 309.28 RCA 101.83 APO 152.17 V2  34.957
   RC  59.590 GL  -25.80 GP   -2.91 ZAL 105.35 ZAP  24.27 ETS   5.60 ZAE 147.82 ETE   9.66 ZAC  85.13 ETC  13.69 CLP -24.11
  PLANETOCENTRIC CONIC
   C3  11.184 VHL  3.344 DLA -14.41 RAL 147.54 RAD 6567.4 VEL 11.514 PTH   2.01 VHP  5.300 DPA   -.11 RAP 181.20 ECC 1.1841
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      90.00     5 38 54   1619.79      -2.10      6.59     359.92      118.25    6  5 54     1019.8       1.69     359.96
      90.00    13 49 40   5193.64      26.04    232.81       4.10       78.46   15 16 14     4593.6      24.18     224.63
     100.00     6 52 32   1382.20      -3.04    348.60     359.40      119.75    7 15 35      782.2        .94     342.07
     100.00    15 18 43   4906.47      27.09    211.43       3.84       76.86   16 40 29     4306.5      25.01     203.24
     110.00     7 43 33   1222.43      -5.48    334.96     357.88      123.79    8  3 55      622.4      -1.00     328.74
     110.00    16 44 12   4639.00      29.85    190.25       2.98       72.52   18  1 31     4039.0      27.17     182.09
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
   TDE  .4576 TRA -.3681 TC3 1.3697 BAU  .2055     SGT 1370.4 SGR  360.6 SG3  380.3           ST   808.4 SR   339.8 SS  1026.4
   RDE -.1976 RRA -.0558 RC3  .1134 FAU .07317     RRT -.2663 RRF  .2877 RTF -.8809           CRT -.9448 CRS -.9928 CST  .9745
   FDE-1.3064 FRA  .0772 FC3-5.6639 BSP   4368     SGB 1417.0 R23 -.0384 R13  .8818           LSA 1340.7 MSA  156.2 SSA   19.4
   BDE  .4984 BRA  .3723 BC3 1.3744 FSP  -1099     SG1 1374.0 SG2  346.7 THA 175.72           EL1  870.8 EL2  103.4 ALF 158.01
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 110.00 ARRIVAL DATE OCT 2 1967

DISTANCE 291.029

HELIOCENTRIC CONIC
RL 151.94 LAL -.00 LOL 262.28 VL 26.570 GAL -1.64 AZL 93.12 HCA 126.20 SMA 127.50 ECC .19380 INC 3.1215 V1 29.322
RP 108.37 LAP -2.52 LOP 28.52 VP 37.529 GAP -7.13 AZP 88.15 TAL 186.86 TAP 313.06 RCA 102.79 APO 152.20 V2 34.970
RC 61.464 GL -26.10 GP -3.22 ZAL 106.48 ZAP 27.32 ETS 5.39 ZAE 148.51 ETE 8.62 ZAC 85.06 ETC 13.72 CLP -27.15

PLANETOCENTRIC CONIC
C3 10.811 VHL 3.288 DLA -14.25 RAL 146.29 RAD 6567.4 VEL 11.498 PTH 2.00 VHP 4.980 DPA -.47 RAP 181.21 ECC 1.1779

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 32 28	1618.54	-2.06	6.52	358.23	118.25	5 59 26	1018.5	1.74	359.89
90.00	13 46 8	5180.96	25.86	231.92	2.27	78.05	15 12 29	4581.0	23.95	223.77
100.00	6 46 13	1380.57	-2.99	348.51	357.71	119.76	7 9 14	780.6	1.00	341.98
100.00	15 15 4	4894.16	26.90	210.56	2.01	76.44	16 36 38	4294.2	24.77	202.41
110.00	7 37 28	1220.04	-5.39	334.84	356.22	123.81	7 57 48	620.0	-.91	328.62
110.00	16 40 18	4627.45	29.61	189.44	1.14	72.09	17 57 26	4027.5	26.88	181.32

DIFFERENTIAL CORRECTIONS
TDE .4476 TRA -.3421 TC3 1.4152 BAU .2049
RDE -.1925 RRA -.0528 RC3 .0848 FAU .08134
FDE-1.4393 FRA .0205 FC3-6.5140 BSP 4375
BDE .4872 BRA .3461 BC3 1.4177 FSP -1254

MID-COURSE EXECUTION ACCURACY
SGT 1361.1 SGR 353.0 SG3 428.9
RRT -.3150 RRF .3417 RTF -.8829
SGB 1406.2 R23 -.0483 R13 .8841
SG1 1366.0 SG2 333.9 THA 175.03

ORBIT DETERMINATION ACCURACY
ST 802.0 SR 336.6 SS 1080.7
CRT -.9494 CRS -.9945 CST .9741
LSA 1378.3 MSA 156.3 SSA 18.9
EL1 864.2 EL2 98.1 ALF 157.97

LAUNCH DATE JUN 14 1967 FLIGHT TIME 112.00 ARRIVAL DATE OCT 4 1967

DISTANCE 297.646

HELIOCENTRIC CONIC
RL 151.94 LAL -.00 LOL 262.28 VL 26.638 GAL -1.73 AZL 93.09 HCA 129.40 SMA 127.94 ECC .18992 INC 3.0904 V1 29.322
RP 108.33 LAP -2.39 LOP 31.71 VP 37.589 GAP -6.51 AZP 88.04 TAL 187.41 TAP 316.81 RCA 103.64 APO 152.24 V2 34.983
RC 63.388 GL -26.31 GP -3.59 ZAL 107.52 ZAP 30.58 ETS 5.23 ZAE 149.51 ETE 7.53 ZAC 85.20 ETC 13.75 CLP -30.39

PLANETOCENTRIC CONIC
C3 10.486 VHL 3.238 DLA -14.06 RAL 145.16 RAD 6567.4 VEL 11.484 PTH 2.00 VHP 4.681 DPA -.78 RAP 181.02 ECC 1.1726

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 26 14	1619.14	-2.08	6.55	356.71	118.25	5 53 13	1019.1	1.72	359.92
90.00	13 43 22	5167.94	25.67	231.01	.62	77.63	15 9 30	4567.9	23.71	222.89
100.00	6 40 8	1380.74	-2.99	348.52	356.20	119.76	7 3 8	780.7	.99	341.99
100.00	15 12 10	4881.58	26.69	209.68	.35	76.02	16 33 32	4281.6	24.51	201.56
110.00	7 31 40	1219.31	-5.36	334.80	354.73	123.81	7 51 59	619.3	-.88	328.58
110.00	16 37 7	4615.77	29.37	188.62	359.48	71.66	17 54 3	4015.8	26.58	180.54

DIFFERENTIAL CORRECTIONS
TDE .4315 TRA -.3203 TC3 1.4283 BAU .2003
RDE -.1882 RRA -.0503 RC3 .0500 FAU .09034
FDE-1.5824 FRA -.0404 FC3-7.4586 BSP 4302
BDE .4707 BRA .3242 BC3 1.4292 FSP -1425

MID-COURSE EXECUTION ACCURACY
SGT 1334.0 SGR 346.9 SG3 482.4
RRT -.3688 RRF .4041 RTF -.8810
SGB 1378.4 R23 -.0637 R13 .8828
SG1 1340.5 SG2 320.9 THA 174.19

ORBIT DETERMINATION ACCURACY
ST 783.8 SR 334.2 SS 1134.0
CRT -.9522 CRS -.9957 CST .9728
LSA 1409.5 MSA 157.6 SSA 18.3
EL1 846.8 EL2 94.5 ALF 157.61

LAUNCH DATE JUN 14 1967 FLIGHT TIME 114.00 ARRIVAL DATE OCT 6 1967

DISTANCE 304.245

HELIOCENTRIC CONIC
RL 151.94 LAL -.00 LOL 262.28 VL 26.698 GAL -1.80 AZL 93.06 HCA 132.59 SMA 128.34 ECC .18652 INC 3.0563 V1 29.322
RP 108.29 LAP -2.25 LOP 34.91 VP 37.644 GAP -5.92 AZP 87.93 TAL 187.91 TAP 320.51 RCA 104.40 APO 152.27 V2 34.996
RC 65.357 GL -26.46 GP -4.02 ZAL 108.47 ZAP 34.07 ETS 5.11 ZAE 150.84 ETE 6.34 ZAC 85.57 ETC 13.77 CLP -33.86

PLANETOCENTRIC CONIC
C3 10.200 VHL 3.194 DLA -13.83 RAL 144.17 RAD 6567.4 VEL 11.471 PTH 1.99 VHP 4.402 DPA -1.06 RAP 180.59 ECC 1.1679

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 20 17	1621.40	-2.15	6.68	355.35	118.24	5 47 19	1021.4	1.64	.05
90.00	13 41 24	5154.55	25.48	230.08	359.14	77.20	15 7 18	4554.5	23.46	221.99
100.00	6 34 20	1382.50	-3.05	348.61	354.85	119.75	6 57 22	782.5	.93	342.09
100.00	15 10 2	4868.68	26.48	208.78	358.87	75.60	16 31 11	4268.7	24.24	200.70
110.00	7 26 12	1220.04	-5.39	334.84	353.40	123.81	7 46 32	620.0	-.91	328.62
110.00	16 34 39	4603.90	29.11	187.79	357.98	71.23	17 51 23	4003.9	26.27	179.76

DIFFERENTIAL CORRECTIONS
TDE .4112 TRA -.3018 TC3 1.4135 BAU .1927
RDE -.1850 RRA -.0483 RC3 .0075 FAU .10037
FDE-1.7399 FRA -.1046 FC3-8.5195 BSP 4164
BDE .4509 BRA .3057 BC3 1.4135 FSP -1613

MID-COURSE EXECUTION ACCURACY
SGT 1292.4 SGR 343.6 SG3 542.3
RRT -.4294 RRF .4761 RTF -.8763
SGB 1337.3 R23 -.0854 R13 .8791
SG1 1301.3 SG2 308.2 THA 173.10

ORBIT DETERMINATION ACCURACY
ST 757.0 SR 332.9 SS 1189.1
CRT -.9537 CRS -.9967 CST .9709
LSA 1439.4 MSA 159.3 SSA 17.6
EL1 821.8 EL2 92.2 ALF 156.94

LAUNCH DATE JUN 14 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 8 1967

DISTANCE 310.824

HELIOCENTRIC CONIC
RL 151.94 LAL -.00 LOL 262.28 VL 26.751 GAL -1.87 AZL 93.02 HCA 135.80 SMA 128.69 ECC .18355 INC 3.0184 V1 29.322
RP 108.25 LAP -2.10 LOP 38.11 VP 37.694 GAP -5.35 AZP 87.84 TAL 188.36 TAP 324.15 RCA 105.07 APO 152.31 V2 35.009
RC 67.365 GL -26.52 GP -4.52 ZAL 109.31 ZAP 37.81 ETS 5.02 ZAE 152.50 ETE 4.96 ZAC 86.20 ETC 13.79 CLP -37.58

PLANETOCENTRIC CONIC
C3 9.945 VHL 3.154 DLA -13.58 RAL 143.31 RAD 6567.4 VEL 11.460 PTH 1.99 VHP 4.144 DPA -1.30 RAP 179.92 ECC 1.1637

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 14 39	1625.16	-2.27	6.89	354.16	118.23	5 41 44	1025.2	1.52	.26
90.00	13 40 13	5140.68	25.26	229.12	357.82	76.77	15 5 54	4540.7	23.19	221.06
100.00	6 28 51	1385.71	-3.16	348.79	353.67	119.74	6 51 57	785.7	.82	342.27
100.00	15 8 41	4855.36	26.25	207.86	357.55	75.16	16 29 36	4255.4	23.96	199.81
110.00	7 21 6	1222.10	-5.46	334.95	352.24	123.80	7 41 28	622.1	-.99	328.72
110.00	16 32 56	4591.73	28.84	186.95	356.65	70.80	17 49 28	3991.7	25.95	178.96

DIFFERENTIAL CORRECTIONS
TDE .3877 TRA -.2848 TC3 1.3739 BAU .1828
RDE -.1829 RRA -.0470 RC3 -.0446 FAU .11169
FDE-1.9141 FRA -.1788 FC3-9.7235 BSP 4019
BDE .4287 BRA .2886 BC3 1.3746 FSP -1835

MID-COURSE EXECUTION ACCURACY
SGT 1237.1 SGR 344.9 SG3 609.8
RRT -.4963 RRF .5577 RTF -.8688
SGB 1284.3 R23 -.1154 R13 .8734
SG1 1249.6 SG2 296.5 THA 171.65

ORBIT DETERMINATION ACCURACY
ST 722.8 SR 333.4 SS 1247.5
CRT -.9542 CRS -.9975 CST .9684
LSA 1471.0 MSA 160.9 SSA 16.8
EL1 790.8 EL2 91.2 ALF 155.90

LAUNCH DATE JUN 14 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 10 1967

HELIOCENTRIC CONIC DISTANCE 317.384

RL 151.94 LAL -.00 LOL 262.28 VL 26.796 GAL -1.92 AZL 92.98 HCA 139.00 SMA 128.99 ECC .18097 INC 2.9759 V1 29.322
RP 108.20 LAP -1.95 LOP 41.31 VP 37.738 GAP -4.79 AZP 87.75 TAL 188.74 TAP 327.74 RCA 105.65 APO 152.33 V2 35.023
RC 69.409 GL -26.49 GP -5.11 ZAL 110.05 ZAP 41.82 ETS 4.95 ZAE 154.51 ETE 3.29 ZAC 87.10 ETC 13.79 CLP -41.56

PLANETOCENTRIC CONIC

C3 9.713 VHL 3.117 DLA -13.29 RAL 142.60 RAD 6567.4 VEL 11.450 PTH 1.99 VHP 3.909 DPA -1.52 RAP 178.96 ECC 1.1599

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 9 20	1630.32	-2.44	7.17	353.14	118.22	5 36 30	1030.3	1.36	.55
90.00	13 39 52	5126.19	25.03	228.12	356.68	76.32	15 5 19	4526.2	22.90	220.10
100.00	6 23 44	1390.26	-3.31	349.04	352.65	119.73	6 46 55	790.3	.67	342.51
100.00	15 8 9	4841.48	26.01	206.90	356.40	74.72	16 28 51	4241.5	23.65	198.89
110.00	7 16 23	1225.37	-5.59	335.12	351.24	123.78	7 36 48	625.4	-1.11	328.89
110.00	16 32 0	4579.13	28.56	186.08	355.50	70.36	17 48 19	3979.1	25.61	178.14

DIFFERENTIAL CORRECTIONS
TDE .3568 TRA -.2734 TC3 1.2888 BAU .1679
RDE -.1821 RRA -.0461 RC3 -.1070 FAU .12380
FDE-2.0939 FRA -.2502 FC-11.0337 BSP 3762
BDE .4005 BRA .2773 BC3 1.2932 FSP -2070

MID-COURSE EXECUTION ACCURACY
SGT 1158.6 SGR 352.2 SG3 682.2
RRT -.5591 RRF .6430 RTF -.8533
SGB 1210.9 R23 -.1622 R13 .8613
SG1 1176.3 SG2 287.6 THA 169.73

ORBIT DETERMINATION ACCURACY
ST 674.4 SR 335.7 SS 1302.6
CRT -.9520 CRS -.9980 CST .9640
LSA 1495.8 MSA 163.1 SSA 16.0
EL1 747.6 EL2 92.7 ALF 154.22

LAUNCH DATE JUN 14 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 12 1967

HELIOCENTRIC CONIC DISTANCE 323.923

RL 151.94 LAL -.00 LOL 262.28 VL 26.835 GAL -1.96 AZL 92.93 HCA 142.20 SMA 129.25 ECC .17877 INC 2.9275 V1 29.322
RP 108.16 LAP -1.79 LOP 44.52 VP 37.778 GAP -4.25 AZP 87.69 TAL 189.06 TAP 331.27 RCA 106.14 APO 152.36 V2 35.036
RC 71.485 GL -26.39 GP -5.80 ZAL 110.68 ZAP 46.11 ETS 4.88 ZAE 156.85 ETE 1.10 ZAC 88.29 ETC 13.76 CLP -45.83

PLANETOCENTRIC CONIC

C3 9.499 VHL 3.082 DLA -12.97 RAL 142.05 RAD 6567.3 VEL 11.441 PTH 1.98 VHP 3.695 DPA -1.72 RAP 177.72 ECC 1.1563

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 4 20	1636.91	-2.65	7.54	352.28	118.20	5 31 37	1036.9	1.14	.91
90.00	13 40 25	5110.82	24.78	227.07	355.69	75.84	15 5 36	4510.8	22.59	219.08
100.00	6 18 57	1396.18	-3.51	349.37	351.80	119.70	6 42 13	796.2	.47	342.84
100.00	15 8 29	4826.78	25.74	205.89	355.41	74.25	16 28 56	4226.8	23.33	197.92
110.00	7 12 3	1229.89	-5.76	335.36	350.41	123.75	7 32 33	629.9	-1.28	329.13
110.00	16 31 53	4565.84	28.25	185.17	354.50	69.90	17 47 59	3965.8	25.25	177.28

DIFFERENTIAL CORRECTIONS
TDE .3200 TRA -.2665 TC3 1.1606 BAU .1492
RDE -.1827 RRA -.0456 RC3 -.1823 FAU .13668
FDE-2.2788 FRA -.3189 FC-12.4570 BSP 3432
BDE .3685 BRA .2704 BC3 1.1749 FSP -2320

MID-COURSE EXECUTION ACCURACY
SGT 1060.3 SGR 368.1 SG3 759.5
RRT -.6103 RRF .7276 RTF -.8266
SGB 1122.4 R23 -.2317 R13 .8419
SG1 1085.6 SG2 284.8 THA 167.14

ORBIT DETERMINATION ACCURACY
ST 614.5 SR 340.6 SS 1355.8
CRT -.9465 CRS -.9985 CST .9570
LSA 1518.0 MSA 165.5 SSA 15.1
EL1 695.8 EL2 97.0 ALF 151.72

LAUNCH DATE JUN 14 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 14 1967

HELIOCENTRIC CONIC DISTANCE 330.442

RL 151.94 LAL -.00 LOL 262.28 VL 26.867 GAL -1.99 AZL 92.87 HCA 145.41 SMA 129.47 ECC .17690 INC 2.8715 V1 29.322
RP 108.12 LAP -1.63 LOP 47.72 VP 37.813 GAP -3.73 AZP 87.64 TAL 189.31 TAP 334.73 RCA 106.57 APO 152.37 V2 35.049
RC 73.590 GL -26.18 GP -6.61 ZAL 111.20 ZAP 50.70 ETS 4.80 ZAE 159.51 ETE 358.07 ZAC 89.79 ETC 13.70 CLP -50.38

PLANETOCENTRIC CONIC

C3 9.295 VHL 3.049 DLA -12.61 RAL 141.64 RAD 6567.3 VEL 11.432 PTH 1.98 VHP 3.506 DPA -1.91 RAP 176.17 ECC 1.1530

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 59 37	1645.13	-2.91	8.00	351.59	118.18	5 27 2	1045.1	.88	1.37
90.00	13 41 57	5094.14	24.50	225.93	354.87	75.34	15 6 51	4494.1	22.25	217.98
100.00	6 14 28	1403.64	-3.77	349.78	351.12	119.68	6 37 51	803.6	.21	343.25
100.00	15 9 47	4810.85	25.44	204.80	354.58	73.75	16 29 58	4210.9	22.97	196.88
110.00	7 8 4	1235.77	-5.98	335.67	349.75	123.72	7 28 40	635.8	-1.51	329.44
110.00	16 32 40	4551.49	27.91	184.19	353.66	69.41	17 48 32	3951.5	24.85	176.35

DIFFERENTIAL CORRECTIONS
TDE .2782 TRA -.2621 TC3 .9929 BAU .1280
RDE -.1851 RRA -.0458 RC3 -.2749 FAU .15049
FDE-2.4669 FRA -.3894 FC-14.0164 BSP 3075
BDE .3341 BRA .2661 BC3 1.0302 FSP -2598

MID-COURSE EXECUTION ACCURACY
SGT 945.8 SGR 396.1 SG3 842.6
RRT -.6376 RRF .8055 RTF -.7827
SGB 1025.4 R23 -.3274 R13 .8147
SG1 982.4 SG2 293.8 THA 163.54

ORBIT DETERMINATION ACCURACY
ST 544.6 SR 348.9 SS 1408.1
CRT -.9365 CRS -.9988 CST .9458
LSA 1540.4 MSA 167.5 SSA 14.2
EL1 638.3 EL2 104.4 ALF 148.08

LAUNCH DATE JUN 14 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 16 1967

HELIOCENTRIC CONIC DISTANCE 336.940

RL 151.94 LAL -.00 LOL 262.28 VL 26.894 GAL -2.00 AZL 92.81 HCA 148.62 SMA 129.65 ECC .17533 INC 2.8056 V1 29.322
RP 108.08 LAP -1.46 LOP 50.93 VP 37.844 GAP -3.22 AZP 87.60 TAL 189.50 TAP 338.12 RCA 106.92 APO 152.38 V2 35.062
RC 75.721 GL -25.86 GP -7.58 ZAL 111.62 ZAP 55.57 ETS 4.68 ZAE 162.44 ETE 353.52 ZAC 91.60 ETC 13.59 CLP -55.22

PLANETOCENTRIC CONIC

C3 9.096 VHL 3.016 DLA -12.19 RAL 141.41 RAD 6567.3 VEL 11.423 PTH 1.98 VHP 3.342 DPA -2.14 RAP 174.30 ECC 1.1497

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 55 4	1655.31	-3.24	8.57	351.06	118.15	5 22 39	1055.3	.55	1.94
90.00	13 44 37	5075.54	24.17	224.66	354.19	74.79	15 9 12	4475.5	21.85	216.76
100.00	6 10 11	1412.96	-4.08	350.29	350.60	119.64	6 33 44	813.0	-.10	343.76
100.00	15 12 11	4793.11	25.10	203.60	353.90	73.20	16 32 4	4193.1	22.56	195.72
110.00	7 4 22	1243.28	-6.26	336.06	349.25	123.67	7 25 5	643.3	-1.80	329.83
110.00	16 34 30	4535.57	27.52	183.11	352.97	68.88	17 50 5	3935.6	24.40	175.33

DIFFERENTIAL CORRECTIONS
TDE .2284 TRA -.2635 TC3 .7645 BAU .1042
RDE -.1892 RRA -.0460 RC3 -.3863 FAU .16400
FDE-2.6332 FRA -.4406 FC-15.6093 BSP 2632
BDE .2966 BRA .2675 BC3 .8566 FSP -2866

MID-COURSE EXECUTION ACCURACY
SGT 814.4 SGR 437.6 SG3 924.1
RRT -.6107 RRF .8693 RTF -.6972
SGB 924.6 R23 -.4524 R13 .7714
SG1 865.1 SG2 326.2 THA 158.65

ORBIT DETERMINATION ACCURACY
ST 460.6 SR 360.5 SS 1448.6
CRT -.9152 CRS -.9990 CST .9241
LSA 1552.9 MSA 169.9 SSA 13.3
EL1 573.1 EL2 116.8 ALF 142.56

LAUNCH DATE JUN 14 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 18 1967

HELIOCENTRIC CONIC DISTANCE 343.417

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.916 GAL  -2.01 AZL  92.73 HCA 151.84 SMA 129.80 ECC .17405 INC 2.7262 V1  29.322
RP  108.04 LAP  -1.29 LOP  54.14 VP  37.872 GAP  -2.72 AZP  87.60 TAL 189.60 TAP 341.44 RCA 107.21 APO 152.39 V2  35.075
RC  77.874 GL  -25.41 GP   -8.74 ZAL 111.94 ZAP  60.71 ETS   4.51 ZAE 165.49 ETE 346.20 ZAC  93.70 ETC  13.40 CLP -60.33
```

PLANETOCENTRIC CONIC

```
C3   8.894 VHL  2.982 DLA -11.68 RAL 141.35 RAO 6567.3 VEL 11.414 PTH   1.98 VHP  3.204 DPA  -2.44 RAP 172.11 ECC 1.1464
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 50 32	1668.16	-3.65	9.29	350.70	118.10	5 18 20	1068.2	.13	2.66
90.00	13 48 39	5054.04	23.78	223.21	353.66	74.16	15 12 53	4454.0	21.38	215.36
100.00	6 5 57	1424.81	-4.48	350.94	350.24	119.59	6 29 42	824.8	-.51	344.41
100.00	15 15 55	4772.62	24.68	202.21	353.37	72.58	16 35 27	4172.6	22.07	194.39
110.00	7 0 49	1252.99	-6.63	336.58	348.91	123.61	7 21 42	653.0	-2.17	330.33
110.00	16 37 32	4517.21	27.07	181.88	352.43	68.28	17 52 49	3917.2	23.87	174.17

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .1751 TRA -.2667 TC3  .4890 BAU  .0853   SGT  687.0 SGR  498.1 SG3 1006.7      ST   371.4 SR   377.4 SS  1485.6
RDE -.1959 RRA -.0468 RC3 -.5251 FAU .17752   RRT -.4964 RRF  .9181 RTF -.5380      CRT -.8730 CRS -.9993 CST  .8820
FDE-2.7847 FRA -.4866 FC-17.2805 BSP  2241    SGB  848.6 R23 -.5744 R13  .7225      LSA 1567.7 MSA  171.6 SSA   12.3
BDE  .2627 BRA  .2707 BC3  .7175 FSP  -3146   SG1  750.7 SG2  395.8 THA 151.69      EL1  512.4 EL2  133.4 ALF 134.47
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 20 1967

HELIOCENTRIC CONIC DISTANCE 349.873

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.932 GAL  -2.00 AZL  92.63 HCA 155.05 SMA 129.91 ECC .17302 INC 2.6281 V1  29.322
RP  108.00 LAP  -1.11 LOP  57.35 VP  37.896 GAP  -2.24 AZP  87.62 TAL 189.64 TAP 344.69 RCA 107.44 APO 152.39 V2  35.088
RC  80.046 GL  -24.76 GP  -10.15 ZAL 112.16 ZAP  66.08 ETS   4.24 ZAE 168.35 ETE 333.54 ZAC  96.07 ETC  13.10 CLP -65.68
```

PLANETOCENTRIC CONIC

```
C3   8.682 VHL  2.946 DLA -11.04 RAL 141.47 RAO 6567.3 VEL 11.405 PTH   1.97 VHP  3.094 DPA  -2.89 RAP 169.61 ECC 1.1429
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 45 44	1684.81	-4.19	10.22	350.50	118.03	5 13 49	1084.8	-.40	3.59
90.00	13 54 27	5028.17	23.29	221.47	353.27	73.42	15 18 15	4428.2	20.80	213.69
100.00	6 1 33	1440.24	-5.00	351.80	350.06	119.51	6 25 33	840.2	-1.03	345.26
100.00	15 21 19	4747.97	24.17	200.56	352.97	71.86	16 40 27	4148.0	21.47	192.81
110.00	6 57 15	1265.82	-7.11	337.26	348.75	123.52	7 18 21	665.8	-2.66	331.01
110.00	16 42 7	4495.16	26.50	180.41	352.02	67.57	17 57 2	3895.2	23.23	172.78

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .1153 TRA -.2742 TC3  .1457 BAU  .0824   SGT  593.9 SGR  577.7 SG3 1077.9      ST   277.2 SR   398.1 SS  1498.6
RDE -.2041 RRA -.0470 RC3 -.6945 FAU .18908   RRT -.2144 RRF  .9514 RTF -.2261      CRT -.7656 CRS -.9994 CST  .7762
FDE-2.8738 FRA -.4943 FC-18.8554 BSP  1972    SGB  828.5 R23 -.6249 R13  .7178      LSA 1565.6 MSA  173.5 SSA   11.4
BDE  .2345 BRA  .2782 BC3  .7096 FSP  -3379   SG1  646.1 SG2  518.7 THA 138.68      EL1  459.9 EL2  154.4 ALF 122.11
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 22 1967

HELIOCENTRIC CONIC DISTANCE 356.308

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.945 GAL  -1.98 AZL  92.50 HCA 158.27 SMA 130.00 ECC .17222 INC 2.5031 V1  29.322
RP  107.96 LAP   -.93 LOP  60.56 VP  37.916 GAP  -1.77 AZP  87.67 TAL 189.60 TAP 347.87 RCA 107.61 APO 152.39 V2  35.101
RC  82.236 GL  -23.87 GP  -11.90 ZAL 112.30 ZAP  71.63 ETS   3.84 ZAE 170.24 ETE 311.99 ZAC  98.69 ETC  12.64 CLP -71.21
```

PLANETOCENTRIC CONIC

```
C3   8.450 VHL  2.907 DLA -10.20 RAL 141.81 RAO 6567.3 VEL 11.395 PTH   1.97 VHP  3.015 DPA  -3.59 RAP 166.83 ECC 1.1391
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 40 16	1707.28	-4.90	11.49	350.49	117.92	5 8 43	1107.3	-1.13	4.84
90.00	14 2 38	4995.45	22.64	219.29	353.01	72.52	15 25 53	4395.5	20.03	211.59
100.00	5 56 33	1461.17	-5.70	352.95	350.05	119.39	6 20 54	861.2	-1.74	346.40
100.00	15 29 2	4716.80	23.50	198.49	352.70	70.97	16 47 38	4116.8	20.68	190.83
110.00	6 53 19	1283.42	-7.77	338.19	348.77	123.39	7 14 42	683.4	-3.33	331.93
110.00	16 48 45	4467.31	25.76	178.58	351.73	66.72	18 3 13	3867.3	22.39	171.05

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .0537 TRA -.2826 TC3 -.2577 BAU  .1067   SGT  594.9 SGR  682.9 SG3 1136.7      ST   200.1 SR   423.8 SS  1489.0
RDE -.2144 RRA -.0466 RC3 -.9087 FAU .19844   RRT  .2146 RRF  .9729 RTF  .2175      CRT -.4705 CRS -.9996 CST  .4837
FDE-2.8913 FRA -.4714 FC-20.3317 BSP  2101    SGB  905.7 R23  .3693 R13  .9001      LSA 1551.2 MSA  175.0 SSA   10.4
BDE  .2210 BRA  .2864 BC3  .9445 FSP  -3579   SG1  716.9 SG2  553.5 THA  61.40      EL1  436.1 EL2  171.6 ALF 104.88
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 24 1967

HELIOCENTRIC CONIC DISTANCE 362.723

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.952 GAL  -1.95 AZL  92.34 HCA 161.49 SMA 130.05 ECC .17164 INC 2.3368 V1  29.322
RP  107.92 LAP   -.74 LOP  63.78 VP  37.933 GAP  -1.32 AZP  87.78 TAL 189.49 TAP 350.98 RCA 107.73 APO 152.37 V2  35.113
RC  84.440 GL  -22.57 GP  -14.15 ZAL 112.37 ZAP  77.28 ETS   3.23 ZAE 169.90 ETE 284.04 ZAC 101.49 ETC  11.94 CLP -76.88
```

PLANETOCENTRIC CONIC

```
C3   8.186 VHL  2.861 DLA  -9.04 RAL 142.41 RAO 6567.3 VEL 11.383 PTH   1.97 VHP  2.969 DPA  -4.73 RAP 163.75 ECC 1.1347
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 33 21	1739.16	-5.92	13.28	350.68	117.74	5 2 20	1139.2	-2.16	6.62
90.00	14 14 19	4951.69	21.71	216.42	352.88	71.36	15 36 51	4351.7	18.97	208.82
100.00	5 50 16	1490.98	-6.69	354.61	350.26	119.20	6 15 7	891.0	-2.75	348.04
100.00	15 40 4	4675.10	22.54	195.76	352.56	69.83	16 57 59	4075.1	19.59	188.21
110.00	6 48 28	1308.78	-8.72	339.54	349.02	123.18	7 10 17	708.8	-4.29	333.25
110.00	16 58 22	4430.07	24.74	176.17	351.58	65.62	18 12 12	3830.1	21.24	168.77

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE -.0058 TRA -.2895 TC3 -.7223 BAU  .1522   SGT  718.0 SGR  821.7 SG3 1177.0      ST   176.9 SR   453.7 SS  1445.0
RDE -.2259 RRA -.0447 RC3-1.1881 FAU .20462   RRT  .5754 RRF  .9859 RTF  .5800      CRT  .1286 CRS -.9997 CST -.1146
FDE-2.8042 FRA -.4106 FC-21.6402 BSP  2705    SGB 1091.2 R23  .3556 R13  .9196      LSA 1514.6 MSA  175.8 SSA    9.5
BDE  .2260 BRA  .2929 BC3 1.3905 FSP  -3723   SG1  971.6 SG2  496.6 THA  51.61      EL1  454.4 EL2  175.2 ALF  86.63
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 26 1967

HELIOCENTRIC CONIC DISTANCE 369.117

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.956 GAL  -1.91 AZL  92.10 HCA 164.71 SMA 130.08 ECC .17126 INC 2.1028 VI  29.322
RP  107.89 LAP   -.55 LOP  67.00 VP  37.947 GAP   -.87 AZP  87.97 TAL 189.31 TAP 354.02 RCA 107.80 APO 152.36 V2  35.125
RC  86.655 GL  -20.63 GP  -17.15 ZAL 112.40 ZAP  82.92 ETS   2.32 ZAE 166.82 ETE 262.41 ZAC 104.44 ETC  10.85 CLP -82.59
```

PLANETOCENTRIC CONIC

```
C3   7.872 VHL  2.806 DLA  -7.32 RAL 143.35 RAD 6567.3 VEL 11.369 PTH   1.96 VHP  2.963 DPA  -6.57 RAP 160.35 ECC 1.1296
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 23 35	1787.37	-7.44	16.01	351.16	117.40	4 53 22	1187.4	-3.71	9.31
90.00	14 31 36	4889.01	20.29	212.37	352.90	69.82	15 53 5	4289.0	17.36	204.92
100.00	5 41 25	1536.27	-8.19	357.14	350.75	118.85	6 7 1	936.3	-4.28	350.54
100.00	15 56 27	4615.34	21.09	191.92	352.58	68.31	17 13 23	4015.3	17.96	184.52
110.00	6 41 38	1347.69	-10.16	341.63	349.56	122.81	7 4 6	747.7	-5.77	335.30
110.00	17 12 43	4376.68	23.20	172.80	351.57	64.16	18 25 40	3776.7	19.53	165.58

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE -.0571 TRA -.2922 TC3-1.2586 BAU  .2111   SGT  935.1 SGR 1003.2 SG3 1184.9      ST   216.0 SR   482.6 SS  1341.5
RDE -.2357 RRA -.0382 RC3-1.5623 FAU .20526   RRT  .7703 RRF  .9932 RTF  .7725     CRT  .5850 CRS -.9997 CST -.5735
FDE-2.5576 FRA -.2832 FC-22.5738 BSP   3663   SGB 1371.4 R23  .2983 R13  .9474     LSA 1431.1 MSA  176.2 SSA    8.7
BDE  .2425 BRA  .2947 BC3 2.0062 FSP  -3751   SG1 1290.7 SG2  463.4 THA  47.61     EL1  501.1 EL2  168.7 ALF  73.39
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 28 1967

HELIOCENTRIC CONIC DISTANCE 375.490

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.957 GAL  -1.86 AZL  91.75 HCA 167.93 SMA 130.08 ECC .17106 INC 1.7478 VI  29.322
RP  107.85 LAP   -.37 LOP  70.21 VP  37.958 GAP   -.44 AZP  88.29 TAL 189.06 TAP 356.99 RCA 107.83 APO 152.33 V2  35.137
RC  88.880 GL  -17.48 GP  -21.46 ZAL 112.44 ZAP  88.41 ETS    .90 ZAE 161.44 ETE 251.17 ZAC 107.47 ETC   9.08 CLP -88.29
```

PLANETOCENTRIC CONIC

```
C3   7.484 VHL  2.736 DLA  -4.50 RAL 144.83 RAD 6567.2 VEL 11.352 PTH   1.96 VHP  3.015 DPA  -9.66 RAP 156.52 ECC 1.1232
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 7 58	1867.13	-9.91	20.57	352.14	116.66	4 39 5	1267.1	-6.25	13.80
90.00	14 59 0	4790.84	17.87	206.19	353.18	67.66	16 18 51	4190.8	14.68	198.96
100.00	5 27 12	1611.56	-10.63	1.39	351.76	118.10	5 54 3	1011.6	-6.79	354.71
100.00	16 22 27	4521.66	18.62	186.06	352.84	66.18	17 37 49	3921.7	15.24	178.89
110.00	6 30 36	1413.07	-12.55	345.19	350.62	122.06	6 54 9	813.1	-8.23	338.76
110.00	17 35 32	4292.91	20.62	167.66	351.81	62.11	18 47 5	3692.9	16.73	160.70

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE -.0876 TRA -.2848 TC3-1.8794 BAU  .2826   SGT 1203.8 SGR 1257.5 SG3 1154.2      ST   258.6 SR   499.7 SS  1152.0
RDE -.2379 RRA -.0242 RC3-2.1081 FAU .19922   RRT  .8640 RRF  .9971 RTF  .8644     CRT  .7372 CRS -.9997 CST -.7273
FDE-2.1037 FRA -.1003 FC-23.0453 BSP   4932   SGB 1740.8 R23  .2422 R13  .9673     LSA 1270.0 MSA  175.2 SSA    8.1
BDE  .2536 BRA  .2859 BC3 2.8243 FSP  -3670   SG1 1680.8 SG2  453.4 THA  46.45     EL1  538.8 EL2  162.0 ALF  66.91
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 30 1967

HELIOCENTRIC CONIC DISTANCE 381.842

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.954 GAL  -1.79 AZL  91.14 HCA 171.16 SMA 130.06 ECC .17104 INC 1.1386 VI  29.322
RP  107.82 LAP   -.17 LOP  73.44 VP  37.967 GAP   -.02 AZP  88.87 TAL 188.73 TAP 359.89 RCA 107.82 APO 152.31 V2  35.149
RC  91.113 GL  -11.67 GP  -28.22 ZAL 112.51 ZAP  93.44 ETS 358.60 ZAE 153.53 ETE 247.11 ZAC 110.47 ETC   6.03 CLP -93.90
```

PLANETOCENTRIC CONIC

```
C3   7.007 VHL  2.647 DLA    .78 RAL 147.34 RAD 6567.2 VEL 11.331 PTH   1.95 VHP  3.173 DPA -15.10 RAP 151.84 ECC 1.1153
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 38 44	2019.25	-14.40	29.48	354.36	114.65	4 12 23	1419.2	-10.96	22.49
90.00	15 48 15	4615.23	13.02	195.58	354.19	64.63	17 5 11	4015.2	9.49	188.67
100.00	5 0 26	1755.71	-15.11	9.75	354.01	116.10	5 29 42	1155.7	-11.48	2.84
100.00	17 9 14	4354.00	13.72	176.02	353.83	63.18	18 21 48	3754.0	10.02	169.19
110.00	6 9 31	1539.51	-17.00	352.29	352.96	120.11	6 35 10	939.5	-12.87	345.61
110.00	18 16 39	4142.97	15.60	158.93	352.76	59.19	19 25 42	3543.0	11.40	152.34

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE -.0690 TRA -.2555 TC3-2.6141 BAU  .3700   SGT 1497.8 SGR 1630.0 SG3 1052.9      ST   227.1 SR   448.3 SS   784.1
RDE -.2059 RRA  .0113 RC3-2.9611 FAU .18110   RRT  .9104 RRF  .9990 RTF  .9102     CRT  .6612 CRS -.9996 CST -.6466
FDE-1.3103 FRA  .1707 FC-22.3755 BSP   6530   SGB 2213.7 R23  .1910 R13  .9806     LSA  915.6 MSA  170.3 SSA    8.7
BDE  .2172 BRA  .2557 BC3 3.9499 FSP  -3351   SG1 2163.9 SG2  466.9 THA  47.66     EL1  476.2 EL2  160.3 ALF  68.99
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 140.00 ARRIVAL DATE NOV 1 1967

HELIOCENTRIC CONIC DISTANCE 388.171

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.948 GAL  -1.71 AZL  89.84 HCA 174.38 SMA 130.02 ECC .17117 INC  .1274 VI  29.322
RP  107.78 LAP    .02 LOP  76.66 VP  37.973 GAP    .40 AZP  90.16 TAL 188.35 TAP   2.73 RCA 107.76 APO 152.27 V2  35.160
RC  93.352 GL    1.71 GP  -40.30 ZAL 112.26 ZAP  97.21 ETS 354.52 ZAE 140.84 ETE 247.55 ZAC 112.96 ETC    .14 CLP -99.48
```

PLANETOCENTRIC CONIC

```
C3   6.652 VHL  2.579 DLA  13.07 RAL 152.72 RAD 6567.2 VEL 11.316 PTH   1.95 VHP  3.642 DPA -25.49 RAP 144.94 ECC 1.1095
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 24 8	2404.35	-23.68	53.87	1.66	106.00	3 4 13	1804.3	-21.25	46.04
90.00	17 45 46	4212.00	.43	172.65	359.03	61.69	18 55 58	3612.0	-3.36	166.02
100.00	3 52 16	2120.11	-24.51	32.69	1.38	107.67	4 27 36	1520.1	-21.86	24.89
100.00	19 0 19	3971.46	1.19	154.54	358.60	60.13	20 6 30	3371.5	-2.79	148.02
110.00	5 15 48	1858.76	-26.70	11.96	.50	112.19	5 46 47	1258.8	-23.45	4.31
110.00	19 53 17	3805.59	3.16	140.72	357.37	55.95	20 56 42	3205.6	-1.33	134.52

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .0973 TRA -.1627 TC3-3.3680 BAU  .4820   SGT 1789.6 SGR 2208.2 SG3  811.9      ST   248.6 SR   117.2 SS   145.8
RDE -.0235 RRA  .1196 RC3-4.2468 FAU .13878   RRT  .9346 RRF  .9998 RTF  .9350     CRT -.5820 CRS -.9186 CST  .2785
FDE -.0117 FRA  .5390 FC-18.0604 BSP   8563   SGB 2842.3 R23  .1403 R13  .9899     LSA  267.3 MSA  157.9 SSA   19.5
BDE  .1001 BRA  .2019 BC3 5.4202 FSP  -2571   SG1 2797.6 SG2  502.3 THA  51.38     EL1  259.2 EL2   91.4 ALF 162.39
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 142.00 ARRIVAL DATE NOV 3 1967

HELIOCENTRIC CONIC DISTANCE 394.470

RL	151.94	LAL	-.00	LOL	262.28	VL	26.939	GAL	-1.62	AZL	85.05	HCA	177.60	SMA	129.96	ECC	.17145	INC	4.9416	VI	29.322
RP	107.75	LAP	.21	LOP	79.88	VP	37.976	GAP	.80	AZP	94.94	TAL	187.88	TAP	5.48	RCA	107.68	APO	152.24	V2	35.170
RC	95.596	GL	41.09	GP	-65.50	ZAL	105.33	ZAP	96.80	ETS	346.47	ZAE	116.00	ETE	249.13	ZAC	112.02	ETC	347.28	CLP	-106.61

PLANETOCENTRIC CONIC

C3	12.483	VHL	3.533	DLA	48.16	RAL	174.34	RAD	6567.5	VEL	11.570	PTH	2.02	VHP	6.046	DPA	-47.08	RAP	128.30	ECC	1.2054

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
49.27	19 25 21	4170.70	-36.15	192.32	43.49	55.71	20 34 51	3570.7	-40.36	184.06
130.73	3 37 3	2688.81	-36.14	76.23	43.48	55.70	4 21 51	2088.8	-40.35	67.97
49.27	19 25 21	4170.70	-36.15	192.32	43.49	55.71	20 34 51	3570.7	-40.36	184.06
130.73	3 37 3	2688.81	-36.14	76.23	43.48	55.70	4 21 51	2088.8	-40.35	67.97
49.27	19 25 21	4170.70	-36.15	192.32	43.49	55.71	20 34 51	3570.7	-40.36	184.06
130.73	3 37 3	2688.81	-36.14	76.23	43.48	55.70	4 21 51	2088.8	-40.35	67.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	1.0109	TRA	.2633	TC3	-2.0216	BAU	.5892	SGT	2266.7	SGR	3003.6	SG3	327.3	ST	1651.1	SR	1608.0	SS	1087.3
RDE	.9471	RRA	.6476	RC3	-2.8949	FAU	.05191	RRT	.9470	RRF	.9998	RTF	.9511	CRT	.9835	CRS	-1.0000	CST	-.9851
FDE	1.2294	FRA	.8131	FC3	-3.5999	BSP	10618	SGB	3762.9	R23	.1038	R13	.9945	LSA	2538.4	MSA	225.1	SSA	.9
BDE	1.3852	BRA	.6991	BC3	3.5309	FSP	-977	SG1	3716.7	SG2	588.2	THA	53.38	EL1	2295.2	EL2	209.4	ALF	44.23

LAUNCH DATE JUN 14 1967 FLIGHT TIME 144.00 ARRIVAL DATE NOV 5 1967

HELIOCENTRIC CONIC DISTANCE 400.868

RL	151.94	LAL	-.00	LOL	262.28	VL	26.927	GAL	-1.54	AZL	115.52	HCA	180.92	SMA	129.88	ECC	.17193	INC	25.5162	VI	29.322
RP	107.72	LAP	.40	LOP	83.11	VP	37.978	GAP	1.23	AZP	64.48	TAL	187.47	TAP	8.39	RCA	107.55	APO	152.21	V2	35.180
RC	97.843	GL	-66.23	GP	86.04	ZAL	94.06	ZAP	93.96	ETS	133.87	ZAE	86.89	ETE	225.91	ZAC	79.73	ETC	136.10	CLP	179.35

PLANETOCENTRIC CONIC

C3	160.589	VHL	12.672	DLA	-52.23	RAL	128.80	RAD	6570.7	VEL	16.790	PTH	2.90	VHP	14.348	DPA	69.35	RAP	280.86	ECC	3.6429

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
44.08	4 8 54	2155.59	9.64	58.22	31.23	141.59	4 44 50	1555.6	15.86	53.48
135.92	12 50 11	5882.65	9.65	271.98	31.25	141.59	14 28 14	5282.6	15.87	267.25
44.08	4 8 54	2155.59	9.64	58.22	31.23	141.59	4 44 50	1555.6	15.86	53.48
135.92	12 50 11	5882.65	9.65	271.98	31.25	141.59	14 28 14	5282.6	15.87	267.25
44.08	4 8 54	2155.59	9.64	58.22	31.23	141.59	4 44 50	1555.6	15.86	53.48
135.92	12 50 11	5882.65	9.65	271.98	31.25	141.59	14 28 14	5282.6	15.87	267.25

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.9645	TRA	-.2488	TC3	.0033	BAU	.1080	SGT	907.0	SGR	3858.8	SG3	104.1	ST	889.9	SR	3542.0	SS	1424.8
RDE	-7.7618	RRA	-2.1667	RC3	.0502	FAU	-.00151	RRT	.9748	RRF	.9942	RTF	.9931	CRT	.9973	CRS	-.9993	CST	-.9993
FDE	-2.5295	FRA	-.5149	FC3	.0082	BSP	9206	SGB	3964.0	R23	-.0962	R13	.9953	LSA	3919.4	MSA	76.7	SSA	.4
BDE	8.0066	BRA	2.1810	BC3	.0503	FSP	-245	SG1	3959.1	SG2	197.2	THA	77.06	EL1	3651.5	EL2	63.8	ALF	75.93

LAUNCH DATE JUN 14 1967 FLIGHT TIME 146.00 ARRIVAL DATE NOV 7 1967

HELIOCENTRIC CONIC DISTANCE 407.084

RL	151.94	LAL	-.00	LOL	262.28	VL	26.913	GAL	-1.42	AZL	98.23	HCA	184.10	SMA	129.78	ECC	.17247	INC	8.2308	VI	29.322
RP	107.69	LAP	.59	LOP	86.34	VP	37.977	GAP	1.61	AZP	81.79	TAL	186.85	TAP	10.95	RCA	107.40	APO	152.17	V2	35.190
RC	100.092	GL	-53.79	GP	47.92	ZAL	100.12	ZAP	106.48	ETS	20.53	ZAE	124.51	ETE	123.53	ZAC	94.74	ETC	28.78	CLP	-115.04

PLANETOCENTRIC CONIC

C3	22.800	VHL	4.775	DLA	-39.85	RAL	134.21	RAD	6567.9	VEL	12.007	PTH	2.14	VHP	4.340	DPA	57.00	RAP	182.59	ECC	1.3752

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.70	5 32 27	1544.65	25.88	17.26	8.66	121.43	5 58 12	944.7	29.84	9.81
119.30	12 9 50	5591.23	25.89	260.74	8.67	121.42	13 43 1	4991.2	29.85	253.29
60.70	5 32 27	1544.65	25.88	17.26	8.66	121.43	5 58 12	944.7	29.84	9.81
119.30	12 9 50	5591.23	25.89	260.74	8.67	121.42	13 43 1	4991.2	29.85	253.29
60.70	5 32 27	1544.65	25.88	17.26	8.66	121.43	5 58 12	944.7	29.84	9.81
119.30	12 9 50	5591.23	25.89	260.74	8.67	121.42	13 43 1	4991.2	29.85	253.29

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.6826	TRA	-.8221	TC3	-1.3825	BAU	.5390	SGT	2733.3	SGR	2324.2	SG3	603.9	ST	2055.9	SR	2027.4	SS	2251.0
RDE	1.6856	RRA	.2882	RC3	1.1023	FAU	.09055	RRT	-.9527	RRF	-.9995	RTF	.9603	CRT	-.9926	CRS	1.0000	CST	-.9935
FDE	-4.9879	FRA	-.9591	FC3	-3.4383	BSP	11013	SGB	3587.9	R23	.1529	R13	-.9881	LSA	3655.7	MSA	199.9	SSA	1.0
BDE	2.3817	BRA	.8711	BC3	1.7682	FSP	-1910	SG1	3546.3	SG2	344.2	THA	139.85	EL1	2882.0	EL2	175.9	ALF	135.40

LAUNCH DATE JUN 14 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 9 1967

HELIOCENTRIC CONIC DISTANCE 413.338

RL	151.94	LAL	-.00	LOL	262.28	VL	26.897	GAL	-1.30	AZL	96.08	HCA	187.33	SMA	129.67	ECC	.17317	INC	6.0804	VI	29.322
RP	107.66	LAP	.78	LOP	89.57	VP	37.974	GAP	1.99	AZP	83.97	TAL	186.21	TAP	13.55	RCA	107.22	APO	152.13	V2	35.199
RC	102.344	GL	-46.56	GP	30.34	ZAL	101.47	ZAP	114.37	ETS	16.46	ZAE	137.49	ETE	135.58	ZAC	102.77	ETC	26.21	CLP	-118.57

PLANETOCENTRIC CONIC

C3	15.393	VHL	3.923	DLA	-33.55	RAL	138.64	RAD	6567.6	VEL	11.695	PTH	2.06	VHP	3.574	DPA	42.17	RAP	167.81	ECC	1.2533

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
71.21	6 46 31	1285.31	24.73	355.73	4.61	113.42	7 7 56	685.3	27.68	347.85
108.79	11 31 3	5666.09	24.75	266.10	4.62	113.41	13 5 30	5066.1	27.69	258.22
71.21	6 46 31	1285.31	24.73	355.73	4.61	113.42	7 7 56	685.3	27.68	347.85
108.79	11 31 3	5666.09	24.75	266.10	4.62	113.41	13 5 30	5066.1	27.69	258.22
110.00	10 48 30	5796.39	20.63	274.08	2.47	117.88	12 25 7	5196.4	24.19	266.75
110.00	12 28 15	5491.04	28.99	254.34	6.46	108.96	13 59 46	4891.0	31.30	245.89

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.3947	TRA	-.6300	TC3	-2.2865	BAU	.5182	SGT	2930.2	SGR	1471.0	SG3	835.2	ST	2064.3	SR	1208.3	SS	2380.3
RDE	.8267	RRA	.0836	RC3	1.0547	FAU	.13010	RRT	-.9525	RRF	-.9991	RTF	.9602	CRT	-.9922	CRS	1.0000	CST	-.9930
FDE	-5.2721	FRA	-.6288	FC3	-7.3170	BSP	9567	SGB	3278.7	R23	.2192	R13	-.9752	LSA	3368.8	MSA	195.4	SSA	1.7
BDE	1.6213	BRA	.6355	BC3	2.5180	FSP	-2487	SG1	3253.8	SG2	403.5	THA	154.02	EL1	2388.3	EL2	130.1	ALF	149.75

LAUNCH DATE JUN 14 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 11 1967

HELIOCENTRIC CONIC DISTANCE 419.571

RL 151.94 LAL -.00 LOL 262.28 VL 26.879 GAL -1.16 AZL 95.24 HCA 190.57 SMA 129.55 ECC .17400 INC 5.2420 V1 29.322
RP 107.63 LAP .96 LOP 92.80 VP 37.969 GAP 2.37 AZP 84.85 TAL 185.54 TAP 16.11 RCA 107.01 APO 152.09 V2 35.208
RC 104.596 GL -42.72 GP 21.39 ZAL 101.42 ZAP 119.89 ETS 14.04 ZAE 141.63 ETE 146.70 ZAC 106.91 ETC 24.28 CLP-122.36

PLANETOCENTRIC CONIC

C3 13.097 VHL 3.619 DLA -30.43 RAL 141.46 RAD 6567.5 VEL 11.597 PTH 2.03 VHP 3.443 DPA 34.27 RAP 162.38 ECC 1.2155

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.36	7 46 21	1097.80	23.40	340.89	3.99	110.03	8 4 39	497.8	25.91	332.95
101.64	10 53 46	5782.34	23.41	274.35	4.00	110.02	12 30 8	5182.3	25.92	266.40
78.36	7 46 21	1097.80	23.40	340.89	3.99	110.03	8 4 39	497.8	25.91	332.95
101.64	10 53 46	5782.34	23.41	274.35	4.00	110.02	12 30 8	5182.3	25.92	266.40
110.00	9 49 28	696.74	14.26	307.07	359.35	121.40	10 1 4	96.7	18.32	300.30
110.00	13 49 50	5231.39	33.24	235.34	6.83	98.49	15 17 1	4631.4	34.05	226.20

DIFFERENTIAL CORRECTIONS
TDE-1.3528 TRA -.5696 TC3-3.0086 BAU .5478
RDE .5212 RRA .0380 RC3 .8582 FAU .14595
FDE-5.0456 FRA -.4410 FC3-9.6473 BSP 10268
BDE 1.4498 BRA .5708 BC3 3.1286 FSP -2883

MID-COURSE EXECUTION ACCURACY
SGT 3228.5 SGR 1035.2 SG3 919.4
RRT -.9554 RRF -.9973 RTF .9653
SGB 3390.4 R23 .2283 R13 -.9718
SGI 3377.7 SG2 292.3 THA 162.84

ORBIT DETERMINATION ACCURACY
ST 2165.6 SR 825.6 SS 2378.3
CRT -.9928 CRS 1.0000 CST -.9934
LSA 3315.4 MSA 189.8 SSA 2.7
EL1 2315.8 EL2 92.7 ALF 159.23

LAUNCH DATE JUN 14 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 13 1967

HELIOCENTRIC CONIC DISTANCE 425.788

RL 151.94 LAL -.00 LOL 262.28 VL 26.859 GAL -1.02 AZL 94.79 HCA 193.81 SMA 129.41 ECC .17496 INC 4.7924 V1 29.322
RP 107.61 LAP 1.14 LOP 96.04 VP 37.962 GAP 2.74 AZP 85.35 TAL 184.81 TAP 18.62 RCA 106.77 APO 152.06 V2 35.216
RC 106.849 GL -40.34 GP 16.18 ZAL 100.78 ZAP 124.35 ETS 12.45 ZAE 142.38 ETE 154.97 ZAC 109.23 ETC 22.86 CLP-125.98

PLANETOCENTRIC CONIC

C3 12.012 VHL 3.466 DLA -28.73 RAL 143.73 RAD 6567.5 VEL 11.550 PTH 2.02 VHP 3.462 DPA 29.61 RAP 159.60 ECC 1.1977

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.93	8 46 44	914.81	22.54	327.02	4.50	108.30	9 1 58	314.8	24.83	319.07
95.07	10 11 30	640.36	22.55	306.92	4.50	108.29	10 22 10	40.4	24.84	298.97
100.00	9 40 34	740.03	17.70	312.24	2.48	114.49	9 52 54	140.0	20.86	304.87
100.00	12 0 21	5578.42	27.57	260.51	6.00	102.04	13 33 19	4978.4	28.95	251.98
110.00	9 34 22	759.54	12.01	310.53	359.30	122.25	9 47 1	159.5	16.18	303.91
110.00	14 23 2	5131.67	33.98	227.65	7.05	94.00	15 48 34	4531.7	34.16	218.41

DIFFERENTIAL CORRECTIONS
TDE-1.3589 TRA -.5152 TC3-3.5496 BAU .5792
RDE .3672 RRA .0156 RC3 .6401 FAU .14608
FDE-4.6627 FRA -.2194 FC-10.5288 BSP 10819
BDE 1.4076 BRA .5154 BC3 3.6068 FSP -2907

MID-COURSE EXECUTION ACCURACY
SGT 3470.4 SGR 752.5 SG3 917.8
RRT -.9512 RRF -.9920 RTF .9677
SGB 3551.1 R23 .2189 R13 -.9707
SGI 3543.8 SG2 227.5 THA 168.30

ORBIT DETERMINATION ACCURACY
ST 2266.5 SR 607.3 SS 2306.8
CRT -.9934 CRS 1.0000 CST -.9936
LSA 3285.3 MSA 185.6 SSA 3.8
EL1 2345.5 EL2 67.3 ALF 165.08

LAUNCH DATE JUN 14 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 15 1967

HELIOCENTRIC CONIC DISTANCE 431.988

RL 151.94 LAL -.00 LOL 262.28 VL 26.837 GAL -.86 AZL 94.51 HCA 197.05 SMA 129.27 ECC .17605 INC 4.5112 V1 29.322
RP 107.59 LAP 1.32 LOP 99.27 VP 37.953 GAP 3.11 AZP 85.69 TAL 184.03 TAP 21.08 RCA 106.51 APO 152.02 V2 35.223
RC 109.101 GL -38.71 GP 12.82 ZAL 99.80 ZAP 128.19 ETS 11.31 ZAE 141.82 ETE 160.84 ZAC 110.58 ETC 21.77 CLP-129.35

PLANETOCENTRIC CONIC

C3 11.393 VHL 3.375 DLA -27.77 RAL 145.80 RAD 6567.4 VEL 11.523 PTH 2.01 VHP 3.536 DPA 26.55 RAP 158.04 ECC 1.1875

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 48 28	925.48	18.82	326.36	4.32	111.56	9 3 54	325.5	21.58	318.78
90.00	10 26 13	607.56	25.35	305.38	6.51	103.07	10 36 20	7.6	26.90	297.06
100.00	9 24 20	809.57	15.69	316.42	2.88	115.77	9 37 49	209.6	19.03	309.22
100.00	12 33 2	5486.75	28.70	253.93	7.24	98.76	14 4 29	4886.7	29.61	245.24
110.00	9 30 41	789.60	10.91	312.17	.14	122.60	9 43 51	189.6	15.13	305.61
110.00	14 43 11	5079.47	34.15	223.59	7.82	91.60	16 7 50	4479.5	33.99	214.34

DIFFERENTIAL CORRECTIONS
TDE-1.3881 TRA -.4626 TC3-3.9909 BAU .6118
RDE .2801 RRA .0053 RC3 .4554 FAU .14025
FDE-4.2868 FRA -.0144 FC-10.6575 BSP 11409
BDE 1.4161 BRA .4626 BC3 4.0168 FSP -2809

MID-COURSE EXECUTION ACCURACY
SGT 3687.5 SGR 566.2 SG3 884.1
RRT -.9375 RRF -.9788 RTF .9687
SGB 3730.8 R23 .1958 R13 -.9702
SGI 3725.7 SG2 195.1 THA 171.79

ORBIT DETERMINATION ACCURACY
ST 2372.7 SR 475.5 SS 2224.3
CRT -.9943 CRS .9999 CST -.9938
LSA 3281.8 MSA 182.5 SSA 4.9
EL1 2419.4 EL2 49.8 ALF 168.73

LAUNCH DATE JUN 14 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 17 1967

HELIOCENTRIC CONIC DISTANCE 438.168

RL 151.94 LAL -.00 LOL 262.28 VL 26.814 GAL -.69 AZL 94.32 HCA 200.29 SMA 129.11 ECC .17726 INC 4.3176 V1 29.322
RP 107.57 LAP 1.50 LOP 102.51 VP 37.943 GAP 3.48 AZP 85.95 TAL 183.21 TAP 23.50 RCA 106.22 APO 151.99 V2 35.230
RC 111.351 GL -37.48 GP 10.50 ZAL 98.58 ZAP 131.62 ETS 10.46 ZAE 140.75 ETE 165.01 ZAC 111.29 ETC 20.89 CLP-132.50

PLANETOCENTRIC CONIC

C3 11.006 VHL 3.318 DLA -27.24 RAL 147.80 RAD 6567.4 VEL 11.506 PTH 2.00 VHP 3.638 DPA 24.35 RAP 157.20 ECC 1.1811

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 36 52	982.80	17.35	329.92	5.21	112.74	8 53 14	382.8	20.28	322.48
90.00	10 53 47	5824.03	26.35	278.29	8.12	100.76	12 30 51	5224.0	27.57	269.84
100.00	9 21 18	839.24	14.81	318.18	4.00	116.27	9 35 17	239.2	18.22	311.05
100.00	12 52 2	5442.83	29.11	250.73	8.61	97.12	14 22 45	4842.8	29.79	241.99
110.00	9 32 31	804.00	10.38	312.95	1.44	122.75	9 45 55	204.0	14.63	306.42
110.00	14 57 18	5050.84	34.18	221.35	9.00	90.28	16 21 28	4450.8	33.84	212.12

DIFFERENTIAL CORRECTIONS
TDE-1.4315 TRA -.4098 TC3-4.3732 BAU .6451
RDE .2275 RRA .0019 RC3 .3083 FAU .13274
FDE-3.9579 FRA .1583 FC-10.4413 BSP 12036
BDE 1.4494 BRA .4098 BC3 4.3841 FSP -2680

MID-COURSE EXECUTION ACCURACY
SGT 3894.3 SGR 442.9 SG3 841.3
RRT -.9088 RRF -.9510 RTF .9693
SGB 3919.4 R23 .1630 R13 -.9701
SGI 3915.1 SG2 183.8 THA 174.08

ORBIT DETERMINATION ACCURACY
ST 2485.3 SR 392.9 SS 2149.8
CRT -.9954 CRS .9998 CST -.9940
LSA 3304.6 MSA 179.4 SSA 6.0
EL1 2515.9 EL2 37.0 ALF 171.05

LAUNCH DATE JUN 14 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 19 1967

HELIOCENTRIC CONIC DISTANCE 444.331
RL 151.94 LAL -.00 LOL 262.28 VL 26.789 GAL -.51 AZL 94.18 HCA 203.53 SMA 128.94 ECC .17860 INC 4.1755 V1 29.322
RP 107.55 LAP 1.67 LOP 105.75 VP 37.931 GAP 3.84 AZP 86.17 TAL 182.35 TAP 25.88 RCA 105.91 APO 151.97 V2 35.236
RC 113.598 GL -36.49 GP 8.81 ZAL 97.19 ZAP 134.74 ETS 9.79 ZAE 139.51 ETE 168.04 ZAC 111.56 ETC 20.14 CLP-135.42

PLANETOCENTRIC CONIC
C3 10.757 VHL 3.280 DLA -26.99 RAL 149.80 RAD 6567.4 VEL 11.495 PTH 2.00 VHP 3.756 DPA 22.66 RAP 156.86 ECC 1.1770

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 37 18	1003.17	16.80	331.18	6.65	113.13	8 54 1	403.2	19.79	323.78
90.00	11 9 20	5794.31	26.71	276.19	9.80	99.76	12 45 54	5194.3	27.79	267.69
100.00	9 24 27	850.87	14.46	318.87	5.53	116.45	9 38 37	250.9	17.89	311.76
100.00	13 4 52	5421.84	29.28	249.19	10.21	96.33	14 35 14	4821.8	29.84	240.43
110.00	9 37 41	809.32	10.19	313.24	3.04	122.81	9 51 10	209.3	14.44	306.72
110.00	15 8 8	5036.15	34.18	220.20	10.51	89.60	16 32 4	4436.1	33.75	210.99

DIFFERENTIAL CORRECTIONS
TDE-1.4808 TRA -.3516 TC3-4.7002 BAU .6765
RDE .1940 RRA .0019 RC3 .1895 FAU .12441
FDE-3.6636 FRA .3119 FC-10.0128 BSP 12640
BDE 1.4935 BRA .3516 BC3 4.7041 FSP -2538

MID-COURSE EXECUTION ACCURACY
SGT 4083.2 SGR 361.0 SG3 794.1
RRT -.8565 RRF -.8991 RTF .9695
SGB 4099.2 R23 .1297 R13 -.9700
SG1 4095.0 SG2 185.8 THA 175.66

ORBIT DETERMINATION ACCURACY
ST 2596.7 SR 338.9 SS 2078.9
CRT -.9968 CRS .9993 CST -.9941
LSA 3339.0 MSA 176.3 SSA 7.1
EL1 2618.6 EL2 26.9 ALF 172.59

LAUNCH DATE JUN 14 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 21 1967

HELIOCENTRIC CONIC DISTANCE 450.474
RL 151.94 LAL -.00 LOL 262.28 VL 26.763 GAL -.32 AZL 94.07 HCA 206.78 SMA 128.77 ECC .18007 INC 4.0660 V1 29.322
RP 107.53 LAP 1.83 LOP 108.99 VP 37.918 GAP 4.20 AZP 86.37 TAL 181.45 TAP 28.23 RCA 105.58 APO 151.95 V2 35.241
RC 115.842 GL -35.65 GP 7.53 ZAL 95.64 ZAP 137.59 ETS 9.24 ZAE 138.25 ETE 170.30 ZAC 111.48 ETC 19.49 CLP-138.13

PLANETOCENTRIC CONIC
C3 10.602 VHL 3.256 DLA -26.93 RAL 151.85 RAD 6567.4 VEL 11.489 PTH 2.00 VHP 3.886 DPA 21.28 RAP 156.90 ECC 1.1745

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 43 39	1006.26	16.72	331.36	8.45	113.19	9 0 25	406.3	19.72	323.97
90.00	11 19 19	5785.28	26.82	275.55	11.62	99.46	12 55 45	5185.3	27.85	267.03
100.00	9 31 24	851.99	14.42	318.93	7.34	116.47	9 45 36	252.0	17.86	311.83
100.00	13 14 15	5414.78	29.33	248.67	12.01	96.06	14 44 30	4814.8	29.86	239.91
110.00	9 45 7	808.90	10.20	313.21	4.88	122.80	9 58 36	208.9	14.45	306.69
110.00	15 17 1	5030.63	34.18	219.77	12.28	89.34	16 40 52	4430.6	33.71	210.56

DIFFERENTIAL CORRECTIONS
TDE-1.5386 TRA -.2923 TC3-4.9944 BAU .7080
RDE .1730 RRA .0048 RC3 .0948 FAU .11656
FDE-3.4191 FRA .4294 FC3-9.5183 BSP 13270
BDE 1.5483 BRA .2924 BC3 4.9953 FSP -2410

MID-COURSE EXECUTION ACCURACY
SGT 4270.9 SGR 310.8 SG3 749.9
RRT -.7764 RRF -.8179 RTF .9700
SGB 4282.2 R23 .1002 R13 -.9703
SG1 4277.7 SG2 195.6 THA 176.76

ORBIT DETERMINATION ACCURACY
ST 2714.7 SR 304.5 SS 2022.7
CRT -.9981 CRS .9984 CST -.9944
LSA 3394.7 MSA 172.2 SSA 8.3
EL1 2731.6 EL2 18.8 ALF 173.61

LAUNCH DATE JUN 14 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 23 1967

HELIOCENTRIC CONIC DISTANCE 456.599
RL 151.94 LAL -.00 LOL 262.28 VL 26.736 GAL -.11 AZL 93.98 HCA 210.02 SMA 128.58 ECC .18167 INC 3.9786 V1 29.322
RP 107.52 LAP 1.99 LOP 112.24 VP 37.903 GAP 4.56 AZP 86.55 TAL 180.51 TAP 30.53 RCA 105.22 APO 151.94 V2 35.246
RC 118.080 GL -34.89 GP 6.54 ZAL 93.96 ZAP 140.21 ETS 8.79 ZAE 137.05 ETE 172.02 ZAC 111.12 ETC 18.90 CLP-140.66

PLANETOCENTRIC CONIC
C3 10.516 VHL 3.243 DLA -26.99 RAL 153.96 RAD 6567.4 VEL 11.485 PTH 2.00 VHP 4.024 DPA 20.09 RAP 157.23 ECC 1.1731

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 53 58	998.34	16.93	330.88	10.51	113.04	9 10 36	398.3	19.91	323.47
90.00	11 25 51	5789.93	26.76	275.88	13.61	99.61	13 2 21	5189.9	27.82	267.37
100.00	9 41 5	846.11	14.60	318.59	9.40	116.38	9 55 11	246.1	18.03	311.47
100.00	13 21 25	5417.38	29.31	248.86	14.01	96.16	14 51 43	4817.4	29.85	240.10
110.00	9 54 18	804.62	10.36	312.98	6.93	122.76	10 7 42	204.6	14.60	306.46
110.00	15 24 42	5031.64	34.18	219.85	14.29	89.39	16 48 33	4431.6	33.72	210.64

DIFFERENTIAL CORRECTIONS
TDE-1.5981 TRA -.2244 TC3-5.2480 BAU .7378
RDE .1597 RRA .0087 RC3 .0182 FAU .10904
FDE-3.1994 FRA .5400 FC3-8.9767 BSP 13912
BDE 1.6061 BRA .2246 BC3 5.2480 FSP -2299

MID-COURSE EXECUTION ACCURACY
SGT 4444.8 SGR 282.9 SG3 707.2
RRT -.6716 RRF -.7103 RTF .9703
SGB 4453.8 R23 .0773 R13 -.9705
SG1 4448.8 SG2 209.4 THA 177.55

ORBIT DETERMINATION ACCURACY
ST 2828.6 SR 282.2 SS 1969.3
CRT -.9990 CRS .9967 CST -.9946
LSA 3454.0 MSA 168.1 SSA 9.4
EL1 2842.6 EL2 12.7 ALF 174.31

LAUNCH DATE JUN 14 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 25 1967

HELIOCENTRIC CONIC DISTANCE 462.705
RL 151.94 LAL -.00 LOL 262.28 VL 26.707 GAL .10 AZL 93.91 HCA 213.27 SMA 128.40 ECC .18340 INC 3.9068 V1 29.322
RP 107.50 LAP 2.14 LOP 115.48 VP 37.887 GAP 4.92 AZP 86.73 TAL 179.54 TAP 32.80 RCA 104.85 APO 151.94 V2 35.250
RC 120.312 GL -34.18 GP 5.75 ZAL 92.17 ZAP 142.64 ETS 8.40 ZAE 135.92 ETE 173.36 ZAC 110.52 ETC 18.37 CLP-143.02

PLANETOCENTRIC CONIC
C3 10.489 VHL 3.239 DLA -27.15 RAL 156.15 RAD 6567.4 VEL 11.484 PTH 2.00 VHP 4.168 DPA 19.04 RAP 157.80 ECC 1.1726

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 7 26	982.10	17.36	329.88	12.82	112.73	9 23 48	382.1	20.29	322.43
90.00	11 29 51	5805.13	26.59	276.96	15.75	100.13	13 6 36	5205.1	27.71	268.47
100.00	9 52 53	835.25	14.93	317.95	11.67	116.20	10 6 48	235.3	18.33	310.81
100.00	13 27 5	5427.21	29.23	249.59	16.19	96.53	14 57 32	4827.2	29.83	240.83
110.00	10 4 50	797.73	10.61	312.61	9.17	122.69	10 18 8	197.7	14.85	306.07
110.00	15 31 37	5037.50	34.18	220.31	16.51	89.66	16 55 35	4437.5	33.76	211.09

DIFFERENTIAL CORRECTIONS
TDE-1.6449 TRA -.1377 TC3-5.4100 BAU .7587
RDE .1504 RRA .0126 RC3 -.0494 FAU .09962
FDE-2.9521 FRA .6715 FC3-8.2218 BSP 14162
BDE 1.6518 BRA .1383 BC3 5.4103 FSP -2094

MID-COURSE EXECUTION ACCURACY
SGT 4563.3 SGR 269.1 SG3 654.7
RRT -.5446 RRF -.5812 RTF .9687
SGB 4571.2 R23 .0624 R13 -.9688
SG1 4565.6 SG2 225.6 THA 178.18

ORBIT DETERMINATION ACCURACY
ST 2913.1 SR 266.1 SS 1887.2
CRT -.9992 CRS .9939 CST -.9945
LSA 3477.2 MSA 166.1 SSA 10.5
EL1 2925.2 EL2 10.5 ALF 174.78

LAUNCH DATE JUN 14 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 27 1967

HELIOCENTRIC CONIC DISTANCE 468.791

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.678 GAL    .33 AZL  93.85 HCA 216.51 SMA 128.20 ECC .18528 INC 3.8464 V1  29.322
RP  107.49 LAP   2.29 LOP 118.73 VP  37.869 GAP   5.28 AZP  86.91 TAL 178.53 TAP  35.04 RCA 104.45 APO 151.95 V2  35.253
RC 122.538 GL  -33.50 GP    5.11 ZAL  90.27 ZAP 144.91 ETS   8.07 ZAE 134.87 ETE 174.41 ZAC 109.72 ETC  17.87 CLP-145.23
```

PLANETOCENTRIC CONIC

```
C3  10.516 VHL  3.243 DLA -27.38 RAL 158.42 RAD 6567.4 VEL 11.485 PTH   2.00 VHP  4.319 DPA  18.07 RAP 158.57 ECC 1.1731
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 23 45	958.57	17.98	328.43	15.36	112.25	9 39 44	358.6	20.84	320.92
90.00	11 31 37	5829.68	26.28	278.69	18.03	100.94	13 8 47	5229.7	27.53	270.24
100.00	10 6 25	820.70	15.36	317.09	14.14	115.96	10 20 6	220.7	18.73	309.91
100.00	13 31 39	5442.77	29.11	250.73	18.54	97.12	15 2 21	4842.8	29.79	241.99
110.00	10 16 28	789.15	10.93	312.15	11.59	122.59	10 29 37	189.2	15.15	305.59
110.00	15 38 5	5047.08	34.18	221.06	18.92	90.11	17 2 12	4447.1	33.82	211.83

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE-1.7110 TRA -.0545 TC3-5.5825 BAU  .7849    SGT 4718.0 SGR  269.6 SG3  617.3     ST  3025.2 SR   259.6 SS  1845.0
ROE  .1468 RRA  .0181 RC3 -.0994 FAU .09281    RRT -.4359 RRF -.4685 RTF  .9687    CRT -.9986 CRS  .9904 CST -.9947
FOE-2.7854 FRA  .7585 FC3-7.6406 BSP  14670    SGB 4725.7 R23  .0502 R13 -.9688    LSA 3549.2 MSA  162.2 SSA   11.6
BOE 1.7173 BRA  .0574 BC3 5.5834 FSP  -1975    SG1 4719.5 SG2  242.6 THA 178.57    EL1 3036.3 EL2   13.7 ALF 175.10
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 29 1967

HELIOCENTRIC CONIC DISTANCE 474.858

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.648 GAL    .58 AZL  93.79 HCA 219.76 SMA 128.00 ECC .18730 INC 3.7946 V1  29.322
RP  107.49 LAP   2.43 LOP 121.97 VP  37.850 GAP   5.63 AZP  87.08 TAL 177.49 TAP  37.25 RCA 104.03 APO 151.98 V2  35.256
RC 124.755 GL  -32.81 GP    4.58 ZAL  88.28 ZAP 147.02 ETS   7.78 ZAE 133.92 ETE 175.26 ZAC 108.75 ETC  17.40 CLP-147.30
```

PLANETOCENTRIC CONIC

```
C3  10.592 VHL  3.255 DLA -27.65 RAL 160.77 RAD 6567.4 VEL 11.488 PTH   2.00 VHP  4.475 DPA  17.15 RAP 159.51 ECC 1.1743
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 43 8	927.13	18.78	326.47	18.13	111.59	9 58 35	327.1	21.54	318.89
90.00	11 31 0	5864.05	25.81	281.10	20.43	102.06	13 8 44	5264.1	27.22	272.71
100.00	10 21 27	803.29	15.88	316.05	16.80	115.66	10 34 51	203.3	19.20	308.83
100.00	13 35 22	5463.13	28.93	252.21	21.05	97.88	15 6 25	4863.1	29.72	243.50
110.00	10 29 0	779.59	11.28	311.63	14.17	122.48	10 42 0	179.6	15.48	305.05
110.00	15 44 19	5059.60	34.18	222.04	21.51	90.68	17 8 39	4459.6	33.89	212.80

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE-1.7759 TRA  .0357 TC3-5.7203 BAU  .8103    SGT 4862.4 SGR  276.6 SG3  581.5     ST  3128.4 SR   257.5 SS  1799.3
ROE  .1460 RRA  .0238 RC3 -.1391 FAU .08648    RRT -.3443 RRF -.3727 RTF  .9689    CRT -.9970 CRS  .9861 CST -.9950
FOE-2.6274 FRA  .8330 FC3-7.0683 BSP  15171    SGB 4870.3 R23  .0406 R13 -.9689    LSA 3614.7 MSA  157.8 SSA   12.7
BOE 1.7819 BRA  .0429 BC3 5.7220 FSP  -1869    SG1 4863.4 SG2  259.7 THA 178.87    EL1 3138.9 EL2   19.8 ALF 175.31
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 170.00 ARRIVAL DATE DEC 1 1967

HELIOCENTRIC CONIC DISTANCE 480.904

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.617 GAL    .84 AZL  93.75 HCA 223.01 SMA 127.80 ECC .18947 INC 3.7494 V1  29.322
RP  107.48 LAP   2.56 LOP 125.22 VP  37.830 GAP   5.99 AZP  87.26 TAL 176.42 TAP  39.43 RCA 103.58 APO 152.01 V2  35.258
RC 126.964 GL  -32.11 GP    4.14 ZAL  86.20 ZAP 149.00 ETS   7.53 ZAE 133.06 ETE 175.96 ZAC 107.64 ETC  16.97 CLP-149.25
```

PLANETOCENTRIC CONIC

```
C3  10.720 VHL  3.274 DLA -27.95 RAL 163.20 RAD 6567.4 VEL 11.494 PTH   2.00 VHP  4.635 DPA  16.26 RAP 160.61 ECC 1.1764
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 6 43	884.19	19.83	323.76	21.15	110.64	10 21 27	284.2	22.46	316.07
90.00	11 26 51	623.82	25.09	306.51	22.90	103.57	11 37 15	23.8	26.71	298.21
100.00	10 37 50	783.58	16.46	314.87	19.65	115.31	10 50 53	183.6	19.73	307.61
100.00	13 38 25	5487.70	28.69	254.00	23.70	98.79	15 9 53	4887.7	29.60	245.31
110.00	10 42 16	769.61	11.64	311.08	16.92	122.37	10 55 6	169.6	15.83	304.48
110.00	15 50 28	5074.44	34.16	223.19	24.27	91.37	17 15 2	4474.4	33.97	213.95

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE-1.8365 TRA  .1392 TC3-5.8005 BAU  .8316    SGT 4983.2 SGR  287.3 SG3  545.5     ST  3216.9 SR   258.7 SS  1746.4
ROE  .1475 RRA  .0296 RC3 -.1709 FAU .08001    RRT -.2711 RRF -.2959 RTF  .9684    CRT -.9944 CRS  .9807 CST -.9951
FOE-2.4714 FRA  .9106 FC3-6.4621 BSP  15529    SGB 4991.4 R23  .0339 R13 -.9685    LSA 3666.3 MSA  154.5 SSA   13.7
BOE 1.8424 BRA  .1423 BC3 5.8030 FSP  -1748    SG1 4983.8 SG2  276.5 THA 179.10    EL1 3227.2 EL2   27.1 ALF 175.43
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 172.00 ARRIVAL DATE DEC 3 1967

HELIOCENTRIC CONIC DISTANCE 486.929

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.585 GAL   1.11 AZL  93.71 HCA 226.26 SMA 127.59 ECC .19180 INC 3.7094 V1  29.322
RP  107.48 LAP   2.68 LOP 128.47 VP  37.809 GAP   6.35 AZP  87.43 TAL 175.32 TAP  41.58 RCA 103.12 APO 152.06 V2  35.259
RC 129.165 GL  -31.39 GP    3.77 ZAL  84.04 ZAP 150.86 ETS   7.31 ZAE 132.27 ETE 176.53 ZAC 106.39 ETC  16.56 CLP-151.09
```

PLANETOCENTRIC CONIC

```
C3  10.899 VHL  3.301 DLA -28.26 RAL 165.71 RAD 6567.4 VEL 11.502 PTH   2.00 VHP  4.801 DPA  15.40 RAP 161.82 ECC 1.1794
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 41 15	807.83	21.58	318.84	24.58	108.79	10 54 43	207.8	23.95	310.97
90.00	11 12 21	706.96	23.64	312.17	25.28	106.05	11 24 8	107.0	25.62	304.05
100.00	10 55 23	762.04	17.08	313.58	22.66	114.91	11 8 5	162.0	20.30	306.26
100.00	13 40 54	5516.02	28.37	256.05	26.49	99.83	15 12 50	4916.0	29.44	247.40
110.00	10 56 7	759.77	12.00	310.55	19.81	122.25	11 8 47	159.8	16.17	303.92
110.00	15 56 40	5091.06	34.12	224.49	27.19	92.14	17 21 31	4491.1	34.04	215.25

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE-1.9026 TRA  .2486 TC3-5.8533 BAU  .8534    SGT 5106.8 SGR  300.3 SG3  513.9     ST  3307.3 SR   263.3 SS  1702.2
ROE  .1512 RRA  .0354 RC3 -.1942 FAU .07431    RRT -.2195 RRF -.2417 RTF  .9683    CRT -.9911 CRS  .9748 CST -.9953
FOE-2.3400 FRA  .9759 FC3-5.9027 BSP  15959    SGB 5115.7 R23  .0292 R13 -.9684    LSA 3725.8 MSA  151.0 SSA   14.6
BOE 1.9086 BRA  .2511 BC3 5.8566 FSP  -1654    SG1 5107.3 SG2  292.9 THA 179.26    EL1 3317.5 EL2   35.0 ALF 175.49
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 174.00 ARRIVAL DATE DEC 5 1967

DISTANCE 492.932

HELIOCENTRIC CONIC

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.553 GAL   1.39 AZL  93.67 HCA 229.50 SMA 127.38 ECC .19429 INC 3.6735 V1  29.322
RP  107.48 LAP   2.79 LOP 131.72 VP  37.786 GAP   6.71 AZP  87.61 TAL 174.20 TAP  43.71 RCA 102.63 APO 152.13 V2  35.259
RC 131.355 GL  -30.64 GP    3.45 ZAL  81.82 ZAP 152.62 ETS   7.13 ZAE 131.56 ETE 177.00 ZAC 105.02 ETC  16.17 CLP-152.82
```

PLANETOCENTRIC CONIC

```
C3  11.134 VHL  3.337 DLA -28.58 RAL 168.30 RAD 6567.4 VEL 11.512 PTH   2.01 VHP  4.972 DPA  14.54 RAP 163.15 ECC 1.1832
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.99	10 33 32	870.54	22.76	323.85	27.91	107.76	10 48 2	270.5	24.97	315.86
94.01	11 40 41	653.01	22.77	307.93	27.92	107.75	11 51 34	53.0	24.98	299.94
100.00	11 14 3	738.96	17.73	312.18	25.85	114.46	11 26 22	139.0	20.89	304.80
100.00	13 42 51	5547.86	27.98	258.33	29.39	100.97	15 15 18	4947.9	29.21	249.74
110.00	11 10 22	750.56	12.33	310.04	22.84	122.14	11 22 52	150.6	16.49	303.40
110.00	16 3 1	5109.03	34.07	225.89	30.26	92.96	17 28 10	4509.0	34.11	216.65

DIFFERENTIAL CORRECTIONS

```
TDE-1.9673 TRA  .3681 TC3-5.8645 BAU  .8735
RDE  .1567 RRA  .0411 RC3 -.2108 FAU .06889
FDE-2.2152 FRA 1.0373 FC3-5.3565 BSP  16344
BDE 1.9735 BRA  .3704 BC3 5.8683 FSP  -1561
```

MID-COURSE EXECUTION ACCURACY

```
SGT 5219.8 SGR  314.0 SG3  483.8
RRT -.1833 RRF -.2034 RTF  .9681
SGB 5229.3 R23  .0257 R13 -.9681
SG1 5220.1 SG2  308.6 THA 179.37
```

ORBIT DETERMINATION ACCURACY

```
ST  3387.0 SR   270.1 SS  1655.3
CRT -.9870 CRS  .9685 CST -.9955
LSA 3776.6 MSA  148.2 SSA   15.5
EL1 3397.4 EL2   43.2 ALF 175.50
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 176.00 ARRIVAL DATE DEC 7 1967

DISTANCE 498.913

HELIOCENTRIC CONIC

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.520 GAL   1.69 AZL  93.64 HCA 232.75 SMA 127.17 ECC .19697 INC 3.6409 V1  29.322
RP  107.48 LAP   2.90 LOP 134.97 VP  37.762 GAP   7.08 AZP  87.79 TAL 173.06 TAP  45.81 RCA 102.12 APO 152.22 V2  35.259
RC 133.537 GL  -29.86 GP    3.18 ZAL  79.55 ZAP 154.29 ETS   6.97 ZAE 130.92 ETE 177.40 ZAC 103.56 ETC  15.81 CLP-154.47
```

PLANETOCENTRIC CONIC

```
C3  11.429 VHL  3.381 DLA -28.88 RAL 170.94 RAD 6567.4 VEL 11.525 PTH   2.01 VHP  5.147 DPA  13.68 RAP 164.57 ECC 1.1881
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.07	10 28 20	926.80	22.88	328.03	31.02	108.12	10 43 47	326.8	25.14	320.04
95.93	12 7 0	607.56	22.89	304.63	31.02	108.11	12 17 7	7.6	25.15	296.65
100.00	11 33 45	714.50	18.42	310.68	29.19	113.97	11 45 40	114.5	21.50	303.24
100.00	13 44 15	5583.13	27.50	260.84	32.40	102.21	15 17 19	4983.1	28.90	252.32
110.00	11 24 52	742.47	12.63	309.60	25.99	122.03	11 37 14	142.5	16.77	302.94
110.00	16 9 38	5127.92	33.99	227.36	33.47	93.83	17 35 6	4527.9	34.15	218.12

DIFFERENTIAL CORRECTIONS

```
TDE-2.0325 TRA  .4966 TC3-5.8382 BAU  .8927
RDE  .1637 RRA  .0465 RC3 -.2210 FAU .06386
FDE-2.1009 FRA 1.0927 FC3-4.8373 BSP  16724
BDE 2.0391 BRA  .4988 BC3 5.8424 FSP  -1478
```

MID-COURSE EXECUTION ACCURACY

```
SGT 5326.5 SGR  327.8 SG3  455.9
RRT -.1601 RRF -.1787 RTF  .9680
SGB 5336.6 R23  .0234 R13 -.9680
SG1 5326.8 SG2  323.5 THA 179.43
```

ORBIT DETERMINATION ACCURACY

```
ST  3458.8 SR   278.9 SS  1609.0
CRT -.9825 CRS  .9620 CST -.9957
LSA 3822.1 MSA  145.9 SSA   16.3
EL1 3469.6 EL2   51.8 ALF 175.47
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 9 1967

DISTANCE 504.869

HELIOCENTRIC CONIC

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.486 GAL   2.01 AZL  93.61 HCA 236.00 SMA 126.95 ECC .19983 INC 3.6110 V1  29.322
RP  107.48 LAP   2.99 LOP 138.22 VP  37.738 GAP   7.45 AZP  87.98 TAL 171.90 TAP  47.89 RCA 101.58 APO 152.32 V2  35.257
RC 135.709 GL  -29.05 GP    2.94 ZAL  77.24 ZAP 155.87 ETS   6.84 ZAE 130.34 ETE 177.73 ZAC 102.00 ETC  15.47 CLP-156.04
```

PLANETOCENTRIC CONIC

```
C3  11.788 VHL  3.433 DLA -29.17 RAL 173.64 RAD 6567.4 VEL 11.540 PTH   2.01 VHP  5.328 DPA  12.82 RAP 166.07 ECC 1.1940
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.70	10 28 6	968.73	22.96	331.14	34.25	108.50	10 44 14	368.7	25.27	323.17
97.30	12 28 47	5866.59	22.97	280.43	34.26	108.49	14 6 33	5266.6	25.28	272.45
100.00	11 54 29	688.60	19.13	309.08	32.68	113.42	12 5 58	88.6	22.13	301.58
100.00	13 45 4	5621.95	26.91	263.58	35.50	103.53	15 18 46	5021.9	28.50	255.14
110.00	11 39 27	735.96	12.86	309.24	29.26	121.95	11 51 43	136.0	16.99	302.56
110.00	16 16 36	5147.36	33.90	228.87	36.80	94.72	17 42 23	4547.4	34.18	219.64

DIFFERENTIAL CORRECTIONS

```
TDE-2.0969 TRA  .6352 TC3-5.7747 BAU  .9108
RDE  .1723 RRA  .0516 RC3 -.2257 FAU .05920
FDE-1.9942 FRA 1.1445 FC3-4.3474 BSP  17071
BDE 2.1040 BRA  .6373 BC3 5.7792 FSP  -1399
```

MID-COURSE EXECUTION ACCURACY

```
SGT 5426.1 SGR  341.2 SG3  430.0
RRT -.1469 RRF -.1641 RTF  .9679
SGB 5436.9 R23  .0216 R13 -.9679
SG1 5426.4 SG2  337.5 THA 179.47
```

ORBIT DETERMINATION ACCURACY

```
ST  3520.2 SR   289.1 SS  1562.1
CRT -.9776 CRS  .9553 CST -.9958
LSA 3859.3 MSA  144.4 SSA   17.0
EL1 3531.5 EL2   60.7 ALF 175.41
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 11 1967

DISTANCE 510.802

HELIOCENTRIC CONIC

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.452 GAL   2.34 AZL  93.58 HCA 239.25 SMA 126.74 ECC .20289 INC 3.5833 V1  29.322
RP  107.49 LAP   3.08 LOP 141.47 VP  37.712 GAP   7.82 AZP  88.17 TAL 170.71 TAP  49.96 RCA 101.02 APO 152.45 V2  35.255
RC 137.871 GL  -28.20 GP    2.74 ZAL  74.89 ZAP 157.38 ETS   6.73 ZAE 129.82 ETE 178.01 ZAC 100.37 ETC  15.15 CLP-157.53
```

PLANETOCENTRIC CONIC

```
C3  12.219 VHL  3.496 DLA -29.43 RAL 176.39 RAD 6567.5 VEL 11.559 PTH   2.02 VHP  5.515 DPA  11.96 RAP 167.64 ECC 1.2011
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.64	10 30 38	1003.24	22.99	333.70	37.60	108.89	10 47 22	403.2	25.35	325.74
98.36	12 48 7	5847.20	23.00	279.01	37.60	108.88	14 25 34	5247.2	25.37	271.05
100.00	12 16 24	660.74	19.87	307.35	36.32	112.80	12 27 25	60.7	22.79	299.77
100.00	13 45 2	5664.93	26.19	266.57	38.67	104.95	15 19 27	5064.9	27.99	258.23
110.00	11 53 57	731.46	13.02	308.99	32.63	121.89	12 6 8	131.5	17.14	302.31
110.00	16 23 59	5166.97	33.77	230.39	40.25	95.61	17 50 5	4567.0	34.18	221.17

DIFFERENTIAL CORRECTIONS

```
TDE-2.1577 TRA  .7867 TC3-5.6656 BAU  .9262
RDE  .1823 RRA  .0562 RC3 -.2259 FAU .05465
FDE-1.8909 FRA 1.1958 FC3-3.8723 BSP  17328
BDE 2.1653 BRA  .7887 BC3 5.6701 FSP  -1318
```

MID-COURSE EXECUTION ACCURACY

```
SGT 5512.5 SGR  354.1 SG3  405.2
RRT -.1407 RRF -.1569 RTF  .9675
SGB 5523.9 R23  .0204 R13 -.9675
SG1 5512.8 SG2  350.5 THA 179.48
```

ORBIT DETERMINATION ACCURACY

```
ST  3566.4 SR   300.5 SS  1511.9
CRT -.9723 CRS  .9483 CST -.9960
LSA 3882.6 MSA  144.0 SSA   17.5
EL1 3578.3 EL2   70.0 ALF 175.32
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 13 1967

HELIOCENTRIC CONIC DISTANCE 516.707

RL 151.94 LAL -.00 LOL 262.28 VL 26.418 GAL 2.70 AZL 93.56 HCA 242.49 SMA 126.52 ECC .20617 INC 3.5575 V1 29.322
RP 107.50 LAP 3.16 LOP 144.72 VP 37.686 GAP 8.20 AZP 88.36 TAL 169.51 TAP 52.00 RCA 100.43 APO 152.60 V2 35.253
RC 140.023 GL -27.32 GP 2.56 ZAL 72.53 ZAP 158.82 ETS 6.66 ZAE 129.34 ETE 178.25 ZAC 98.66 ETC 14.85 CLP-158.96

PLANETOCENTRIC CONIC

C3 12.728 VHL 3.568 DLA -29.65 RAL 179.16 RAD 6567.5 VEL 11.581 PTH 2.03 VHP 5.707 DPA 11.09 RAP 169.27 ECC 1.2095

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.81	10 35 14	1032.64	22.96	335.87	41.04	109.29	10 52 27	432.6	25.38	327.93
99.19	13 5 38	5835.19	22.98	278.11	41.04	109.28	14 42 53	5235.2	25.39	270.17
100.00	12 39 59	629.16	20.69	305.36	40.11	112.07	12 50 28	29.2	23.50	297.69
100.00	13 43 34	5713.90	25.29	269.92	41.86	106.50	15 18 48	5113.9	27.31	261.71
110.00	12 8 11	729.42	13.10	308.88	36.08	121.86	12 20 21	129.4	17.21	302.19
110.00	16 31 51	5186.41	33.64	231.89	43.81	96.49	17 58 17	4586.4	34.17	222.69

DIFFERENTIAL CORRECTIONS
TDE-2.2200 TRA .9460 TC3-5.5324 BAU .9422
RDE .1936 RRA .0602 RC3 -.2217 FAU .05058
FDE-1.7976 FRA 1.2406 FC3-3.4403 BSP 17632
BDE 2.2284 BRA .9479 BC3 5.5368 FSP -1249

MID-COURSE EXECUTION ACCURACY
SGT 5599.1 SGR 366.2 SG3 382.7
RRT -.1412 RRF -.1567 RTF .9674
SGB 5611.1 R23 .0197 R13 -.9674
SG1 5599.4 SG2 362.5 THA 179.47

ORBIT DETERMINATION ACCURACY
ST 3605.6 SR 312.7 SS 1463.9
CRT -.9670 CRS .9417 CST -.9961
LSA 3901.3 MSA 144.4 SSA 17.9
EL1 3618.3 EL2 79.4 ALF 175.20

LAUNCH DATE JUN 14 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 15 1967

HELIOCENTRIC CONIC DISTANCE 522.585

RL 151.94 LAL -.00 LOL 262.28 VL 26.384 GAL 3.06 AZL 93.53 HCA 245.74 SMA 126.30 ECC .20968 INC 3.5331 V1 29.322
RP 107.51 LAP 3.22 LOP 147.98 VP 37.658 GAP 8.59 AZP 88.55 TAL 168.30 TAP 54.03 RCA 99.82 APO 152.78 V2 35.249
RC 142.165 GL -26.41 GP 2.40 ZAL 70.16 ZAP 160.20 ETS 6.61 ZAE 128.91 ETE 178.45 ZAC 96.89 ETC 14.57 CLP-160.34

PLANETOCENTRIC CONIC

C3 13.324 VHL 3.650 DLA -29.84 RAL 181.95 RAD 6567.5 VEL 11.606 PTH 2.03 VHP 5.907 DPA 10.20 RAP 170.96 ECC 1.2193

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.17	10 41 25	1058.26	22.88	337.74	44.57	109.70	10 59 4	458.3	25.35	329.82
99.83	13 21 40	5829.31	22.89	277.64	44.57	109.68	14 58 50	5229.3	25.36	269.72
100.00	13 8 7	5872.60	21.81	280.42	44.14	110.97	14 46 0	5272.6	24.46	272.63
100.00	13 37 40	5778.24	23.97	274.25	44.98	108.41	15 13 58	5178.2	26.26	266.20
110.00	12 22 1	730.19	13.07	308.92	39.59	121.87	12 34 11	130.2	17.19	302.23
110.00	16 40 15	5205.37	33.48	233.35	47.45	97.34	18 7 0	4605.4	34.13	224.17

DIFFERENTIAL CORRECTIONS
TDE-2.2814 TRA 1.1158 TC3-5.3695 BAU .9572
RDE .2062 RRA .0636 RC3 -.2140 FAU .04680
FDE-1.7107 FRA 1.2825 FC3-3.0406 BSP 17945
BDE 2.2907 BRA 1.1176 BC3 5.3737 FSP -1188

MID-COURSE EXECUTION ACCURACY
SGT 5680.4 SGR 377.4 SG3 361.7
RRT -.1466 RRF -.1615 RTF .9674
SGB 5692.9 R23 .0193 R13 -.9674
SG1 5680.7 SG2 373.3 THA 179.44

ORBIT DETERMINATION ACCURACY
ST 3633.8 SR 325.6 SS 1416.1
CRT -.9617 CRS .9352 CST -.9963
LSA 3910.8 MSA 145.7 SSA 18.1
EL1 3647.3 EL2 89.0 ALF 175.07

LAUNCH DATE JUN 14 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 17 1967

HELIOCENTRIC CONIC DISTANCE 528.432

RL 151.94 LAL -.00 LOL 262.28 VL 26.349 GAL 3.45 AZL 93.51 HCA 248.99 SMA 126.08 ECC .21343 INC 3.5100 V1 29.322
RP 107.52 LAP 3.28 LOP 151.23 VP 37.630 GAP 8.99 AZP 88.74 TAL 167.07 TAP 56.05 RCA 99.17 APO 152.99 V2 35.245
RC 144.295 GL -25.47 GP 2.26 ZAL 67.79 ZAP 161.52 ETS 6.60 ZAE 128.52 ETE 178.62 ZAC 95.06 ETC 14.31 CLP-161.66

PLANETOCENTRIC CONIC

C3 14.017 VHL 3.744 DLA -29.99 RAL 184.74 RAD 6567.6 VEL 11.636 PTH 2.04 VHP 6.113 DPA 9.31 RAP 172.69 ECC 1.2307

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.70	10 48 57	1080.83	22.73	339.36	48.17	110.11	11 6 58	480.8	25.26	331.47
100.30	13 36 24	5828.90	22.74	277.55	48.17	110.09	15 13 33	5228.9	25.27	269.66
79.70	10 48 57	1080.83	22.73	339.36	48.17	110.11	11 6 58	480.8	25.26	331.47
100.30	13 36 24	5828.90	22.74	277.55	48.17	110.09	15 13 33	5228.9	25.27	269.66
110.00	12 35 17	734.12	12.93	309.14	43.15	121.92	12 47 31	134.1	17.05	302.46
110.00	16 49 14	5223.61	33.31	234.75	51.18	98.15	18 16 18	4623.6	34.08	225.59

DIFFERENTIAL CORRECTIONS
TDE-2.3403 TRA 1.2975 TC3-5.1755 BAU .9706
RDE .2201 RRA .0663 RC3 -.2035 FAU .04320
FDE-1.6276 FRA 1.3229 FC3-2.6680 BSP 18204
BDE 2.3506 BRA 1.2992 BC3 5.1795 FSP -1127

MID-COURSE EXECUTION ACCURACY
SGT 5753.3 SGR 387.8 SG3 341.9
RRT -.1557 RRF -.1700 RTF .9673
SGB 5766.4 R23 .0190 R13 -.9673
SG1 5753.7 SG2 383.0 THA 179.40

ORBIT DETERMINATION ACCURACY
ST 3648.7 SR 338.7 SS 1367.1
CRT -.9562 CRS .9286 CST -.9964
LSA 3908.2 MSA 148.1 SSA 18.1
EL1 3663.0 EL2 98.8 ALF 174.92

LAUNCH DATE JUN 14 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 19 1967

HELIOCENTRIC CONIC DISTANCE 534.248

RL 151.94 LAL -.00 LOL 262.28 VL 26.314 GAL 3.86 AZL 93.49 HCA 252.23 SMA 125.86 ECC .21746 INC 3.4878 V1 29.322
RP 107.53 LAP 3.32 LOP 154.48 VP 37.601 GAP 9.40 AZP 88.93 TAL 165.82 TAP 58.05 RCA 98.49 APO 153.23 V2 35.240
RC 146.414 GL -24.51 GP 2.14 ZAL 65.43 ZAP 162.80 ETS 6.62 ZAE 128.17 ETE 178.76 ZAC 93.18 ETC 14.07 CLP-162.93

PLANETOCENTRIC CONIC

C3 14.819 VHL 3.850 DLA -30.09 RAL 187.51 RAD 6567.6 VEL 11.671 PTH 2.05 VHP 6.327 DPA 8.40 RAP 174.47 ECC 1.2439

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.38	10 57 39	1100.72	22.51	340.75	51.83	110.51	11 16 0	500.7	25.10	332.90
100.62	13 49 51	5833.65	22.52	277.82	51.83	110.49	15 27 5	5233.7	25.11	269.96
79.38	10 57 39	1100.72	22.51	340.75	51.83	110.51	11 16 0	500.7	25.10	332.90
100.62	13 49 51	5833.65	22.52	277.82	51.83	110.49	15 27 5	5233.7	25.11	269.96
110.00	12 47 52	741.43	12.66	309.54	46.74	122.02	13 0 13	141.4	16.80	302.88
110.00	16 58 49	5240.93	33.14	236.07	54.98	98.91	18 26 10	4640.9	34.01	226.94

DIFFERENTIAL CORRECTIONS
TDE-2.3944 TRA 1.4939 TC3-4.9500 BAU .9814
RDE .2351 RRA .0680 RC3 -.1910 FAU .03970
FDE-1.5469 FRA 1.3638 FC3-2.3195 BSP 18379
BDE 2.4059 BRA 1.4955 BC3 4.9537 FSP -1065

MID-COURSE EXECUTION ACCURACY
SGT 5816.2 SGR 397.2 SG3 323.2
RRT -.1672 RRF -.1809 RTF .9670
SGB 5829.8 R23 .0187 R13 -.9670
SG1 5816.6 SG2 391.5 THA 179.34

ORBIT DETERMINATION ACCURACY
ST 3648.0 SR 351.7 SS 1316.5
CRT -.9505 CRS .9218 CST -.9965
LSA 3891.2 MSA 151.8 SSA 18.0
EL1 3663.3 EL2 108.8 ALF 174.76

LAUNCH DATE JUN 14 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 21 1967

DISTANCE 540.028

HELIOCENTRIC CONIC
RL 151.94 LAL -.00 LOL 262.28 VL 26.279 GAL 4.29 AZL 93.47 HCA 255.47 SMA 125.64 ECC .22177 INC 3.4664 V1 29.322
RP 107.55 LAP 3.36 LOP 157.73 VP 37.571 GAP 9.81 AZP 89.13 TAL 164.57 TAP 60.05 RCA 97.78 APO 153.50 V2 35.234
RC 148.521 GL -23.54 GP 2.03 ZAL 63.10 ZAP 164.04 ETS 6.68 ZAE 127.84 ETE 178.89 ZAC 91.26 ETC 13.86 CLP-164.16

PLANETOCENTRIC CONIC
C3 15.742 VHL 3.968 DLA -30.14 RAL 190.26 RAD 6567.6 VEL 11.710 PTH 2.06 VHP 6.551 DPA 7.49 RAP 176.28 ECC 1.2591

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.22	11 7 24	1118.23	22.22	341.94	55.53	110.91	11 26 2	518.2	24.86	334.12
100.78	14 2 4	5843.30	22.23	278.42	55.53	110.89	15 39 27	5243.3	24.88	270.60
79.22	11 7 24	1118.23	22.22	341.94	55.53	110.91	11 26 2	518.2	24.86	334.12
100.78	14 2 4	5843.30	22.23	278.42	55.53	110.89	15 39 27	5243.3	24.88	270.60
110.00	12 59 39	752.33	12.27	310.14	50.34	122.16	13 12 11	152.3	16.43	303.50
110.00	17 8 59	5257.20	32.96	237.31	58.83	99.62	18 36 37	4657.2	33.94	228.20

DIFFERENTIAL CORRECTIONS
TDE-2.4502 TRA 1.6990 TC3-4.7143 BAU .9929
RDE .2513 RRA .0688 RC3 -.1766 FAU .03657
FDE-1.4743 FRA 1.4001 FC3-2.0113 BSP 18623
BDE 2.4631 BRA 1.7004 BC3 4.7176 FSP -1014

MID-COURSE EXECUTION ACCURACY
SGT 5879.0 SGR 405.7 SG3 306.0
RRT -.1819 RRF -.1951 RTF .9670
SGB 5893.0 R23 .0187 R13 -.9670
SG1 5879.4 SG2 398.9 THA 179.28

ORBIT DETERMINATION ACCURACY
ST 3640.9 SR 364.6 SS 1268.9
CRT -.9449 CRS .9154 CST -.9966
LSA 3869.7 MSA 156.0 SSA 17.8
EL1 3657.2 EL2 118.8 ALF 174.59

LAUNCH DATE JUN 14 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 23 1967

DISTANCE 545.770

HELIOCENTRIC CONIC
RL 151.94 LAL -.00 LOL 262.28 VL 26.244 GAL 4.74 AZL 93.45 HCA 258.72 SMA 125.42 ECC .22639 INC 3.4457 V1 29.322
RP 107.57 LAP 3.38 LOP 160.97 VP 37.541 GAP 10.25 AZP 89.33 TAL 163.32 TAP 62.03 RCA 97.03 APO 153.81 V2 35.228
RC 150.615 GL -22.55 GP 1.93 ZAL 60.80 ZAP 165.23 ETS 6.79 ZAE 127.54 ETE 178.99 ZAC 89.31 ETC 13.66 CLP-165.36

PLANETOCENTRIC CONIC
C3 16.802 VHL 4.099 DLA -30.15 RAL 192.98 RAD 6567.7 VEL 11.755 PTH 2.07 VHP 6.783 DPA 6.57 RAP 178.12 ECC 1.2765

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.20	11 18 6	1133.48	21.86	342.93	59.26	111.29	11 37 0	533.5	24.56	335.15
100.80	14 13 1	5857.78	21.87	279.35	59.27	111.28	15 50 39	5257.8	24.57	271.57
79.20	11 18 6	1133.48	21.86	342.93	59.26	111.29	11 37 0	533.5	24.56	335.15
100.80	14 13 1	5857.78	21.87	279.35	59.27	111.28	15 50 39	5257.8	24.57	271.57
110.00	13 10 35	766.87	11.74	310.93	53.93	122.34	13 23 21	166.9	15.93	304.33
110.00	17 19 43	5272.39	32.78	238.45	62.73	100.28	18 47 35	4672.4	33.85	229.38

DIFFERENTIAL CORRECTIONS
TDE-2.5040 TRA 1.9165 TC3-4.4614 BAU 1.0028
RDE .2686 RRA .0686 RC3 -.1613 FAU .03361
FDE-1.4056 FRA 1.4352 FC3-1.7316 BSP 18854
BDE 2.5183 BRA 1.9178 BC3 4.4644 FSP -966

MID-COURSE EXECUTION ACCURACY
SGT 5935.0 SGR 413.2 SG3 289.9
RRT -.1987 RRF -.2113 RTF .9670
SGB 5949.4 R23 .0186 R13 -.9670
SG1 5935.6 SG2 405.0 THA 179.20

ORBIT DETERMINATION ACCURACY
ST 3622.9 SR 377.0 SS 1221.9
CRT -.9393 CRS .9090 CST -.9967
LSA 3838.6 MSA 160.9 SSA 17.5
EL1 3640.2 EL2 128.7 ALF 174.41

LAUNCH DATE JUN 14 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 25 1967

DISTANCE 551.470

HELIOCENTRIC CONIC
RL 151.94 LAL -.00 LOL 262.28 VL 26.209 GAL 5.22 AZL 93.43 HCA 261.96 SMA 125.20 ECC .23135 INC 3.4254 V1 29.322
RP 107.59 LAP 3.39 LOP 164.22 VP 37.510 GAP 10.69 AZP 89.52 TAL 162.05 TAP 64.01 RCA 96.24 APO 154.17 V2 35.221
RC 152.696 GL -21.56 GP 1.84 ZAL 58.55 ZAP 166.40 ETS 6.96 ZAE 127.26 ETE 179.07 ZAC 87.31 ETC 13.49 CLP-166.52

PLANETOCENTRIC CONIC
C3 18.017 VHL 4.245 DLA -30.11 RAL 195.64 RAD 6567.7 VEL 11.807 PTH 2.09 VHP 7.027 DPA 5.64 RAP 179.99 ECC 1.2965

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.32	11 29 39	1146.72	21.43	343.73	63.02	111.67	11 48 45	546.7	24.18	336.00
100.68	14 22 43	5876.85	21.44	280.59	63.02	111.65	16 0 40	5276.9	24.19	272.85
79.32	11 29 39	1146.72	21.43	343.73	63.02	111.67	11 48 45	546.7	24.18	336.00
100.68	14 22 43	5876.85	21.44	280.59	63.02	111.65	16 0 40	5276.9	24.19	272.85
110.00	13 20 36	785.03	11.08	311.92	57.51	122.55	13 33 41	185.0	15.29	305.35
110.00	17 30 57	5286.54	32.60	239.52	66.67	100.89	18 59 3	4686.5	33.76	230.48

DIFFERENTIAL CORRECTIONS
TDE-2.5552 TRA 2.1479 TC3-4.1956 BAU 1.0112
RDE .2870 RRA .0671 RC3 -.1454 FAU .03080
FDE-1.3408 FRA 1.4698 FC3-1.4802 BSP 19055
BDE 2.5713 BRA 2.1490 BC3 4.1981 FSP -920

MID-COURSE EXECUTION ACCURACY
SGT 5984.6 SGR 419.9 SG3 274.8
RRT -.2170 RRF -.2289 RTF .9670
SGB 5999.3 R23 .0186 R13 -.9670
SG1 5985.3 SG2 409.8 THA 179.12

ORBIT DETERMINATION ACCURACY
ST 3594.3 SR 388.7 SS 1175.8
CRT -.9335 CRS .9025 CST -.9968
LSA 3798.0 MSA 166.5 SSA 17.1
EL1 3612.6 EL2 138.6 ALF 174.23

LAUNCH DATE JUN 14 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 27 1967

DISTANCE 557.125

HELIOCENTRIC CONIC
RL 151.94 LAL -.00 LOL 262.28 VL 26.174 GAL 5.73 AZL 93.41 HCA 265.20 SMA 124.98 ECC .23669 INC 3.4055 V1 29.322
RP 107.62 LAP 3.39 LOP 167.47 VP 37.478 GAP 11.16 AZP 89.71 TAL 160.79 TAP 65.98 RCA 95.40 APO 154.57 V2 35.214
RC 154.762 GL -20.56 GP 1.76 ZAL 56.34 ZAP 167.53 ETS 7.20 ZAE 127.00 ETE 179.14 ZAC 85.29 ETC 13.34 CLP-167.66

PLANETOCENTRIC CONIC
C3 19.406 VHL 4.405 DLA -30.02 RAL 198.25 RAD 6567.8 VEL 11.865 PTH 2.10 VHP 7.282 DPA 4.70 RAP 181.89 ECC 1.3194

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.59	11 42 1	1157.85	20.93	344.35	66.78	112.03	12 1 19	557.8	23.74	336.66
100.41	14 31 7	612.59	20.94	304.24	66.78	112.02	14 41 20	12.6	23.75	296.55
79.59	11 42 1	1157.85	20.93	344.35	66.78	112.03	12 1 19	557.8	23.74	336.66
100.41	14 31 7	612.59	20.94	304.24	66.78	112.02	14 41 20	12.6	23.75	296.55
110.00	13 29 43	806.71	10.28	313.10	61.06	122.78	13 43 9	206.7	14.53	306.57
110.00	17 42 36	5299.76	32.43	240.51	70.64	101.45	19 10 56	4699.8	33.67	231.50

DIFFERENTIAL CORRECTIONS
TDE-2.6013 TRA 2.3972 TC3-3.9134 BAU 1.0158
RDE .3062 RRA .0644 RC3 -.1297 FAU .02802
FDE-1.2771 FRA 1.5066 FC3-1.2502 BSP 19151
BDE 2.6192 BRA 2.3980 BC3 3.9156 FSP -871

MID-COURSE EXECUTION ACCURACY
SGT 6025.1 SGR 425.4 SG3 260.6
RRT -.2361 RRF -.2469 RTF .9668
SGB 6040.1 R23 .0181 R13 -.9669
SG1 6026.0 SG2 413.4 THA 179.04

ORBIT DETERMINATION ACCURACY
ST 3553.1 SR 399.3 SS 1129.2
CRT -.9273 CRS .8954 CST -.9968
LSA 3745.6 MSA 173.1 SSA 16.7
EL1 3572.4 EL2 148.6 ALF 174.04

LAUNCH DATE JUN 14 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 29 1967

HELIOCENTRIC CONIC DISTANCE 562.728

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.138 GAL   6.26 AZL  93.39 HCA 268.44 SMA 124.77 ECC .24243 INC 3.3857 V1  29.322
RP  107.64 LAP   3.38 LOP 170.71 VP  37.446 GAP  11.64 AZP  89.91 TAL 159.52 TAP  67.96 RCA  94.52 APO 155.02 V2  35.205
RC 156.813 GL  -19.57 GP    1.69 ZAL  54.20 ZAP 168.64 ETS   7.52 ZAE 126.75 ETE 179.20 ZAC  83.25 ETC  13.21 CLP-168.77
```

PLANETOCENTRIC CONIC

```
C3  20.993 VHL  4.582 DLA -29.89 RAL 200.78 RAO 6567.9 VEL 11.932 PTH   2.12 VHP  7.551 DPA   3.76 RAP 183.80 ECC 1.3455
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.99	11 55 11	1166.81	20.37	344.77	70.54	112.37	12 14 38	566.8	23.22	337.14
100.01	14 38 9	641.12	20.38	306.12	70.54	112.36	14 48 50	41.1	23.23	298.48
79.99	11 55 11	1166.81	20.37	344.77	70.54	112.37	12 14 38	566.8	23.22	337.14
100.01	14 38 9	641.12	20.38	306.12	70.54	112.36	14 48 50	41.1	23.23	298.48
110.00	13 37 56	831.76	9.35	314.44	64.57	123.03	13 51 47	231.8	13.64	307.97
110.00	17 54 35	5312.21	32.26	241.44	74.63	101.98	19 23 7	4712.2	33.57	232.46

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.6501 TRA 2.6567 TC3-3.6367 BAU 1.0212   SGT 6064.0 SGR  430.2 SG3  247.4      ST  3509.1 SR   409.0 SS  1086.8
RDE  .3264 RRA  .0604 RC3 -.1141 FAU .02554   RRT -.2571 RRF -.2669 RTF  .9670      CRT -.9213 CRS  .8888 CST -.9969
FDE-1.2208 FRA 1.5400 FC3-1.0532 BSP  19336   SGB 6079.3 R23  .0178 R13 -.9670      LSA 3691.9 MSA  179.4 SSA   16.3
BDE 2.6701 BRA 2.6574 BC3 3.6384 FSP   -831   SG1 6065.1 SG2  415.7 THA 178.95      EL1 3529.3 EL2  158.1 ALF 173.86
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 200.00 ARRIVAL DATE DEC 31 1967

HELIOCENTRIC CONIC DISTANCE 568.273

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.103 GAL   6.83 AZL  93.37 HCA 271.68 SMA 124.55 ECC .24862 INC 3.3661 V1  29.322
RP  107.67 LAP   3.36 LOP 173.96 VP  37.413 GAP  12.14 AZP  90.10 TAL 158.26 TAP  69.93 RCA  93.59 APO 155.52 V2  35.197
RC 158.850 GL  -18.58 GP    1.62 ZAL  52.11 ZAP 169.73 ETS   7.96 ZAE 126.52 ETE 179.24 ZAC  81.18 ETC  13.11 CLP-169.86
```

PLANETOCENTRIC CONIC

```
C3  22.807 VHL  4.776 DLA -29.73 RAL 203.23 RAO 6567.9 VEL 12.008 PTH   2.14 VHP  7.834 DPA   2.81 RAP 185.73 ECC 1.3753
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.55	12 9 17	1173.06	19.74	344.96	74.28	112.69	12 28 50	573.1	22.64	337.38
99.45	14 43 38	674.93	19.75	308.35	74.29	112.68	14 54 53	74.9	22.65	300.77
100.00	14 21 23	746.01	17.54	312.60	73.27	114.60	14 33 49	146.0	20.71	305.25
100.00	15 14 12	5865.25	21.98	279.95	75.24	110.78	16 51 58	5265.3	24.61	272.14
110.00	13 45 17	899.94	8.31	315.95	68.04	123.28	13 59 37	259.9	12.63	309.52
110.00	18 6 48	5324.09	32.09	242.33	78.62	102.48	19 35 32	4724.1	33.47	233.37

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.6977 TRA 2.9319 TC3-3.3579 BAU 1.0243   SGT 6096.6 SGR  434.0 SG3  235.0      ST  3458.5 SR   417.4 SS  1046.3
RDE  .3474 RRA  .0549 RC3 -.0991 FAU .02317   RRT -.2790 RRF -.2877 RTF  .9672      CRT -.9151 CRS  .8820 CST -.9970
FDE-1.1679 FRA 1.5736 FC3 -.8797 BSP  19502   SGB 6112.1 R23  .0173 R13 -.9672      LSA 3632.5 MSA  185.9 SSA   15.8
BDE 2.7199 BRA 2.9324 BC3 3.3594 FSP   -793   SG1 6097.9 SG2  416.7 THA 178.86      EL1 3479.5 EL2  167.3 ALF 173.68
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 202.00 ARRIVAL DATE JAN 2 1968

HELIOCENTRIC CONIC DISTANCE 573.755

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.068 GAL   7.43 AZL  93.35 HCA 274.91 SMA 124.34 ECC .25530 INC 3.3464 V1  29.322
RP  107.70 LAP   3.33 LOP 177.20 VP  37.380 GAP  12.67 AZP  90.29 TAL 157.00 TAP  71.91 RCA  92.60 APO 156.08 V2  35.187
RC 160.871 GL  -17.61 GP    1.56 ZAL  50.09 ZAP 170.80 ETS   8.54 ZAE 126.29 ETE 179.28 ZAC  79.10 ETC  13.03 CLP-170.93
```

PLANETOCENTRIC CONIC

```
C3  24.880 VHL  4.988 DLA -29.52 RAL 205.60 RAO 6568.0 VEL 12.094 PTH   2.16 VHP  8.134 DPA   1.86 RAP 187.67 ECC 1.4095
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.28	12 24 20	1176.41	19.05	344.89	78.01	112.99	12 43 56	576.4	22.00	337.37
98.72	14 47 28	714.16	19.06	310.95	78.02	112.98	14 59 23	114.2	22.01	303.42
100.00	14 17 46	809.26	15.70	316.41	76.42	115.77	14 31 15	209.3	19.04	309.20
100.00	15 36 44	5844.58	22.48	278.61	79.46	110.24	17 14 8	5244.6	25.03	270.75
110.00	13 51 49	891.01	7.14	317.60	71.46	123.52	14 6 40	291.0	11.50	311.22
110.00	18 19 10	5335.60	31.91	243.18	82.62	102.95	19 48 5	4735.6	33.37	234.25

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.7443 TRA 3.2241 TC3-3.0807 BAU 1.0251   SGT 6123.5 SGR  436.9 SG3  223.4      ST  3402.4 SR   424.4 SS  1008.0
RDE  .3691 RRA  .0478 RC3 -.0850 FAU .02091   RRT -.3017 RRF -.3091 RTF  .9675      CRT -.9087 CRS  .8751 CST -.9971
FDE-1.1187 FRA 1.6079 FC3 -.7276 BSP  19646   SGB 6139.0 R23  .0167 R13 -.9675      LSA 3568.6 MSA  192.4 SSA   15.3
BDE 2.7690 BRA 3.2245 BC3 3.0819 FSP   -757   SG1 6124.9 SG2  416.5 THA 178.76      EL1 3424.2 EL2  176.1 ALF 173.52
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 204.00 ARRIVAL DATE JAN 4 1968

HELIOCENTRIC CONIC DISTANCE 579.164

```
RL  151.94 LAL   -.00 LOL 262.28 VL  26.033 GAL   8.07 AZL  93.33 HCA 278.14 SMA 124.13 ECC .26253 INC 3.3264 V1  29.322
RP  107.73 LAP   3.29 LOP 180.44 VP  37.346 GAP  13.23 AZP  90.47 TAL 155.75 TAP  73.89 RCA  91.54 APO 156.72 V2  35.178
RC 162.878 GL  -16.65 GP    1.51 ZAL  48.15 ZAP 171.85 ETS   9.32 ZAE 126.07 ETE 179.30 ZAC  77.01 ETC  12.98 CLP-171.99
```

PLANETOCENTRIC CONIC

```
C3  27.250 VHL  5.220 DLA -29.28 RAL 207.88 RAO 6568.1 VEL 12.191 PTH   2.19 VHP  8.452 DPA    .91 RAP 189.63 ECC 1.4485
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.21	12 40 41	1175.62	18.30	344.50	81.71	113.27	13 0 17	575.6	21.29	337.03
97.79	14 49 17	760.00	18.32	314.01	81.72	113.25	15 1 57	160.0	21.31	306.53
100.00	14 15 43	867.66	13.94	319.85	79.60	116.71	14 30 11	267.7	17.42	312.78
100.00	15 56 57	5831.23	22.79	277.74	83.61	109.89	17 34 8	5231.2	25.29	269.84
110.00	13 57 36	924.70	5.87	319.39	74.83	123.74	14 13 1	324.7	10.26	313.05
110.00	18 31 33	5346.95	31.74	244.02	86.61	103.42	20 0 40	4747.0	33.26	235.12

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.7904 TRA 3.5347 TC3-2.8074 BAU 1.0231   SGT 6144.6 SGR  438.9 SG3  212.5      ST  3341.9 SR   429.9 SS   972.3
RDE  .3914 RRA  .0392 RC3 -.0720 FAU .01875   RRT -.3249 RRF -.3311 RTF  .9679      CRT -.9020 CRS  .8681 CST -.9972
FDE-1.0732 FRA 1.6431 FC3 -.5958 BSP  19762   SGB 6160.2 R23  .0160 R13 -.9679      LSA 3501.3 MSA  198.7 SSA   14.9
BDE 2.8177 BRA 3.5349 BC3 2.8083 FSP   -722   SG1 6146.2 SG2  415.0 THA 178.66      EL1 3364.4 EL2  184.3 ALF 173.36
```

LAUNCH DATE JUN 14 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 6 1968

DISTANCE 584.491

HELIOCENTRIC CONIC
RL 151.94 LAL -.00 LOL 262.28 VL 25.999 GAL 8.75 AZL 93.31 HCA 281.38 SMA 123.92 ECC .27036 INC 3.3062 V1 29.322
RP 107.76 LAP 3.24 LOP 183.67 VP 37.312 GAP 13.82 AZP 90.65 TAL 154.51 TAP 75.89 RCA 90.42 APO 157.42 V2 35.167
RC 164.869 GL -15.71 GP 1.46 ZAL 46.28 ZAP 172.89 ETS 10.39 ZAE 125.86 ETE 179.32 ZAC 74.90 ETC 12.95 CLP-173.04

PLANETOCENTRIC CONIC
C3 29.965 VHL 5.474 DLA -29.02 RAL 210.06 RAD 6568.2 VEL 12.302 PTH 2.22 VHP 8.792 DPA -.04 RAP 191.60 ECC 1.4931

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.39	12 58 53	1168.81	17.51	343.64	85.38	113.51	13 18 22	568.8	20.54	336.22
96.61	14 48 30	814.23	17.52	317.64	85.39	113.50	15 2 5	214.2	20.55	310.23
100.00	14 14 16	924.25	12.19	323.14	82.76	117.51	14 29 41	324.3	15.78	316.18
100.00	16 15 48	5822.06	23.00	277.14	87.70	109.64	17 52 50	5222.1	25.47	269.21
110.00	14 2 41	960.75	4.50	321.28	78.15	123.92	14 18 41	360.7	8.93	314.99
110.00	18 43 53	5358.34	31.55	244.86	90.59	103.88	20 13 12	4758.3	33.14	235.99

DIFFERENTIAL CORRECTIONS
TDE-2.8342 TRA 3.8668 TC3-2.5377 BAU 1.0169
RDE .4143 RRA .0287 RC3 -.0603 FAU .01663
FDE-1.0297 FRA 1.6808 FC3 -.4804 BSP 19799
BDE 2.8644 BRA 3.8669 BC3 2.5384 FSP -686

MID-COURSE EXECUTION ACCURACY
SGT 6159.5 SGR 439.9 SG3 202.4
RRT -.3484 RRF -.3529 RTF .9683
SGB 6175.2 R23 .0149 R13 -.9684
SG1 6161.4 SG2 412.2 THA 178.57

ORBIT DETERMINATION ACCURACY
ST 3276.5 SR 433.7 SS 938.4
CRT -.8950 CRS .8605 CST -.9973
LSA 3429.5 MSA 204.9 SSA 14.4
EL1 3299.5 EL2 192.1 ALF 173.22

LAUNCH DATE JUN 14 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 8 1968

DISTANCE 589.723

HELIOCENTRIC CONIC
RL 151.94 LAL -.00 LOL 262.28 VL 25.964 GAL 9.48 AZL 93.29 HCA 284.61 SMA 123.71 ECC .27885 INC 3.2856 V1 29.322
RP 107.79 LAP 3.18 LOP 186.91 VP 37.278 GAP 14.45 AZP 90.83 TAL 153.29 TAP 77.90 RCA 89.21 APO 158.21 V2 35.156
RC 166.846 GL -14.79 GP 1.41 ZAL 44.49 ZAP 173.92 ETS 11.90 ZAE 125.64 ETE 179.33 ZAC 72.80 ETC 12.95 CLP-174.08

PLANETOCENTRIC CONIC
C3 33.079 VHL 5.751 DLA -28.72 RAL 212.14 RAD 6568.3 VEL 12.428 PTH 2.25 VHP 9.154 DPA -.98 RAP 193.57 ECC 1.5444

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.01	13 20 17	1151.47	16.66	341.97	89.01	113.73	13 39 28	551.5	19.73	334.61
94.99	14 43 44	881.29	16.68	322.19	89.02	113.72	14 58 25	281.3	19.74	314.83
100.00	14 13 5	980.06	10.41	326.33	85.88	118.18	14 29 25	380.1	14.10	319.48
100.00	16 33 37	5815.97	23.14	276.75	91.74	109.47	18 10 33	5216.0	25.58	268.80
110.00	14 7 6	998.89	3.05	323.28	81.42	124.06	14 23 45	398.9	7.50	317.02
110.00	18 56 6	5369.90	31.36	245.70	94.55	104.35	20 25 35	4769.9	33.01	236.87

DIFFERENTIAL CORRECTIONS
TDE-2.8826 TRA 4.2163 TC3-2.2816 BAU 1.0092
RDE .4377 RRA .0164 RC3 -.0498 FAU .01467
FDE -.9918 FRA 1.7182 FC3 -.3840 BSP 19907
BDE 2.9156 BRA 4.2164 BC3 2.2821 FSP -656

MID-COURSE EXECUTION ACCURACY
SGT 6170.3 SGR 440.1 SG3 192.8
RRT -.3728 RRF -.3757 RTF .9690
SGB 6186.0 R23 .0139 R13 -.9691
SG1 6172.5 SG2 408.3 THA 178.47

ORBIT DETERMINATION ACCURACY
ST 3212.0 SR 436.0 SS 908.5
CRT -.8881 CRS .8536 CST -.9974
LSA 3359.8 MSA 210.3 SSA 14.0
EL1 3235.4 EL2 199.0 ALF 173.10

LAUNCH DATE JUN 14 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 10 1968

DISTANCE 594.846

HELIOCENTRIC CONIC
RL 151.94 LAL -.00 LOL 262.28 VL 25.930 GAL 10.25 AZL 93.26 HCA 287.83 SMA 123.51 ECC .28810 INC 3.2643 V1 29.322
RP 107.83 LAP 3.11 LOP 190.14 VP 37.244 GAP 15.11 AZP 91.00 TAL 152.10 TAP 79.93 RCA 87.93 APO 159.09 V2 35.145
RC 168.808 GL -13.89 GP 1.37 ZAL 42.78 ZAP 174.94 ETS 14.09 ZAE 125.41 ETE 179.34 ZAC 70.69 ETC 12.97 CLP-175.13

PLANETOCENTRIC CONIC
C3 36.658 VHL 6.055 DLA -28.40 RAL 214.12 RAD 6568.4 VEL 12.571 PTH 2.28 VHP 9.544 DPA -1.91 RAP 195.54 ECC 1.6033

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
87.78	13 51 14	1102.85	15.78	338.00	92.60	113.92	14 9 37	502.9	18.88	330.69
92.22	14 28 35	981.79	15.79	329.15	92.60	113.91	14 44 57	381.8	18.89	321.84
100.00	14 11 59	1035.52	8.61	329.46	88.97	118.74	14 29 14	435.5	12.38	322.70
100.00	16 50 32	5812.39	23.22	276.51	95.73	109.37	18 27 24	5212.4	25.65	268.55
110.00	14 10 54	1038.90	1.53	325.37	84.63	124.15	14 28 13	438.9	6.00	319.14
110.00	19 8 6	5381.77	31.16	246.57	98.47	104.83	20 37 47	4781.8	32.88	237.77

DIFFERENTIAL CORRECTIONS
TDE-2.9326 TRA 4.5886 TC3-2.0353 BAU .9977
RDE .4615 RRA .0023 RC3 -.0406 FAU .01279
FDE -.9575 FRA 1.7578 FC3 -.3019 BSP 19987
BDE 2.9687 BRA 4.5886 BC3 2.0357 FSP -627

MID-COURSE EXECUTION ACCURACY
SGT 6175.9 SGR 439.5 SG3 183.9
RRT -.3975 RRF -.3989 RTF .9699
SGB 6191.5 R23 .0128 R13 -.9699
SG1 6178.4 SG2 403.1 THA 178.37

ORBIT DETERMINATION ACCURACY
ST 3146.5 SR 436.7 SS 881.5
CRT -.8811 CRS .8466 CST -.9975
LSA 3289.6 MSA 215.0 SSA 13.5
EL1 3170.0 EL2 205.0 ALF 173.00

LAUNCH DATE JUN 14 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 12 1968

DISTANCE 599.842

HELIOCENTRIC CONIC
RL 151.94 LAL -.00 LOL 262.28 VL 25.896 GAL 11.09 AZL 93.24 HCA 291.06 SMA 123.31 ECC .29818 INC 3.2423 V1 29.322
RP 107.86 LAP 3.03 LOP 193.37 VP 37.209 GAP 15.83 AZP 91.17 TAL 150.93 TAP 81.99 RCA 86.54 APO 160.08 V2 35.134
RC 170.755 GL -13.01 GP 1.34 ZAL 41.15 ZAP 175.95 ETS 17.49 ZAE 125.18 ETE 179.34 ZAC 68.59 ETC 13.03 CLP-176.17

PLANETOCENTRIC CONIC
C3 40.784 VHL 6.386 DLA -28.05 RAL 216.00 RAD 6568.6 VEL 12.734 PTH 2.32 VHP 9.963 DPA -2.84 RAP 197.52 ECC 1.6712

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 43 24	1179.66	11.80	341.72	94.67	115.93	14 3 4	579.7	15.19	334.68
90.00	14 51 24	958.87	17.97	328.44	97.52	112.26	15 7 23	358.9	20.83	320.94
100.00	14 10 52	1090.84	6.79	332.56	92.02	119.18	14 29 3	490.8	10.63	325.87
100.00	17 6 38	5810.96	23.25	276.42	99.66	109.33	18 43 28	5211.0	25.68	268.46
110.00	14 14 9	1080.53	-.07	327.54	87.78	124.18	14 32 9	480.5	4.42	321.33
110.00	19 19 50	5394.03	30.94	247.46	102.35	105.31	20 49 44	4794.0	32.73	238.69

DIFFERENTIAL CORRECTIONS
TDE-2.9855 TRA 4.9850 TC3-1.8006 BAU .9819
RDE .4856 RRA -.0139 RC3 -.0327 FAU .01097
FDE -.9267 FRA 1.7996 FC3 -.2328 BSP 20060
BDE 3.0248 BRA 4.9850 BC3 1.8009 FSP -599

MID-COURSE EXECUTION ACCURACY
SGT 6176.3 SGR 437.9 SG3 175.5
RRT -.4224 RRF -.4223 RTF .9710
SGB 6191.8 R23 .0115 R13 -.9710
SG1 6179.0 SG2 396.7 THA 178.28

ORBIT DETERMINATION ACCURACY
ST 3080.7 SR 435.7 SS 857.6
CRT -.8742 CRS .8398 CST -.9976
LSA 3219.9 MSA 219.0 SSA 13.1
EL1 3104.3 EL2 210.0 ALF 172.92

LAUNCH DATE JUN 14 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 14 1968

HELIOCENTRIC CONIC DISTANCE 604.690

RL 151.94 LAL -.00 LOL 262.28 VL 25.863 GAL 11.99 AZL 93.22 HCA 294.28 SMA 123.11 ECC .30920 INC 3.2192 V1 29.322
RP 107.90 LAP 2.93 LOP 196.60 VP 37.175 GAP 16.60 AZP 91.33 TAL 149.80 TAP 84.08 RCA 85.04 APO 161.18 V2 35.122
RC 172.686 GL -12.15 GP 1.30 ZAL 39.61 ZAP 176.93 ETS 23.29 ZAE 124.93 ETE 179.34 ZAC 66.50 ETC 13.11 CLP-177.22

PLANETOCENTRIC CONIC

C3 45.554 VHL 6.749 DLA -27.69 RAL 217.77 RAD 6568.7 VEL 12.920 PTH 2.35 VHP 10.417 DPA -3.76 RAP 199.49 ECC 1.7497

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 32 5	1267.59	9.13	346.80	97.28	116.92	13 53 13	667.6	12.67	339.91
90.00	15 16 51	926.65	18.79	326.44	101.76	111.58	15 32 18	326.7	21.56	318.86
100.00	14 9 40	1146.11	4.94	335.62	95.02	119.52	14 28 46	546.1	8.84	329.00
100.00	17 21 57	5811.40	23.24	276.45	103.54	109.35	18 58 49	5211.4	25.67	268.49
110.00	14 16 51	1123.58	-1.71	329.79	90.89	124.15	14 35 34	523.6	2.78	323.58
110.00	19 31 16	5406.71	30.71	248.37	106.19	105.81	21 1 23	4806.7	32.57	239.65

DIFFERENTIAL CORRECTIONS
TDE-3.0378 TRA 5.4126 TC3-1.5741 BAU .9588
RDE .5099 RRA -.0323 RC3 -.0262 FAU .00912
FDE -.8977 FRA 1.8461 FC3 -.1734 BSP 20021
BDE 3.0803 BRA 5.4127 BC3 1.5743 FSP -570

MID-COURSE EXECUTION ACCURACY
SGT 6171.7 SGR 435.4 SG3 167.7
RRT -.4472 RRF -.4454 RTF .9721
SGB 6187.1 R23 .0100 R13 -.9722
SG1 6174.8 SG2 389.2 THA 178.19

ORBIT DETERMINATION ACCURACY
ST 3012.9 SR 433.0 SS 836.0
CRT -.8668 CRS .8325 CST -.9978
LSA 3148.7 MSA 222.3 SSA 12.6
EL1 3036.3 EL2 214.3 ALF 172.86

LAUNCH DATE JUN 14 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 16 1968

HELIOCENTRIC CONIC DISTANCE 609.363

RL 151.94 LAL -.00 LOL 262.28 VL 25.830 GAL 12.96 AZL 93.20 HCA 297.51 SMA 122.92 ECC .32129 INC 3.1950 V1 29.322
RP 107.94 LAP 2.83 LOP 199.82 VP 37.141 GAP 17.43 AZP 91.48 TAL 148.70 TAP 86.21 RCA 83.43 APO 162.41 V2 35.110
RC 174.603 GL -11.32 GP 1.27 ZAL 38.17 ZAP 177.87 ETS 34.65 ZAE 124.67 ETE 179.33 ZAC 64.43 ETC 13.22 CLP-178.29

PLANETOCENTRIC CONIC

C3 51.089 VHL 7.148 DLA -27.30 RAL 219.44 RAD 6568.9 VEL 13.132 PTH 2.40 VHP 10.910 DPA -4.66 RAP 201.46 ECC 1.8408

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 24 42	1342.41	6.80	351.06	100.00	117.55	13 47 4	742.4	10.44	344.27
90.00	15 37 30	909.18	19.22	325.34	105.76	111.20	15 52 40	309.2	21.93	317.71
100.00	14 8 21	1201.39	3.08	338.67	97.96	119.75	14 28 22	601.4	7.02	332.09
100.00	17 36 33	5813.47	23.20	276.58	107.34	109.40	19 13 26	5213.5	25.63	268.63
110.00	14 19 2	1167.83	-3.40	332.10	93.93	124.03	14 38 30	567.8	1.09	325.89
110.00	19 42 21	5419.80	30.46	249.31	109.96	106.31	21 12 41	4819.8	32.40	240.63

DIFFERENTIAL CORRECTIONS
TDE-3.0995 TRA 5.8654 TC3-1.3647 BAU .9322
RDE .5345 RRA -.0528 RC3 -.0208 FAU .00740
FDE -.8744 FRA 1.8943 FC3 -.1254 BSP 20073
BDE 3.1453 BRA 5.8656 BC3 1.3648 FSP -546

MID-COURSE EXECUTION ACCURACY
SGT 6162.5 SGR 432.2 SG3 160.3
RRT -.4726 RRF -.4694 RTF .9736
SGB 6177.6 R23 .0085 R13 -.9736
SG1 6165.9 SG2 380.6 THA 178.09

ORBIT DETERMINATION ACCURACY
ST 2949.0 SR 428.7 SS 818.6
CRT -.8600 CRS .8263 CST -.9979
LSA 3082.2 MSA 224.3 SSA 12.2
EL1 2972.0 EL2 217.1 ALF 172.84

LAUNCH DATE JUN 14 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 18 1968

HELIOCENTRIC CONIC DISTANCE 613.829

RL 151.94 LAL -.00 LOL 262.28 VL 25.798 GAL 14.01 AZL 93.17 HCA 300.72 SMA 122.73 ECC .33457 INC 3.1694 V1 29.322
RP 107.97 LAP 2.72 LOP 203.04 VP 37.106 GAP 18.33 AZP 91.62 TAL 147.67 TAP 88.39 RCA 81.67 APO 163.79 V2 35.097
RC 176.504 GL -10.51 GP 1.24 ZAL 36.81 ZAP 178.61 ETS 61.04 ZAE 124.38 ETE 179.32 ZAC 62.38 ETC 13.37 CLP-179.37

PLANETOCENTRIC CONIC

C3 57.539 VHL 7.585 DLA -26.90 RAL 220.99 RAD 6569.0 VEL 13.375 PTH 2.44 VHP 11.448 DPA -5.54 RAP 203.41 ECC 1.9469

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 18 54	1411.53	4.61	354.96	102.73	117.97	13 42 25	811.5	8.32	348.24
90.00	15 55 42	898.79	19.48	324.68	109.62	110.97	16 10 41	298.8	22.16	317.03
100.00	14 6 50	1256.67	1.21	341.71	100.85	119.87	14 27 47	656.7	5.18	335.16
100.00	17 50 26	5816.93	23.12	276.81	111.06	109.50	19 27 23	5216.9	25.56	268.86
110.00	14 20 43	1213.11	-5.12	334.47	96.92	123.84	14 40 56	613.1	-.64	328.25
110.00	19 53 3	5433.25	30.20	250.27	113.66	106.83	21 23 37	4833.3	32.21	241.63

DIFFERENTIAL CORRECTIONS
TDE-3.1672 TRA 6.3513 TC3-1.1677 BAU .8983
RDE .5593 RRA -.0757 RC3 -.0166 FAU .00570
FDE -.8545 FRA 1.9468 FC3 -.0857 BSP 20109
BDE 3.2162 BRA 6.3518 BC3 1.1678 FSP -522

MID-COURSE EXECUTION ACCURACY
SGT 6148.4 SGR 428.1 SG3 153.4
RRT -.4981 RRF -.4936 RTF .9751
SGB 6163.3 R23 .0070 R13 -.9752
SG1 6152.1 SG2 371.0 THA 178.01

ORBIT DETERMINATION ACCURACY
ST 2886.3 SR 422.9 SS 804.4
CRT -.8534 CRS .8205 CST -.9981
LSA 3017.6 MSA 225.3 SSA 11.8
EL1 2908.9 EL2 218.8 ALF 172.83

LAUNCH DATE JUN 14 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 20 1968

HELIOCENTRIC CONIC DISTANCE 618.046

RL 151.94 LAL -.00 LOL 262.28 VL 25.766 GAL 15.15 AZL 93.14 HCA 303.94 SMA 122.54 ECC .34922 INC 3.1420 V1 29.322
RP 108.01 LAP 2.61 LOP 206.26 VP 37.072 GAP 19.32 AZP 91.76 TAL 146.69 TAP 90.63 RCA 79.75 APO 165.34 V2 35.084
RC 178.389 GL -9.73 GP 1.22 ZAL 35.55 ZAP 178.69 ETS 109.12 ZAE 124.06 ETE 179.31 ZAC 60.35 ETC 13.55 CLP 179.53

PLANETOCENTRIC CONIC

C3 65.091 VHL 8.068 DLA -26.49 RAL 222.43 RAD 6569.2 VEL 13.654 PTH 2.50 VHP 12.038 DPA -6.40 RAP 205.35 ECC 2.0712

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 13 52	1477.41	2.50	358.64	105.43	118.22	13 38 29	877.4	6.25	351.98
90.00	16 12 12	892.75	19.62	324.30	113.35	110.83	16 27 5	292.8	22.28	316.64
100.00	14 5 6	1311.92	-.66	344.74	103.68	119.89	14 26 58	711.9	3.32	338.21
100.00	18 3 39	5821.52	23.01	277.11	114.69	109.62	19 40 41	5221.5	25.48	269.18
110.00	14 21 54	1259.22	-6.87	336.91	99.84	123.57	14 42 53	659.2	-2.41	330.66
110.00	20 3 21	5446.98	29.93	251.25	117.28	107.35	21 34 8	4847.0	32.01	242.65

DIFFERENTIAL CORRECTIONS
TDE-3.2414 TRA 6.8739 TC3 -.9835 BAU .8559
RDE .5842 RRA -.1010 RC3 -.0134 FAU .00398
FDE -.8384 FRA 2.0046 FC3 -.0529 BSP 20127
BDE 3.2936 BRA 6.8746 BC3 .9836 FSP -500

MID-COURSE EXECUTION ACCURACY
SGT 6129.1 SGR 423.1 SG3 146.9
RRT -.5235 RRF -.5178 RTF .9769
SGB 6143.7 R23 .0055 R13 -.9769
SG1 6133.1 SG2 360.3 THA 177.92

ORBIT DETERMINATION ACCURACY
ST 2824.6 SR 415.6 SS 793.6
CRT -.8471 CRS .8152 CST -.9982
LSA 2954.7 MSA 225.1 SSA 11.3
EL1 2846.6 EL2 219.2 ALF 172.85

LAUNCH DATE JUN 15 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 24 1967

DISTANCE 158.492

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 22.322 GAL 1.29 AZL 93.57 HCA 63.32 SMA 106.30 ECC .42997 INC 3.5731 V1 29.319
RP 108.92 LAP -3.19 LOP 326.50 VP 34.475 GAP -25.43 AZP 91.61 TAL 178.29 TAP 241.61 RCA 60.59 APO 152.01 V2 34.793
RC 43.707 GL -11.15 GP -.93 ZAL 87.30 ZAP 13.97 ETS 176.63 ZAE 169.51 ETE 83.98 ZAC 104.69 ETC 14.82 CLP 13.94

PLANETOCENTRIC CONIC
C3 51.694 VHL 7.190 DLA -8.63 RAL 171.86 RAO 6568.9 VEL 13.155 PTH 2.40 VHP 15.189 DPA 9.91 RAP 162.92 ECC 1.8507

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 23 39	2179.70	-18.71	39.28	47.16	111.65	6 59 59	1579.7	-15.60	31.98
90.00	16 11 6	5365.78	27.80	245.09	53.54	84.36	17 40 32	4765.8	26.72	236.59
100.00	7 40 48	1930.82	-20.05	20.41	46.58	112.65	8 12 59	1330.8	-16.81	13.11
100.00	17 36 38	5089.90	29.24	224.62	53.36	83.48	19 1 28	4489.9	28.03	216.03
110.00	8 39 29	1747.08	-23.62	4.75	44.87	115.46	9 8 36	1147.1	-20.00	357.48
110.00	18 54 27	4846.40	33.11	205.52	52.75	80.99	20 15 13	4246.4	31.51	196.66

DIFFERENTIAL CORRECTIONS
TDE .4173 TRA -.8828 TC3 .0246 BAU .0513
RDE -.4857 RRA -.2153 RC3 .0700 FAU .01866
FDE -.3133 FRA .3559 FC3 -.3126 BSP 2085
BDE .6403 BRA .9087 BC3 .0742 FSP -111

MID-COURSE EXECUTION ACCURACY
SGT 786.2 SGR 435.9 SG3 50.9
RRT -.0048 RRF .0062 RTF -.6546
SGB 899.0 R23 -.0017 R13 .6546
SG1 786.2 SG2 435.9 THA 179.78

ORBIT DETERMINATION ACCURACY
ST 395.2 SR 390.5 SS 347.0
CRT -.7619 CRS -.8919 CST .9705
LSA 625.4 MSA 194.1 SSA 14.8
EL1 521.5 EL2 191.7 ALF 135.44

LAUNCH DATE JUN 15 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 26 1967

DISTANCE 165.024

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 22.749 GAL 1.14 AZL 93.55 HCA 66.48 SMA 107.97 ECC .40785 INC 3.5459 V1 29.319
RP 108.90 LAP -3.25 LOP 329.67 VP 34.757 GAP -24.07 AZP 91.42 TAL 178.34 TAP 244.82 RCA 63.93 APO 152.00 V2 34.797
RC 43.245 GL -11.99 GP -.97 ZAL 87.54 ZAP 12.29 ETS 175.81 ZAE 168.74 ETE 70.78 ZAC 103.27 ETC 14.65 CLP 12.25

PLANETOCENTRIC CONIC
C3 45.857 VHL 6.772 DLA -9.31 RAL 171.30 RAO 6568.7 VEL 12.931 PTH 2.36 VHP 14.428 DPA 9.31 RAP 164.29 ECC 1.7547

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 26 46	2128.02	-17.38	36.07	44.52	112.71	7 2 14	1528.0	-14.15	28.88
90.00	16 3 33	5357.60	27.74	244.50	51.02	84.07	17 32 50	4757.6	26.63	236.01
100.00	7 43 33	1880.30	-18.69	17.27	43.92	113.76	8 14 53	1280.3	-15.32	10.09
100.00	17 29 27	5080.55	29.16	223.94	50.84	83.12	18 54 7	4480.6	27.90	215.36
110.00	8 41 25	1699.09	-22.19	1.76	42.17	116.70	9 9 44	1099.1	-18.42	354.65
110.00	18 48 4	4834.53	32.98	204.61	50.20	80.47	20 8 39	4234.5	31.32	195.79

DIFFERENTIAL CORRECTIONS
TDE .4186 TRA -.8605 TC3 .0497 BAU .0572
RDE -.4597 RRA -.2018 RC3 .0789 FAU .01950
FDE -.3318 FRA .3589 FC3 -.3682 BSP 2215
BDE .6217 BRA .8838 BC3 .0932 FSP -125

MID-COURSE EXECUTION ACCURACY
SGT 821.1 SGR 438.9 SG3 56.1
RRT -.0081 RRF .0094 RTF -.6748
SGB 931.1 R23 -.0017 R13 .6748
SG1 821.1 SG2 438.9 THA 179.65

ORBIT DETERMINATION ACCURACY
ST 417.6 SR 392.4 SS 368.9
CRT -.7704 CRS -.8987 CST .9701
LSA 652.8 MSA 195.2 SSA 15.2
EL1 539.3 EL2 193.7 ALF 137.31

LAUNCH DATE JUN 15 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 28 1967

DISTANCE 171.594

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 23.144 GAL .98 AZL 93.52 HCA 69.64 SMA 109.58 ECC .38703 INC 3.5199 V1 29.319
RP 108.89 LAP -3.30 LOP 332.84 VP 35.021 GAP -22.77 AZP 91.23 TAL 178.45 TAP 248.09 RCA 67.17 APO 151.99 V2 34.801
RC 42.956 GL -12.85 GP -1.01 ZAL 87.92 ZAP 10.61 ETS 174.75 ZAE 167.49 ETE 59.42 ZAC 101.86 ETC 14.50 CLP 10.56

PLANETOCENTRIC CONIC
C3 40.786 VHL 6.386 DLA -9.95 RAL 170.61 RAO 6568.6 VEL 12.734 PTH 2.32 VHP 13.699 DPA 8.71 RAP 165.64 ECC 1.6712

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 29 10	2077.51	-16.02	32.99	41.82	113.66	7 3 47	1477.5	-12.69	25.90
90.00	15 55 37	5349.09	27.68	243.88	48.38	83.77	17 24 46	4749.1	26.53	235.40
100.00	7 45 36	1830.94	-17.31	14.25	41.21	114.76	8 16 6	1230.9	-13.83	7.19
100.00	17 21 52	5070.89	29.08	223.23	48.19	82.76	18 46 23	4470.9	27.77	214.67
110.00	8 42 40	1652.20	-20.72	358.91	39.43	117.81	9 10 12	1052.2	-16.84	351.94
110.00	18 41 17	4822.39	32.84	203.70	47.53	79.94	20 1 39	4222.4	31.11	194.90

DIFFERENTIAL CORRECTIONS
TDE .4204 TRA -.8370 TC3 .0809 BAU .0653
RDE -.4349 RRA -.1888 RC3 .0884 FAU .02044
FDE -.3519 FRA .3608 FC3 -.4339 BSP 2349
BDE .6049 BRA .8580 BC3 .1198 FSP -140

MID-COURSE EXECUTION ACCURACY
SGT 856.8 SGR 441.1 SG3 62.0
RRT -.0117 RRF .0130 RTF -.6943
SGB 963.6 R23 -.0019 R13 .6943
SG1 856.8 SG2 441.0 THA 179.53

ORBIT DETERMINATION ACCURACY
ST 441.1 SR 393.6 SS 392.0
CRT -.7796 CRS -.9056 CST .9699
LSA 681.7 MSA 195.5 SSA 15.6
EL1 558.1 EL2 194.8 ALF 139.16

LAUNCH DATE JUN 15 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 30 1967

DISTANCE 178.200

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 23.508 GAL .80 AZL 93.50 HCA 72.81 SMA 111.14 ECC .36748 INC 3.4950 V1 29.319
RP 108.87 LAP -3.34 LOP 336.01 VP 35.268 GAP -21.53 AZP 91.03 TAL 178.62 TAP 251.43 RCA 70.30 APO 151.98 V2 34.806
RC 42.841 GL -13.74 GP -1.07 ZAL 88.42 ZAP 8.92 ETS 173.28 ZAE 165.87 ETE 50.20 ZAC 100.45 ETC 14.36 CLP 8.85

PLANETOCENTRIC CONIC
C3 36.383 VHL 6.032 DLA -10.56 RAL 169.78 RAO 6568.4 VEL 12.560 PTH 2.28 VHP 13.000 DPA 8.10 RAP 166.98 ECC 1.5988

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 30 49	2028.53	-14.66	30.03	39.07	114.50	7 4 38	1428.5	-11.24	23.03
90.00	15 47 20	5340.34	27.61	243.25	45.64	83.46	17 16 21	4740.3	26.42	234.79
100.00	7 46 54	1783.08	-15.92	11.37	38.46	115.64	8 16 37	1183.1	-12.35	4.41
100.00	17 13 56	5061.03	28.99	222.51	45.44	82.39	18 38 17	4461.0	27.64	213.97
110.00	8 43 13	1606.74	-19.26	356.20	36.67	118.80	9 9 59	1006.7	-15.26	349.35
110.00	18 34 7	4810.13	32.69	202.77	44.75	79.41	19 54 17	4210.1	30.89	194.01

DIFFERENTIAL CORRECTIONS
TDE .4219 TRA -.8129 TC3 .1186 BAU .0750
RDE -.4113 RRA -.1762 RC3 .0984 FAU .02152
FDE -.3738 FRA .3611 FC3 -.5121 BSP 2475
BDE .5892 BRA .8318 BC3 .1541 FSP -158

MID-COURSE EXECUTION ACCURACY
SGT 893.4 SGR 442.4 SG3 68.5
RRT -.0148 RRF .0171 RTF -.7122
SGB 996.9 R23 -.0031 R13 .7122
SG1 893.4 SG2 442.4 THA 179.44

ORBIT DETERMINATION ACCURACY
ST 464.9 SR 394.1 SS 416.3
CRT -.7889 CRS -.9128 CST .9694
LSA 711.6 MSA 195.1 SSA 16.0
EL1 577.4 EL2 195.0 ALF 140.95

LAUNCH DATE JUN 15 1967 FLIGHT TIME 78.00 ARRIVAL DATE SEP 1 1967

HELIOCENTRIC CONIC DISTANCE 184.835

RL 151.96 LAL -.00 LOL 263.23 VL 23.844 GAL .62 AZL 93.47 HCA 75.97 SMA 112.64 ECC .34918 INC 3.4709 V1 29.319
RP 108.86 LAP -3.37 LOP 339.18 VP 35.498 GAP -20.35 AZP 90.84 TAL 178.85 TAP 254.82 RCA 73.31 APO 151.97 V2 34.812
RC 42.900 GL -14.65 GP -1.12 ZAL 89.06 ZAP 7.22 ETS 171.10 ZAE 164.02 ETE 42.88 ZAC 99.07 ETC 14.23 CLP 7.13

PLANETOCENTRIC CONIC

C3 32.562 VHL 5.706 DLA -11.14 RAL 168.81 RAD 6568.3 VEL 12.407 PTH 2.24 VHP 12.331 DPA 7.49 RAP 168.30 ECC 1.5359

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 31 42	1981.42	-13.31	27.23	36.30	115.22	7 4 44	1381.4	-9.81	20.31
90.00	15 38 45	5331.45	27.54	242.61	42.81	83.15	17 7 37	4731.5	26.31	234.16
100.00	7 47 27	1737.04	-14.55	8.65	35.68	116.40	8 16 24	1137.0	-10.89	1.77
100.00	17 5 41	5051.06	28.90	221.78	42.61	82.02	18 29 52	4451.1	27.50	213.26
110.00	8 43 1	1563.02	-17.80	353.64	33.88	119.68	9 9 4	963.0	-13.72	346.91
110.00	18 26 37	4797.85	32.54	201.85	41.90	78.89	19 46 34	4197.8	30.66	193.13

DIFFERENTIAL CORRECTIONS

TDE .4236 TRA -.7884 TC3 .1603 BAU .0843
RDE -.3890 RRA -.1642 RC3 .1088 FAU .02265
FDE -.3972 FRA .3607 FC3 -.6023 BSP 2576
BDE .5751 BRA .8054 BC3 .1937 FSP -176

MID-COURSE EXECUTION ACCURACY

SGT 930.3 SGR 443.0 SG3 75.7
RRT -.0190 RRF .0217 RTF -.7278
SGB 1030.3 R23 -.0038 R13 .7278
SG1 930.3 SG2 442.9 THA 179.33

ORBIT DETERMINATION ACCURACY

ST 489.4 SR 393.9 SS 441.5
CRT -.7985 CRS -.9197 CST .9691
LSA 742.7 MSA 194.3 SSA 16.5
EL1 597.4 EL2 194.3 ALF 142.67

LAUNCH DATE JUN 15 1967 FLIGHT TIME 80.00 ARRIVAL DATE SEP 3 1967

HELIOCENTRIC CONIC DISTANCE 191.496

RL 151.96 LAL -.00 LOL 263.23 VL 24.154 GAL .42 AZL 93.45 HCA 79.14 SMA 114.08 ECC .33209 INC 3.4475 V1 29.319
RP 108.84 LAP -3.39 LOP 342.35 VP 35.714 GAP -19.22 AZP 90.65 TAL 179.15 TAP 258.29 RCA 76.19 APO 151.96 V2 34.819
RC 43.133 GL -15.58 GP -1.19 ZAL 89.83 ZAP 5.52 ETS 167.55 ZAE 162.05 ETE 37.08 ZAC 97.71 ETC 14.11 CLP 5.39

PLANETOCENTRIC CONIC

C3 29.249 VHL 5.408 DLA -11.68 RAL 167.72 RAD 6568.2 VEL 12.273 PTH 2.21 VHP 11.689 DPA 6.88 RAP 169.60 ECC 1.4814

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 31 48	1936.52	-12.00	24.59	33.49	115.84	7 4 4	1336.5	-8.42	17.74
90.00	15 29 55	5322.45	27.47	241.96	39.91	82.83	16 58 37	4722.5	26.19	233.53
100.00	7 47 13	1693.17	-13.21	6.08	32.88	117.06	8 15 27	1093.2	-9.47	359.28
100.00	16 57 10	5041.03	28.81	221.05	39.70	81.65	18 21 11	4441.0	27.35	212.55
110.00	8 42 5	1521.35	-16.38	351.25	31.08	120.43	9 7 27	921.4	-12.22	344.61
110.00	18 18 48	4785.61	32.37	200.93	38.97	78.37	19 38 33	4185.6	30.43	192.25

DIFFERENTIAL CORRECTIONS

TDE .4304 TRA -.7591 TC3 .2173 BAU .0969
RDE -.3680 RRA -.1528 RC3 .1194 FAU .02398
FDE -.4242 FRA .3577 FC3 -.7098 BSP 2785
BDE .5663 BRA .7743 BC3 .2479 FSP -200

MID-COURSE EXECUTION ACCURACY

SGT 968.3 SGR 442.7 SG3 83.8
RRT -.0272 RRF .0281 RTF -.7486
SGB 1064.6 R23 -.0024 R13 .7486
SG1 968.3 SG2 442.5 THA 179.10

ORBIT DETERMINATION ACCURACY

ST 518.3 SR 393.0 SS 469.3
CRT -.8126 CRS -.9272 CST .9701
LSA 778.8 MSA 191.2 SSA 16.8
EL1 621.8 EL2 190.9 ALF 144.52

LAUNCH DATE JUN 15 1967 FLIGHT TIME 82.00 ARRIVAL DATE SEP 5 1967

HELIOCENTRIC CONIC DISTANCE 198.177

RL 151.96 LAL -.00 LOL 263.23 VL 24.439 GAL .23 AZL 93.42 HCA 82.31 SMA 115.45 ECC .31618 INC 3.4245 V1 29.319
RP 108.81 LAP -3.39 LOP 345.53 VP 35.914 GAP -18.14 AZP 90.46 TAL 179.50 TAP 261.81 RCA 78.95 APO 151.96 V2 34.826
RC 43.534 GL -16.51 GP -1.26 ZAL 90.72 ZAP 3.83 ETS 160.73 ZAE 160.04 ETE 32.44 ZAC 96.37 ETC 14.01 CLP 3.62

PLANETOCENTRIC CONIC

C3 26.380 VHL 5.136 DLA -12.17 RAL 166.50 RAD 6568.1 VEL 12.156 PTH 2.18 VHP 11.075 DPA 6.26 RAP 170.87 ECC 1.4342

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 31 6	1894.14	-10.73	22.13	30.68	116.36	7 2 40	1294.1	-7.10	15.33
90.00	15 20 53	5313.40	27.39	241.31	36.95	82.51	16 49 27	4713.4	26.07	232.89
100.00	7 46 13	1651.77	-11.91	3.69	30.06	117.62	8 13 45	1051.8	-8.12	356.95
100.00	16 48 27	5031.00	28.70	220.33	36.74	81.28	18 12 18	4431.0	27.20	211.85
110.00	8 40 25	1482.02	-15.01	349.02	28.27	121.08	9 5 7	882.0	-10.78	342.47
110.00	18 10 44	4773.51	32.20	200.03	36.00	77.86	19 30 18	4173.5	30.19	191.39

DIFFERENTIAL CORRECTIONS

TDE .4293 TRA -.7353 TC3 .2718 BAU .1062
RDE -.3482 RRA -.1419 RC3 .1299 FAU .02536
FDE -.4509 FRA .3549 FC3 -.8322 BSP 2848
BDE .5527 BRA .7488 BC3 .3012 FSP -222

MID-COURSE EXECUTION ACCURACY

SGT 1005.6 SGR 441.5 SG3 92.6
RRT -.0289 RRF .0332 RTF -.7605
SGB 1098.3 R23 -.0060 R13 .7606
SG1 1005.7 SG2 441.3 THA 179.10

ORBIT DETERMINATION ACCURACY

ST 541.1 SR 391.5 SS 495.8
CRT -.8203 CRS -.9337 CST .9691
LSA 809.6 MSA 190.1 SSA 17.3
EL1 640.5 EL2 189.2 ALF 145.93

LAUNCH DATE JUN 15 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 7 1967

HELIOCENTRIC CONIC DISTANCE 204.874

RL 151.96 LAL -.00 LOL 263.23 VL 24.701 GAL .04 AZL 93.40 HCA 85.48 SMA 116.76 ECC .30140 INC 3.4019 V1 29.319
RP 108.79 LAP -3.39 LOP 348.70 VP 36.100 GAP -17.11 AZP 90.27 TAL 179.92 TAP 265.39 RCA 81.57 APO 151.96 V2 34.834
RC 44.099 GL -17.45 GP -1.33 ZAL 91.73 ZAP 2.25 ETS 143.49 ZAE 158.05 ETE 28.67 ZAC 95.06 ETC 13.92 CLP 1.82

PLANETOCENTRIC CONIC

C3 23.897 VHL 4.888 DLA -12.62 RAL 165.16 RAD 6568.0 VEL 12.053 PTH 2.15 VHP 10.485 DPA 5.65 RAP 172.10 ECC 1.3933

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 29 34	1854.61	-9.52	19.85	27.85	116.79	7 0 29	1254.6	-5.85	13.09
90.00	15 11 45	5304.22	27.31	240.65	33.97	82.19	16 40 10	4704.2	25.94	232.25
100.00	7 44 25	1613.15	-10.68	1.48	27.24	118.08	8 11 18	1013.1	-6.84	354.80
100.00	16 39 36	5020.92	28.60	219.60	33.75	80.91	18 3 17	4420.9	27.04	211.14
110.00	8 38 0	1445.30	-13.71	346.97	25.46	121.62	9 2 6	845.3	-9.43	340.49
110.00	18 2 30	4761.52	32.03	199.14	32.99	77.36	19 21 51	4161.5	29.96	190.54

DIFFERENTIAL CORRECTIONS

TDE .4223 TRA -.7085 TC3 .3426 BAU .1183
RDE -.3294 RRA -.1315 RC3 .1402 FAU .02689
FDE -.4616 FRA .3578 FC3 -.9740 BSP 2925
BDE .5355 BRA .7206 BC3 .3702 FSP -228

MID-COURSE EXECUTION ACCURACY

SGT 1039.9 SGR 439.0 SG3 101.6
RRT -.0236 RRF .0203 RTF -.7785
SGB 1128.7 R23 .0020 R13 .7785
SG1 1039.9 SG2 438.9 THA 179.31

ORBIT DETERMINATION ACCURACY

ST 557.0 SR 388.9 SS 504.5
CRT -.8259 CRS -.9355 CST .9703
LSA 824.8 MSA 188.3 SSA 17.7
EL1 653.1 EL2 187.0 ALF 146.98

LAUNCH DATE JUN 15 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 9 1967

DISTANCE 211.584

HELIOCENTRIC CONIC

```
RL  151.96 LAL   -.00 LOL 263.23 VL  24.942 GAL   -.16 AZL  93.38 HCA  88.65 SMA 118.01 ECC .28772 INC 3.3795 V1  29.319
RP  108.76 LAP  -3.38 LOP 351.88 VP  36.274 GAP -16.12 AZP  90.08 TAL 180.39 TAP 269.03 RCA  84.05 APO 151.96 V2  34.842
RC  44.820 GL  -18.38 GP   -1.42 ZAL  92.84 ZAP   1.42 ETS  88.70 ZAE 156.15 ETE  25.55 ZAC  93.79 ETC  13.84 CLP   -.02
```

PLANETOCENTRIC CONIC

```
C3  21.754 VHL  4.664 DLA -13.01 RAL 163.72 RAD 6567.9 VEL 11.964 PTH   2.13 VHP  9.921 DPA   5.04 RAP 173.29 ECC 1.3580
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 27 14	1818.23	-8.40	17.76	25.03	117.14	6 57 32	1218.2	-4.69	11.04
90.00	15 2 37	5294.89	27.22	239.98	30.97	81.87	16 30 52	4694.9	25.81	231.60
100.00	7 41 50	1577.58	-9.54	359.47	24.42	118.46	8 8 7	977.6	-5.66	352.82
100.00	16 30 43	5010.78	28.49	218.86	30.75	80.53	17 54 14	4410.8	26.88	210.43
110.00	8 34 52	1411.47	-12.49	345.10	22.66	122.08	8 58 23	811.5	-8.17	338.68
110.00	17 54 10	4749.66	31.85	198.26	29.97	76.87	19 13 20	4149.7	29.71	189.70

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .4434 TRA -.6742 TC3  .4249 BAU  .1310   SGT 1084.6 SGR  436.7 SG3  114.7     ST   601.6 SR   387.0 SS   562.0
ROE -.3128 RRA -.1221 RC3  .1493 FAU .02915   RRT -.0490 RRF  .0529 RTF -.7911     CRT -.8481 CRS -.9489 CST  .9704
FOE -.5228 FRA  .3366 FC3-1.1601 BSP  3254   SGB 1169.3 R23 -.0067 R13  .7912     LSA  891.1 MSA  182.0 SSA   18.3
BOE  .5426 BRA  .6852 BC3  .4503 FSP  -293   SG1 1084.9 SG2  436.1 THA 178.65     EL1  692.8 EL2  178.0 ALF 149.12
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 11 1967

DISTANCE 218.302

HELIOCENTRIC CONIC

```
RL  151.96 LAL   -.00 LOL 263.23 VL  25.163 GAL   -.34 AZL  93.36 HCA  91.82 SMA 119.18 ECC .27508 INC 3.3571 V1  29.319
RP  108.74 LAP  -3.36 LOP 355.06 VP  36.435 GAP -15.17 AZP  89.89 TAL 180.91 TAP 272.73 RCA  86.39 APO 151.96 V2  34.851
RC  45.690 GL  -19.29 GP   -1.51 ZAL  94.05 ZAP   2.44 ETS  37.97 ZAE 154.36 ETE  22.93 ZAC  92.57 ETC  13.78 CLP  -1.91
```

PLANETOCENTRIC CONIC

```
C3  19.905 VHL  4.462 DLA -13.36 RAL 162.20 RAD 6567.8 VEL 11.886 PTH   2.11 VHP  9.381 DPA   4.43 RAP 174.43 ECC 1.3276
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 24 7	1785.18	-7.37	15.88	22.23	117.42	6 53 52	1185.2	-3.64	9.19
90.00	14 53 34	5285.36	27.12	239.30	27.98	81.54	16 21 39	4685.4	25.67	230.93
100.00	7 38 29	1545.25	-8.48	357.64	21.63	118.77	8 4 14	945.3	-4.58	351.03
100.00	16 21 53	5000.52	28.37	218.12	27.75	80.16	17 45 14	4400.5	26.72	209.71
110.00	8 31 2	1380.65	-11.37	343.42	19.89	122.45	8 54 3	780.6	-7.01	337.04
110.00	17 45 49	4737.89	31.66	197.39	26.96	76.38	19 4 47	4137.9	29.47	188.87

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .4498 TRA -.6401 TC3  .5140 BAU  .1431   SGT 1121.5 SGR  433.0 SG3  127.5     ST   630.9 SR   384.0 SS   595.1
ROE -.2970 RRA -.1131 RC3  .1576 FAU .03129   RRT -.0610 RRF  .0635 RTF -.8069     CRT -.8621 CRS -.9556 CST  .9716
FOE -.5622 FRA  .3245 FC3-1.3607 BSP  3404   SGB 1202.2 R23 -.0057 R13  .8070     LSA  931.7 MSA  177.0 SSA   18.7
BOE  .5389 BRA  .6500 BC3  .5376 FSP  -327   SG1 1121.8 SG2  432.1 THA 178.41     EL1  718.5 EL2  170.8 ALF 150.48
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 13 1967

DISTANCE 225.026

HELIOCENTRIC CONIC

```
RL  151.96 LAL   -.00 LOL 263.23 VL  25.366 GAL   -.53 AZL  93.33 HCA  94.99 SMA 120.28 ECC .26345 INC 3.3346 V1  29.319
RP  108.71 LAP  -3.32 LOP 358.24 VP  36.584 GAP -14.26 AZP  89.71 TAL 181.48 TAP 276.47 RCA  88.59 APO 151.97 V2  34.860
RC  46.700 GL  -20.17 GP   -1.62 ZAL  95.33 ZAP   4.18 ETS  22.32 ZAE 152.73 ETE  20.70 ZAC  91.40 ETC  13.72 CLP  -3.85
```

PLANETOCENTRIC CONIC

```
C3  18.313 VHL  4.279 DLA -13.64 RAL 160.60 RAD 6567.7 VEL 11.819 PTH   2.09 VHP  8.863 DPA   3.84 RAP 175.52 ECC 1.3014
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 20 14	1755.66	-6.44	14.21	19.46	117.63	6 49 30	1155.7	-2.69	7.54
90.00	14 44 43	5275.53	27.02	238.60	25.02	81.20	16 12 38	4675.5	25.53	230.25
100.00	7 34 25	1516.34	-7.53	356.02	18.87	119.01	7 59 41	916.3	-3.60	349.44
100.00	16 13 13	4990.08	28.25	217.37	24.79	79.78	17 36 23	4390.1	26.55	208.98
110.00	8 26 33	1353.01	-10.36	341.92	17.15	122.76	8 49 6	753.0	-5.97	335.58
110.00	17 37 34	4726.17	31.47	196.53	23.98	75.91	18 56 20	4126.2	29.21	188.05

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .4544 TRA -.6109 TC3  .6027 BAU  .1530   SGT 1159.6 SGR  428.5 SG3  141.9     ST   658.9 SR   380.7 SS   630.2
ROE -.2824 RRA -.1047 RC3  .1645 FAU .03367   RRT -.0726 RRF  .0757 RTF -.8178     CRT -.8735 CRS -.9616 CST  .9720
FOE -.6063 FRA  .3117 FC3-1.5917 BSP  3542   SGB 1236.2 R23 -.0070 R13  .8180     LSA  972.5 MSA  173.3 SSA   19.2
BOE  .5350 BRA  .6198 BC3  .6248 FSP  -370   SG1 1160.1 SG2  427.2 THA 178.22     EL1  743.0 EL2  164.3 ALF 151.71
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 15 1967

DISTANCE 231.750

HELIOCENTRIC CONIC

```
RL  151.96 LAL   -.00 LOL 263.23 VL  25.551 GAL   -.71 AZL  93.31 HCA  98.17 SMA 121.32 ECC .25279 INC 3.3119 V1  29.319
RP  108.68 LAP  -3.28 LOP   1.42 VP  36.722 GAP -13.39 AZP  89.53 TAL 182.09 TAP 280.26 RCA  90.65 APO 151.99 V2  34.870
RC  47.841 GL  -21.01 GP   -1.74 ZAL  96.67 ZAP   6.11 ETS  15.97 ZAE 151.28 ETE  18.77 ZAC  90.29 ETC  13.68 CLP  -5.85
```

PLANETOCENTRIC CONIC

```
C3  16.943 VHL  4.116 DLA -13.87 RAL 158.95 RAD 6567.7 VEL 11.761 PTH   2.08 VHP  8.368 DPA   3.25 RAP 176.54 ECC 1.2788
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 15 39	1729.77	-5.62	12.75	16.74	117.80	6 44 29	1129.8	-1.85	6.09
90.00	14 36 9	5265.33	26.91	237.87	22.10	80.85	16 3 54	4665.3	25.37	229.54
100.00	7 29 40	1490.95	-6.69	354.61	16.16	119.20	7 54 31	890.9	-2.75	348.04
100.00	16 4 49	4979.39	28.11	216.60	21.87	79.40	17 27 48	4379.4	26.36	208.24
110.00	8 21 29	1328.65	-9.46	340.61	14.47	123.00	8 43 38	728.6	-5.05	334.30
110.00	17 29 29	4714.45	31.27	195.67	21.05	75.44	18 48 3	4114.5	28.96	187.24

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .4577 TRA -.5790 TC3  .7001 BAU  .1632   SGT 1194.7 SGR  423.2 SG3  158.3     ST   684.3 SR   377.0 SS   666.1
ROE -.2692 RRA -.0969 RC3  .1693 FAU .03642   RRT -.0851 RRF  .0897 RTF -.8285     CRT -.8848 CRS -.9675 CST  .9722
FOE -.6548 FRA  .2935 FC3-1.8609 BSP  3659   SGB 1267.4 R23 -.0092 R13  .8287     LSA 1012.4 MSA  169.5 SSA   19.6
BOE  .5310 BRA  .5871 BC3  .7203 FSP  -417   SG1 1195.3 SG2  421.4 THA 178.03     EL1  765.3 EL2  157.1 ALF 152.77
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 17 1967

HELIOCENTRIC CONIC DISTANCE 238.473

RL	151.96	LAL	-.00	LOL	263.23	VL	25.720	GAL	-.88	AZL	93.29	HCA	101.35	SMA	122.29	ECC	.24303	INC	3.2888
RP	108.64	LAP	-3.22	LOP	4.60	VP	36.849	GAP	-12.55	AZP	89.35	TAL	182.73	TAP	284.08	RCA	92.57	APO	152.01
RC	49.103	GL	-21.81	GP	-1.88	ZAL	98.06	ZAP	8.14	ETS	12.63	ZAE	150.03	ETE	17.07	ZAC	89.25	ETC	13.66

V1	29.319	V2	34.881	CLP	-7.93														

PLANETOCENTRIC CONIC

C3	15.767	VHL	3.971	DLA	-14.03	RAL	157.28	RAD	6567.6	VEL	11.711	PTH	2.06	VHP	7.895	DPA	2.68	RAP	177.50
ECC	1.2595																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 10 26	1707.55	-4.91	11.50	14.09	117.92	6 38 53	1107.6	-1.14	4.85
90.00	14 27 59	5254.70	26.80	237.12	19.25	80.49	15 55 34	4654.7	25.21	228.81
100.00	7 24 20	1469.10	-5.96	353.39	13.51	119.35	7 48 49	869.1	-2.01	346.84
100.00	15 56 46	4968.39	27.97	215.82	19.01	79.01	17 19 34	4368.4	26.17	207.48
110.00	8 15 54	1307.56	-8.68	339.48	11.85	123.19	8 37 42	707.6	-4.25	333.19
110.00	17 21 41	4702.69	31.07	194.82	18.19	74.97	18 40 3	4102.7	28.69	186.42

DIFFERENTIAL CORRECTIONS

TOE	.4606	TRA	-.5483	TC3	.7992	BAU	.1723
ROE	-.2571	RRA	-.0897	RC3	.1717	FAU	.03950
FOE	-.7090	FRA	.2741	FC3	-2.1690	BSP	3786
BOE	.5275	BRA	.5556	BC3	.8174	FSP	-472

MID-COURSE EXECUTION ACCURACY

SGT	1228.6	SGR	417.1	SG3	176.6		
RRT	-.0999	RRF	.1058	RTF	-.8383		
SGB	1297.5	R23	-.0114	R13	.8385		
SG1	1229.4	SG2	414.8	THA	177.81		

ORBIT DETERMINATION ACCURACY

ST	708.4	SR	373.1	SS	703.6
CRT	-.8953	CRS	-.9726	CST	.9726
LSA	1052.7	MSA	166.1	SSA	19.9
EL1	786.6	EL2	149.7	ALF	153.73

LAUNCH DATE JUN 15 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 19 1967

HELIOCENTRIC CONIC DISTANCE 245.191

RL	151.96	LAL	-.00	LOL	263.23	VL	25.874	GAL	-1.04	AZL	93.27	HCA	104.53	SMA	123.19	ECC	.23415	INC	3.2652
RP	108.61	LAP	-3.16	LOP	7.78	VP	36.967	GAP	-11.74	AZP	89.18	TAL	183.40	TAP	287.93	RCA	94.35	APO	152.04
RC	50.476	GL	-22.55	GP	-2.03	ZAL	99.47	ZAP	10.28	ETS	10.59	ZAE	148.99	ETE	15.55	ZAC	88.30	ETC	13.64

V1	29.319	V2	34.891	CLP	-10.08														

PLANETOCENTRIC CONIC

C3	14.759	VHL	3.842	DLA	-14.14	RAL	155.59	RAD	6567.6	VEL	11.668	PTH	2.05	VHP	7.442	DPA	2.12	RAP	178.37
ECC	1.2429																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 4 39	1688.98	-4.32	10.46	11.52	118.01	6 32 48	1089.0	-.54	3.82
90.00	14 20 18	5243.58	26.67	236.33	16.49	80.11	15 47 42	4643.6	25.03	228.04
100.00	7 18 29	1450.76	-5.35	352.38	10.95	119.45	7 42 39	850.8	-1.39	345.83
100.00	15 49 10	4957.03	27.82	215.01	16.25	78.61	17 11 47	4357.0	25.97	206.69
110.00	8 9 54	1289.72	-8.01	338.53	9.32	123.34	8 31 23	689.7	-3.57	332.26
110.00	17 14 14	4690.84	30.86	193.96	15.42	74.50	18 32 25	4090.8	28.42	185.61

DIFFERENTIAL CORRECTIONS

TOE	.4622	TRA	-.5171	TC3	.9015	BAU	.1810
ROE	-.2461	RRA	-.0832	RC3	.1711	FAU	.04304
FOE	-.7684	FRA	.2505	FC3	-2.5247	BSP	3901
BOE	.5237	BRA	.5237	BC3	.9176	FSP	-534

MID-COURSE EXECUTION ACCURACY

SGT	1260.0	SGR	410.3	SG3	197.5		
RRT	-.1166	RRF	.1241	RTF	-.8472		
SGB	1325.1	R23	-.0139	R13	.8475		
SG1	1261.0	SG2	407.2	THA	177.57		

ORBIT DETERMINATION ACCURACY

ST	729.8	SR	369.1	SS	741.6
CRT	-.9052	CRS	-.9773	CST	.9729
LSA	1091.7	MSA	163.0	SSA	20.3
EL1	805.4	EL2	142.2	ALF	154.55

LAUNCH DATE JUN 15 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 21 1967

HELIOCENTRIC CONIC DISTANCE 251.902

RL	151.96	LAL	-.00	LOL	263.23	VL	26.014	GAL	-1.19	AZL	93.24	HCA	107.71	SMA	124.03	ECC	.22608	INC	3.2409
RP	108.58	LAP	-3.09	LOP	10.97	VP	37.076	GAP	-10.96	AZP	89.01	TAL	184.08	TAP	291.79	RCA	95.99	APO	152.07
RC	51.950	GL	-23.23	GP	-2.20	ZAL	100.89	ZAP	12.53	ETS	9.24	ZAE	148.19	ETE	14.18	ZAC	87.44	ETC	13.63

V1	29.319	V2	34.903	CLP	-12.33														

PLANETOCENTRIC CONIC

C3	13.895	VHL	3.728	DLA	-14.19	RAL	153.92	RAD	6567.5	VEL	11.631	PTH	2.04	VHP	7.011	DPA	1.59	RAP	179.15
ECC	1.2287																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 58 25	1673.93	-3.84	9.61	9.05	118.08	6 26 18	1073.9	-.05	2.98
90.00	14 13 12	5231.95	26.53	235.50	13.84	79.72	15 40 24	4631.9	24.84	227.24
100.00	7 12 12	1435.82	-4.85	351.55	8.49	119.53	7 36 8	835.8	-.88	345.01
100.00	15 42 5	4945.29	27.66	214.17	13.59	78.20	17 4 31	4345.3	25.76	205.89
110.00	8 3 33	1275.00	-7.46	337.74	6.88	123.46	8 24 48	675.0	-3.01	331.49
110.00	17 7 14	4678.87	30.63	193.10	12.75	74.03	18 25 13	4078.9	28.14	184.79

DIFFERENTIAL CORRECTIONS

TOE	.4635	TRA	-.4855	TC3	1.0009	BAU	.1885
ROE	-.2362	RRA	-.0772	RC3	.1672	FAU	.04702
FOE	-.8362	FRA	.2217	FC3	-2.9295	BSP	4007
BOE	.5202	BRA	.4916	BC3	1.0148	FSP	-606

MID-COURSE EXECUTION ACCURACY

SGT	1287.2	SGR	403.0	SG3	221.0		
RRT	-.1378	RRF	.1469	RTF	-.8551		
SGB	1348.8	R23	-.0167	R13	.8554		
SG1	1288.5	SG2	398.7	THA	177.27		

ORBIT DETERMINATION ACCURACY

ST	749.3	SR	365.0	SS	782.2
CRT	-.9147	CRS	-.9815	CST	.9731
LSA	1131.5	MSA	160.2	SSA	20.5
EL1	822.5	EL2	134.4	ALF	155.28

LAUNCH DATE JUN 15 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 23 1967

HELIOCENTRIC CONIC DISTANCE 258.604

RL	151.96	LAL	-.00	LOL	263.23	VL	26.141	GAL	-1.33	AZL	93.22	HCA	110.89	SMA	124.80	ECC	.21878	INC	3.2157
RP	108.54	LAP	-3.00	LOP	14.16	VP	37.176	GAP	-10.21	AZP	88.85	TAL	184.78	TAP	295.67	RCA	97.50	APO	152.10
RC	53.515	GL	-23.84	GP	-2.40	ZAL	102.29	ZAP	14.88	ETS	8.30	ZAE	147.64	ETE	12.92	ZAC	86.69	ETC	13.64

V1	29.319	V2	34.914	CLP	-14.69														

PLANETOCENTRIC CONIC

C3	13.155	VHL	3.627	DLA	-14.18	RAL	152.28	RAD	6567.5	VEL	11.599	PTH	2.03	VHP	6.600	DPA	1.07	RAP	179.82
ECC	1.2165																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 51 49	1662.24	-3.46	8.96	6.70	118.12	6 19 32	1062.2	.32	2.33
90.00	14 6 44	5219.80	26.38	234.65	11.31	79.32	15 33 44	4619.8	24.64	226.41
100.00	7 5 38	1424.12	-4.46	350.91	6.15	119.59	7 29 22	824.1	-.48	344.37
100.00	15 35 37	4933.15	27.49	213.31	11.06	77.77	16 57 50	4333.2	25.53	205.06
110.00	7 56 59	1263.27	-7.02	337.12	4.56	123.54	8 18 2	663.3	-2.56	330.87
110.00	17 0 45	4666.77	30.40	192.23	10.21	73.57	18 18 32	4066.8	27.85	183.96

DIFFERENTIAL CORRECTIONS

TOE	.4648	TRA	-.4529	TC3	1.1029	BAU	.1960
ROE	-.2274	RRA	-.0719	RC3	.1594	FAU	.05163
FOE	-.9128	FRA	.1870	FC3	-3.3979	BSP	4148
BOE	.5175	BRA	.4586	BC3	1.1144	FSP	-690

MID-COURSE EXECUTION ACCURACY

SGT	1312.9	SGR	395.2	SG3	248.1		
RRT	-.1635	RRF	.1739	RTF	-.8634		
SGB	1371.1	R23	-.0194	R13	-.8639		
SG1	1314.7	SG2	389.4	THA	176.91		

ORBIT DETERMINATION ACCURACY

ST	767.3	SR	361.0	SS	824.9
CRT	-.9240	CRS	-.9853	CST	.9736
LSA	1172.3	MSA	157.5	SSA	20.6
EL1	838.5	EL2	126.3	ALF	155.92

LAUNCH DATE JUN 15 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 25 1967

HELIOCENTRIC CONIC DISTANCE 265.294

RL	151.96	LAL	-.00	LOL	263.23	VL	26.255	GAL	-1.47	AZL	93.19	HCA	114.08	SMA	125.51	ECC	.21220	INC	3.1893
RP	108.50	LAP	-2.91	LOP	17.34	VP	37.268	GAP	-9.49	AZP	88.70	TAL	185.47	TAP	299.55	RCA	98.87	APO	152.14
RC	55.163	GL	-24.37	GP	-2.62	ZAL	103.67	ZAP	17.37	ETS	7.61	ZAE	147.34	ETE	11.75	ZAC	86.07	ETC	13.66

V1	29.319	V2	34.926	CLP	-17.17														

PLANETOCENTRIC CONIC

C3	12.521	VHL	3.539	DLA	-14.12	RAL	150.70	RAD	6567.5	VEL	11.572	PTH	2.02	VHP	6.209	DPA	.58	RAP	180.37
ECC	1.2061																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 45 1	1653.66	-3.19	8.48	4.47	118.15	6 12 34	1053.7	.60	1.85
90.00	14 0 57	5207.17	26.22	233.76	8.92	78.90	15 27 44	4607.2	24.42	225.55
100.00	6 58 51	1415.40	-4.16	350.42	3.93	119.63	7 22 27	815.4	-.19	343.89
100.00	15 29 47	4920.66	27.31	212.43	8.66	77.34	16 51 48	4320.7	25.29	204.20
110.00	7 50 18	1254.29	-6.68	336.65	2.38	123.60	8 11 12	654.3	-2.22	330.40
110.00	16 54 50	4654.54	30.17	191.36	7.80	73.10	18 12 25	4054.5	27.56	183.14

DIFFERENTIAL CORRECTIONS

TDE	.4630	TRA	-.4230	TC3	1.1947	BAU	.2015
RDE	-.2196	RRA	-.0672	RC3	.1473	FAU	.05685
FDE	-.9980	FRA	.1489	FC3	-3.9308	BSP	4225
BDE	.5124	BRA	.4283	BC3	1.2037	FSP	-784

MID-COURSE EXECUTION ACCURACY

SGT	1332.5	SGR	387.1	SG3	278.8		
RRT	-.1922	RRF	.2055	RTF	-.8696		
SGB	1387.6	R23	-.0240	R13	.8701		
SG1	1334.8	SG2	379.2	THA	176.52		

ORBIT DETERMINATION ACCURACY

ST	779.4	SR	357.1	SS	868.9
CRT	-.9316	CRS	-.9883	CST	.9737
LSA	1210.5	MSA	156.0	SSA	20.6
EL1	849.0	EL2	119.2	ALF	156.39

LAUNCH DATE JUN 15 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 27 1967

HELIOCENTRIC CONIC DISTANCE 271.971

RL	151.96	LAL	-.00	LOL	263.23	VL	26.358	GAL	-1.59	AZL	93.16	HCA	117.27	SMA	126.16	ECC	.20631	INC	3.1616
RP	108.46	LAP	-2.81	LOP	20.53	VP	37.352	GAP	-8.79	AZP	88.55	TAL	186.14	TAP	303.41	RCA	100.13	APO	152.18
RC	56.885	GL	-24.83	GP	-2.87	ZAL	104.99	ZAP	19.99	ETS	7.09	ZAE	147.32	ETE	10.62	ZAC	85.58	ETC	13.68

V1	29.319	V2	34.938	CLP	-19.79

PLANETOCENTRIC CONIC

C3	11.978	VHL	3.461	DLA	-14.02	RAL	149.20	RAD	6567.5	VEL	11.548	PTH	2.02	VHP	5.838	DPA	.11	RAP	180.79
ECC	1.1971																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 38 5	1647.91	-3.00	8.16	2.39	118.17	6 5 33	1047.9	.79	1.53
90.00	13 55 53	5194.10	26.04	232.84	6.68	78.47	15 22 27	4594.1	24.19	224.66
100.00	6 52 0	1409.43	-3.96	350.10	1.86	119.65	7 15 29	809.4	.02	343.57
100.00	15 24 39	4907.82	27.11	211.52	6.42	76.91	16 46 27	4307.8	25.04	203.33
110.00	7 43 36	1247.83	-6.44	336.30	.33	123.64	8 4 24	647.8	-1.97	330.07
110.00	16 49 33	4642.18	29.92	190.48	5.55	72.64	18 6 55	4042.2	27.25	182.30

DIFFERENTIAL CORRECTIONS

TDE	.4575	TRA	-.3951	TC3	1.2707	BAU	.2045
RDE	-.2125	RRA	-.0630	RC3	.1307	FAU	.06267
FDE	-1.0911	FRA	.1058	FC3	-4.5296	BSP	4262
BDE	.5044	BRA	.4000	BC3	1.2774	FSP	-890

MID-COURSE EXECUTION ACCURACY

SGT	1342.3	SGR	378.9	SG3	313.0		
RRT	-.2251	RRF	.2423	RTF	-.8734		
SGB	1394.7	R23	-.0305	R13	.8742		
SG1	1345.2	SG2	368.3	THA	176.07		

ORBIT DETERMINATION ACCURACY

ST	784.4	SR	353.4	SS	912.7
CRT	-.9378	CRS	-.9909	CST	.9733
LSA	1244.4	MSA	155.6	SSA	20.4
EL1	852.8	EL2	112.9	ALF	156.66

LAUNCH DATE JUN 15 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 29 1967

HELIOCENTRIC CONIC DISTANCE 278.633

RL	151.96	LAL	-.00	LOL	263.23	VL	26.451	GAL	-1.70	AZL	93.13	HCA	120.46	SMA	126.74	ECC	.20103	INC	3.1323
RP	108.43	LAP	-2.70	LOP	23.73	VP	37.429	GAP	-8.12	AZP	88.41	TAL	186.80	TAP	307.26	RCA	101.26	APO	152.22
RC	58.673	GL	-25.20	GP	-3.17	ZAL	106.26	ZAP	22.78	ETS	6.71	ZAE	147.57	ETE	9.53	ZAC	85.25	ETC	13.71

V1	29.319	V2	34.951
CLP	-22.57		

PLANETOCENTRIC CONIC

C3	11.510	VHL	3.393	DLA	-13.87	RAL	147.79	RAD	6567.4	VEL	11.528	PTH	2.01	VHP	5.487	DPA	-.33	RAP	181.04
ECC	1.1894																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 31 9	1644.73	-2.90	7.98	.46	118.18	5 58 34	1044.7	.89	1.35
90.00	13 51 34	5180.62	25.86	231.90	4.60	78.03	15 17 55	4580.6	23.95	223.75
100.00	6 45 10	1405.92	-3.84	349.90	359.94	119.67	7 8 36	805.9	.14	343.37
100.00	15 20 14	4894.66	26.91	210.60	4.33	76.46	16 41 49	4294.7	24.78	202.44
110.00	7 36 59	1243.64	-6.28	336.08	358.43	123.67	7 57 43	643.6	-1.81	329.85
110.00	16 44 55	4629.70	29.66	189.60	3.45	72.17	18 2 5	4029.7	26.94	181.47

DIFFERENTIAL CORRECTIONS

TDE	.4498	TRA	-.3686	TC3	1.3346	BAU	.2060
RDE	-.2064	RRA	-.0594	RC3	.1087	FAU	.06929
FDE	-1.1951	FRA	.0573	FC3	-5.2118	BSP	4284
BDE	.4949	BRA	.3734	BC3	1.3390	FSP	-1011

MID-COURSE EXECUTION ACCURACY

SGT	1344.7	SGR	371.0	SG3	351.9		
RRT	-.2641	RRF	.2862	RTF	-.8763		
SGB	1394.9	R23	-.0386	R13	.8773		
SG1	1348.5	SG2	356.8	THA	175.52		

ORBIT DETERMINATION ACCURACY

ST	784.0	SR	350.0	SS	958.2
CRT	-.9430	CRS	-.9929	CST	.9728
LSA	1277.0	MSA	155.7	SSA	20.1
EL1	851.9	EL2	107.2	ALF	156.78

LAUNCH DATE JUN 15 1967 FLIGHT TIME 108.00 ARRIVAL DATE OCT 1 1967

HELIOCENTRIC CONIC DISTANCE 285.279

RL	151.96	LAL	-.00	LOL	263.23	VL	26.534	GAL	-1.81	AZL	93.10	HCA	123.65	SMA	127.28	ECC	.19635	INC	3.1009
RP	108.39	LAP	-2.58	LOP	26.92	VP	37.499	GAP	-7.47	AZP	88.28	TAL	187.43	TAP	311.08	RCA	102.29	APO	152.27
RC	60.521	GL	-25.50	GP	-3.50	ZAL	107.45	ZAP	25.74	ETS	6.42	ZAE	148.11	ETE	8.42	ZAC	85.10	ETC	13.74

V1	29.319	V2	34.964
CLP	-25.52		

PLANETOCENTRIC CONIC

C3	11.106	VHL	3.333	DLA	-13.68	RAL	146.49	RAD	6567.4	VEL	11.511	PTH	2.00	VHP	5.156	DPA	-.73	RAP	181.13
ECC	1.1828																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 24 19	1643.82	-2.87	7.93	358.69	118.18	5 51 43	1043.8	.92	1.30
90.00	13 48 1	5166.75	25.66	230.93	2.68	77.59	15 14 8	4566.7	23.69	222.81
100.00	6 38 28	1404.60	-3.80	349.83	358.18	119.67	7 1 52	804.6	.18	343.30
100.00	15 16 33	4881.20	26.69	209.66	2.41	76.01	16 37 55	4281.2	24.50	201.54
110.00	7 30 33	1241.47	-6.20	335.97	356.69	123.68	7 51 14	641.5	-1.73	329.73
110.00	16 40 58	4617.09	29.40	188.71	1.52	71.71	17 57 55	4017.1	26.62	180.63

DIFFERENTIAL CORRECTIONS

TDE	.4410	TRA	-.3418	TC3	1.3894	BAU	.2066
RDE	-.2013	RRA	-.0565	RC3	.0804	FAU	.07696
FDE	-1.3138	FRA	-.0010	FC3	-5.9992	BSP	4318
BDE	.4848	BRA	.3465	BC3	1.3917	FSP	-1155

MID-COURSE EXECUTION ACCURACY

SGT	1341.0	SGR	364.2	SG3	396.8		
RRT	-.3118	RRF	.3393	RTF	-.8792		
SGB	1389.6	R23	-.0481	R13	.8805		
SG1	1346.2	SG2	344.7	THA	174.82		

ORBIT DETERMINATION ACCURACY

ST	780.1	SR	347.4	SS	1007.6
CRT	-.9480	CRS	-.9946	CST	.9724
LSA	1311.4	MSA	155.8	SSA	19.7
EL1	847.9	EL2	101.7	ALF	156.76

LAUNCH DATE JUN 15 1967 FLIGHT TIME 110.00 ARRIVAL DATE OCT 3 1967

HELIOCENTRIC CONIC DISTANCE 291.907

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.607 GAL  -1.90 AZL  93.07 HCA 126.84 SMA 127.75 ECC .19220 INC 3.0671 VI  29.319
RP  108.35 LAP  -2.45 LOP  30.12 VP  37.563 GAP  -6.84 AZP  88.16 TAL 188.01 TAP 314.86 RCA 103.20 APO 152.31 V2  34.977
RC  62.420 GL  -25.71 GP   -3.89 ZAL 108.55 ZAP  28.90 ETS   6.19 ZAE 148.96 ETE   7.26 ZAC  85.15 ETC  13.77 CLP -28.66
```

PLANETOCENTRIC CONIC

```
C3  10.756 VHL  3.280 DLA -13.46 RAL 145.31 RAO 6567.4 VEL 11.495 PTH   2.00 VHP  4.845 OPA  -1.10 RAP 181.01 ECC 1.1770
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 17 40	1644.89	-2.91	7.99	357.09	118.18	5 45 5	1044.9	.89	1.36
90.00	13 45 14	5152.53	25.45	229.94	.94	77.14	15 11 7	4552.5	23.42	221.86
100.00	6 31 58	1405.19	-3.82	349.86	356.58	119.67	6 55 23	805.2	.16	343.33
100.00	15 13 38	4867.45	26.46	208.70	.66	75.56	16 34 45	4267.5	24.21	200.62
110.00	7 24 22	1241.07	-6.18	335.95	355.12	123.69	7 45 3	641.1	-1.71	329.71
110.00	16 37 43	4604.34	29.12	187.82	359.77	71.25	17 54 27	4004.3	26.28	179.79

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .4274 TRA -.3194 TC3 1.4154 BAU  .2036   SGT 1322.4 SGR  358.9 SG3  446.6      ST   766.7 SR   345.4 SS  1057.1
RDE -.1970 RRA -.0541 RC3  .0458 FAU .08545   RRT -.3653 RRF  .4007 RTF -.8786     CRT -.9513 CRS -.9959 CST  .9712
FDE-1.4432 FRA -.0628 FC3-6.8782 BSP   4262   SGB 1370.2 R23 -.0624 R13  .8806     LSA 1341.5 MSA  157.0 SSA   19.2
BDE  .4706 BRA  .3240 BC3 1.4162 FSP  -1311   SG1 1329.3 SG2  332.4 THA 173.96     EL1  835.2 EL2   97.8 ALF 156.46
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 112.00 ARRIVAL DATE OCT 5 1967

HELIOCENTRIC CONIC DISTANCE 298.517

```
RL  151.96 LAL   -.08 LOL 263.23 VL  26.672 GAL  -1.97 AZL  93.03 HCA 130.04 SMA 128.18 ECC .18855 INC 3.0302 VI  29.319
RP  108.31 LAP  -2.32 LOP  33.31 VP  37.621 GAP  -6.24 AZP  88.05 TAL 188.55 TAP 318.59 RCA 104.01 APO 152.35 V2  34.990
RC  64.367 GL  -25.85 GP   -4.34 ZAL 109.56 ZAP  32.28 ETS   6.03 ZAE 150.13 ETE   6.01 ZAC  85.42 ETC  13.80 CLP -32.02
```

PLANETOCENTRIC CONIC

```
C3  10.448 VHL  3.232 DLA -13.21 RAL 144.25 RAO 6567.4 VEL 11.482 PTH   2.00 VHP  4.555 OPA  -1.45 RAP 180.68 ECC 1.1719
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 11 17	1647.70	-3.00	8.15	355.66	118.17	5 38 44	1047.7	.79	1.52
90.00	13 43 14	5137.93	25.22	228.93	359.36	76.68	15 8 52	4537.9	23.14	220.88
100.00	6 25 44	1407.46	-3.89	349.99	355.16	119.66	6 49 12	807.5	.08	343.46
100.00	15 11 28	4853.39	26.22	207.73	359.09	75.10	16 32 21	4253.4	23.91	199.68
110.00	7 18 30	1242.22	-6.22	336.01	353.72	123.68	7 39 12	642.2	-1.76	329.77
110.00	16 35 12	4591.40	28.83	186.93	358.18	70.79	17 51 43	3991.4	25.94	178.94

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .4086 TRA -.3003 TC3 1.4134 BAU  .1974   SGT 1287.7 SGR  356.2 SG3  502.0      ST   743.1 SR   344.4 SS  1105.7
RDE -.1936 RRA -.0523 RC3  .0035 FAU .09489   RRT -.4240 RRF  .4705 RTF -.8749     CRT -.9530 CRS -.9969 CST  .9693
FDE-1.5822 FRA -.1300 FC3-7.8630 BSP   4152   SGB 1336.1 R23 -.0828 R13  .8779     LSA 1366.7 MSA  158.7 SSA   18.6
BDE  .4521 BRA  .3048 BC3 1.4134 FSP  -1486   SG1 1297.1 SG2  320.3 THA 172.87     EL1  813.5 EL2   95.3 ALF 155.81
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 114.00 ARRIVAL DATE OCT 7 1967

HELIOCENTRIC CONIC DISTANCE 305.107

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.728 GAL  -2.04 AZL  92.99 HCA 133.24 SMA 128.56 ECC .18536 INC 2.9898 VI  29.319
RP  108.27 LAP  -2.18 LOP  36.51 VP  37.674 GAP  -5.65 AZP  87.95 TAL 189.04 TAP 322.28 RCA 104.73 APO 152.38 V2  35.003
RC  66.356 GL  -25.90 GP   -4.86 ZAL 110.47 ZAP  35.91 ETS   5.89 ZAE 151.62 ETE   4.57 ZAC  85.94 ETC  13.82 CLP -35.62
```

PLANETOCENTRIC CONIC

```
C3  10.174 VHL  3.190 DLA -12.93 RAL 143.34 RAO 6567.4 VEL 11.470 PTH   1.99 VHP  4.286 OPA  -1.76 RAP 180.10 ECC 1.1674
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 5 11	1652.08	-3.14	8.39	354.39	118.16	5 32 43	1052.1	.65	1.76
90.00	13 42 2	5122.87	24.98	227.89	357.96	76.21	15 7 25	4522.9	22.84	219.88
100.00	6 19 49	1411.26	-4.02	350.20	353.90	119.65	6 43 21	811.3	-.05	343.67
100.00	15 10 5	4838.93	25.96	206.73	357.68	74.63	16 30 44	4238.9	23.60	198.72
110.00	7 12 59	1244.76	-6.32	336.14	352.48	123.66	7 33 44	644.8	-1.85	329.91
110.00	16 33 25	4578.19	28.53	186.01	356.77	70.33	17 49 43	3978.2	25.59	178.08

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .3864 TRA -.2840 TC3 1.3838 BAU  .1883   SGT 1239.0 SGR  357.8 SG3  564.0      ST   712.1 SR   345.0 SS  1156.8
RDE -.1914 RRA -.0511 RC3 -.0480 FAU .10544   RRT -.4881 RRF  .5490 RTF -.8680     CRT -.9534 CRS -.9976 CST  .9667
FDE-1.7355 FRA -.2031 FC3-8.9719 BSP   4007   SGB 1289.6 R23 -.1113 R13  .8727     LSA 1392.2 MSA  160.8 SSA   17.9
BDE  .4312 BRA  .2886 BC3 1.3847 FSP  -1686   SG1 1252.1 SG2  309.0 THA 171.45     EL1  785.6 EL2   94.3 ALF 154.82
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 9 1967

HELIOCENTRIC CONIC DISTANCE 311.678

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.778 GAL  -2.10 AZL  92.94 HCA 136.44 SMA 128.89 ECC .18258 INC 2.9448 VI  29.319
RP  108.22 LAP  -2.03 LOP  39.71 VP  37.721 GAP  -5.08 AZP  87.86 TAL 189.46 TAP 325.91 RCA 105.35 APO 152.42 V2  35.016
RC  68.382 GL  -25.87 GP   -5.47 ZAL 111.27 ZAP  39.79 ETS   5.79 ZAE 153.45 ETE   2.85 ZAC  86.72 ETC  13.83 CLP -39.47
```

PLANETOCENTRIC CONIC

```
C3   9.928 VHL  3.151 DLA -12.61 RAL 142.57 RAO 6567.4 VEL 11.459 PTH   1.99 VHP  4.038 OPA  -2.04 RAP 179.26 ECC 1.1634
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 59 24	1657.94	-3.32	8.72	353.30	118.14	5 27 2	1057.9	.46	2.09
90.00	13 41 40	5107.22	24.72	226.82	356.73	75.73	15 6 47	4507.2	22.52	218.84
100.00	6 14 15	1416.46	-4.20	350.48	352.81	119.62	6 37 51	816.5	-.22	343.95
100.00	15 9 31	4823.93	25.68	205.70	356.45	74.16	16 29 55	4223.9	23.26	197.74
110.00	7 7 51	1248.60	-6.47	336.35	351.41	123.64	7 28 39	648.6	-2.00	330.11
110.00	16 32 24	4564.55	28.22	185.08	355.52	69.85	17 48 29	3964.6	25.21	177.19

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .3605 TRA -.2704 TC3 1.3269 BAU  .1767   SGT 1176.0 SGR  365.8 SG3  633.3      ST   673.3 SR   347.6 SS  1209.8
RDE -.1905 RRA -.0506 RC3 -.1109 FAU .11722   RRT -.5534 RRF  .6332 RTF -.8571     CRT -.9525 CRS -.9981 CST  .9631
FDE-1.9020 FRA -.2822 FC-10.2222 BSP   3830   SGB 1231.6 R23 -.1510 R13  .8650     LSA 1418.1 MSA  162.7 SSA   17.1
BDE  .4078 BRA  .2751 BC3 1.3316 FSP  -1913   SG1 1194.5 SG2  299.9 THA 169.57     EL1  751.7 EL2   94.8 ALF 153.35
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 11 1967

HELIOCENTRIC CONIC DISTANCE 318.229

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.820 GAL  -2.14 AZL  92.89 HCA 139.65 SMA 129.17 ECC .18019 INC 2.8942 V1  29.319
RP  108.18 LAP  -1.87 LOP  42.92 VP  37.763 GAP  -4.53 AZP  87.79 TAL 189.82 TAP 329.47 RCA 105.89 APO 152.45 V2  35.029
RC  70.443 GL  -25.75 GP   -6.17 ZAL 111.97 ZAP  43.95 ETS   5.69 ZAE 155.61 ETE    .65 ZAC  87.79 ETC  13.81 CLP -43.60
```

PLANETOCENTRIC CONIC

```
C3   9.700 VHL  3.115 DLA -12.26 RAL 141.95 RAO 6567.3 VEL 11.449 PTH   1.99 VHP  3.813 DPA  -2.31 RAP 178.13 ECC 1.1596
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 53 57	1665.23	-3.56	9.13	352.37	118.11	5 21 43	1065.2	.23	2.49
90.00	13 42 11	5090.75	24.44	225.70	355.67	75.24	15 7 1	4490.8	22.18	217.76
100.00	6 9 1	1423.04	-4.42	350.85	351.89	119.59	6 32 44	823.0	-.45	344.31
100.00	15 9 48	4808.17	25.39	204.62	355.38	73.67	16 29 56	4208.2	22.90	196.70
110.00	7 3 6	1253.69	-6.66	336.61	350.51	123.61	7 23 59	653.7	-2.19	330.37
110.00	16 32 13	4550.29	27.88	184.11	354.44	69.37	17 48 3	3950.3	24.82	176.27

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .3273 TRA -.2624 TC3 1.2216 BAU  .1603   SGT 1088.9 SGR  381.8 SG3  706.7     ST   620.5 SR   352.3 SS  1258.2
RDE -.1908 RRA -.0506 RC3 -.1860 FAU .12964   RRT -.6075 RRF  .7161 RTF -.8357     CRT -.9481 CRS -.9985 CST  .9568
FDE-2.0696 FRA -.3590 FC-11.5701 BSP  3544    SGB 1153.9 R23 -.2110 R13  .8502     LSA 1436.9 MSA  165.2 SSA   16.3
BDE  .3789 BRA  .2673 BC3 1.2357 FSP -2149    SG1 1115.3 SG2  296.1 THA 167.05     EL1  706.8 EL2   98.3 ALF 151.10
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 13 1967

HELIOCENTRIC CONIC DISTANCE 324.759

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.856 GAL  -2.17 AZL  92.84 HCA 142.85 SMA 129.41 ECC .17816 INC 2.8363 V1  29.319
RP  108.14 LAP  -1.71 LOP  46.12 VP  37.801 GAP  -4.00 AZP  87.74 TAL 190.12 TAP 332.97 RCA 106.36 APO 152.47 V2  35.042
RC  72.534 GL  -25.54 GP   -7.01 ZAL 112.56 ZAP  48.40 ETS   5.58 ZAE 158.08 ETE 357.69 ZAC  89.15 ETC  13.76 CLP -48.01
```

PLANETOCENTRIC CONIC

```
C3   9.486 VHL  3.080 DLA -11.87 RAL 141.49 RAO 6567.3 VEL 11.440 PTH   1.98 VHP  3.612 DPA  -2.58 RAP 176.70 ECC 1.1561
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 48 47	1674.09	-3.84	9.62	351.61	118.08	5 16 42	1074.1	-.06	2.99
90.00	13 43 38	5073.11	24.13	224.50	354.76	74.71	15 8 11	4473.1	21.80	216.60
100.00	6 4 6	1431.12	-4.69	351.29	351.14	119.56	6 27 57	831.1	-.72	344.76
100.00	15 11 1	4791.31	25.06	203.47	354.46	73.15	16 30 52	4191.3	22.51	195.60
110.00	6 58 42	1260.11	-6.90	336.95	349.78	123.56	7 19 42	660.1	-2.44	330.71
110.00	16 32 54	4535.08	27.51	183.08	353.52	68.86	17 48 29	3935.1	24.39	175.30

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .2886 TRA -.2588 TC3 1.0739 BAU  .1407   SGT  983.8 SGR  408.7 SG3  784.4     ST   557.1 SR   359.7 SS  1302.9
RDE -.1927 RRA -.0511 RC3 -.2771 FAU .14280   RRT -.6406 RRF  .7926 RTF -.7995     CRT -.9394 CRS -.9988 CST  .9468
FDE-2.2366 FRA -.4309 FC-13.0321 BSP  3205    SGB 1065.3 R23 -.2946 R13  .8281     LSA 1452.2 MSA  167.7 SSA   15.4
BDE  .3470 BRA  .2638 BC3 1.1091 FSP -2402    SG1 1021.5 SG2  302.3 THA 163.62     EL1  654.7 EL2  104.9 ALF 147.84
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 15 1967

HELIOCENTRIC CONIC DISTANCE 331.268

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.886 GAL  -2.19 AZL  92.77 HCA 146.06 SMA 129.62 ECC .17644 INC 2.7691 V1  29.319
RP  108.10 LAP  -1.55 LOP  49.33 VP  37.834 GAP  -3.48 AZP  87.70 TAL 190.34 TAP 336.40 RCA 106.75 APO 152.48 V2  35.056
RC  74.652 GL  -25.22 GP   -7.99 ZAL 113.05 ZAP  53.14 ETS   5.44 ZAE 160.82 ETE 353.44 ZAC  90.83 ETC  13.65 CLP -52.71
```

PLANETOCENTRIC CONIC

```
C3   9.278 VHL  3.046 DLA -11.42 RAL 141.18 RAO 6567.3 VEL 11.431 PTH   1.98 VHP  3.436 DPA  -2.87 RAP 174.95 ECC 1.1527
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 43 50	1684.81	-4.19	10.22	351.01	118.03	5 11 55	1084.8	-.40	3.59
90.00	13 46 11	5053.73	23.78	223.19	354.01	74.15	15 10 25	4453.7	21.37	215.34
100.00	5 59 25	1440.98	-5.02	351.84	350.55	119.51	6 23 26	841.0	-1.05	345.30
100.00	15 13 17	4772.80	24.69	202.23	353.71	72.59	16 32 50	4172.8	22.07	194.40
110.00	6 54 37	1268.11	-7.20	337.38	349.21	123.51	7 15 45	668.1	-2.74	331.12
110.00	16 34 35	4518.43	27.10	181.96	352.76	68.32	17 49 53	3918.4	23.91	174.25

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .2457 TRA -.2578 TC3  .8829 BAU  .1197   SGT  864.6 SGR  450.5 SG3  866.5     ST   485.6 SR   371.1 SS  1346.6
RDE -.1966 RRA -.0524 RC3 -.3888 FAU .15657   RRT -.6381 RRF  .8580 RTF -.7377     CRT -.9240 CRS -.9991 CST  .9304
FDE-2.4027 FRA -.5041 FC-14.6094 BSP  2852    SGB  974.9 R23 -.3976 R13  .7995     LSA 1468.9 MSA  169.8 SSA   14.5
BDE  .3146 BRA  .2631 BC3  .9647 FSP -2679    SG1  918.7 SG2  326.4 THA 158.81     EL1  600.3 EL2  114.7 ALF 143.21
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 17 1967

HELIOCENTRIC CONIC DISTANCE 337.757

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.910 GAL  -2.20 AZL  92.69 HCA 149.27 SMA 129.78 ECC .17501 INC 2.6898 V1  29.319
RP  108.06 LAP  -1.37 LOP  52.53 VP  37.864 GAP  -2.98 AZP  87.69 TAL 190.49 TAP 339.76 RCA 107.07 APO 152.49 V2  35.069
RC  76.795 GL  -24.77 GP   -9.15 ZAL 113.44 ZAP  58.15 ETS   5.24 ZAE 163.72 ETE 346.93 ZAC  92.80 ETC  13.47 CLP -57.69
```

PLANETOCENTRIC CONIC

```
C3   9.071 VHL  3.012 DLA -10.90 RAL 141.05 RAO 6567.3 VEL 11.422 PTH   1.98 VHP  3.285 DPA  -3.22 RAP 172.88 ECC 1.1493
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 38 57	1697.93	-4.61	10.96	350.58	117.97	5 7 15	1097.9	-.83	4.32
90.00	13 50 0	5031.84	23.36	221.72	353.40	73.53	15 13 52	4431.8	20.88	213.92
100.00	5 54 51	1453.10	-5.43	352.51	350.13	119.44	6 19 4	853.1	-1.46	345.96
100.00	15 16 48	4751.91	24.26	200.82	353.10	71.97	16 36 0	4151.9	21.56	193.06
110.00	6 50 44	1278.10	-7.57	337.91	348.81	123.43	7 12 2	678.1	-3.13	331.65
110.00	16 37 24	4499.67	26.62	180.71	352.14	67.72	17 52 24	3899.7	23.36	173.06

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .1952 TRA -.2629 TC3  .6303 BAU  .0993   SGT  735.8 SGR  507.4 SG3  944.9     ST   401.7 SR   385.4 SS  1374.7
RDE -.2019 RRA -.0535 RC3 -.5231 FAU .16970   RRT -.5608 RRF  .9077 RTF -.6153     CRT -.8911 CRS -.9992 CST  .8972
FDE-2.5357 FRA -.5510 FC-16.1974 BSP  2450    SGB  893.8 R23 -.5092 R13  .7623     LSA 1473.1 MSA  172.3 SSA   13.6
BDE  .2808 BRA  .2683 BC3  .8191 FSP -2938    SG1  807.7 SG2  382.7 THA 152.07     EL1  541.3 EL2  129.8 ALF 136.33
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 19 1967

HELIOCENTRIC CONIC DISTANCE 344.224

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.929 GAL  -2.20 AZL  92.59 HCA 152.49 SMA 129.91 ECC .17385 INC 2.5936 V1  29.319
RP  108.02 LAP  -1.20 LOP  55.74 VP  37.889 GAP  -2.49 AZP  87.70 TAL 190.56 TAP 343.05 RCA 107.33 APO 152.50 V2  35.082
RC  78.958 GL  -24.16 GP  -10.53 ZAL 113.73 ZAP  63.41 ETS   4.96 ZAE 166.52 ETE 336.39 ZAC  95.07 ETC  13.18 CLP -62.92
```

PLANETOCENTRIC CONIC

```
C3   8.856 VHL  2.976 DLA -10.26 RAL 141.10 RAD 6567.3 VEL 11.413 PTH   1.98 VHP  3.162 DPA  -3.69 RAP 170.50 ECC 1.1457
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 33 56	1714.40	-5.13	11.89	350.32	117.89	5 2 31	1114.4	-1.36	5.24
90.00	13 55 25	5006.18	22.85	220.01	352.94	72.81	15 18 51	4406.2	20.29	212.27
100.00	5 50 12	1468.38	-5.94	353.36	349.87	119.35	6 14 40	868.4	-1.98	346.80
100.00	15 21 50	4727.42	23.73	199.19	352.63	71.27	16 40 38	4127.4	20.95	191.50
110.00	6 46 53	1290.85	-8.05	338.59	348.58	123.33	7 8 24	690.8	-3.61	332.31
110.00	16 41 38	4477.72	26.04	179.26	351.66	67.03	17 56 16	3877.7	22.70	171.70

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .1406 TRA -.2707 TC3  .3226 BAU  .0900   SGT  625.1 SGR  584.1 SG3 1018.7     ST   313.9 SR   403.7 SS  1389.6
 RDE -.2089 RRA -.0548 RC3 -.6883 FAU .18196   RRT -.3580 RRF  .9432 RTF -.3805     CRT -.8193 CRS -.9994 CST  .8260
 FDE-2.6303 FRA -.5782 FC-17.7881 BSP   2148   SGB  855.5 R23 -.5649 R13  .7568     LSA 1470.3 MSA  174.4 SSA   12.7
 BDE  .2518 BRA  .2762 BC3  .7601 FSP  -3178   SG1  706.4 SG2  482.6 THA 140.37     EL1  489.4 EL2  148.5 ALF 126.38
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 21 1967

HELIOCENTRIC CONIC DISTANCE 350.670

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.944 GAL  -2.19 AZL  92.47 HCA 155.70 SMA 130.01 ECC .17293 INC 2.4742 V1  29.319
RP  107.98 LAP  -1.02 LOP  58.96 VP  37.912 GAP  -2.01 AZP  87.74 TAL 190.56 TAP 346.26 RCA 107.53 APO 152.49 V2  35.094
RC  81.139 GL  -23.31 GP  -12.22 ZAL 113.93 ZAP  68.88 ETS   4.55 ZAE 168.67 ETE 319.14 ZAC  97.58 ETC  12.74 CLP -68.37
```

PLANETOCENTRIC CONIC

```
C3   8.627 VHL  2.937 DLA  -9.45 RAL 141.35 RAD 6567.3 VEL 11.403 PTH   1.97 VHP  3.070 DPA  -4.36 RAP 167.81 ECC 1.1420
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 28 27	1735.77	-5.81	13.09	350.23	117.76	4 57 22	1135.8	-2.05	6.43
90.00	14 2 54	4974.81	22.21	217.93	352.62	71.97	15 25 49	4374.8	19.54	210.28
100.00	5 45 9	1488.31	-6.60	354.46	349.80	119.22	6 9 57	888.3	-2.66	347.90
100.00	15 28 53	4697.50	23.06	197.22	352.30	70.44	16 47 11	4097.5	20.18	189.61
110.00	6 42 51	1307.65	-8.68	339.48	348.53	123.19	7 4 38	707.7	-4.25	333.20
110.00	16 47 41	4450.92	25.32	177.52	351.32	66.23	18 1 52	3850.9	21.89	170.05

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .0842 TRA -.2798 TC3 -.0425 BAU  .1032   SGT  577.8 SGR  684.5 SG3 1083.5     ST   233.6 SR   426.5 SS  1387.9
 RDE -.2178 RRA -.0560 RC3 -.8939 FAU .19251   RRT  .0115 RRF  .9670 RTF  .0087     CRT -.6454 CRS -.9995 CST  .6535
 FDE-2.6711 FRA -.5808 FC-19.3194 BSP   2146   SGB  895.8 R23  .0299 R13  .9665     LSA 1460.0 MSA  176.0 SSA   11.7
 BDE  .2336 BRA  .2854 BC3  .8949 FSP  -3404   SG1  684.6 SG2  577.7 THA  88.07     EL1  456.9 EL2  166.6 ALF 112.64
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 23 1967

HELIOCENTRIC CONIC DISTANCE 357.095

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.954 GAL  -2.16 AZL  92.32 HCA 158.92 SMA 130.08 ECC .17224 INC 2.3208 V1  29.319
RP  107.94 LAP   -.83 LOP  62.17 VP  37.930 GAP  -1.55 AZP  87.83 TAL 190.48 TAP 349.41 RCA 107.67 APO 152.48 V2  35.107
RC  83.336 GL  -22.15 GP  -14.31 ZAL 114.06 ZAP  74.49 ETS   3.95 ZAE 169.17 ETE 294.97 ZAC 100.31 ETC  12.10 CLP -73.98
```

PLANETOCENTRIC CONIC

```
C3   8.373 VHL  2.894 DLA  -8.38 RAL 141.83 RAD 6567.3 VEL 11.391 PTH   1.97 VHP  3.009 DPA  -5.37 RAP 164.84 ECC 1.1378
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 21 54	1764.73	-6.73	14.72	350.35	117.57	4 51 19	1164.7	-2.98	8.05
90.00	14 13 19	4934.59	21.34	215.31	352.43	70.93	15 35 33	4334.6	18.54	207.75
100.00	5 39 11	1515.42	-7.50	355.97	349.93	119.02	6 4 27	915.4	-3.57	349.39
100.00	15 38 43	4659.13	22.16	194.73	352.11	69.41	16 56 22	4059.1	19.16	187.22
110.00	6 38 10	1330.74	-9.54	340.72	348.69	122.98	7 0 21	730.7	-5.13	334.41
110.00	16 56 14	4416.58	24.36	175.31	351.11	65.24	18 9 50	3816.6	20.81	167.96

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .0272 TRA -.2902 TC3 -.4750 BAU  .1393   SGT  644.8 SGR  810.9 SG3 1128.6     ST   182.5 SR   451.0 SS  1351.5
 RDE -.2269 RRA -.0553 RC3-1.1505 FAU .19963   RRT  .4268 RRF  .9817 RTF  .4304     CRT -.2216 CRS -.9996 CST  .2318
 FDE-2.6140 FRA -.5334 FC-20.6401 BSP   2548   SGB 1036.0 R23  .3176 R13  .9290     LSA 1425.4 MSA  177.6 SSA   10.9
 BDE  .2285 BRA  .2954 BC3 1.2447 FSP  -3556   SG1  889.1 SG2  531.8 THA  59.22     EL1  453.1 EL2  177.2 ALF  96.05
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 25 1967

HELIOCENTRIC CONIC DISTANCE 363.499

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.959 GAL  -2.12 AZL  92.12 HCA 162.14 SMA 130.12 ECC .17176 INC 2.1147 V1  29.319
RP  107.91 LAP   -.65 LOP  65.39 VP  37.946 GAP  -1.10 AZP  87.99 TAL 190.34 TAP 352.48 RCA 107.77 APO 152.47 V2  35.119
RC  85.546 GL  -20.47 GP  -17.00 ZAL 114.14 ZAP  80.13 ETS   3.09 ZAE 167.21 ETE 271.91 ZAC 103.18 ETC  11.13 CLP -79.67
```

PLANETOCENTRIC CONIC

```
C3   8.083 VHL  2.843 DLA  -6.88 RAL 142.61 RAD 6567.3 VEL 11.379 PTH   1.97 VHP  2.987 DPA  -6.91 RAP 161.58 ECC 1.1330
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 13 19	1806.17	-8.02	17.08	350.72	117.25	4 43 26	1206.2	-4.31	10.37
90.00	14 28 7	4879.96	20.08	211.79	352.40	69.61	15 49 27	4280.0	17.12	204.36
100.00	5 31 23	1554.36	-8.78	358.16	350.32	118.69	5 57 17	954.4	-4.88	351.54
100.00	15 52 44	4607.00	20.88	191.39	352.07	68.11	17 9 31	4007.0	17.72	184.01
110.00	6 32 7	1364.21	-10.77	342.53	349.12	122.64	6 54 51	764.2	-6.39	336.17
110.00	17 8 30	4369.92	23.00	172.37	351.05	63.98	18 21 20	3769.9	19.31	165.18

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE -.0238 TRA -.2973 TC3 -.9697 BAU  .1917   SGT  818.9 SGR  974.7 SG3 1151.5     ST   188.0 SR   475.8 SS  1275.8
 RDE -.2352 RRA -.0524 RC3-1.4860 FAU .20282   RRT  .6926 RRF  .9905 RTF  .6954     CRT  .3231 CRS -.9997 CST -.3129
 FDE-2.4427 FRA -.4433 FC-21.7238 BSP   3347   SGB 1273.0 R23  .2935 R13  .9461     LSA 1362.9 MSA  178.4 SSA   10.0
 BDE  .2364 BRA  .3019 BC3 1.7744 FSP  -3646   SG1 1174.9 SG2  490.0 THA  52.09     EL1  480.3 EL2  176.3 ALF  81.58
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 27 1967

HELIOCENTRIC CONIC DISTANCE 369.883

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.961 GAL  -2.08 AZL  91.82 HCA 165.37 SMA 130.13 ECC .17146 INC 1.8209 V1  29.319
RP  107.87 LAP   -.46 LOP  68.60 VP  37.958 GAP   -.66 AZP  88.24 TAL 190.12 TAP 355.48 RCA 107.82 APO 152.44 V2  35.131
RC  87.767 GL  -17.93 GP  -20.61 ZAL 114.19 ZAP  85.68 ETS   1.82 ZAE 162.94 ETE 257.13 ZAC 106.14 ETC   9.66 CLP -85.38
```

PLANETOCENTRIC CONIC

```
C3   7.739 VHL  2.782 DLA  -4.61 RAL 143.81 RAD 6567.3 VEL 11.364 PTH   1.96 VHP  3.012 DPA  -9.33 RAP 157.98 ECC 1.1274
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 0 47	1869.79	-9.99	20.72	351.49	116.63	4 31 57	1269.8	-6.33	13.95
90.00	14 50 10	4800.34	18.11	206.78	352.58	67.86	16 10 11	4200.3	14.95	199.53
100.00	5 19 58	1614.38	-10.72	1.55	351.10	118.07	5 46 52	1014.4	-6.89	354.86
100.00	16 13 41	4530.99	18.88	186.63	352.24	66.38	17 29 12	3931.0	15.52	179.44
110.00	6 23 15	1416.26	-12.67	345.37	349.95	122.02	6 46 51	816.3	-8.35	338.94
110.00	17 26 54	4301.86	20.90	168.20	351.21	62.32	18 38 35	3701.9	17.03	161.21

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
 TOE -.0611 TRA -.2980 TC3-1.5407 BAU  .2560   SGT 1062.8 SGR 1185.4 SG3 1136.6          ST   224.9 SR   488.5 SS  1125.3
 ROE -.2363 RRA -.0430 RC3-1.9360 FAU .19951   RRT  .8249 RRF  .9954 RTF  .8258          CRT  .6095 CRS -.9997 CST -.5999
 FDE-2.0899 FRA -.2832 FC-22.3188 BSP   4425   SGB 1592.1 R23  .2511 R13  .9633          LSA 1234.3 MSA  178.7 SSA     9.5
 BDE  .2441 BRA  .3010 BC3 2.4742 FSP  -3599   SG1 1521.7 SG2  468.0 THA  48.77          EL1  510.0 EL2  170.8 ALF  72.27
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 29 1967

HELIOCENTRIC CONIC DISTANCE 376.245

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.960 GAL  -2.02 AZL  91.37 HCA 168.59 SMA 130.12 ECC .17134 INC 1.3657 V1  29.319
RP  107.83 LAP   -.27 LOP  71.82 VP  37.968 GAP   -.23 AZP  88.66 TAL 189.83 TAP 358.42 RCA 107.83 APO 152.42 V2  35.143
RC  89.996 GL  -13.73 GP  -25.80 ZAL 114.24 ZAP  90.94 ETS 359.91 ZAE 156.61 ETE 249.80 ZAC 109.10 ETC   7.34 CLP -91.04
```

PLANETOCENTRIC CONIC

```
C3   7.328 VHL  2.707 DLA   -.82 RAL 145.69 RAD 6567.2 VEL 11.345 PTH   1.96 VHP  3.112 DPA -13.28 RAP 153.85 ECC 1.1206
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 40 2	1977.80	-13.21	27.02	353.03	115.28	4 13 0	1377.8	-9.70	20.10
90.00	15 25 56	4672.61	14.66	198.99	353.22	65.50	16 43 48	4072.6	11.24	191.99
100.00	5 1 0	1716.64	-13.93	7.45	352.67	116.72	5 29 36	1116.6	-10.23	.61
100.00	16 47 39	4409.00	15.39	179.25	352.87	64.05	18 1 8	3809.0	11.78	172.32
110.00	6 8 22	1505.76	-15.84	350.36	351.59	120.69	6 33 28	905.8	-11.65	343.76
110.00	17 56 46	4192.65	17.31	161.76	351.80	60.06	19 6 39	3592.6	13.20	155.07

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
 TOE -.0671 TRA -.2841 TC3-2.1997 BAU  .3329   SGT 1341.7 SGR 1477.3 SG3 1075.6          ST   232.4 SR   465.0 SS   867.4
 ROE -.2187 RRA -.0218 RC3-2.5898 FAU .18806   RRT  .8896 RRF  .9981 RTF  .8896          CRT  .6454 CRS -.9996 CST -.6339
 FDE-1.5147 FRA -.0614 FC-22.2159 BSP   5793   SGB 1995.7 R23  .2070 R13  .9764          LSA  995.6 MSA  177.3 SSA     9.6
 BDE  .2288 BRA  .2849 BC3 3.3979 FSP  -3417   SG1 1940.4 SG2  466.5 THA  48.09          EL1  492.1 EL2  167.7 ALF  69.66
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 138.00 ARRIVAL DATE OCT 31 1967

HELIOCENTRIC CONIC DISTANCE 382.586

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.955 GAL  -1.94 AZL  90.56 HCA 171.81 SMA 130.09 ECC .17138 INC  .5511 V1  29.319
RP  107.80 LAP   -.08 LOP  75.05 VP  37.975 GAP    .19 AZP  89.45 TAL 189.47 TAP   1.28 RCA 107.79 APO 152.38 V2  35.154
RC  92.232 GL   -5.74 GP  -33.97 ZAL 114.22 ZAP  95.48 ETS 356.84 ZAE 147.46 ETE 247.46 ZAC 111.83 ETC   3.37 CLP -96.61
```

PLANETOCENTRIC CONIC

```
C3   6.897 VHL  2.626 DLA   6.48 RAL 149.01 RAD 6567.2 VEL 11.326 PTH   1.95 VHP  3.368 DPA -20.05 RAP 148.63 ECC 1.1135
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 58 42	2194.54	-19.08	40.22	356.78	111.33	3 35 17	1594.5	-16.01	32.88
90.00	16 33 47	4434.36	7.53	185.13	355.38	62.62	17 47 41	3834.4	3.80	178.43
100.00	4 23 8	1922.24	-19.82	19.87	356.46	112.84	4 55 10	1322.2	-16.56	12.60
100.00	17 52 3	4181.90	8.24	166.18	354.99	61.16	19 1 45	3581.9	4.33	159.58
110.00	5 38 25	1686.59	-21.80	.99	355.47	117.00	6 6 32	1086.6	-18.01	353.92
110.00	18 53 14	3990.31	10.11	150.51	353.86	57.17	19 59 44	3390.3	5.72	144.18

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
 TOE  .0027 TRA -.2362 TC3-2.9397 BAU  .4248   SGT 1628.8 SGR 1887.0 SG3  926.5          ST   162.5 SR   295.6 SS   387.2
 ROE -.1326 RRA  .0351 RC3-3.5471 FAU .16125   RRT  .9224 RRF  .9993 RTF  .9223          CRT -.0567 CRS -.9973 CST  .0904
 FDE -.5868 FRA  .2610 FC-20.2418 BSP   7411   SGB 2492.7 R23  .1654 R13  .9856          LSA  487.0 MSA  162.1 SSA    15.4
 BDE  .1327 BRA  .2388 BC3 4.6070 FSP  -2929   SG1 2445.0 SG2  485.7 THA  49.55          EL1  295.8 EL2  162.1 ALF  92.55
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 140.00 ARRIVAL DATE NOV 2 1967

HELIOCENTRIC CONIC DISTANCE 388.904

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.947 GAL  -1.86 AZL  88.71 HCA 175.04 SMA 130.04 ECC .17157 INC 1.2815 V1  29.319
RP  107.77 LAP    .11 LOP  78.27 VP  37.979 GAP    .60 AZP  91.29 TAL 189.04 TAP   4.08 RCA 107.73 APO 152.35 V2  35.165
RC  94.474 GL   13.09 GP  -48.41 ZAL 112.80 ZAP  98.12 ETS 351.62 ZAE 132.67 ETE 248.16 ZAC 113.43 ETC 356.01 CLP-102.29
```

PLANETOCENTRIC CONIC

```
C3   7.169 VHL  2.677 DLA  23.76 RAL 156.87 RAD 6567.2 VEL 11.338 PTH   1.95 VHP  4.142 DPA -32.54 RAP 140.27 ECC 1.1180
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	0 40 4	2853.17	-28.30	85.71	10.27	90.87	1 27 37	2253.2	-27.88	77.07
90.00	19 55 5	3789.37	-12.81	148.66	6.67	64.53	20 58 14	3189.4	-16.14	141.56
100.00	2 20 35	2529.10	-29.72	61.81	10.21	93.33	3 2 44	1929.1	-28.95	53.09
100.00	20 57 15	3588.67	-11.54	133.26	6.02	62.23	21 57 4	2988.7	-15.17	126.35
110.00	4 7 0	2196.15	-33.05	36.09	9.78	99.29	4 43 36	1596.1	-31.41	27.25
110.00	21 27 19	3494.39	-8.66	124.39	4.30	56.80	22 25 34	2894.4	-12.97	117.95

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
 TOE  .3054 TRA -.0915 TC3-3.3754 BAU  .5379   SGT 1933.8 SGR 2491.8 SG3  630.4          ST   658.9 SR   482.7 SS   549.5
 ROE  .2123 RRA  .2085 RC3-4.4839 FAU .10821   RRT  .9406 RRF  .9998 RTF  .9417          CRT  .9163 CRS -.9998 CST -.9240
 FDE  .6806 FRA  .6264 FC-13.0686 BSP   9425   SGB 3154.2 R23  .1245 R13  .9920          LSA  964.9 MSA  195.0 SSA     3.7
 BDE  .3719 BRA  .2277 BC3 5.6123 FSP  -1972   SG1 3110.0 SG2  526.1 THA  52.62          EL1  801.2 EL2  159.0 ALF  35.48
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 142.00 ARRIVAL DATE NOV 4 1967

HELIOCENTRIC CONIC DISTANCE 395.175

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.937 GAL  -1.76 AZL  80.11 HCA 178.24 SMA 129.96 ECC .17190 INC 9.8816 V1  29.319
RP  107.73 LAP    .30 LOP  81.50 VP  37.982 GAP    .99 AZP  99.89 TAL 188.53 TAP   6.77 RCA 107.62 APO 152.30 V2  35.175
RC  96.719 GL   57.34 GP  -77.23 ZAL 100.39 ZAP  95.38 ETS 339.65 ZAE 104.26 ETE 245.27 ZAC 110.09 ETC 338.74 CLP-115.10
```

PLANETOCENTRIC CONIC

```
C3  30.172 VHL  5.493 DLA  60.16 RAL 193.45 RAD 6568.2 VEL 12.310 PTH   2.22 VHP  8.936 DPA -55.88 RAP 115.32 ECC 1.4965
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
34.41	19 54 22	4472.24	-32.47	221.36	82.05	36.14	21 8 55	3872.2	-38.79	215.74
145.59	5 32 37	2802.29	-32.46	84.35	82.04	36.13	6 19 19	2202.3	-38.78	78.73
34.41	19 54 22	4472.24	-32.47	221.36	82.05	36.14	21 8 55	3872.2	-38.79	215.74
145.59	5 32 37	2802.29	-32.46	84.35	82.04	36.13	6 19 19	2202.3	-38.78	78.73
34.41	19 54 22	4472.24	-32.47	221.36	82.05	36.14	21 8 55	3872.2	-38.79	215.74
145.59	5 32 37	2802.29	-32.46	84.35	82.04	36.13	6 19 19	2202.3	-38.78	78.73

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE 1.9029 TRA  .8469 TC3 -.7798 BAU  .5111   SGT 2797.6 SGR 3015.9 SG3  181.9      ST  2055.3 SR  1576.8 SS   905.9
ROE 1.3389 RRA 1.1626 RC3 -.9987 FAU .02306   RRT  .9529 RRF  .9989 RTF  .9658      CRT  .9758 CRS -.9991 CST -.9842
FOE 1.0174 FRA  .7951 FC3 -.6616 BSP   9532   SGB 4113.6 R23  .0958 R13  .9953      LSA 2729.3 MSA  287.1 SSA     .7
BOE 2.3268 BRA 1.4384 BC3 1.2671 FSP   -455   SGI 4065.2 SG2  629.3 THA  47.26      EL1 2575.9 EL2  274.9 ALF  37.32
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 144.00 ARRIVAL DATE NOV 6 1967

HELIOCENTRIC CONIC DISTANCE 401.569

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.924 GAL  -1.67 AZL 108.28 HCA 181.57 SMA 129.87 ECC .17244 INC18.2684 V1  29.319
RP  107.70 LAP    .49 LOP  84.72 VP  37.982 GAP   1.42 AZP  71.73 TAL 188.08 TAP   9.65 RCA 107.48 APO 152.27 V2  35.185
RC  98.967 GL  -65.30 GP   79.15 ZAL  95.87 ZAP  96.41 ETS  47.38 ZAE  95.75 ETE 139.65 ZAC  82.44 ETC  50.18 CLP-126.36
```

PLANETOCENTRIC CONIC

```
C3  86.285 VHL  9.289 DLA -50.73 RAL 128.06 RAD 6569.7 VEL 14.409 PTH   2.62 VHP  9.948 DPA  72.32 RAP 253.96 ECC 2.4200
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
45.98	4 7 51	2017.70	15.88	51.43	24.59	138.84	4 41 29	1417.7	21.82	46.19
134.02	12 37 27	5771.58	15.89	268.02	24.61	138.84	14 13 38	5171.6	21.84	262.78
45.98	4 7 51	2017.70	15.88	51.43	24.59	138.84	4 41 29	1417.7	21.82	46.19
134.02	12 37 27	5771.58	15.89	268.02	24.61	138.84	14 13 38	5171.6	21.84	262.78
45.98	4 7 51	2017.70	15.88	51.43	24.59	138.84	4 41 29	1417.7	21.82	46.19
134.02	12 37 27	5771.58	15.89	268.02	24.61	138.84	14 13 38	5171.6	21.84	262.78

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE-4.2454 TRA-1.6762 TC3 -.1741 BAU  .2315   SGT 3103.1 SGR 2288.9 SG3  152.8      ST  2664.1 SR  2264.0 SS  1436.3
ROE 3.6676 RRA  .3023 RC3  .0999 FAU .01012   RRT -.9102 RRF -.9795 RTF  .9748      CRT -.9894 CRS  .9980 CST -.9966
FOE-2.6949 FRA -.5870 FC3 -.1015 BSP   8335   SGB 3855.9 R23  .0779 R13 -.9969      LSA 3771.2 MSA  253.1 SSA     .6
BOE 5.6102 BRA 1.7033 BC3  .2007 FSP   -340   SGI 3776.5 SG2  778.9 THA 144.38      EL1 3487.1 EL2  251.5 ALF 139.69
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 146.00 ARRIVAL DATE NOV 8 1967

HELIOCENTRIC CONIC DISTANCE 407.795

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.908 GAL  -1.55 AZL  98.22 HCA 184.77 SMA 129.77 ECC .17304 INC 8.2189 V1  29.319
RP  107.67 LAP    .68 LOP  87.95 VP  37.979 GAP   1.79 AZP  81.81 TAL 187.45 TAP  12.22 RCA 107.31 APO 152.22 V2  35.195
RC 101.218 GL  -53.55 GP   47.44 ZAL 100.75 ZAP 108.01 ETS  22.18 ZAE 124.45 ETE 125.52 ZAC  95.29 ETC  29.19 CLP-117.20
```

PLANETOCENTRIC CONIC

```
C3  22.856 VHL  4.781 DLA -39.63 RAL 134.33 RAD 6567.9 VEL 12.010 PTH   2.14 VHP  4.371 DPA  56.84 RAP 181.53 ECC 1.3762
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.02	5 30 29	1541.01	25.73	16.85	8.73	121.25	5 56 10	941.0	29.67	9.40
118.98	12 4 52	5596.07	25.75	261.05	8.74	121.24	13 38 8	4996.1	29.68	253.60
61.02	5 30 29	1541.01	25.73	16.85	8.73	121.25	5 56 10	941.0	29.67	9.40
118.98	12 4 52	5596.07	25.75	261.05	8.74	121.24	13 38 8	4996.1	29.68	253.60
61.02	5 30 29	1541.01	25.73	16.85	8.73	121.25	5 56 10	941.0	29.67	9.40
118.98	12 4 52	5596.07	25.75	261.05	8.74	121.24	13 38 8	4996.1	29.68	253.60

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE-1.7566 TRA -.8755 TC3-1.4600 BAU  .5535   SGT 2870.0 SGR 2241.4 SG3  592.6      ST  2145.0 SR  1945.3 SS  2206.7
ROE 1.6189 RRA  .2931 RC3 1.0723 FAU .09041   RRT -.9541 RRF -.9994 RTF  .9624      CRT -.9926 CRS 1.0000 CST -.9937
FOE-4.8589 FRA -.9975 FC3-3.4244 BSP  11316   SGB 3641.5 R23  .1595 R13 -.9870      LSA 3635.1 MSA  201.5 SSA    1.1
BOE 2.3889 BRA  .9232 BC3 1.8115 FSP  -1897   SGI 3602.0 SG2  535.0 THA 142.33      EL1 2890.4 EL2  174.8 ALF 137.82
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 10 1967

HELIOCENTRIC CONIC DISTANCE 414.040

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.891 GAL  -1.42 AZL  96.25 HCA 188.00 SMA 129.65 ECC .17378 INC 6.2465 V1  29.319
RP  107.65 LAP    .87 LOP  91.19 VP  37.975 GAP   2.17 AZP  83.81 TAL 186.78 TAP  14.78 RCA 107.12 APO 152.18 V2  35.204
RC 103.470 GL  -47.03 GP   31.56 ZAL 101.97 ZAP 115.68 ETS  18.30 ZAE 135.87 ETE 136.41 ZAC 102.55 ETC  26.73 CLP-120.57
```

PLANETOCENTRIC CONIC

```
C3  15.985 VHL  3.998 DLA -33.98 RAL 138.42 RAD 6567.6 VEL 11.720 PTH   2.07 VHP  3.675 DPA  43.40 RAP 168.16 ECC 1.2631
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.38	6 36 39	1309.39	24.80	357.63	5.12	114.01	6 58 28	709.4	27.82	349.78
109.62	11 31 20	5659.09	24.81	265.59	5.13	114.00	13 5 39	5059.1	27.83	257.74
70.38	6 36 39	1309.39	24.80	357.63	5.12	114.01	6 58 28	709.4	27.82	349.78
109.62	11 31 20	5659.09	24.81	265.59	5.13	114.00	13 5 39	5059.1	27.83	257.74
110.00	11 5 17	5738.61	22.43	270.56	3.90	116.50	12 40 55	5138.6	25.80	263.03
110.00	12 1 53	5565.91	27.23	259.45	6.26	111.51	13 34 39	4965.9	29.90	251.27

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE-1.4714 TRA -.6812 TC3-2.2786 BAU  .5327   SGT 3025.2 SGR 1466.0 SG3  780.8      ST  2138.6 SR  1213.3 SS  2296.7
ROE  .8458 RRA  .0943 RC3 1.0110 FAU .12249   RRT -.9516 RRF -.9988 RTF  .9605      CRT -.9921 CRS 1.0000 CST -.9930
FOE-5.0409 FRA -.6694 FC3-6.6338 BSP   9744   SGB 3361.7 R23  .2203 R13 -.9748      LSA 3358.8 MSA  197.6 SSA    1.9
BOE 1.6971 BRA  .6877 BC3 2.4928 FSP  -2297   SGI 3336.8 SG2  408.3 THA 154.84      EL1 2455.2 EL2  132.5 ALF 150.53
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 12 1967

DISTANCE 420.262

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 26.871 GAL -1.28 AZL 95.41 HCA 191.24 SMA 129.52 ECC .17465 INC 5.4049 V1 29.319
RP 107.62 LAP 1.05 LOP 94.42 VP 37.969 GAP 2.55 AZP 84.70 TAL 186.07 TAP 17.31 RCA 106.90 APO 152.14 V2 35.212
RC 105.723 GL -43.31 GP 22.85 ZAL 101.95 ZAP 121.19 ETS 15.83 ZAE 139.93 ETE 146.61 ZAC 106.50 ETC 24.81 CLP-124.19

PLANETOCENTRIC CONIC
C3 13.612 VHL 3.689 DLA -30.99 RAL 141.22 RAD 6567.5 VEL 11.619 PTH 2.04 VHP 3.536 DPA 35.69 RAP 162.89 ECC 1.2240

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.86	7 30 35	1140.62	23.61	344.19	4.50	110.68	7 49 36	540.6	26.20	336.26
103.14	10 59 46	5756.25	23.62	272.47	4.51	110.66	12 35 42	5156.3	26.22	264.54
76.86	7 30 35	1140.62	23.61	344.19	4.50	110.68	7 49 36	540.6	26.20	336.26
103.14	10 59 46	5756.25	23.62	272.47	4.51	110.66	12 35 42	5156.3	26.22	264.54
110.00	9 53 40	675.20	15.02	305.86	.10	121.07	10 4 55	75.2	19.03	299.03
110.00	13 35 51	5269.67	32.81	238.25	7.38	100.17	15 3 41	4669.7	33.87	229.17

DIFFERENTIAL CORRECTIONS
TDE-1.4243 TRA -.6214 TC3-2.9904 BAU .5660
RDE .5525 RRA .0488 RC3 .8555 FAU .13909
FDE-4.8766 FRA -.5180 FC3-8.8465 BSP 10576
BDE 1.5278 BRA .6233 BC3 3.1103 FSP -2728

MID-COURSE EXECUTION ACCURACY
SGT 3320.9 SGR 1068.9 SG3 867.6
RRT -.9551 RRF -.9970 RTF .9659
SGB 3488.7 R23 .2252 R13 -.9723
SG1 3475.6 SG2 302.6 THA 162.78

ORBIT DETERMINATION ACCURACY
ST 2238.6 SR 858.7 SS 2315.8
CRT -.9927 CRS 1.0000 CST -.9935
LSA 3327.9 MSA 190.9 SSA 2.9
EL1 2395.7 EL2 96.7 ALF 159.12

LAUNCH DATE JUN 15 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 14 1967

DISTANCE 426.469

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 26.850 GAL -1.13 AZL 94.94 HCA 194.47 SMA 129.37 ECC .17564 INC 4.9361 V1 29.319
RP 107.60 LAP 1.23 LOP 97.66 VP 37.961 GAP 2.92 AZP 85.22 TAL 185.31 TAP 19.79 RCA 106.65 APO 152.09 V2 35.220
RC 107.975 GL -40.91 GP 17.56 ZAL 101.32 ZAP 125.62 ETS 14.12 ZAE 140.89 ETE 154.45 ZAC 108.76 ETC 23.33 CLP-127.65

PLANETOCENTRIC CONIC
C3 12.439 VHL 3.527 DLA -29.28 RAL 143.54 RAD 6567.5 VEL 11.568 PTH 2.02 VHP 3.546 DPA 30.90 RAP 160.16 ECC 1.2047

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.21	8 20 12	992.55	22.80	332.84	4.98	108.89	8 36 45	392.5	25.17	324.90
97.79	10 28 39	5865.48	22.81	280.29	4.98	108.88	12 6 24	5265.5	25.17	272.34
100.00	9 55 4	685.12	19.22	308.87	3.50	113.34	10 6 29	85.1	22.21	301.35
100.00	11 36 28	5648.14	26.48	265.40	6.19	104.40	13 10 36	5048.1	28.20	257.02
110.00	9 37 0	741.98	12.64	309.57	359.91	122.03	9 49 22	142.0	16.78	302.91
110.00	14 11 1	5164.04	33.79	230.16	7.67	95.48	15 37 5	4564.0	34.18	220.94

DIFFERENTIAL CORRECTIONS
TDE-1.4219 TRA -.5636 TC3-3.5270 BAU .5964
RDE .3942 RRA .0216 RC3 .6506 FAU .13944
FDE-4.5136 FRA -.2892 FC3-9.7048 BSP 11119
BDE 1.4755 BRA .5640 BC3 3.5866 FSP -2754

MID-COURSE EXECUTION ACCURACY
SGT 3553.5 SGR 788.8 SG3 868.0
RRT -.9501 RRF -.9917 RTF .9674
SGB 3640.0 R23 .2190 R13 -.9706
SG1 3632.0 SG2 240.8 THA 168.04

ORBIT DETERMINATION ACCURACY
ST 2332.5 SR 640.6 SS 2248.2
CRT -.9932 CRS 1.0000 CST -.9936
LSA 3297.0 MSA 187.7 SSA 3.9
EL1 2417.8 EL2 72.2 ALF 164.73

LAUNCH DATE JUN 15 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 16 1967

DISTANCE 432.659

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 26.827 GAL -.97 AZL 94.64 HCA 197.72 SMA 129.22 ECC .17676 INC 4.6357 V1 29.319
RP 107.58 LAP 1.41 LOP 100.89 VP 37.951 GAP 3.29 AZP 85.58 TAL 184.51 TAP 22.22 RCA 106.38 APO 152.06 V2 35.227
RC 110.226 GL -39.22 GP 14.05 ZAL 100.34 ZAP 129.41 ETS 12.87 ZAE 140.56 ETE 160.17 ZAC 110.05 ETC 22.16 CLP-130.88

PLANETOCENTRIC CONIC
C3 11.753 VHL 3.428 DLA -28.29 RAL 145.67 RAD 6567.4 VEL 11.539 PTH 2.01 VHP 3.616 DPA 27.66 RAP 158.65 ECC 1.1934

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 21 21	810.48	21.53	319.02	5.72	108.85	9 34 51	210.5	23.90	311.15
90.00	9 44 28	735.55	23.09	314.08	6.26	106.86	9 56 43	135.5	25.18	306.03
100.00	9 32 7	775.59	16.69	314.39	3.65	115.17	9 45 3	175.6	19.94	307.11
100.00	12 16 22	5533.71	28.16	257.32	7.63	100.46	13 48 36	4933.7	29.32	248.70
110.00	9 32 31	774.33	11.47	311.34	.69	122.42	9 45 26	174.3	15.67	304.75
110.00	14 32 27	5107.74	34.07	225.79	8.44	92.90	15 57 35	4507.7	34.10	216.55

DIFFERENTIAL CORRECTIONS
TDE-1.4431 TRA -.5084 TC3-3.9697 BAU .6282
RDE .3023 RRA .0087 RC3 .4731 FAU .13442
FDE-4.1517 FRA -.0837 FC3-9.9013 BSP 11661
BDE 1.4745 BRA .5084 BC3 3.9978 FSP -2661

MID-COURSE EXECUTION ACCURACY
SGT 3762.5 SGR 600.7 SG3 838.8
RRT -.9370 RRF -.9792 RTF .9682
SGB 3810.2 R23 .1984 R13 -.9698
SG1 3804.5 SG2 207.6 THA 171.47

ORBIT DETERMINATION ACCURACY
ST 2430.6 SR 505.4 SS 2168.9
CRT -.9939 CRS .9999 CST -.9937
LSA 3291.4 MSA 184.6 SSA 5.0
EL1 2482.0 EL2 54.6 ALF 168.32

LAUNCH DATE JUN 15 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 18 1967

DISTANCE 438.830

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 26.802 GAL -.79 AZL 94.43 HCA 200.96 SMA 129.05 ECC .17801 INC 4.4255 V1 29.319
RP 107.56 LAP 1.58 LOP 104.13 VP 37.940 GAP 3.65 AZP 85.87 TAL 183.66 TAP 24.61 RCA 106.08 APO 152.02 V2 35.233
RC 112.475 GL -37.94 GP 11.59 ZAL 99.12 ZAP 132.79 ETS 11.92 ZAE 139.69 ETE 164.32 ZAC 110.72 ETC 21.20 CLP-133.90

PLANETOCENTRIC CONIC
C3 11.316 VHL 3.364 DLA -27.72 RAL 147.73 RAD 6567.4 VEL 11.520 PTH 2.01 VHP 3.716 DPA 25.28 RAP 157.86 ECC 1.1862

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 50 7	931.13	18.68	326.72	6.09	111.68	9 5 38	331.1	21.46	319.15
90.00	10 32 10	5887.14	25.48	282.70	8.37	102.80	12 10 17	5287.1	26.99	274.36
100.00	9 27 3	811.77	15.63	316.56	4.69	115.81	9 40 34	211.8	18.97	309.36
100.00	12 37 55	5481.73	28.75	253.57	9.06	98.57	14 9 17	4881.7	29.63	244.87
110.00	9 33 54	790.24	10.89	312.21	1.97	122.60	9 47 4	190.2	15.11	305.65
110.00	14 47 34	5076.03	34.16	223.32	9.62	91.44	16 12 10	4476.0	33.98	214.08

DIFFERENTIAL CORRECTIONS
TDE-1.4782 TRA -.4515 TC3-4.3456 BAU .6593
RDE .2459 RRA .0036 RC3 .3271 FAU .12730
FDE-3.8295 FRA .0932 FC3-9.7393 BSP 12225
BDE 1.4985 BRA .4515 BC3 4.3579 FSP -2541

MID-COURSE EXECUTION ACCURACY
SGT 3954.9 SGR 473.2 SG3 799.0
RRT -.9104 RRF -.9536 RTF .9686
SGB 3983.1 R23 .1683 R13 -.9695
SG1 3978.3 SG2 194.6 THA 173.77

ORBIT DETERMINATION ACCURACY
ST 2532.7 SR 418.9 SS 2095.0
CRT -.9950 CRS .9998 CST -.9938
LSA 3308.5 MSA 181.2 SSA 6.2
EL1 2566.8 EL2 41.3 ALF 170.65

LAUNCH DATE JUN 15 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 20 1967

HELIOCENTRIC CONIC DISTANCE 444.983

RL 151.96 LAL -.00 LOL 263.23 VL 26.777 GAL -.60 AZL 94.27 HCA 204.20 SMA 128.88 ECC .17938 INC 4.2695 V1 29.319
RP 107.54 LAP 1.75 LOP 107.37 VP 37.927 GAP 4.01 AZP 86.10 TAL 182.77 TAP 26.97 RCA 105.76 APO 151.99 V2 35.239
RC 114.720 GL -36.89 GP 9.78 ZAL 97.72 ZAP 135.83 ETS 11.16 ZAE 138.61 ETE 167.38 ZAC 110.93 ETC 20.38 CLP-136.71

PLANETOCENTRIC CONIC

C3 11.027 VHL 3.321 DLA -27.43 RAL 149.80 RAD 6567.4 VEL 11.507 PTH 2.00 VHP 3.832 DPA 23.44 RAP 157.58 ECC 1.1815

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 47 22	961.99	17.89	328.64	7.45	112.32	9 3 24	362.0	20.76	321.14
90.00	10 51 26	5845.63	26.07	279.81	10.13	101.47	12 28 52	5245.6	27.39	271.39
100.00	9 29 15	826.64	15.19	317.44	6.19	116.06	9 43 2	226.6	18.57	310.28
100.00	12 52 14	5456.21	28.99	251.71	10.68	97.62	14 23 10	4856.2	29.74	242.98
110.00	9 38 49	796.61	10.65	312.55	3.57	122.67	9 52 5	196.6	14.89	306.01
110.00	14 59 10	5059.00	34.18	221.99	11.13	90.66	16 23 29	4459.0	33.89	212.76

DIFFERENTIAL CORRECTIONS
TDE-1.5241 TRA -.3924 TC3-4.6792 BAU .6905
RDE .2102 RRA .0028 RC3 .2093 FAU .11982
FDE-3.5546 FRA .2427 FC3-9.4071 BSP 12821
BDE 1.5386 BRA .3924 BC3 4.6839 FSP -2418

MID-COURSE EXECUTION ACCURACY
SGT 4141.9 SGR 388.4 SG3 757.5
RRT -.8639 RRF -.9074 RTF .9689
SGB 4160.1 R23 .1360 R13 -.9694
SG1 4155.5 SG2 195.0 THA 175.36

ORBIT DETERMINATION ACCURACY
ST 2641.4 SR 362.7 SS 2032.3
CRT -.9963 CRS .9994 CST -.9940
LSA 3347.7 MSA 177.6 SSA 7.3
EL1 2666.0 EL2 30.7 ALF 172.21

LAUNCH DATE JUN 15 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 22 1967

HELIOCENTRIC CONIC DISTANCE 451.117

RL 151.96 LAL -.00 LOL 263.23 VL 26.749 GAL -.41 AZL 94.15 HCA 207.44 SMA 128.70 ECC .18087 INC 4.1484 V1 29.319
RP 107.52 LAP 1.91 LOP 110.62 VP 37.913 GAP 4.37 AZP 86.32 TAL 181.84 TAP 29.28 RCA 105.42 APO 151.97 V2 35.244
RC 116.961 GL -36.00 GP 8.39 ZAL 96.15 ZAP 138.61 ETS 10.54 ZAE 137.49 ETE 169.69 ZAC 110.79 ETC 19.67 CLP-139.32

PLANETOCENTRIC CONIC

C3 10.840 VHL 3.292 DLA -27.34 RAL 151.92 RAD 6567.4 VEL 11.499 PTH 2.00 VHP 3.961 DPA 21.92 RAP 157.66 ECC 1.1784

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 52 37	968.96	17.71	329.07	9.23	112.46	9 8 46	369.0	20.60	321.59
90.00	11 3 3	5831.63	26.26	278.83	12.00	101.01	12 40 14	5231.6	27.51	270.38
100.00	9 35 47	829.45	15.10	317.60	8.01	116.11	9 49 37	229.5	18.49	310.45
100.00	13 2 33	5446.37	29.08	250.99	12.51	97.26	14 33 19	4846.4	29.78	242.25
110.00	9 46 10	796.86	10.64	312.56	5.43	122.68	9 59 27	196.9	14.88	306.02
110.00	15 8 40	5051.73	34.18	221.42	12.91	90.32	16 32 52	4451.7	33.85	212.19

DIFFERENTIAL CORRECTIONS
TDE-1.5714 TRA -.3242 TC3-4.9592 BAU .7189
RDE .1863 RRA .0041 RC3 .1118 FAU .11183
FDE-3.2969 FRA .3852 FC3-8.9317 BSP 13337
BDE 1.5824 BRA .3242 BC3 4.9604 FSP -2277

MID-COURSE EXECUTION ACCURACY
SGT 4306.4 SGR 332.5 SG3 712.9
RRT -.7906 RRF -.8335 RTF .9686
SGB 4319.2 R23 .1079 R13 -.9689
SG1 4314.5 SG2 203.2 THA 176.50

ORBIT DETERMINATION ACCURACY
ST 2743.1 SR 324.2 SS 1965.9
CRT -.9977 CRS .9986 CST -.9941
LSA 3385.8 MSA 174.3 SSA 8.4
EL1 2762.1 EL2 22.0 ALF 173.28

LAUNCH DATE JUN 15 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 24 1967

HELIOCENTRIC CONIC DISTANCE 457.233

RL 151.96 LAL -.00 LOL 263.23 VL 26.721 GAL -.19 AZL 94.05 HCA 210.69 SMA 128.51 ECC .18250 INC 4.0511 V1 29.319
RP 107.51 LAP 2.07 LOP 113.86 VP 37.897 GAP 4.73 AZP 86.51 TAL 180.87 TAP 31.56 RCA 105.05 APO 151.96 V2 35.248
RC 119.197 GL -35.19 GP 7.31 ZAL 94.45 ZAP 141.17 ETS 10.02 ZAE 136.39 ETE 171.46 ZAC 110.38 ETC 19.03 CLP-141.76

PLANETOCENTRIC CONIC

C3 10.729 VHL 3.275 DLA -27.38 RAL 154.09 RAD 6567.4 VEL 11.494 PTH 2.00 VHP 4.098 DPA 20.63 RAP 158.04 ECC 1.1766

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 2 45	962.05	17.89	328.64	11.32	112.32	9 18 47	362.0	20.76	321.15
90.00	11 10 16	5834.34	26.22	279.02	14.01	101.10	12 47 30	5234.3	27.49	270.58
100.00	9 45 21	824.42	15.25	317.31	10.08	116.02	9 59 5	224.4	18.63	310.14
100.00	13 10 21	5447.21	29.07	251.05	14.53	97.29	14 41 8	4847.2	29.77	242.32
110.00	9 55 21	793.02	10.79	312.36	7.51	122.64	10 8 34	193.0	15.01	305.80
110.00	15 16 51	5051.37	34.18	221.39	14.93	90.30	16 41 2	4451.4	33.85	212.16

DIFFERENTIAL CORRECTIONS
TDE-1.6256 TRA -.2543 TC3-5.2089 BAU .7472
RDE .1713 RRA .0077 RC3 .0334 FAU .10449
FDE-3.0797 FRA .4948 FC3-8.4317 BSP 13857
BDE 1.6346 BRA .2544 BC3 5.2090 FSP -2148

MID-COURSE EXECUTION ACCURACY
SGT 4470.0 SGR 300.7 SG3 671.9
RRT -.6949 RRF -.7354 RTF .9688
SGB 4480.1 R23 .0842 R13 -.9690
SG1 4474.9 SG2 216.0 THA 177.32

ORBIT DETERMINATION ACCURACY
ST 2849.3 SR 299.6 SS 1911.2
CRT -.9987 CRS .9972 CST -.9943
LSA 3439.8 MSA 169.9 SSA 9.5
EL1 2865.0 EL2 15.0 ALF 174.01

LAUNCH DATE JUN 15 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 26 1967

HELIOCENTRIC CONIC DISTANCE 463.327

RL 151.96 LAL -.00 LOL 263.23 VL 26.692 GAL .03 AZL 93.97 HCA 213.94 SMA 128.31 ECC .18426 INC 3.9708 V1 29.319
RP 107.50 LAP 2.22 LOP 117.10 VP 37.879 GAP 5.08 AZP 86.70 TAL 179.87 TAP 33.81 RCA 104.67 APO 151.96 V2 35.252
RC 121.426 GL -34.44 GP 6.45 ZAL 92.63 ZAP 143.54 ETS 9.59 ZAE 135.36 ETE 172.84 ZAC 109.73 ETC 18.44 CLP-144.04

PLANETOCENTRIC CONIC

C3 10.681 VHL 3.268 DLA -27.52 RAL 156.34 RAD 6567.4 VEL 11.492 PTH 2.00 VHP 4.243 DPA 19.47 RAP 158.66 ECC 1.1758

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 16 43	944.70	18.33	327.56	13.66	111.97	9 32 28	344.7	21.15	320.03
90.00	11 14 15	5849.88	26.01	280.11	16.16	101.60	12 51 44	5249.9	27.35	271.70
100.00	9 57 13	813.83	15.57	316.68	12.38	115.85	10 10 47	213.8	18.92	309.49
100.00	13 16 26	5455.99	28.99	251.69	16.73	97.62	14 47 22	4856.0	29.74	242.97
110.00	10 5 57	786.40	11.03	312.00	9.78	122.56	10 19 3	186.4	15.24	305.43
110.00	15 24 11	5056.18	34.18	221.77	17.17	90.53	16 48 27	4456.2	33.87	212.54

DIFFERENTIAL CORRECTIONS
TDE-1.6520 TRA -.1721 TC3-5.4125 BAU .7729
RDE .1586 RRA .0114 RC3 -.0324 FAU .09686
FDE-2.7777 FRA .6181 FC3-7.8504 BSP 13929
BDE 1.6596 BRA .1725 BC3 5.4126 FSP -1892

MID-COURSE EXECUTION ACCURACY
SGT 4584.8 SGR 279.7 SG3 620.3
RRT -.5755 RRF -.6064 RTF .9674
SGB 4593.3 R23 .0590 R13 -.9675
SG1 4587.6 SG2 228.6 THA 177.98

ORBIT DETERMINATION ACCURACY
ST 2899.9 SR 278.1 SS 1790.9
CRT -.9992 CRS .9945 CST -.9939
LSA 3415.6 MSA 168.2 SSA 10.6
EL1 2913.2 EL2 11.2 ALF 174.53

LAUNCH DATE JUN 15 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 28 1967

DISTANCE 469.406

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 26.662 GAL .27 AZL 93.90 HCA 217.18 SMA 128.11 ECC .18616 INC 3.9029 V1 29.319
RP 107.49 LAP 2.36 LOP 120.35 VP 37.861 GAP 5.44 AZP 86.89 TAL 178.84 TAP 36.02 RCA 104.26 APO 151.96 V2 35.255
RC 123.648 GL -33.71 GP 5.74 ZAL 90.70 ZAP 145.74 ETS 9.21 ZAE 134.40 ETE 173.95 ZAC 108.88 ETC 17.91 CLP-146.17

PLANETOCENTRIC CONIC
C3 10.690 VHL 3.270 DLA -27.74 RAL 158.67 RAD 6567.4 VEL 11.493 PTH 2.00 VHP 4.393 DPA 18.41 RAP 159.48 ECC 1.1759

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 34 28	917.15	19.02	325.84	16.27	111.38	9 49 45	317.1	21.76	318.24
90.00	11 15 6	5877.77	25.61	282.05	18.44	102.50	12 53 4	5277.8	27.08	273.69
100.00	10 11 3	798.90	16.01	315.79	14.90	115.59	10 24 22	198.9	19.32	308.56
100.00	13 21 12	5471.25	28.85	252.80	19.11	98.18	14 52 24	4871.2	29.68	244.10
110.00	10 17 44	777.89	11.34	311.53	12.23	122.47	10 30 42	177.9	15.54	304.95
110.00	15 31 0	5065.03	34.17	222.46	19.60	90.93	16 55 25	4465.0	33.92	213.22

DIFFERENTIAL CORRECTIONS
TDE-1.7365 TRA -.0822 TC3-5.5694 BAU .7961
RDE .1566 RRA .0166 RC3 -.0847 FAU .08991
FDE-2.6953 FRA .7094 FC3-7.2814 BSP 14766
BDE 1.7435 BRA .0839 BC3 5.5701 FSP -1896

MID-COURSE EXECUTION ACCURACY
SGT 4748.7 SGR 281.9 SG3 592.0
RRT -.4771 RRF -.5106 RTF .9676
SGB 4757.0 R23 .0542 R13 -.9677
SG1 4750.6 SG2 247.6 THA 178.37

ORBIT DETERMINATION ACCURACY
ST 3045.4 SR 274.6 SS 1800.5
CRT -.9989 CRS .9916 CST -.9945
LSA 3544.7 MSA 163.3 SSA 11.7
EL1 3057.7 EL2 12.7 ALF 174.85

LAUNCH DATE JUN 15 1967 FLIGHT TIME 168.00 ARRIVAL DATE NOV 30 1967

DISTANCE 475.462

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 26.631 GAL .51 AZL 93.84 HCA 220.43 SMA 127.91 ECC .18821 INC 3.8445 V1 29.319
RP 107.48 LAP 2.49 LOP 123.60 VP 37.841 GAP 5.79 AZP 87.07 TAL 177.78 TAP 38.21 RCA 103.84 APO 151.98 V2 35.257
RC 125.861 GL -32.99 GP 5.16 ZAL 88.67 ZAP 147.80 ETS 8.90 ZAE 133.52 ETE 174.84 ZAC 107.87 ETC 17.41 CLP-148.17

PLANETOCENTRIC CONIC
C3 10.753 VHL 3.279 DLA -27.99 RAL 161.09 RAD 6567.4 VEL 11.495 PTH 2.00 VHP 4.548 DPA 17.42 RAP 160.47 ECC 1.1770

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 56 56	876.38	20.02	323.26	19.15	110.46	10 11 32	276.4	22.62	315.56
90.00	11 11 54	632.87	24.95	307.13	20.80	103.85	11 22 27	32.9	26.61	298.85
100.00	10 26 32	780.66	16.54	314.70	17.61	115.26	10 39 32	180.7	19.81	307.43
100.00	13 24 59	5491.87	28.64	254.30	21.64	98.95	14 56 31	4891.9	29.58	245.62
110.00	10 30 28	768.30	11.69	311.01	14.86	122.35	10 43 16	168.3	15.88	304.41
110.00	15 37 32	5076.99	34.15	223.39	22.23	91.49	17 2 9	4477.0	33.98	214.15

DIFFERENTIAL CORRECTIONS
TDE-1.8003 TRA .0094 TC3-5.7061 BAU .8205
RDE .1552 RRA .0223 RC3 -.1259 FAU .08373
FDE-2.5465 FRA .7844 FC3-6.7413 BSP 15243
BDE 1.8070 BRA .0242 BC3 5.7074 FSP -1792

MID-COURSE EXECUTION ACCURACY
SGT 4888.7 SGR 286.9 SG3 558.3
RRT -.3872 RRF -.4169 RTF .9677
SGB 4897.1 R23 .0446 R13 -.9678
SG1 4889.9 SG2 264.4 THA 178.69

ORBIT DETERMINATION ACCURACY
ST 3147.6 SR 271.5 SS 1758.9
CRT -.9977 CRS .9876 CST -.9947
LSA 3612.4 MSA 158.6 SSA 12.8
EL1 3159.3 EL2 18.3 ALF 175.08

LAUNCH DATE JUN 15 1967 FLIGHT TIME 170.00 ARRIVAL DATE DEC 2 1967

DISTANCE 481.499

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 26.599 GAL .78 AZL 93.79 HCA 223.68 SMA 127.70 ECC .19041 INC 3.7934 V1 29.319
RP 107.48 LAP 2.62 LOP 126.85 VP 37.820 GAP 6.15 AZP 87.25 TAL 176.69 TAP 40.37 RCA 103.39 APO 152.02 V2 35.258
RC 128.066 GL -32.26 GP 4.67 ZAL 86.56 ZAP 149.73 ETS 8.62 ZAE 132.71 ETE 175.56 ZAC 106.71 ETC 16.95 CLP-150.06

PLANETOCENTRIC CONIC
C3 10.868 VHL 3.297 DLA -28.28 RAL 163.58 RAD 6567.4 VEL 11.500 PTH 2.00 VHP 4.709 DPA 16.46 RAP 161.59 ECC 1.1789

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 32 22	795.75	21.85	318.05	22.50	108.48	10 45 37	195.7	24.17	310.15
90.00	10 56 23	717.89	23.43	312.90	23.04	106.37	11 8 20	117.9	25.46	304.81
100.00	10 43 31	759.60	17.15	313.43	20.52	114.87	10 56 11	159.6	20.36	306.10
100.00	13 27 54	5517.31	28.36	256.14	24.31	99.87	14 59 51	4917.3	29.43	247.50
110.00	10 43 58	758.23	12.06	310.46	17.65	122.23	10 56 36	158.2	16.23	303.84
110.00	15 43 57	5091.44	34.12	224.52	25.02	92.15	17 8 49	4491.4	34.05	215.28

DIFFERENTIAL CORRECTIONS
TDE-1.8616 TRA .1146 TC3-5.7952 BAU .8424
RDE .1561 RRA .0279 RC3 -.1586 FAU .07772
FDE-2.4029 FRA .8631 FC3-6.1908 BSP 15660
BDE 1.8681 BRA .1179 BC3 5.7974 FSP -1691

MID-COURSE EXECUTION ACCURACY
SGT 5011.9 SGR 296.0 SG3 525.6
RRT -.3142 RRF -.3404 RTF .9674
SGB 5020.6 R23 .0374 R13 -.9674
SG1 5012.7 SG2 280.9 THA 178.93

ORBIT DETERMINATION ACCURACY
ST 3238.1 SR 271.9 SS 1712.4
CRT -.9956 CRS .9826 CST -.9949
LSA 3669.8 MSA 155.1 SSA 13.8
EL1 3249.4 EL2 25.5 ALF 175.22

LAUNCH DATE JUN 15 1967 FLIGHT TIME 172.00 ARRIVAL DATE DEC 4 1967

DISTANCE 487.514

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 26.566 GAL 1.06 AZL 93.75 HCA 226.93 SMA 127.49 ECC .19276 INC 3.7480 V1 29.319
RP 107.48 LAP 2.74 LOP 130.10 VP 37.798 GAP 6.50 AZP 87.44 TAL 175.57 TAP 42.50 RCA 102.91 APO 152.06 V2 35.259
RC 130.261 GL -31.51 GP 4.26 ZAL 84.37 ZAP 151.55 ETS 8.39 ZAE 131.98 ETE 176.16 ZAC 105.42 ETC 16.51 CLP-151.85

PLANETOCENTRIC CONIC
C3 11.039 VHL 3.323 DLA -28.59 RAL 166.16 RAD 6567.4 VEL 11.508 PTH 2.00 VHP 4.875 DPA 15.53 RAP 162.84 ECC 1.1817

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.90	10 20 16	871.32	22.80	323.92	25.65	107.73	10 34 47	271.3	25.01	315.93
94.10	11 29 0	648.70	22.81	307.63	25.65	107.71	11 39 49	48.7	25.02	299.63
100.00	11 1 56	736.05	17.82	312.00	23.60	114.41	11 14 12	136.1	20.96	304.62
100.00	13 30 1	5547.24	27.99	258.29	27.12	100.95	15 2 29	4947.2	29.21	249.70
110.00	10 58 3	748.25	12.42	309.92	20.60	122.11	11 10 31	148.3	16.57	303.27
110.00	15 50 24	5107.80	34.07	225.80	27.98	92.91	17 15 31	4507.8	34.10	216.55

DIFFERENTIAL CORRECTIONS
TDE-1.9229 TRA .2286 TC3-5.8418 BAU .8626
RDE .1593 RRA .0335 RC3 -.1832 FAU .07205
FDE-2.2704 FRA .9337 FC3-5.6505 BSP 16021
BDE 1.9295 BRA .2311 BC3 5.8446 FSP -1593

MID-COURSE EXECUTION ACCURACY
SGT 5125.1 SGR 307.5 SG3 494.7
RRT -.2593 RRF -.2826 RTF .9671
SGB 5134.3 R23 .0321 R13 -.9671
SG1 5125.7 SG2 297.0 THA 179.11

ORBIT DETERMINATION ACCURACY
ST 3320.8 SR 275.4 SS 1665.8
CRT -.9925 CRS .9769 CST -.9951
LSA 3722.2 MSA 151.7 SSA 14.8
EL1 3332.0 EL2 33.5 ALF 175.29

LAUNCH DATE JUN 15 1967 FLIGHT TIME 174.00 ARRIVAL DATE DEC 6 1967

HELIOCENTRIC CONIC DISTANCE 493.508

RL 151.96 LAL -.00 LOL 263.23 VL 26.533 GAL 1.35 AZL 93.71 HCA 230.17 SMA 127.27 ECC .19529 INC 3.7071 V1 29.319
RP 107.48 LAP 2.85 LOP 133.35 VP 37.774 GAP 6.87 AZP 87.62 TAL 174.43 TAP 44.61 RCA 102.42 APO 152.13 V2 35.259
RC 132.447 GL -30.73 GP 3.91 ZAL 82.11 ZAP 153.27 ETS 8.19 ZAE 131.32 ETE 176.66 ZAC 104.02 ETC 16.11 CLP-153.53

PLANETOCENTRIC CONIC

C3 11.267 VHL 3.357 DLA -28.89 RAL 168.80 RAD 6567.4 VEL 11.518 PTH 2.01 VHP 5.045 DPA 14.62 RAP 164.20 ECC 1.1854

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.00	10 15 16	925.76	22.95	327.98	28.67	108.05	10 30 42	325.8	25.20	319.98
96.00	11 55 6	602.70	22.96	304.30	28.68	108.04	12 5 9	2.7	25.21	296.31
100.00	11 21 43	710.11	18.54	310.41	26.87	113.88	11 33 33	110.1	21.61	302.96
100.00	13 31 20	5581.63	27.52	260.74	30.04	102.15	15 4 22	4981.6	28.92	252.21
110.00	11 12 34	738.91	12.75	309.40	23.69	121.99	11 24 53	138.9	16.89	302.73
110.00	15 56 59	5125.59	34.00	227.18	31.09	93.72	17 22 24	4525.6	34.15	217.94

DIFFERENTIAL CORRECTIONS
TOE-1.9861 TRA .3510 TC3-5.8569 BAU .8828
ROE .1644 RRA .0390 RC3 -.2004 FAU .06693
FOE-2.1508 FRA .9976 FC3-5.1424 BSP 16398
BOE 1.9929 BRA .3532 BC3 5.8604 FSP -1506

MID-COURSE EXECUTION ACCURACY
SGT 5236.6 SGR 320.3 SG3 466.7
RRT -.2206 RRF -.2413 RTF .9669
SGB 5246.4 R23 .0279 R13 -.9670
SG1 5237.1 SG2 312.4 THA 179.22

ORBIT DETERMINATION ACCURACY
ST 3398.4 SR 281.5 SS 1620.9
CRT -.9888 CRS .9707 CST -.9953
LSA 3772.7 MSA 148.9 SSA 15.6
EL1 3409.8 EL2 41.9 ALF 175.32

LAUNCH DATE JUN 15 1967 FLIGHT TIME 176.00 ARRIVAL DATE DEC 8 1967

HELIOCENTRIC CONIC DISTANCE 499.478

RL 151.96 LAL -.00 LOL 263.23 VL 26.500 GAL 1.65 AZL 93.67 HCA 233.42 SMA 127.06 ECC .19800 INC 3.6700 V1 29.319
RP 107.48 LAP 2.95 LOP 136.60 VP 37.750 GAP 7.23 AZP 87.81 TAL 173.27 TAP 46.69 RCA 101.90 APO 152.21 V2 35.258
RC 134.624 GL -29.92 GP 3.61 ZAL 79.80 ZAP 154.90 ETS 8.02 ZAE 130.72 ETE 177.08 ZAC 102.52 ETC 15.73 CLP-155.14

PLANETOCENTRIC CONIC

C3 11.558 VHL 3.400 DLA -29.19 RAL 171.51 RAD 6567.4 VEL 11.530 PTH 2.01 VHP 5.221 DPA 13.72 RAP 165.64 ECC 1.1902

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.60	10 14 47	967.38	23.06	331.08	31.83	108.41	10 30 54	367.4	25.36	323.10
97.40	12 17 12	5859.69	23.08	279.96	31.84	108.39	13 54 51	5259.7	25.38	271.97
100.00	11 42 59	681.41	19.32	308.64	30.31	113.26	11 54 21	81.4	22.30	301.11
100.00	13 31 40	5620.89	26.93	263.50	33.05	103.50	15 5 21	5020.9	28.52	255.06
110.00	11 27 20	730.70	13.05	308.95	26.90	121.88	11 39 31	130.7	17.17	302.26
110.00	16 3 49	5144.36	33.91	228.64	34.34	94.58	17 29 33	4544.4	34.17	219.40

DIFFERENTIAL CORRECTIONS
TOE-2.0495 TRA .4818 TC3-5.8313 BAU .9016
ROE .1711 RRA .0444 RC3 -.2113 FAU .06210
FOE-2.0404 FRA 1.0543 FC3-4.6518 BSP 16771
BOE 2.0567 BRA .4839 BC3 5.8352 FSP -1428

MID-COURSE EXECUTION ACCURACY
SGT 5340.1 SGR 333.4 SG3 440.3
RRT -.1949 RRF -.2137 RTF .9668
SGB 5350.5 R23 .0251 R13 -.9669
SG1 5340.5 SG2 327.0 THA 179.30

ORBIT DETERMINATION ACCURACY
ST 3467.5 SR 289.6 SS 1575.9
CRT -.9845 CRS .9643 CST -.9955
LSA 3816.9 MSA 146.4 SSA 16.4
EL1 3479.2 EL2 50.7 ALF 175.30

LAUNCH DATE JUN 15 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 10 1967

HELIOCENTRIC CONIC DISTANCE 505.425

RL 151.96 LAL -.00 LOL 263.23 VL 26.466 GAL 1.98 AZL 93.64 HCA 236.67 SMA 126.84 ECC .20089 INC 3.6359 V1 29.319
RP 107.48 LAP 3.04 LOP 139.85 VP 37.725 GAP 7.60 AZP 88.00 TAL 172.09 TAP 48.76 RCA 101.36 APO 152.32 V2 35.256
RC 136.791 GL -29.07 GP 3.35 ZAL 77.45 ZAP 156.44 ETS 7.89 ZAE 130.18 ETE 177.43 ZAC 100.94 ETC 15.38 CLP-156.67

PLANETOCENTRIC CONIC

C3 11.915 VHL 3.452 DLA -29.47 RAL 174.27 RAD 6567.5 VEL 11.546 PTH 2.02 VHP 5.402 DPA 12.81 RAP 167.16 ECC 1.1961

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.48	10 16 59	1002.03	23.14	333.67	35.12	108.78	10 33 41	402.0	25.49	325.69
98.52	12 37 1	5837.79	23.15	278.37	35.12	108.76	14 14 18	5237.8	25.50	270.39
100.00	12 6 8	648.64	20.19	306.59	33.92	112.53	12 16 56	48.6	23.07	298.98
100.00	13 30 33	5666.40	26.17	266.67	36.13	105.00	15 5 0	5066.4	27.97	258.33
110.00	11 42 10	724.11	13.29	308.59	30.23	121.79	11 54 15	124.1	17.39	301.88
110.00	16 11 0	5163.70	33.80	230.14	37.72	95.46	17 37 3	4563.7	34.18	220.91

DIFFERENTIAL CORRECTIONS
TOE-2.1115 TRA .6241 TC3-5.7673 BAU .9193
ROE .1795 RRA .0493 RC3 -.2167 FAU .05759
FOE-1.9361 FRA 1.1090 FC3-4.1842 BSP 17092
BOE 2.1191 BRA .6261 BC3 5.7714 FSP -1351

MID-COURSE EXECUTION ACCURACY
SGT 5436.2 SGR 346.3 SG3 415.6
RRT -.1789 RRF -.1960 RTF .9667
SGB 5447.2 R23 .0228 R13 -.9667
SG1 5436.6 SG2 340.7 THA 179.34

ORBIT DETERMINATION ACCURACY
ST 3525.0 SR 299.3 SS 1529.3
CRT -.9797 CRS .9576 CST -.9956
LSA 3851.3 MSA 145.0 SSA 17.1
EL1 3537.1 EL2 59.8 ALF 175.24

LAUNCH DATE JUN 15 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 12 1967

HELIOCENTRIC CONIC DISTANCE 511.348

RL 151.96 LAL -.00 LOL 263.23 VL 26.431 GAL 2.32 AZL 93.60 HCA 239.92 SMA 126.62 ECC .20399 INC 3.6042 V1 29.319
RP 107.49 LAP 3.12 LOP 143.10 VP 37.698 GAP 7.97 AZP 88.19 TAL 170.88 TAP 50.80 RCA 100.79 APO 152.45 V2 35.254
RC 138.949 GL -28.20 GP 3.12 ZAL 75.07 ZAP 157.92 ETS 7.80 ZAE 129.69 ETE 177.73 ZAC 99.27 ETC 15.05 CLP-158.13

PLANETOCENTRIC CONIC

C3 12.346 VHL 3.514 DLA -29.72 RAL 177.07 RAD 6567.5 VEL 11.564 PTH 2.02 VHP 5.588 DPA 11.91 RAP 168.76 ECC 1.2032

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.57	10 21 9	1031.99	23.16	335.90	38.52	109.16	10 38 21	432.0	25.56	327.94
99.43	12 55 12	5822.84	23.17	277.27	38.52	109.15	14 32 15	5222.8	25.57	269.31
100.00	12 32 37	606.95	21.25	303.95	37.75	111.53	12 42 44	7.0	23.99	296.22
100.00	13 26 24	5723.11	25.11	270.55	39.21	106.78	15 1 47	5123.1	27.17	262.35
110.00	11 56 55	719.63	13.45	308.34	33.66	121.73	12 8 54	119.6	17.55	301.62
110.00	16 18 36	5183.19	33.66	231.64	41.21	96.34	17 45 0	4583.2	34.17	222.44

DIFFERENTIAL CORRECTIONS
TOE-2.1708 TRA .7781 TC3-5.6584 BAU .9346
ROE .1892 RRA .0537 RC3 -.2173 FAU .05323
FOE-1.8367 FRA 1.1613 FC3-3.7328 BSP 17353
BOE 2.1791 BRA .7799 BC3 5.6626 FSP -1275

MID-COURSE EXECUTION ACCURACY
SGT 5520.6 SGR 358.7 SG3 392.2
RRT -.1706 RRF -.1865 RTF .9664
SGB 5532.2 R23 .0213 R13 -.9664
SG1 5520.9 SG2 353.5 THA 179.36

ORBIT DETERMINATION ACCURACY
ST 3568.9 SR 310.1 SS 1480.7
CRT -.9745 CRS .9507 CST -.9958
LSA 3873.5 MSA 144.6 SSA 17.6
EL1 3581.7 EL2 69.3 ALF 175.16

LAUNCH DATE JUN 15 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 14 1967

DISTANCE 517.243

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 26.397 GAL 2.67 AZL 93.57 HCA 243.16 SMA 126.40 ECC .20730 INC 3.5745 VI 29.319
RP 107.50 LAP 3.19 LOP 146.35 VP 37.671 GAP 8.35 AZP 88.38 TAL 169.67 TAP 52.83 RCA 100.19 APO 152.60 V2 35.251
RC 141.095 GL -27.29 GP 2.92 ZAL 72.67 ZAP 159.33 ETS 7.73 ZAE 129.24 ETE 177.98 ZAC 97.54 ETC 14.74 CLP-159.53

PLANETOCENTRIC CONIC
C3 12.858 VHL 3.586 DLA -29.94 RAL 179.90 RAD 6567.5 VEL 11.586 PTH 2.03 VHP 5.781 DPA 11.00 RAP 170.41 ECC 1.2116

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.85	10 26 54	1058.31	23.13	337.84	42.01	109.56	10 44 33	458.3	25.58	329.90
100.15	13 12 0	5813.87	23.14	276.59	42.02	109.55	14 48 54	5213.9	25.59	268.65
79.85	10 26 54	1058.31	23.13	337.84	42.01	109.56	10 44 33	458.3	25.58	329.90
100.15	13 12 0	5813.87	23.14	276.59	42.02	109.55	14 48 54	5213.9	25.59	268.65
110.00	12 11 21	717.71	13.52	308.23	37.16	121.70	12 23 19	117.7	17.61	301.51
110.00	16 26 44	5202.47	33.51	233.13	44.81	97.21	17 53 26	4602.5	34.14	223.94

DIFFERENTIAL CORRECTIONS
TOE-2.2316 TRA .9406 TC3-5.5245 BAU .9504
RDE .2004 RRA .0576 RC3 -.2135 FAU .04930
FDE-1.7468 FRA 1.2083 FC3-3.3194 BSP 17656
BDE 2.2405 BRA .9424 BC3 5.5286 FSP -1211

MID-COURSE EXECUTION ACCURACY
SGT 5605.3 SGR 370.5 SG3 370.8
RRT -.1691 RRF -.1842 RTF .9663
SGB 5617.5 R23 .0203 R13 -.9664
SG1 5605.7 SG2 365.2 THA 179.36

ORBIT DETERMINATION ACCURACY
ST 3605.4 SR 321.9 SS 1434.0
CRT -.9693 CRS .9439 CST -.9959
LSA 3890.7 MSA 144.9 SSA 18.0
EL1 3618.9 EL2 78.9 ALF 175.05

LAUNCH DATE JUN 15 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 16 1967

DISTANCE 523.110

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 26.362 GAL 3.05 AZL 93.55 HCA 246.41 SMA 126.18 ECC .21085 INC 3.5465 VI 29.319
RP 107.51 LAP 3.25 LOP 149.60 VP 37.643 GAP 8.74 AZP 88.58 TAL 168.43 TAP 54.84 RCA 99.57 APO 152.78 V2 35.247
RC 143.232 GL -26.35 GP 2.74 ZAL 70.26 ZAP 160.68 ETS 7.70 ZAE 128.84 ETE 178.19 ZAC 95.75 ETC 14.46 CLP-160.87

PLANETOCENTRIC CONIC
C3 13.459 VHL 3.669 DLA -30.12 RAL 182.74 RAD 6567.5 VEL 11.612 PTH 2.03 VHP 5.981 DPA 10.08 RAP 172.11 ECC 1.2215

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.29	10 34 2	1081.60	23.03	339.54	45.60	109.96	10 52 4	481.6	25.54	331.62
100.71	13 27 33	5810.36	23.04	276.29	45.60	109.95	15 4 23	5210.4	25.55	268.37
79.29	10 34 2	1081.60	23.03	339.54	45.60	109.96	10 52 4	481.6	25.54	331.62
100.71	13 27 33	5810.36	23.04	276.29	45.60	109.95	15 4 23	5210.4	25.55	268.37
110.00	12 25 21	718.75	13.48	308.29	40.73	121.71	12 37 20	118.8	17.58	301.57
110.00	16 35 25	5221.20	33.34	234.56	48.51	98.04	18 2 26	4621.2	34.09	225.40

DIFFERENTIAL CORRECTIONS
TOE-2.2911 TRA 1.1134 TC3-5.3598 BAU .9651
RDE .2130 RRA .0608 RC3 -.2061 FAU .04564
FDE-1.6627 FRA 1.2516 FC3-2.9354 BSP 17949
BDE 2.3010 BRA 1.1151 BC3 5.3638 FSP -1151

MID-COURSE EXECUTION ACCURACY
SGT 5684.2 SGR 381.5 SG3 350.8
RRT -.1728 RRF -.1872 RTF .9663
SGB 5697.0 R23 .0198 R13 -.9664
SG1 5684.6 SG2 375.8 THA 179.33

ORBIT DETERMINATION ACCURACY
ST 3630.5 SR 334.3 SS 1387.2
CRT -.9639 CRS .9373 CST -.9961
LSA 3898.1 MSA 146.2 SSA 18.2
EL1 3644.8 EL2 88.7 ALF 174.93

LAUNCH DATE JUN 15 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 18 1967

DISTANCE 528.946

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 26.326 GAL 3.44 AZL 93.52 HCA 249.65 SMA 125.95 ECC .21465 INC 3.5199 VI 29.319
RP 107.53 LAP 3.30 LOP 152.85 VP 37.614 GAP 9.14 AZP 88.78 TAL 167.19 TAP 56.84 RCA 98.92 APO 152.99 V2 35.243
RC 145.356 GL -25.39 GP 2.58 ZAL 67.86 ZAP 161.98 ETS 7.72 ZAE 128.47 ETE 178.37 ZAC 93.90 ETC 14.20 CLP-162.16

PLANETOCENTRIC CONIC
C3 14.161 VHL 3.763 DLA -30.25 RAL 185.58 RAD 6567.6 VEL 11.642 PTH 2.04 VHP 6.188 DPA 9.16 RAP 173.86 ECC 1.2330

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.89	10 42 19	1102.46	22.87	341.03	49.25	110.36	11 0 41	502.5	25.43	333.14
101.11	13 41 56	5811.75	22.88	276.33	49.25	110.35	15 18 48	5211.8	25.44	268.44
78.89	10 42 19	1102.46	22.87	341.03	49.25	110.36	11 0 41	502.5	25.43	333.14
101.11	13 41 56	5811.75	22.88	276.33	49.25	110.35	15 18 48	5211.8	25.44	268.44
110.00	12 38 44	723.08	13.32	308.53	44.34	121.77	12 50 47	123.1	17.43	301.82
110.00	16 44 42	5239.12	33.16	235.93	52.28	98.83	18 12 1	4639.1	34.02	226.80

DIFFERENTIAL CORRECTIONS
TOE-2.3481 TRA 1.2978 TC3-5.1650 BAU .9785
RDE .2268 RRA .0632 RC3 -.1960 FAU .04216
FDE-1.5823 FRA 1.2927 FC3-2.5775 BSP 18216
BDE 2.3590 BRA 1.2993 BC3 5.1687 FSP -1095

MID-COURSE EXECUTION ACCURACY
SGT 5755.4 SGR 391.7 SG3 331.9
RRT -.1802 RRF -.1940 RTF .9663
SGB 5768.7 R23 .0194 R13 -.9663
SG1 5755.8 SG2 385.2 THA 179.29

ORBIT DETERMINATION ACCURACY
ST 3642.3 SR 347.0 SS 1339.2
CRT -.9584 CRS .9306 CST -.9962
LSA 3893.3 MSA 148.6 SSA 18.2
EL1 3657.4 EL2 98.7 ALF 174.78

LAUNCH DATE JUN 15 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 20 1967

DISTANCE 534.750

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 26.291 GAL 3.86 AZL 93.49 HCA 252.90 SMA 125.73 ECC .21872 INC 3.4944 VI 29.319
RP 107.54 LAP 3.34 LOP 156.10 VP 37.584 GAP 9.54 AZP 88.97 TAL 165.93 TAP 58.83 RCA 98.23 APO 153.23 V2 35.237
RC 147.469 GL -24.40 GP 2.44 ZAL 65.47 ZAP 163.24 ETS 7.77 ZAE 128.13 ETE 178.53 ZAC 92.01 ETC 13.96 CLP-163.41

PLANETOCENTRIC CONIC
C3 14.974 VHL 3.870 DLA -30.34 RAL 188.41 RAD 6567.6 VEL 11.677 PTH 2.05 VHP 6.403 DPA 8.23 RAP 175.65 ECC 1.2464

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.63	10 51 42	1120.88	22.64	342.31	52.96	110.76	11 10 23	520.9	25.25	334.46
101.37	13 55 7	5818.12	22.64	276.71	52.96	110.75	15 32 5	5218.1	25.26	268.85
78.63	10 51 42	1120.88	22.64	342.31	52.96	110.76	11 10 23	520.9	25.25	334.46
101.37	13 55 7	5818.12	22.64	276.71	52.96	110.75	15 32 5	5218.1	25.26	268.85
110.00	12 51 22	730.97	13.04	308.96	47.98	121.88	13 3 33	131.0	17.16	302.28
110.00	16 54 37	5256.03	32.97	237.22	56.12	99.57	18 22 13	4656.0	33.94	228.11

DIFFERENTIAL CORRECTIONS
TOE-2.3998 TRA 1.4978 TC3-4.9367 BAU .9889
RDE .2418 RRA .0646 RC3 -.1838 FAU .03876
FDE-1.5035 FRA 1.3356 FC3-2.2410 BSP 18375
BDE 2.4120 BRA 1.4992 BC3 4.9401 FSP -1035

MID-COURSE EXECUTION ACCURACY
SGT 5816.1 SGR 400.9 SG3 314.1
RRT -.1902 RRF -.2032 RTF .9661
SGB 5829.9 R23 .0189 R13 -.9661
SG1 5816.6 SG2 393.5 THA 179.25

ORBIT DETERMINATION ACCURACY
ST 3637.9 SR 359.5 SS 1289.2
CRT -.9525 CRS .9235 CST -.9963
LSA 3873.2 MSA 152.5 SSA 18.1
EL1 3654.0 EL2 109.0 ALF 174.62

LAUNCH DATE JUN 15 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 22 1967

HELIOCENTRIC CONIC DISTANCE 540.519

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.256 GAL   4.30 AZL  93.47 HCA 256.14 SMA 125.51 ECC .22308 INC 3.4697 VI  29.319
RP  107.56 LAP   3.37 LOP 159.35 VP  37.554 GAP   9.96 AZP  89.17 TAL 164.67 TAP  60.81 RCA  97.51 APO 153.51 V2  35.231
RC 149.570 GL  -23.41 GP    2.32 ZAL  63.11 ZAP 164.45 ETS   7.88 ZAE 127.82 ETE 178.66 ZAC  90.07 ETC  13.75 CLP-164.62
```

PLANETOCENTRIC CONIC

```
C3  15.911 VHL  3.989 DLA -30.38 RAL 191.21 RAD 6567.6 VEL 11.717 PTH   2.06 VHP  6.627 DPA   7.29 RAP 177.47 ECC 1.2619
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.51	11 1 59	1137.35	22.33	343.41	56.71	111.15	11 20 56	537.4	25.00	335.60
101.49	14 7 9	5829.02	22.34	277.40	56.71	111.14	15 44 18	5229.0	25.01	269.58
78.51	11 1 59	1137.35	22.33	343.41	56.71	111.15	11 20 56	537.4	25.00	335.60
101.49	14 7 9	5829.02	22.34	277.40	56.71	111.14	15 44 18	5229.0	25.01	269.58
110.00	13 3 9	742.58	12.62	309.60	51.62	122.03	13 15 32	142.6	16.76	302.94
110.00	17 5 10	5271.79	32.79	238.41	60.02	100.26	18 33 1	4671.8	33.86	229.33

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.4531 TRA 1.7059 TC3-4.6981 BAU 1.0000   SGT 5876.3 SGR  409.2 SG3  297.6     ST  3626.9 SR   372.0 SS  1242.2
RDE  .2580 RRA  .0652 RC3 -.1698 FAU .03570   RRT -.2036 RRF -.2160 RTF  .9661     CRT -.9468 CRS  .9169 CST -.9964
FDE-1.4326 FRA 1.3732 FC3-1.9427 BSP  18620   SGB 5890.5 R23  .0187 R13 -.9661     LSA 3848.4 MSA  156.8 SSA   17.8
BDE 2.4666 BRA 1.7072 BC3 4.7012 FSP   -986   SG1 5876.9 SG2  400.6 THA 179.18     EL1 3643.9 EL2  119.1 ALF 174.45
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 24 1967

HELIOCENTRIC CONIC DISTANCE 546.248

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.220 GAL   4.76 AZL  93.45 HCA 259.38 SMA 125.29 ECC .22776 INC 3.4458 VI  29.319
RP  107.58 LAP   3.39 LOP 162.60 VP  37.523 GAP  10.39 AZP  89.36 TAL 163.40 TAP  62.78 RCA  96.75 APO 153.82 V2  35.225
RC 151.657 GL  -22.40 GP    2.21 ZAL  60.78 ZAP 165.63 ETS   8.04 ZAE 127.54 ETE 178.77 ZAC  88.09 ETC  13.55 CLP-165.80
```

PLANETOCENTRIC CONIC

```
C3  16.990 VHL  4.122 DLA -30.37 RAL 193.96 RAD 6567.7 VEL 11.763 PTH   2.08 VHP  6.860 DPA   6.34 RAP 179.32 ECC 1.2796
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.54	11 13 9	1151.81	21.95	344.34	60.49	111.53	11 32 20	551.8	24.68	336.56
101.46	14 17 59	5844.55	21.96	278.40	60.49	111.52	15 55 23	5244.5	24.69	270.62
78.54	11 13 9	1151.81	21.95	344.34	60.49	111.53	11 32 20	551.8	24.68	336.56
101.46	14 17 59	5844.55	21.96	278.40	60.49	111.52	15 55 23	5244.5	24.69	270.62
110.00	13 14 1	757.98	12.06	310.45	55.26	122.23	13 26 39	158.0	16.23	303.82
110.00	17 16 17	5286.38	32.61	239.51	63.97	100.88	18 44 23	4686.4	33.76	230.46

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.5043 TRA 1.9271 TC3-4.4434 BAU 1.0099   SGT 5930.9 SGR  416.6 SG3  282.2     ST  3605.3 SR   383.9 SS  1195.8
RDE  .2753 RRA  .0646 RC3 -.1548 FAU .03283   RRT -.2192 RRF -.2308 RTF  .9661     CRT -.9410 CRS  .9102 CST -.9965
FDE-1.3657 FRA 1.4099 FC3-1.6728 BSP  18848   SGB 5945.5 R23  .0185 R13 -.9661     LSA 3814.3 MSA  161.9 SSA   17.5
BDE 2.5194 BRA 1.9282 BC3 4.4461 FSP   -941   SG1 5931.6 SG2  406.4 THA 179.11     EL1 3623.4 EL2  129.3 ALF 174.27
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 26 1967

HELIOCENTRIC CONIC DISTANCE 551.935

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.184 GAL   5.25 AZL  93.42 HCA 262.63 SMA 125.07 ECC .23279 INC 3.4223 VI  29.319
RP  107.60 LAP   3.39 LOP 165.84 VP  37.491 GAP  10.84 AZP  89.56 TAL 162.12 TAP  64.75 RCA  95.95 APO 154.18 V2  35.217
RC 153.730 GL  -21.38 GP    2.11 ZAL  58.50 ZAP 166.78 ETS   8.28 ZAE 127.27 ETE 178.86 ZAC  86.09 ETC  13.38 CLP-166.95
```

PLANETOCENTRIC CONIC

```
C3  18.227 VHL  4.269 DLA -30.32 RAL 196.67 RAD 6567.7 VEL 11.816 PTH   2.09 VHP  7.105 DPA   5.39 RAP 181.20 ECC 1.3000
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.70	11 25 6	1164.41	21.50	345.08	64.28	111.90	11 44 30	564.4	24.29	337.36
101.30	14 27 35	5864.58	21.52	279.70	64.29	111.89	16 5 20	5264.6	24.30	271.98
78.70	11 25 6	1164.41	21.50	345.08	64.28	111.90	11 44 30	564.4	24.29	337.36
101.30	14 27 35	5864.58	21.52	279.70	64.29	111.89	16 5 20	5264.6	24.30	271.98
110.00	13 23 57	777.12	11.37	311.49	58.87	122.46	13 36 54	177.1	15.57	304.91
110.00	17 27 54	5299.86	32.43	240.52	67.95	101.46	18 56 14	4699.9	33.67	231.50

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.5530 TRA 2.1622 TC3-4.1745 BAU 1.0178   SGT 5978.5 SGR  423.0 SG3  267.7     ST  3573.1 SR   395.1 SS  1150.2
RDE  .2936 RRA  .0628 RC3 -.1393 FAU .03009   RRT -.2364 RRF -.2472 RTF  .9662     CRT -.9350 CRS  .9033 CST -.9966
FDE-1.3023 FRA 1.4460 FC3-1.4294 BSP  19040   SGB 5993.5 R23  .0183 R13 -.9662     LSA 3770.7 MSA  167.7 SSA   17.1
BDE 2.5698 BRA 2.1631 BC3 4.1768 FSP   -896   SG1 5979.3 SG2  411.0 THA 179.04     EL1 3592.2 EL2  139.4 ALF 174.09
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 28 1967

HELIOCENTRIC CONIC DISTANCE 557.575

```
RL  151.96 LAL   -.00 LOL 263.23 VL  26.149 GAL   5.76 AZL  93.40 HCA 265.87 SMA 124.85 ECC .23819 INC 3.3992 VI  29.319
RP  107.63 LAP   3.39 LOP 169.09 VP  37.459 GAP  11.31 AZP  89.75 TAL 160.84 TAP  66.71 RCA  95.11 APO 154.59 V2  35.210
RC 155.789 GL  -20.37 GP    2.02 ZAL  56.28 ZAP 167.90 ETS   8.60 ZAE 127.03 ETE 178.93 ZAC  84.05 ETC  13.24 CLP-168.06
```

PLANETOCENTRIC CONIC

```
C3  19.643 VHL  4.432 DLA -30.22 RAL 199.30 RAD 6567.8 VEL 11.875 PTH   2.11 VHP  7.362 DPA   4.44 RAP 183.10 ECC 1.3233
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.99	11 37 50	1174.98	20.99	345.65	68.09	112.25	11 57 25	575.0	23.82	337.97
101.01	14 35 53	601.23	21.00	303.42	68.09	112.24	14 45 54	1.2	23.83	295.74
78.99	11 37 50	1174.98	20.99	345.65	68.09	112.25	11 57 25	575.0	23.82	337.97
101.01	14 35 53	601.23	21.00	303.42	68.09	112.24	14 45 54	1.2	23.83	295.74
110.00	13 32 55	799.87	10.53	312.73	62.45	122.71	13 46 15	199.9	14.77	306.19
110.00	17 39 58	5312.37	32.25	241.45	71.96	101.99	19 8 30	4712.4	33.57	232.47

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.5962 TRA 2.4150 TC3-3.8906 BAU 1.0222   SGT 6017.6 SGR  428.4 SG3  254.0     ST  3528.5 SR   405.3 SS  1104.6
RDE  .3128 RRA  .0597 RC3 -.1239 FAU .02738   RRT -.2544 RRF -.2641 RTF  .9661     CRT -.9286 CRS  .8958 CST -.9966
FDE-1.2404 FRA 1.4839 FC3-1.2069 BSP  19130   SGB 6032.8 R23  .0178 R13 -.9661     LSA 3715.3 MSA  174.3 SSA   16.7
BDE 2.6150 BRA 2.4158 BC3 3.8926 FSP   -849   SG1 6018.6 SG2  414.3 THA 178.96     EL1 3548.5 EL2  149.6 ALF 173.90
```

LAUNCH DATE JUN 15 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 30 1967

HELIOCENTRIC CONIC DISTANCE 563.163
RL 151.96 LAL -.00 LOL 263.23 VL 26.113 GAL 6.30 AZL 93.38 HCA 269.10 SMA 124.63 ECC .24401 INC 3.3763 V1 29.319
RP 107.65 LAP 3.38 LOP 172.33 VP 37.426 GAP 11.79 AZP 89.95 TAL 159.57 TAP 68.67 RCA 94.22 APO 155.04 V2 35.201
RC 157.834 GL -19.36 GP 1.94 ZAL 54.11 ZAP 168.99 ETS 9.03 ZAE 126.79 ETE 179.00 ZAC 82.00 ETC 13.11 CLP-169.16
PLANETOCENTRIC CONIC
C3 21.264 VHL 4.611 DLA -30.07 RAL 201.87 RAD 6567.9 VEL 11.943 PTH 2.13 VHP 7.632 OPA 3.48 RAP 185.02 ECC 1.3499

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.43	11 51 20	1183.48	20.40	346.02	71.88	112.59	12 11 3	583.5	23.28	338.40
100.57	14 42 50	630.60	20.41	305.35	71.89	112.57	14 53 20	30.6	23.30	297.72
79.43	11 51 20	1183.48	20.40	346.02	71.88	112.59	12 11 3	583.5	23.28	338.40
100.57	14 42 50	630.60	20.41	305.35	71.89	112.57	14 53 20	30.6	23.30	297.72
110.00	13 40 58	826.03	9.57	314.14	65.99	122.97	13 54 44	226.0	13.84	307.65
110.00	17 52 21	5324.09	32.09	242.33	75.99	102.48	19 21 5	4724.1	33.47	233.37

DIFFERENTIAL CORRECTIONS
TDE-2.6421 TRA 2.6786 TC3-3.6111 BAU 1.0270
RDE .3330 RRA .0552 RC3 -.1087 FAU .02495
FDE-1.1853 FRA 1.5190 FC3-1.0157 BSP 19309
BDE 2.6630 BRA 2.6792 BC3 3.6128 FSP -811

MID-COURSE EXECUTION ACCURACY
SGT 6054.7 SGR 433.0 SG3 241.3
RRT -.2744 RRF -.2832 RTF .9662
SGB 6070.2 R23 .0174 R13 -.9663
SG1 6055.9 SG2 416.3 THA 178.87

ORBIT DETERMINATION ACCURACY
ST 3481.1 SR 414.4 SS 1062.9
CRT -.9222 CRS .8888 CST -.9967
LSA 3658.8 MSA 180.8 SSA 16.2
EL1 3502.1 EL2 159.3 ALF 173.72

LAUNCH DATE JUN 15 1967 FLIGHT TIME 200.00 ARRIVAL DATE JAN 1 1968

HELIOCENTRIC CONIC DISTANCE 568.693
RL 151.96 LAL -.00 LOL 263.23 VL 26.078 GAL 6.88 AZL 93.35 HCA 272.34 SMA 124.41 ECC .25029 INC 3.3535 V1 29.319
RP 107.68 LAP 3.35 LOP 175.58 VP 37.393 GAP 12.30 AZP 90.14 TAL 158.29 TAP 70.63 RCA 93.28 APO 155.55 V2 35.192
RC 159.863 GL -18.36 GP 1.86 ZAL 52.01 ZAP 170.06 ETS 9.60 ZAE 126.57 ETE 179.05 ZAC 79.92 ETC 13.01 CLP-170.24
PLANETOCENTRIC CONIC
C3 23.117 VHL 4.808 DLA -29.89 RAL 204.35 RAD 6567.9 VEL 12.021 PTH 2.15 VHP 7.918 OPA 2.52 RAP 186.96 ECC 1.3804

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.01	12 5 38	1189.62	19.75	346.19	75.66	112.90	12 25 28	589.6	22.68	338.62
99.99	14 48 18	664.94	19.77	307.61	75.67	112.89	14 59 23	64.9	22.69	300.04
100.00	14 44 21	677.55	19.42	308.40	75.51	113.18	14 55 38	77.6	22.39	300.86
100.00	14 52 16	652.24	20.09	306.82	75.81	112.61	15 3 9	52.2	22.98	299.21
110.00	13 48 9	855.36	8.48	315.71	69.48	123.24	14 2 24	255.4	12.79	309.27
110.00	18 4 58	5335.24	31.92	243.15	80.02	102.94	19 33 53	4735.2	33.37	234.22

DIFFERENTIAL CORRECTIONS
TDE-2.6868 TRA 2.9577 TC3-3.3310 BAU 1.0299
RDE .3539 RRA .0493 RC3 -.0941 FAU .02263
FDE-1.1338 FRA 1.5539 FC3 -.8475 BSP 19470
BDE 2.7100 BRA 2.9581 BC3 3.3323 FSP -774

MID-COURSE EXECUTION ACCURACY
SGT 6085.9 SGR 436.7 SG3 229.4
RRT -.2954 RRF -.3030 RTF .9665
SGB 6101.5 R23 .0169 R13 -.9665
SG1 6087.3 SG2 417.1 THA 178.78

ORBIT DETERMINATION ACCURACY
ST 3427.6 SR 422.3 SS 1023.1
CRT -.9157 CRS .8816 CST -.9968
LSA 3596.9 MSA 187.5 SSA 15.8
EL1 3449.4 EL2 168.6 ALF 173.55

LAUNCH DATE JUN 15 1967 FLIGHT TIME 202.00 ARRIVAL DATE JAN 3 1968

HELIOCENTRIC CONIC DISTANCE 574.157
RL 151.96 LAL -.00 LOL 263.23 VL 26.042 GAL 7.49 AZL 93.33 HCA 275.57 SMA 124.20 ECC .25706 INC 3.3305 V1 29.319
RP 107.71 LAP 3.31 LOP 178.82 VP 37.359 GAP 12.83 AZP 90.32 TAL 157.02 TAP 72.60 RCA 92.27 APO 156.13 V2 35.183
RC 161.876 GL -17.37 GP 1.80 ZAL 49.97 ZAP 171.12 ETS 10.35 ZAE 126.35 ETE 179.09 ZAC 77.83 ETC 12.94 CLP-171.30
PLANETOCENTRIC CONIC
C3 25.237 VHL 5.024 DLA -29.67 RAL 206.74 RAD 6568.0 VEL 12.108 PTH 2.17 VHP 8.220 OPA 1.56 RAP 188.91 ECC 1.4153

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.76	12 20 53	1192.88	19.04	346.11	79.42	113.19	12 40 46	592.9	22.02	338.60
99.24	14 52 7	704.70	19.06	310.25	79.43	113.18	15 3 52	104.7	22.03	302.73
100.00	14 27 6	784.70	16.42	314.94	78.18	115.33	14 40 11	184.7	19.70	307.68
100.00	15 28 35	5876.16	21.72	280.65	80.58	111.06	17 6 31	5276.2	24.39	272.87
110.00	13 54 29	887.57	7.27	317.42	72.92	123.49	14 9 17	287.6	11.62	311.04
110.00	18 17 42	5346.06	31.75	243.95	84.06	103.38	19 46 48	4746.1	33.26	235.05

DIFFERENTIAL CORRECTIONS
TDE-2.7300 TRA 3.2543 TC3-3.0523 BAU 1.0302
RDE .3756 RRA .0418 RC3 -.0804 FAU .02042
FDE-1.0856 FRA 1.5896 FC3 -.7005 BSP 19607
BDE 2.7558 BRA 3.2546 BC3 3.0533 FSP -739

MID-COURSE EXECUTION ACCURACY
SGT 6111.2 SGR 439.4 SG3 218.3
RRT -.3171 RRF -.3234 RTF .9668
SGB 6127.0 R23 .0162 R13 -.9669
SG1 6112.8 SG2 416.6 THA 178.69

ORBIT DETERMINATION ACCURACY
ST 3368.3 SR 428.7 SS 985.5
CRT -.9089 CRS .8742 CST -.9969
LSA 3530.3 MSA 194.1 SSA 15.3
EL1 3390.9 EL2 177.6 ALF 173.38

LAUNCH DATE JUN 15 1967 FLIGHT TIME 204.00 ARRIVAL DATE JAN 5 1968

HELIOCENTRIC CONIC DISTANCE 579.547
RL 151.96 LAL -.00 LOL 263.23 VL 26.007 GAL 8.14 AZL 93.31 HCA 278.81 SMA 123.99 ECC .26439 INC 3.3073 V1 29.319
RP 107.74 LAP 3.27 LOP 182.05 VP 37.325 GAP 13.39 AZP 90.51 TAL 155.77 TAP 74.57 RCA 91.21 APO 156.77 V2 35.172
RC 163.875 GL -16.40 GP 1.74 ZAL 48.02 ZAP 172.15 ETS 11.36 ZAE 126.14 ETE 179.12 ZAC 75.73 ETC 12.89 CLP-172.35
PLANETOCENTRIC CONIC
C3 27.663 VHL 5.260 DLA -29.41 RAL 209.03 RAD 6568.1 VEL 12.208 PTH 2.19 VHP 8.542 OPA .60 RAP 190.87 ECC 1.4553

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.69	12 37 17	1192.43	18.28	345.73	83.15	113.46	12 57 10	592.4	21.29	338.27
98.31	14 54 2	750.67	18.29	313.30	83.15	113.44	15 6 33	150.7	21.31	305.84
100.00	14 22 7	852.92	14.39	318.99	81.26	116.48	14 36 20	252.9	17.83	311.89
100.00	15 51 53	5853.46	22.27	279.19	84.86	110.48	17 29 27	5253.5	24.85	271.35
110.00	14 0 4	922.38	5.96	319.26	76.30	123.72	14 15 26	322.4	10.35	312.92
110.00	18 30 26	5356.76	31.58	244.74	88.08	103.82	19 59 42	4756.8	33.16	235.87

DIFFERENTIAL CORRECTIONS
TDE-2.7695 TRA 3.5727 TC3-2.7729 BAU 1.0258
RDE .3978 RRA .0326 RC3 -.0680 FAU .01821
FDE-1.0392 FRA 1.6280 FC3 -.5699 BSP 19634
BDE 2.7979 BRA 3.5729 BC3 2.7737 FSP -702

MID-COURSE EXECUTION ACCURACY
SGT 6129.6 SGR 441.1 SG3 207.8
RRT -.3390 RRF -.3437 RTF .9672
SGB 6145.5 R23 .0152 R13 -.9672
SG1 6131.4 SG2 414.8 THA 178.60

ORBIT DETERMINATION ACCURACY
ST 3302.4 SR 433.5 SS 949.4
CRT -.9016 CRS .8662 CST -.9970
LSA 3457.6 MSA 200.9 SSA 14.8
EL1 3325.6 EL2 186.2 ALF 173.23

LAUNCH DATE JUN 15 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 7 1968

HELIOCENTRIC CONIC DISTANCE 584.851
RL 151.96 LAL -.00 LOL 263.23 VL 25.972 GAL 8.83 AZL 93.28 HCA 282.04 SMA 123.78 ECC .27234 INC 3.2838 V1 29.319
RP 107.78 LAP 3.21 LOP 185.29 VP 37.291 GAP 13.99 AZP 90.69 TAL 154.52 TAP 76.56 RCA 90.07 APO 157.49 V2 35.162
RC 165.860 GL -15.45 GP 1.68 ZAL 46.14 ZAP 173.18 ETS 12.73 ZAE 125.93 ETE 179.14 ZAC 73.62 ETC 12.87 CLP-173.39
PLANETOCENTRIC CONIC
C3 30.445 VHL 5.518 DLA -29.13 RAL 211.23 RAD 6568.2 VEL 12.321 PTH 2.22 VHP 8.884 DPA -.36 RAP 192.84 ECC 1.5010

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.86	12 55 21	1186.49	17.46	344.92	86.84	113.69	13 15 8	586.5	20.52	337.52
97.14	14 53 29	804.52	17.48	316.91	86.85	113.68	15 6 54	204.5	20.53	309.50
100.00	14 19 6	914.93	12.48	322.60	84.38	117.38	14 34 21	314.9	16.05	315.63
100.00	16 12 26	5839.35	22.60	278.27	89.04	110.10	17 49 45	5239.4	25.13	270.39
110.00	14 4 56	959.51	4.55	321.22	79.63	123.92	14 20 56	359.5	8.97	314.92
110.00	18 43 5	5367.54	31.40	245.53	92.09	104.26	20 12 32	4767.5	33.04	236.69

DIFFERENTIAL CORRECTIONS
TOE-2.8137 TRA 3.9059 TC3-2.5078 BAU 1.0210
ROE .4206 RRA .0217 RC3 -.0566 FAU .01622
FOE -.9988 FRA 1.6651 FC3 -.4611 BSP 19753
BOE 2.8450 BRA 3.9060 BC3 2.5085 FSP -671

MID-COURSE EXECUTION ACCURACY
SGT 6144.5 SGR 442.0 SG3 198.0
RRT -.3621 RRF -.3654 RTF .9678
SGB 6160.4 R23 .0143 R13 -.9679
SG1 6146.6 SG2 411.8 THA 178.50

ORBIT DETERMINATION ACCURACY
ST 3237.9 SR 436.9 SS 917.5
CRT -.8945 CRS .8587 CST -.9971
LSA 3387.3 MSA 206.8 SSA 14.4
EL1 3261.5 EL2 193.9 ALF 173.09

LAUNCH DATE JUN 15 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 9 1968

HELIOCENTRIC CONIC DISTANCE 590.059
RL 151.96 LAL -.00 LOL 263.23 VL 25.937 GAL 9.57 AZL 93.26 HCA 285.27 SMA 123.57 ECC .28097 INC 3.2596 V1 29.319
RP 107.81 LAP 3.14 LOP 188.52 VP 37.256 GAP 14.62 AZP 90.86 TAL 153.30 TAP 78.56 RCA 88.85 APO 158.29 V2 35.151
RC 167.829 GL -14.52 GP 1.63 ZAL 44.34 ZAP 174.19 ETS 14.66 ZAE 125.71 ETE 179.16 ZAC 71.51 ETC 12.88 CLP-174.42
PLANETOCENTRIC CONIC
C3 33.637 VHL 5.800 DLA -28.82 RAL 213.32 RAD 6568.3 VEL 12.450 PTH 2.25 VHP 9.251 DPA -1.31 RAP 194.82 ECC 1.5536

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.41	13 16 13	1171.26	16.60	343.40	90.49	113.90	13 35 45	571.3	19.69	336.05
95.59	14 49 19	869.94	16.61	321.33	90.50	113.89	15 3 49	269.9	19.70	313.98
100.00	14 16 54	974.35	10.60	326.00	87.48	118.12	14 33 8	374.3	14.27	319.14
100.00	16 31 20	5830.13	22.81	277.67	93.14	109.86	18 8 30	5230.1	25.31	269.76
110.00	14 9 10	998.68	3.06	323.27	82.91	124.06	14 25 48	398.7	7.51	317.01
110.00	18 55 34	5378.56	31.21	246.33	96.07	104.70	20 25 12	4778.6	32.92	237.52

DIFFERENTIAL CORRECTIONS
TOE-2.8587 TRA 4.2604 TC3-2.2514 BAU 1.0127
ROE .4439 RRA .0090 RC3 -.0465 FAU .01429
FOE -.9619 FRA 1.7040 FC3 -.3679 BSP 19853
BOE 2.8930 BRA 4.2604 BC3 2.2519 FSP -642

MID-COURSE EXECUTION ACCURACY
SGT 6154.0 SGR 442.0 SG3 188.8
RRT -.3857 RRF -.3875 RTF .9686
SGB 6169.9 R23 .0133 R13 -.9686
SG1 6156.4 SG2 407.6 THA 178.41

ORBIT DETERMINATION ACCURACY
ST 3171.5 SR 438.6 SS 888.4
CRT -.8872 CRS .8513 CST -.9972
LSA 3315.9 MSA 212.3 SSA 13.9
EL1 3195.4 EL2 200.8 ALF 172.98

LAUNCH DATE JUN 15 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 11 1968

HELIOCENTRIC CONIC DISTANCE 595.155
RL 151.96 LAL -.00 LOL 263.23 VL 25.903 GAL 10.36 AZL 93.23 HCA 288.49 SMA 123.36 ECC .29036 INC 3.2348 V1 29.319
RP 107.84 LAP 3.07 LOP 191.75 VP 37.222 GAP 15.29 AZP 91.03 TAL 152.10 TAP 80.59 RCA 87.54 APO 159.19 V2 35.139
RC 169.783 GL -13.61 GP 1.58 ZAL 42.63 ZAP 175.19 ETS 17.50 ZAE 125.49 ETE 179.16 ZAC 69.40 ETC 12.91 CLP-175.46
PLANETOCENTRIC CONIC
C3 37.311 VHL 6.108 DLA -28.48 RAL 215.31 RAD 6568.5 VEL 12.597 PTH 2.28 VHP 9.645 DPA -2.25 RAP 196.80 ECC 1.6140

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
86.80	13 43 51	1133.79	15.70	340.23	94.09	114.07	14 2 45	533.8	18.82	332.94
93.20	14 37 34	959.76	15.71	327.50	94.10	114.07	14 53 34	359.8	18.83	320.20
100.00	14 15 4	1032.45	8.71	329.29	90.55	118.71	14 32 17	432.4	12.48	322.52
100.00	16 49 2	5824.38	22.95	277.30	97.17	109.70	18 26 6	5224.4	25.42	269.37
110.00	14 12 47	1039.65	1.50	325.41	86.13	124.15	14 30 6	439.6	5.97	319.18
110.00	19 7 49	5389.95	31.01	247.16	100.01	105.15	20 37 39	4789.9	32.78	238.38

DIFFERENTIAL CORRECTIONS
TOE-2.9057 TRA 4.6377 TC3-2.0052 BAU 1.0004
ROE .4676 RRA -.0057 RC3 -.0378 FAU .01244
FOE -.9285 FRA 1.7450 FC3 -.2886 BSP 19933
BOE 2.9430 BRA 4.6378 BC3 2.0055 FSP -614

MID-COURSE EXECUTION ACCURACY
SGT 6158.3 SGR 441.1 SG3 180.2
RRT -.4096 RRF -.4098 RTF .9695
SGB 6174.1 R23 .0121 R13 -.9696
SG1 6160.9 SG2 402.2 THA 178.31

ORBIT DETERMINATION ACCURACY
ST 3104.6 SR 438.6 SS 862.3
CRT -.8798 CRS .8439 CST -.9974
LSA 3244.6 MSA 217.1 SSA 13.5
EL1 3128.6 EL2 206.9 ALF 172.88

LAUNCH DATE JUN 15 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 13 1968

HELIOCENTRIC CONIC DISTANCE 600.120
RL 151.96 LAL -.00 LOL 263.23 VL 25.869 GAL 11.21 AZL 93.21 HCA 291.72 SMA 123.16 ECC .30061 INC 3.2089 V1 29.319
RP 107.88 LAP 2.98 LOP 194.98 VP 37.187 GAP 16.02 AZP 91.19 TAL 150.92 TAP 82.64 RCA 86.14 APO 160.19 V2 35.128
RC 171.722 GL -12.73 GP 1.54 ZAL 41.00 ZAP 176.17 ETS 21.93 ZAE 125.26 ETE 179.17 ZAC 67.30 ETC 12.98 CLP-176.50
PLANETOCENTRIC CONIC
C3 41.549 VHL 6.446 DLA -28.12 RAL 217.19 RAD 6568.6 VEL 12.764 PTH 2.32 VHP 10.070 DPA -3.18 RAP 198.78 ECC 1.6838

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 49 13	1168.09	12.14	341.04	96.38	115.78	14 8 41	568.1	15.51	333.98
90.00	14 47 13	979.82	17.42	329.74	98.84	112.68	15 3 33	379.8	20.35	322.29
100.00	14 13 25	1089.81	6.82	332.50	93.58	119.17	14 31 34	489.8	10.66	325.81
100.00	17 5 43	5821.37	23.02	277.10	101.15	109.62	18 42 44	5221.4	25.48	269.17
110.00	14 15 50	1082.17	-.13	327.63	89.29	124.18	14 33 52	482.2	4.36	321.41
110.00	19 19 46	5401.77	30.80	248.02	103.91	105.62	20 49 48	4801.8	32.63	239.28

DIFFERENTIAL CORRECTIONS
TOE-2.9549 TRA 5.0401 TC3-1.7705 BAU .9836
ROE .4916 RRA -.0224 RC3 -.0303 FAU .01064
FOE -.8985 FRA 1.7885 FC3 -.2217 BSP 19997
BOE 2.9955 BRA 5.0402 BC3 1.7708 FSP -587

MID-COURSE EXECUTION ACCURACY
SGT 6157.4 SGR 439.3 SG3 172.1
RRT -.4337 RRF -.4325 RTF .9707
SGB 6173.1 R23 .0108 R13 -.9707
SG1 6160.4 SG2 395.6 THA 178.22

ORBIT DETERMINATION ACCURACY
ST 3037.5 SR 437.0 SS 839.2
CRT -.8723 CRS .8366 CST -.9975
LSA 3173.7 MSA 221.1 SSA 13.0
EL1 3061.4 EL2 212.0 ALF 172.81

LAUNCH DATE JUN 15 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 15 1968

DISTANCE 604.933

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 25.835 GAL 12.12 AZL 93.18 HCA 294.94 SMA 122.97 ECC .31182 INC 3.1820 V1 29.319
RP 107.92 LAP 2.88 LOP 198.21 VP 37.152 GAP 16.80 AZP 91.34 TAL 149.79 TAP 84.73 RCA 84.62 APO 161.31 V2 35.116
RC 173.647 GL -11.87 GP 1.50 ZAL 39.46 ZAP 177.12 ETS 29.55 ZAE 125.02 ETE 179.17 ZAC 65.21 ETC 13.08 CLP-177.54

PLANETOCENTRIC CONIC
C3 46.453 VHL 6.816 DLA -27.75 RAL 218.97 RAD 6568.7 VEL 12.954 PTH 2.36 VHP 10.531 DPA -4.09 RAP 200.76 ECC 1.7645

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 35 26	1264.23	9.24	346.61	98.90	116.89	13 56 30	664.2	12.77	339.71
90.00	15 15 9	939.84	18.46	327.26	103.19	111.86	15 30 49	339.8	21.26	319.71
100.00	14 11 47	1146.72	4.92	335.65	96.57	119.52	14 30 54	546.7	8.82	329.03
100.00	17 21 29	5820.62	23.03	277.05	105.05	109.60	18 58 29	5220.6	25.49	269.12
110.00	14 18 22	1126.04	-1.81	329.92	92.39	124.14	14 37 8	526.0	2.69	323.71
110.00	19 31 23	5414.06	30.57	248.90	107.76	106.09	21 1 37	4814.1	32.47	240.20

DIFFERENTIAL CORRECTIONS
TDE-3.0045 TRA 5.4733 TC3-1.5454 BAU .9599
RDE .5157 RRA -.0413 RC3 -.0242 FAU .00883
FDE -.8707 FRA 1.8362 FC3 -.1646 BSP 19967
BDE 3.0484 BRA 5.4735 BC3 1.5456 FSP -559

MID-COURSE EXECUTION ACCURACY
SGT 6151.9 SGR 436.5 SG3 164.6
RRT -.4578 RRF -.4550 RTF .9719
SGB 6167.4 R23 .0093 R13 -.9720
SG1 6155.1 SG2 387.9 THA 178.13

ORBIT DETERMINATION ACCURACY
ST 2969.1 SR 433.7 SS 818.6
CRT -.8646 CRS .8290 CST -.9976
LSA 3102.2 MSA 224.4 SSA 12.6
EL1 2992.8 EL2 216.2 ALF 172.77

LAUNCH DATE JUN 15 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 17 1968

DISTANCE 609.564

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 25.802 GAL 13.11 AZL 93.15 HCA 298.16 SMA 122.77 ECC .32412 INC 3.1535 V1 29.319
RP 107.96 LAP 2.78 LOP 201.43 VP 37.118 GAP 17.64 AZP 91.49 TAL 148.70 TAP 86.86 RCA 82.98 APO 162.56 V2 35.103
RC 175.555 GL -11.04 GP 1.47 ZAL 38.01 ZAP 177.97 ETS 44.44 ZAE 124.75 ETE 179.17 ZAC 63.13 ETC 13.20 CLP-178.60

PLANETOCENTRIC CONIC
C3 52.150 VHL 7.222 DLA -27.35 RAL 220.63 RAD 6568.9 VEL 13.172 PTH 2.41 VHP 11.031 DPA -5.00 RAP 202.73 ECC 1.8583

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 27 5	1342.37	6.80	351.06	101.58	117.55	13 49 27	742.4	10.44	344.27
90.00	15 36 46	919.44	18.97	325.98	107.25	111.43	15 52 5	319.4	21.71	318.39
100.00	14 10 6	1203.33	3.02	338.78	99.51	119.75	14 30 10	603.3	6.96	332.20
100.00	17 36 25	5821.75	23.01	277.12	108.87	109.63	19 13 27	5221.8	25.47	269.19
110.00	14 20 23	1171.05	-3.52	332.27	95.44	124.02	14 39 54	571.0	.97	326.06
110.00	19 42 38	5426.80	30.33	249.81	111.55	106.58	21 13 4	4826.8	32.30	241.15

DIFFERENTIAL CORRECTIONS
TDE-3.0630 TRA 5.9327 TC3-1.3365 BAU .9319
RDE .5401 RRA -.0623 RC3 -.0192 FAU .00713
FDE -.8481 FRA 1.8861 FC3 -.1183 BSP 20015
BDE 3.1102 BRA 5.9330 BC3 1.3366 FSP -536

MID-COURSE EXECUTION ACCURACY
SGT 6141.4 SGR 433.0 SG3 157.4
RRT -.4824 RRF -.4783 RTF .9734
SGB 6156.6 R23 .0079 R13 -.9734
SG1 6145.0 SG2 379.0 THA 178.04

ORBIT DETERMINATION ACCURACY
ST 2904.6 SR 428.8 SS 802.1
CRT -.8573 CRS .8223 CST -.9978
LSA 3035.2 MSA 226.3 SSA 12.1
EL1 2927.9 EL2 219.0 ALF 172.75

LAUNCH DATE JUN 15 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 19 1968

DISTANCE 613.981

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 25.770 GAL 14.18 AZL 93.12 HCA 301.38 SMA 122.58 ECC .33766 INC 3.1234 V1 29.319
RP 107.99 LAP 2.67 LOP 204.65 VP 37.083 GAP 18.56 AZP 91.63 TAL 147.66 TAP 89.04 RCA 81.19 APO 163.97 V2 35.091
RC 177.448 GL -10.23 GP 1.44 ZAL 36.66 ZAP 178.53 ETS 75.48 ZAE 124.46 ETE 179.16 ZAC 61.08 ETC 13.37 CLP-179.68

PLANETOCENTRIC CONIC
C3 58.797 VHL 7.668 DLA -26.94 RAL 222.18 RAD 6569.1 VEL 13.422 PTH 2.45 VHP 11.578 DPA -5.88 RAP 204.68 ECC 1.9676

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 20 41	1413.52	4.55	355.07	104.29	117.98	13 44 15	813.5	8.25	348.35
90.00	15 55 30	907.38	19.27	325.22	111.14	111.16	16 10 37	307.4	21.97	317.60
100.00	14 8 18	1259.71	1.11	341.87	102.39	119.87	14 29 18	659.7	5.08	335.33
100.00	17 50 35	5824.46	22.94	277.30	112.61	109.70	19 27 39	5224.5	25.42	269.38
110.00	14 21 54	1216.99	-5.27	334.68	98.42	123.82	14 42 11	617.0	-.79	328.46
110.00	19 53 27	5439.95	30.07	250.75	115.25	107.08	21 24 7	4839.9	32.11	242.13

DIFFERENTIAL CORRECTIONS
TDE-3.1267 TRA 6.4259 TC3-1.1409 BAU .8969
RDE .5646 RRA -.0857 RC3 -.0153 FAU .00543
FDE -.8290 FRA 1.9405 FC3 -.0799 BSP 20034
BDE 3.1773 BRA 6.4265 BC3 1.1410 FSP -513

MID-COURSE EXECUTION ACCURACY
SGT 6126.1 SGR 428.6 SG3 150.7
RRT -.5071 RRF -.5018 RTF .9751
SGB 6141.1 R23 .0064 R13 -.9751
SG1 6130.0 SG2 369.2 THA 177.96

ORBIT DETERMINATION ACCURACY
ST 2841.1 SR 422.4 SS 788.8
CRT -.8502 CRS .8161 CST -.9980
LSA 2970.0 MSA 227.2 SSA 11.7
EL1 2863.9 EL2 220.6 ALF 172.75

LAUNCH DATE JUN 15 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 21 1968

DISTANCE 618.140

HELIOCENTRIC CONIC
RL 151.96 LAL -.00 LOL 263.23 VL 25.738 GAL 15.35 AZL 93.09 HCA 304.60 SMA 122.40 ECC .35259 INC 3.0911 V1 29.319
RP 108.03 LAP 2.54 LOP 207.87 VP 37.049 GAP 19.56 AZP 91.76 TAL 146.69 TAP 91.28 RCA 79.24 APO 165.55 V2 35.078
RC 179.325 GL -9.44 GP 1.41 ZAL 35.41 ZAP 178.39 ETS 117.09 ZAE 124.14 ETE 179.15 ZAC 59.05 ETC 13.56 CLP 179.21

PLANETOCENTRIC CONIC
C3 66.587 VHL 8.160 DLA -26.51 RAL 223.61 RAD 6569.3 VEL 13.709 PTH 2.51 VHP 12.178 DPA -6.74 RAP 206.62 ECC 2.0959

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 15 15	1480.81	2.39	358.83	106.97	118.22	13 39 55	880.8	6.14	352.17
90.00	16 12 22	900.23	19.44	324.77	114.89	111.00	16 27 22	300.2	22.13	317.13
100.00	14 6 19	1315.88	-.80	344.95	105.20	119.88	14 28 14	715.9	3.19	338.43
100.00	18 3 59	5828.44	22.85	277.56	116.25	109.81	19 41 8	5228.4	25.34	269.65
110.00	14 22 56	1263.70	-7.03	337.14	101.34	123.54	14 44 0	663.7	-2.58	330.89
110.00	20 3 51	5453.39	29.80	251.70	118.87	107.58	21 34 45	4853.4	31.91	243.13

DIFFERENTIAL CORRECTIONS
TDE-3.1977 TRA 6.9553 TC3 -.9576 BAU .8526
RDE .5892 RRA -.1113 RC3 -.0124 FAU .00373
FDE -.8135 FRA 2.0002 FC3 -.0484 BSP 20054
BDE 3.2515 BRA 6.9562 BC3 .9577 FSP -491

MID-COURSE EXECUTION ACCURACY
SGT 6104.8 SGR 423.3 SG3 144.5
RRT -.5317 RRF -.5253 RTF .9769
SGB 6119.5 R23 .0048 R13 -.9769
SG1 6109.0 SG2 358.3 THA 177.88

ORBIT DETERMINATION ACCURACY
ST 2779.2 SR 414.5 SS 778.9
CRT -.8435 CRS .8103 CST -.9981
LSA 2907.0 MSA 226.9 SSA 11.2
EL1 2801.2 EL2 220.9 ALF 172.78

LAUNCH DATE JUN 16 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 25 1967

HELIOCENTRIC CONIC DISTANCE 159.318

```
RL  151.97 LAL   -.00 LOL 264.19 VL  22.478 GAL    .85 AZL  93.59 HCA  63.94 SMA 106.91 ECC .42167 INC 3.5878 V1  29.317
RP  108.91 LAP  -3.22 LOP 328.09 VP  34.580 GAP -24.92 AZP  91.58 TAL 178.83 TAP 242.78 RCA  61.83 APO 151.99 V2  34.795
RC  43.455 GL  -11.54 GP   -1.08 ZAL  88.54 ZAP  13.37 ETS 175.76 ZAE 169.27 ETE  75.85 ZAC 103.79 ETC  14.68 CLP  13.33
```

PLANETOCENTRIC CONIC

```
C3  49.415 VHL  7.030 DLA  -8.87 RAL 171.42 RAD 6568.8 VEL 13.068 PTH   2.38 VHP 14.904 DPA   9.41 RAP 163.77 ECC 1.8133
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 19 50	2160.92	-18.23	38.11	45.94	112.05	6 55 51	1560.9	-15.08	30.85
90.00	16 3 34	5362.12	27.77	244.82	52.36	84.23	17 32 56	4762.1	26.68	236.33
100.00	7 36 51	1912.44	-19.56	19.26	45.35	113.06	8 8 44	1312.4	-16.27	12.01
100.00	17 29 14	5085.83	29.20	224.33	52.18	83.32	18 54 0	4485.8	27.97	215.74
110.00	8 35 15	1729.57	-23.11	3.65	43.62	115.92	9 4 5	1129.6	-19.43	356.44
110.00	18 47 19	4841.47	33.06	205.14	51.55	80.77	20 8 1	4241.5	31.43	196.29

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .4119 TRA -.8564 TC3  .0386 BAU  .0542   SGT  784.1 SGR  435.2 SG3   52.1     ST   397.0 SR   390.2 SS   346.6
RDE -.4745 RRA -.2081 RC3  .0724 FAU .01900   RRT -.0090 RRF  .0100 RTF -.6564    CRT -.7677 CRS -.8976 CST  .9695
FDE -.3130 FRA  .3419 FC3 -.3328 BSP  2105    SGB  896.8 R23 -.0015 R13  .6564    LSA  626.9 MSA  191.7 SSA   15.0
BDE  .6283 BRA  .8813 BC3  .0821 FSP  -114    SG1  784.1 SG2  435.2 THA 179.59    EL1  523.3 EL2  189.7 ALF 135.65
```

LAUNCH DATE JUN 16 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 27 1967

HELIOCENTRIC CONIC DISTANCE 165.866

```
RL  151.97 LAL   -.00 LOL 264.19 VL  22.896 GAL    .72 AZL  93.56 HCA  67.11 SMA 108.57 ECC .39990 INC 3.5571 V1  29.317
RP  108.90 LAP  -3.28 LOP 331.26 VP  34.857 GAP -23.57 AZP  91.39 TAL 178.92 TAP 246.03 RCA  65.15 APO 151.99 V2  34.799
RC  43.079 GL  -12.39 GP   -1.13 ZAL  88.87 ZAP  11.68 ETS 174.75 ZAE 168.19 ETE  63.60 ZAC 102.38 ETC  14.53 CLP  11.63
```

PLANETOCENTRIC CONIC

```
C3  43.851 VHL  6.622 DLA  -9.51 RAL 170.78 RAD 6568.7 VEL 12.854 PTH   2.34 VHP 14.150 DPA   8.80 RAP 165.12 ECC 1.7217
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 22 25	2110.01	-16.90	34.97	43.23	113.06	6 57 35	1510.0	-13.63	27.81
90.00	15 55 53	5353.12	27.71	244.17	49.74	83.91	17 25 6	4753.1	26.58	235.69
100.00	7 39 5	1862.66	-18.21	16.18	42.63	114.13	8 10 8	1262.7	-14.79	9.05
100.00	17 21 53	5075.70	29.12	223.58	49.56	82.94	18 46 29	4475.7	27.84	215.01
110.00	8 36 42	1682.24	-21.67	.73	40.87	117.11	9 4 44	1082.2	-17.86	353.67
110.00	18 40 46	4828.88	32.92	204.19	48.90	80.22	20 1 15	4228.9	31.22	195.38

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .4138 TRA -.8334 TC3  .0669 BAU  .0618   SGT  818.9 SGR  438.1 SG3   57.6     ST   419.9 SR   392.1 SS   368.7
RDE -.4492 RRA -.1949 RC3  .0814 FAU .01989   RRT -.0129 RRF  .0138 RTF -.6770    CRT -.7770 CRS -.9047 CST  .9692
FDE -.3320 FRA  .3437 FC3 -.3927 BSP  2238    SGB  928.7 R23 -.0016 R13  .6770    LSA  654.8 MSA  192.4 SSA   15.4
BDE  .6108 BRA  .8558 BC3  .1054 FSP  -129    SG1  818.9 SG2  438.0 THA 179.45    EL1  541.7 EL2  191.3 ALF 137.52
```

LAUNCH DATE JUN 16 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 29 1967

HELIOCENTRIC CONIC DISTANCE 172.451

```
RL  151.97 LAL   -.00 LOL 264.19 VL  23.282 GAL    .56 AZL  93.53 HCA  70.27 SMA 110.18 ECC .37944 INC 3.5278 V1  29.317
RP  108.88 LAP  -3.32 LOP 334.43 VP  35.117 GAP -22.29 AZP  91.19 TAL 179.08 TAP 249.35 RCA  68.37 APO 151.98 V2  34.804
RC  42.876 GL  -13.26 GP   -1.18 ZAL  89.32 ZAP   9.99 ETS 173.39 ZAE 166.71 ETE  53.47 ZAC 100.99 ETC  14.38 CLP   9.92
```

PLANETOCENTRIC CONIC

```
C3  39.024 VHL  6.247 DLA -10.13 RAL 170.00 RAD 6568.5 VEL 12.665 PTH   2.30 VHP 13.429 DPA   8.20 RAP 166.46 ECC 1.6422
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 24 15	2060.53	-15.56	31.96	40.47	113.96	6 58 36	1460.5	-12.19	24.90
90.00	15 47 50	5343.76	27.64	243.50	47.01	83.58	17 16 53	4743.8	26.46	235.03
100.00	7 40 35	1814.27	-16.83	13.24	39.86	115.07	8 10 49	1214.3	-13.32	6.22
100.00	17 14 11	5065.25	29.03	222.82	46.82	82.55	18 38 36	4465.2	27.70	214.27
110.00	8 37 26	1636.23	-20.21	357.95	38.08	118.17	9 4 42	1036.2	-16.29	351.02
110.00	18 33 49	4816.05	32.77	203.22	46.13	79.67	19 54 5	4216.1	30.99	194.44

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .4145 TRA -.8096 TC3  .1005 BAU  .0707   SGT  854.0 SGR  440.2 SG3   63.6     ST   442.4 SR   393.3 SS   391.2
RDE -.4252 RRA -.1822 RC3  .0910 FAU .02087   RRT -.0159 RRF  .0175 RTF -.6957    CRT -.7857 CRS -.9115 CST  .9687
FDE -.3518 FRA  .3442 FC3 -.4629 BSP  2363    SGB  960.8 R23 -.0025 R13  .6958    LSA  682.7 MSA  192.7 SSA   15.8
BDE  .5938 BRA  .8299 BC3  .1355 FSP  -144    SG1  854.0 SG2  440.1 THA 179.36    EL1  559.9 EL2  192.3 ALF 139.27
```

LAUNCH DATE JUN 16 1967 FLIGHT TIME 76.00 ARRIVAL DATE AUG 31 1967

HELIOCENTRIC CONIC DISTANCE 179.070

```
RL  151.97 LAL   -.00 LOL 264.19 VL  23.638 GAL    .40 AZL  93.50 HCA  73.44 SMA 111.72 ECC .36027 INC 3.4996 V1  29.317
RP  108.87 LAP  -3.35 LOP 337.60 VP  35.359 GAP -21.07 AZP  91.00 TAL 179.29 TAP 252.73 RCA  71.47 APO 151.97 V2  34.809
RC  42.849 GL  -14.15 GP   -1.24 ZAL  89.92 ZAP   8.29 ETS 171.47 ZAE 164.94 ETE  45.40 ZAC  99.60 ETC  14.25 CLP   8.19
```

PLANETOCENTRIC CONIC

```
C3  34.841 VHL  5.903 DLA -10.71 RAL 169.09 RAD 6568.4 VEL 12.498 PTH   2.26 VHP 12.738 DPA   7.58 RAP 167.77 ECC 1.5734
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 25 18	2012.83	-14.22	29.10	37.67	114.75	6 58 51	1412.8	-10.76	22.12
90.00	15 39 28	5334.16	27.56	242.80	44.18	83.24	17 8 22	4734.2	26.34	234.35
100.00	7 41 18	1767.64	-15.47	10.46	37.06	115.90	8 10 46	1167.6	-11.86	3.52
100.00	17 6 9	5054.59	28.94	222.04	43.98	82.15	18 30 24	4454.6	27.55	213.51
110.00	8 37 26	1591.88	-18.77	355.32	35.27	119.11	9 3 58	991.9	-14.74	348.52
110.00	18 26 31	4803.11	32.60	202.24	43.28	79.11	19 46 34	4203.1	30.76	193.51

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .4149 TRA -.7867 TC3  .1384 BAU  .0798   SGT  890.4 SGR  441.5 SG3   70.3     ST   465.4 SR   393.8 SS   415.2
RDE -.4023 RRA -.1700 RC3  .1009 FAU .02196   RRT -.0186 RRF  .0221 RTF -.7112    CRT -.7941 CRS -.9186 CST  .9679
FDE -.3737 FRA  .3436 FC3 -.5456 BSP  2450    SGB  993.9 R23 -.0045 R13  .7112    LSA  711.8 MSA  192.6 SSA   16.2
BDE  .5780 BRA  .8048 BC3  .1713 FSP  -162    SG1  890.5 SG2  441.4 THA 179.30    EL1  578.4 EL2  192.6 ALF 140.97
```

LAUNCH DATE JUN 16 1967 FLIGHT TIME 78.00 ARRIVAL DATE SEP 2 1967

HELIOCENTRIC CONIC DISTANCE 185.716
RL 151.97 LAL -.00 LOL 264.19 VL 23.966 GAL .22 AZL 93.47 HCA 76.60 SMA 113.21 ECC .34235 INC 3.4724 V1 29.317
RP 108.83 LAP -3.38 LOP 340.77 VP 35.585 GAP -19.90 AZP 90.81 TAL 179.57 TAP 256.18 RCA 74.45 APO 151.97 V2 34.815
RC 42.995 GL -15.06 GP -1.31 ZAL 90.64 ZAP 6.58 ETS 168.53 ZAE 163.00 ETE 39.01 ZAC 98.24 ETC 14.14 CLP 6.45

PLANETOCENTRIC CONIC
C3 31.217 VHL 5.587 DLA -11.24 RAL 168.03 RAD 6568.2 VEL 12.353 PTH 2.23 VHP 12.076 DPA 6.96 RAP 169.07 ECC 1.5138

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 25 33	1967.27	-12.90	26.40	34.85	115.43	6 58 20	1367.3	-9.37	19.49
90.00	15 30 50	5324.37	27.48	242.10	41.27	82.90	16 59 35	4724.4	26.21	233.66
100.00	7 41 14	1723.09	-14.13	7.83	34.23	116.62	8 9 57	1123.1	-10.44	.98
100.00	16 57 50	5043.78	28.83	221.25	41.06	81.75	18 21 54	4443.8	27.39	212.75
110.00	8 36 40	1549.50	-17.34	352.86	32.43	119.93	9 2 29	949.5	-13.23	346.16
110.00	18 18 54	4790.13	32.43	201.27	40.34	78.56	19 38 44	4190.1	30.52	192.58

DIFFERENTIAL CORRECTIONS
TOE .4193 TRA -.7609 TC3 .1860 BAU .0904
RDE -.3808 RRA -.1583 RC3 .1111 FAU .02315
FDE -.3980 FRA .3423 FC3 -.6421 BSP 2598
BDE .5664 BRA .7772 BC3 .2167 FSP -182

MID-COURSE EXECUTION ACCURACY
SGT 927.9 SGR 441.9 SG3 77.7
RRT -.0254 RRF .0277 RTF -.7300
SGB 1027.8 R23 -.0038 R13 .7300
SG1 928.0 SG2 441.8 THA 179.10

ORBIT DETERMINATION ACCURACY
ST 491.8 SR 393.7 SS 440.9
CRT -.8059 CRS -.9255 CST .9684
LSA 744.7 MSA 191.0 SSA 16.6
EL1 600.4 EL2 190.9 ALF 142.78

LAUNCH DATE JUN 16 1967 FLIGHT TIME 80.00 ARRIVAL DATE SEP 4 1967

HELIOCENTRIC CONIC DISTANCE 192.385
RL 151.97 LAL -.00 LOL 264.19 VL 24.268 GAL .04 AZL 93.45 HCA 79.77 SMA 114.64 ECC .32565 INC 3.4458 V1 29.317
RP 108.83 LAP -3.39 LOP 343.94 VP 35.796 GAP -18.79 AZP 90.61 TAL 179.92 TAP 259.69 RCA 77.31 APO 151.97 V2 34.822
RC 43.312 GL -15.98 GP -1.38 ZAL 91.50 ZAP 4.89 ETS 163.46 ZAE 160.99 ETE 33.93 ZAC 96.90 ETC 14.03 CLP 4.69

PLANETOCENTRIC CONIC
C3 28.082 VHL 5.299 DLA -11.74 RAL 166.86 RAD 6568.1 VEL 12.225 PTH 2.20 VHP 11.442 DPA 6.35 RAP 170.34 ECC 1.4622

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 24 59	1924.18	-11.63	23.87	32.00	116.00	6 57 3	1324.2	-8.04	17.03
90.00	15 22 1	5314.44	27.40	241.38	38.30	82.55	16 50 35	4714.4	26.08	232.96
100.00	7 40 22	1680.96	-12.83	5.38	31.38	117.23	8 8 23	1081.0	-9.08	358.59
100.00	16 49 18	5032.90	28.72	220.46	38.09	81.35	18 13 11	4432.9	27.23	211.98
110.00	8 35 8	1509.41	-15.97	350.57	29.59	120.63	9 0 18	909.4	-11.78	343.96
110.00	13 11 1	4777.21	32.25	200.30	37.34	78.01	19 30 38	4177.2	30.27	191.65

DIFFERENTIAL CORRECTIONS
TOE .4018 TRA -.7362 TC3 .2217 BAU .0950
RDE -.3603 RRA -.1473 RC3 .1217 FAU .02401
FDE -.4075 FRA .3376 FC3 -.7403 BSP 2509
BDE .5397 BRA .7508 BC3 .2529 FSP -189

MID-COURSE EXECUTION ACCURACY
SGT 951.3 SGR 441.4 SG3 84.2
RRT -.0159 RRF .0229 RTF -.7327
SGB 1048.7 R23 -.0080 R13 .7327
SG1 951.3 SG2 441.3 THA 179.46

ORBIT DETERMINATION ACCURACY
ST 498.3 SR 392.6 SS 450.0
CRT -.8041 CRS -.9294 CST .9650
LSA 753.3 MSA 192.7 SSA 17.1
EL1 604.5 EL2 192.4 ALF 143.33

LAUNCH DATE JUN 16 1967 FLIGHT TIME 82.00 ARRIVAL DATE SEP 6 1967

HELIOCENTRIC CONIC DISTANCE 199.076
RL 151.97 LAL -.00 LOL 264.19 VL 24.546 GAL -.14 AZL 93.42 HCA 82.94 SMA 116.00 ECC .31011 INC 3.4198 V1 29.317
RP 108.80 LAP -3.39 LOP 347.11 VP 35.992 GAP -17.72 AZP 90.42 TAL 180.32 TAP 263.26 RCA 80.03 APO 151.97 V2 34.830
RC 43.796 GL -16.90 GP -1.47 ZAL 92.47 ZAP 3.24 ETS 152.93 ZAE 158.98 ETE 29.84 ZAC 95.59 ETC 13.94 CLP 2.89

PLANETOCENTRIC CONIC
C3 25.370 VHL 5.037 DLA -12.19 RAL 165.55 RAD 6568.0 VEL 12.114 PTH 2.17 VHP 10.835 DPA 5.73 RAP 171.57 ECC 1.4175

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 23 33	1883.92	-10.42	21.54	29.13	116.48	6 54 56	1283.9	-6.78	14.75
90.00	15 13 3	5304.31	27.31	240.66	35.29	82.19	16 41 27	4704.3	25.94	232.25
100.00	7 38 39	1641.58	-11.59	3.11	28.52	117.75	8 6 1	1041.6	-7.79	356.38
100.00	16 40 37	5021.88	28.61	219.67	35.07	80.94	18 4 19	4421.9	27.06	211.20
110.00	8 32 50	1471.90	-14.65	348.45	26.74	121.23	8 57 22	871.9	-10.41	341.92
110.00	18 2 56	4764.32	32.07	199.34	34.30	77.47	19 22 20	4164.3	30.01	190.73

DIFFERENTIAL CORRECTIONS
TOE .4322 TRA -.6982 TC3 .3193 BAU .1171
RDE -.3417 RRA -.1369 RC3 .1312 FAU .02633
FDE -.4564 FRA .3282 FC3 -.8985 BSP 3039
BDE .5510 BRA .7115 BC3 .3452 FSP -238

MID-COURSE EXECUTION ACCURACY
SGT 1002.7 SGR 440.4 SG3 96.0
RRT -.0433 RRF .0435 RTF -.7690
SGB 1095.1 R23 -.0023 R13 .7690
SG1 1002.9 SG2 439.8 THA 178.65

ORBIT DETERMINATION ACCURACY
ST 548.9 SR 391.6 SS 498.4
CRT -.8347 CRS -.9411 CST .9701
LSA 817.9 MSA 183.6 SSA 17.6
EL1 649.1 EL2 182.4 ALF 146.20

LAUNCH DATE JUN 16 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 8 1967

HELIOCENTRIC CONIC DISTANCE 205.779
RL 151.97 LAL -.00 LOL 264.19 VL 24.801 GAL -.33 AZL 93.39 HCA 86.11 SMA 117.29 ECC .29572 INC 3.3941 V1 29.317
RP 108.78 LAP -3.39 LOP 350.29 VP 36.175 GAP -16.70 AZP 90.23 TAL 180.78 TAP 266.89 RCA 82.61 APO 151.97 V2 34.838
RC 44.440 GL -17.82 GP -1.56 ZAL 93.56 ZAP 1.89 ETS 124.05 ZAE 157.03 ETE 26.47 ZAC 94.31 ETC 13.86 CLP 1.06

PLANETOCENTRIC CONIC
C3 23.030 VHL 4.799 DLA -12.58 RAL 164.15 RAD 6567.9 VEL 12.017 PTH 2.14 VHP 10.253 DPA 5.11 RAP 172.77 ECC 1.3790

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 21 18	1846.74	-9.28	19.40	26.28	116.87	6 52 4	1246.7	-5.60	12.65
90.00	15 4 4	5294.03	27.21	239.92	32.25	81.84	16 32 18	4694.0	25.80	231.54
100.00	7 36 9	1605.19	-10.43	1.03	25.67	118.17	8 2 55	1005.2	-6.58	354.35
100.00	16 31 53	5010.79	28.49	218.86	32.03	80.54	17 55 24	4410.8	26.88	210.43
110.00	8 29 48	1437.22	-13.42	346.52	23.91	121.74	8 53 45	837.2	-9.13	340.06
110.00	17 54 44	4751.54	31.88	198.40	31.25	76.94	19 13 56	4151.5	29.75	189.83

DIFFERENTIAL CORRECTIONS
TOE .4342 TRA -.6719 TC3 .3838 BAU .1259
RDE -.3241 RRA -.1271 RC3 .1407 FAU .02799
FDE -.4889 FRA .3194 FC3-1.0521 BSP 3090
BDE .5418 BRA .6838 BC3 .4088 FSP -265

MID-COURSE EXECUTION ACCURACY
SGT 1039.2 SGR 438.3 SG3 106.3
RRT -.0507 RRF .0534 RTF -.7790
SGB 1127.9 R23 -.0054 R13 .7791
SG1 1039.5 SG2 437.6 THA 178.51

ORBIT DETERMINATION ACCURACY
ST 574.1 SR 389.8 SS 528.1
CRT -.8448 CRS -.9480 CST .9695
LSA 852.8 MSA 181.3 SSA 18.1
EL1 670.6 EL2 178.6 ALF 147.59

LAUNCH DATE JUN 16 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 10 1967

HELIOCENTRIC CONIC DISTANCE 212.494

RL 151.97 LAL -.00 LOL 264.19 VL 25.036 GAL -.51 AZL 93.37 HCA 89.28 SMA 118.51 ECC .28241 INC 3.3686 V1 29.317
RP 108.75 LAP -3.37 LOP 353.47 VP 36.344 GAP -15.73 AZP 90.04 TAL 181.30 TAP 270.58 RCA 85.04 APO 151.98 V2 34.846
RC 45.237 GL -18.72 GP -1.66 ZAL 94.74 ZAP 1.84 ETS 63.68 ZAE 155.18 ETE 23.66 ZAC 93.07 ETC 13.79 CLP -.81

PLANETOCENTRIC CONIC

C3 21.013 VHL 4.584 DLA -12.93 RAL 162.64 RAD 6567.9 VEL 11.933 PTH 2.12 VHP 9.696 DPA 4.49 RAP 173.93 ECC 1.3458

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 18 13	1812.93	-8.23	17.46	23.43	117.19	6 48 26	1212.9	-4.52	10.75
90.00	14 55 8	5283.49	27.10	239.17	29.22	81.47	16 23 12	4683.5	25.65	230.80
100.00	7 32 52	1572.09	-9.36	359.16	22.83	118.52	7 59 4	972.1	-5.48	352.52
100.00	16 23 11	4999.56	28.36	218.05	28.99	80.13	17 46 30	4399.6	26.70	209.64
110.00	8 26 2	1405.59	-12.28	344.78	21.09	122.15	8 49 27	805.6	-7.95	338.37
110.00	17 46 30	4738.83	31.68	197.46	28.19	76.42	19 5 29	4138.8	29.49	188.94

DIFFERENTIAL CORRECTIONS
TDE .4409 TRA -.6406 TC3 .4705 BAU .1386
ROE -.3079 RRA -.1179 RC3 .1490 FAU .03005
FOE -.5255 FRA .3079 FC3-1.2383 BSP 3261
BOE .5377 BRA .6514 BC3 .4935 FSP -302

MID-COURSE EXECUTION ACCURACY
SGT 1079.2 SGR 435.4 SG3 118.3
RRT -.0616 RRF .0637 RTF -.7956
SGB 1163.7 R23 -.0052 R13 .7957
SG1 1079.6 SG2 434.5 THA 178.30

ORBIT DETERMINATION ACCURACY
ST 603.8 SR 387.5 SS 559.9
CRT -.8583 CRS -.9548 CST .9704
LSA 892.5 MSA 177.0 SSA 18.6
EL1 696.4 EL2 172.4 ALF 149.05

LAUNCH DATE JUN 16 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 12 1967

HELIOCENTRIC CONIC DISTANCE 219.216

RL 151.97 LAL -.00 LOL 264.19 VL 25.251 GAL -.69 AZL 93.34 HCA 92.45 SMA 119.67 ECC .27016 INC 3.3430 V1 29.317
RP 108.72 LAP -3.34 LOP 356.65 VP 36.501 GAP -14.79 AZP 89.86 TAL 181.87 TAP 274.32 RCA 87.34 APO 152.00 V2 34.856
RC 46.178 GL -19.59 GP -1.77 ZAL 96.01 ZAP 3.25 ETS 32.55 ZAE 153.47 ETE 21.28 ZAC 91.89 ETC 13.74 CLP -2.73

PLANETOCENTRIC CONIC

C3 19.276 VHL 4.390 DLA -13.21 RAL 161.06 RAD 6567.8 VEL 11.860 PTH 2.10 VHP 9.163 DPA 3.89 RAP 175.03 ECC 1.3172

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 14 21	1782.66	-7.29	15.74	20.61	117.44	6 44 4	1182.7	-3.56	9.05
90.00	14 46 22	5272.65	26.99	238.39	26.20	81.10	16 14 15	4672.7	25.49	230.05
100.00	7 28 49	1542.42	-8.39	357.48	20.02	118.80	7 54 31	942.4	-4.48	350.88
100.00	16 14 36	4988.13	28.22	217.23	25.97	79.71	17 37 44	4388.1	26.51	208.85
110.00	8 21 35	1377.16	-11.25	343.23	18.30	122.49	8 44 32	777.2	-6.88	336.86
110.00	17 38 19	4726.15	31.47	196.53	25.16	75.91	18 57 5	4126.2	29.21	188.05

DIFFERENTIAL CORRECTIONS
TDE .4421 TRA -.6119 TC3 .5543 BAU .1484
ROE -.2929 RRA -.1092 RC3 .1561 FAU .03230
FOE -.5641 FRA .2953 FC3-1.4508 BSP 3358
BOE .5304 BRA .6216 BC3 .5758 FSP -338

MID-COURSE EXECUTION ACCURACY
SGT 1114.7 SGR 431.7 SG3 131.6
RRT -.0701 RRF .0743 RTF -.8063
SGB 1195.4 R23 -.0078 R13 .8065
SG1 1115.2 SG2 430.4 THA 178.17

ORBIT DETERMINATION ACCURACY
ST 627.4 SR 384.8 SS 591.1
CRT -.8685 CRS -.9607 CST .9702
LSA 927.6 MSA 174.0 SSA 19.1
EL1 716.8 EL2 166.9 ALF 150.18

LAUNCH DATE JUN 16 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 14 1967

HELIOCENTRIC CONIC DISTANCE 225.941

RL 151.97 LAL -.00 LOL 264.19 VL 25.447 GAL -.87 AZL 93.32 HCA 95.63 SMA 120.75 ECC .25890 INC 3.3174 V1 29.317
RP 108.69 LAP -3.30 LOP 359.83 VP 36.647 GAP -13.89 AZP 89.67 TAL 182.48 TAP 278.11 RCA 89.49 APO 152.02 V2 34.865
RC 47.255 GL -20.44 GP -1.90 ZAL 97.35 ZAP 5.07 ETS 21.42 ZAE 151.92 ETE 19.22 ZAC 90.76 ETC 13.69 CLP -4.71

PLANETOCENTRIC CONIC

C3 17.784 VHL 4.217 DLA -13.43 RAL 159.42 RAD 6567.7 VEL 11.797 PTH 2.09 VHP 8.653 DPA 3.28 RAP 176.08 ECC 1.2927

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 9 44	1756.08	-6.45	14.24	17.84	117.63	6 39 0	1156.1	-2.70	7.56
90.00	14 37 53	5261.43	26.87	237.59	23.23	80.72	16 5 34	4661.4	25.31	229.27
100.00	7 24 3	1516.31	-7.53	356.02	17.25	119.01	7 49 19	916.3	-3.60	349.44
100.00	16 6 15	4976.43	28.08	216.39	22.99	79.30	17 29 11	4376.4	26.31	208.03
110.00	8 16 30	1352.04	-10.32	341.87	15.56	122.77	8 39 2	752.0	-5.93	335.53
110.00	17 30 17	4713.47	31.26	195.60	22.17	75.40	18 48 51	4113.5	28.93	187.17

DIFFERENTIAL CORRECTIONS
TDE .4459 TRA -.5809 TC3 .6467 BAU .1585
ROE -.2793 RRA -.1013 RC3 .1613 FAU .03486
FOE -.6082 FRA .2781 FC3-1.6971 BSP 3515
BOE .5262 BRA .5897 BC3 .6665 FSP -383

MID-COURSE EXECUTION ACCURACY
SGT 1150.3 SGR 427.2 SG3 146.7
RRT -.0832 RRF .0881 RTF -.8175
SGB 1227.0 R23 -.0093 R13 .8177
SG1 1150.9 SG2 425.5 THA 177.95

ORBIT DETERMINATION ACCURACY
ST 653.2 SR 381.8 SS 624.7
CRT -.8801 CRS -.9667 CST .9706
LSA 966.1 MSA 170.2 SSA 19.6
EL1 739.4 EL2 160.1 ALF 151.30

LAUNCH DATE JUN 16 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 16 1967

HELIOCENTRIC CONIC DISTANCE 232.666

RL 151.97 LAL -.00 LOL 264.19 VL 25.627 GAL -1.03 AZL 93.29 HCA 98.81 SMA 121.77 ECC .24860 INC 3.2915 V1 29.317
RP 108.66 LAP -3.25 LOP 3.01 VP 36.782 GAP -13.03 AZP 89.50 TAL 183.13 TAP 281.93 RCA 91.50 APO 152.04 V2 34.875
RC 48.458 GL -21.23 GP -2.04 ZAL 98.75 ZAP 7.05 ETS 16.18 ZAE 150.57 ETE 17.42 ZAC 89.70 ETC 13.67 CLP -6.75

PLANETOCENTRIC CONIC

C3 16.503 VHL 4.062 DLA -13.59 RAL 157.73 RAD 6567.7 VEL 11.742 PTH 2.07 VHP 8.165 DPA 2.70 RAP 177.05 ECC 1.2716

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 4 26	1733.24	-5.73	12.95	15.13	117.78	6 33 20	1133.2	-1.97	6.29
90.00	14 29 45	5249.77	26.74	236.76	20.31	80.32	15 57 15	4649.8	25.13	228.47
100.00	7 18 39	1493.82	-6.78	354.77	14.55	119.18	7 43 32	893.8	-2.84	348.20
100.00	15 58 14	4964.42	27.92	215.53	20.07	78.87	17 20 59	4364.4	26.10	207.20
110.00	8 10 52	1330.28	-9.52	340.70	12.88	122.99	8 33 2	730.3	-5.11	334.38
110.00	17 22 31	4700.73	31.03	194.68	19.24	74.89	18 40 51	4100.7	28.65	186.29

DIFFERENTIAL CORRECTIONS
TDE .4489 TRA -.5500 TC3 .7455 BAU .1684
ROE -.2668 RRA -.0939 RC3 .1641 FAU .03776
FOE -.6569 FRA .2582 FC3-1.9809 BSP 3630
BOE .5222 BRA .5580 BC3 .7633 FSP -433

MID-COURSE EXECUTION ACCURACY
SGT 1185.2 SGR 421.9 SG3 163.7
RRT -.0974 RRF .1039 RTF -.8286
SGB 1258.0 R23 -.0116 R13 .8288
SG1 1186.0 SG2 419.6 THA 177.73

ORBIT DETERMINATION ACCURACY
ST 677.1 SR 378.6 SS 659.3
CRT -.8910 CRS -.9720 CST .9709
LSA 1004.1 MSA 166.7 SSA 20.0
EL1 760.5 EL2 153.0 ALF 152.30

```
LAUNCH DATE  JUN 16 1967                          FLIGHT TIME  94.00                          ARRIVAL DATE  SEP 18 1967

 HELIOCENTRIC CONIC                                DISTANCE 239.389
  RL  151.97 LAL   -.00 LOL 264.19 VL  25.791 GAL  -1.19 AZL  93.27 HCA 101.98 SMA 122.72 ECC .23920 INC 3.2651 V1  29.317
  RP  108.63 LAP  -3.19 LOP   6.19 VP  36.906 GAP -12.19 AZP  89.32 TAL 183.81 TAP 285.79 RCA  93.36 APO 152.07 V2  34.886
  RC  49.776 GL  -21.97 GP   -2.20 ZAL 100.17 ZAP   9.14 ETS  13.19 ZAE 149.44 ETE  15.82 ZAC  88.71 ETC  13.65 CLP  -8.87
 PLANETOCENTRIC CONIC
  C3  15.405 VHL  3.925 DLA -13.69 RAL 156.03 RAD 6567.6 VEL 11.696 PTH   2.06 VHP  7.699 DPA   2.12 RAP 177.95 ECC 1.2535
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     5 58 32   1714.14      -5.12      11.87      12.49      117.89    6 27  7    1114.1       -1.35       5.22
     90.00    14 22  6   5237.61      26.60     235.90      17.48       79.91   15 49 24    4637.6       24.93     227.63
    100.00     7 12 41   1474.93      -6.16     353.72      11.93      119.31    7 37 16     874.9       -2.20     347.16
    100.00    15 50 39   4952.04      27.76     214.65      17.23       78.43   17 13 11    4352.0       25.88     206.35
    110.00     8  4 45   1311.84      -8.84     339.71      10.29      123.16    8 26 37     711.8       -4.41     333.41
    110.00    17 15  4   4687.90      30.80     193.75      16.39       74.39   18 33 12    4087.9       28.35     185.40
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE  .4521 TRA -.5180 TC3  .8461 BAU  .1775      SGT 1217.6 SGR  416.0 SG3  183.0         ST   700.4 SR   375.2 SS   696.2
  RDE -.2556 RRA -.0873 RC3  .1642 FAU .04107      RRT -.1158 RRF  .1233 RTF -.8385         CRT -.9019 CRS -.9770 CST  .9713
  FDE -.7124 FRA  .2334 FC3-2.3080 BSP   3767      SGB 1286.7 R23 -.0137 R13  .8388         LSA 1043.6 MSA  163.1 SSA   20.4
  BDE  .5194 BRA  .5253 BC3  .8619 FSP   -492      SG1 1218.7 SG2  412.8 THA 177.44         EL1  781.2 EL2  145.3 ALF 153.21

LAUNCH DATE  JUN 16 1967                          FLIGHT TIME  96.00                          ARRIVAL DATE  SEP 20 1967

 HELIOCENTRIC CONIC                                DISTANCE 246.105
  RL  151.97 LAL   -.00 LOL 264.19 VL  25.940 GAL  -1.35 AZL  93.24 HCA 105.16 SMA 123.60 ECC .23066 INC 3.2380 V1  29.317
  RP  108.59 LAP  -3.13 LOP   9.38 VP  37.021 GAP -11.40 AZP  89.15 TAL 184.50 TAP 289.67 RCA  95.09 APO 152.11 V2  34.897
  RC  51.201 GL  -22.65 GP   -2.38 ZAL 101.61 ZAP  11.33 ETS  11.29 ZAE 148.52 ETE  14.37 ZAC  87.82 ETC  13.64 CLP -11.08
 PLANETOCENTRIC CONIC
  C3  14.464 VHL  3.803 DLA -13.73 RAL 154.34 RAD 6567.6 VEL 11.655 PTH   2.05 VHP  7.254 DPA   1.56 RAP 178.77 ECC 1.2380
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     5 52  9   1698.66      -4.63      11.00       9.95      117.97    6 20 27    1098.7       -.85        4.36
     90.00    14 15  0   5224.93      26.44     235.01      14.75       79.49   15 42  5    4624.9       24.73     226.76
    100.00     7  6 15   1459.55      -5.64     352.86       9.40      119.40    7 30 35     859.5       -1.68     346.32
    100.00    15 43 34   4939.28      27.58     213.74      14.50       77.99   17  5 53    4339.3       25.64     205.48
    110.00     7 58 16   1296.64      -8.27     338.90       7.79      123.29    8 19 53     696.6       -3.83     332.62
    110.00    17  8  3   4674.95      30.56     192.82      13.64       73.88   18 25 58    4075.0       28.05     184.52
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE  .4527 TRA -.4872 TC3  .9456 BAU  .1855      SGT 1246.4 SGR  409.3 SG3  204.8         ST   719.0 SR   371.7 SS   733.0
  RDE -.2455 RRA -.0812 RC3  .1609 FAU .04480      RRT -.1353 RRF  .1449 RTF -.8469         CRT -.9112 CRS -.9813 CST  .9714
  FDE -.7726 FRA  .2055 FC3-2.6816 BSP   3864      SGB 1311.9 R23 -.0170 R13  .8473         LSA 1079.9 MSA  160.5 SSA   20.7
  BDE  .5150 BRA  .4940 BC3  .9592 FSP   -556      SG1 1247.8 SG2  405.1 THA 177.16         EL1  797.6 EL2  138.0 ALF 153.94

LAUNCH DATE  JUN 16 1967                          FLIGHT TIME  98.00                          ARRIVAL DATE  SEP 22 1967

 HELIOCENTRIC CONIC                                DISTANCE 252.814
  RL  151.97 LAL   -.00 LOL 264.19 VL  26.075 GAL  -1.49 AZL  93.21 HCA 108.35 SMA 124.41 ECC .22292 INC 3.2101 V1  29.317
  RP  108.56 LAP  -3.05 LOP  12.56 VP  37.126 GAP -10.63 AZP  88.99 TAL 185.21 TAP 293.56 RCA  96.68 APO 152.15 V2  34.908
  RC  52.722 GL  -23.26 GP   -2.59 ZAL 103.05 ZAP  13.64 ETS  10.00 ZAE 147.85 ETE  13.05 ZAC  87.02 ETC  13.65 CLP -13.39
 PLANETOCENTRIC CONIC
  C3  13.660 VHL  3.696 DLA -13.72 RAL 152.68 RAD 6567.5 VEL 11.621 PTH   2.04 VHP  6.830 DPA   1.01 RAP 179.48 ECC 1.2248
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     5 45 21   1686.67      -4.25      10.33       7.53      118.02    6 13 28    1086.7       -.46        3.69
     90.00    14  8 30   5211.73      26.28     234.08      12.14       79.05   15 35 22    4611.7       24.50     225.86
    100.00     6 59 28   1447.51      -5.24     352.20       6.98      119.47    7 23 36     847.5       -1.28     345.65
    100.00    15 37  4   4926.12      27.39     212.81      11.88       77.53   16 59 10    4326.1       25.40     204.58
    110.00     7 51 31   1284.53      -7.82     338.25       5.40      123.38    8 12 55     684.5       -3.37     331.98
    110.00    17  1 31   4661.87      30.31     191.88      11.02       73.38   18 19 13    4061.9       27.74     183.63
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE  .4532 TRA -.4564 TC3 1.0444 BAU  .1928      SGT 1272.8 SGR  402.3 SG3  229.6         ST   736.2 SR   368.3 SS   772.0
  RDE -.2364 RRA -.0757 RC3  .1539 FAU .04908      RRT -.1595 RRF  .1712 RTF -.8548         CRT -.9203 CRS -.9850 CST  .9716
  FDE -.8411 FRA  .1723 FC3-3.1108 BSP   3976      SGB 1334.9 R23 -.0204 R13  .8553         LSA 1117.2 MSA  158.1 SSA   20.9
  BDE  .5112 BRA  .4626 BC3 1.0557 FSP   -632      SG1 1274.6 SG2  396.6 THA 176.80         EL1  812.8 EL2  130.5 ALF 154.58

LAUNCH DATE  JUN 16 1967                          FLIGHT TIME 100.00                          ARRIVAL DATE  SEP 24 1967

 HELIOCENTRIC CONIC                                DISTANCE 259.512
  RL  151.97 LAL   -.00 LOL 264.19 VL  26.197 GAL  -1.63 AZL  93.18 HCA 111.53 SMA 125.16 ECC .21594 INC 3.1812 V1  29.317
  RP  108.52 LAP  -2.96 LOP  15.75 VP  37.223 GAP  -9.89 AZP  88.83 TAL 185.93 TAP 297.46 RCA  98.14 APO 152.19 V2  34.920
  RC  54.330 GL  -23.80 GP   -2.82 ZAL 104.46 ZAP  16.06 ETS   9.07 ZAE 147.43 ETE  11.81 ZAC  86.35 ETC  13.67 CLP -15.82
 PLANETOCENTRIC CONIC
  C3  12.971 VHL  3.602 DLA -13.64 RAL 151.06 RAD 6567.5 VEL 11.591 PTH   2.03 VHP  6.426 DPA    .49 RAP 180.07 ECC 1.2135
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     5 38 17   1677.92      -3.97       9.84       5.23      118.06    6  6 15    1077.9       -.18        3.20
     90.00    14  2 42   5198.04      26.10     233.12       9.66       78.60   15 29 20    4598.0       24.26     224.93
    100.00     6 52 27   1438.61      -4.94     351.71       4.69      119.52    7 16 26     838.6       -.97      345.17
    100.00    15 31 12   4912.58      27.19     211.86       9.40       77.07   16 53  5    4312.6       25.13     203.66
    110.00     7 44 36   1275.30      -7.47     337.76       3.13      123.45    8  5 51     675.3       -3.02     331.50
    110.00    16 55 33   4648.65      30.05     190.94       8.52       72.88   18 13  2    4048.7       27.41     182.74
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE  .4525 TRA -.4252 TC3 1.1403 BAU  .1993      SGT 1295.1 SGR  394.9 SG3  257.8         ST   749.9 SR   364.9 SS   812.1
  RDE -.2283 RRA -.0709 RC3  .1426 FAU .05395      RRT -.1882 RRF  .2021 RTF -.8623         CRT -.9286 CRS -.9883 CST  .9718
  FDE -.9171 FRA  .1332 FC3-3.6009 BSP   4093      SGB 1354.0 R23 -.0243 R13  .8629         LSA 1153.4 MSA  156.1 SSA   21.0
  BDE  .5068 BRA  .4311 BC3 1.1492 FSP   -720      SG1 1297.5 SG2  387.2 THA 176.39         EL1  824.9 EL2  123.1 ALF 155.09
```

LAUNCH DATE JUN 16 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 26 1967

HELIOCENTRIC CONIC DISTANCE 266.197

RL 151.97 LAL -.00 LOL 264.19 VL 26.307 GAL -1.75 AZL 93.15 HCA 114.72 SMA 125.85 ECC .20967 INC 3.1509 V1 29.317
RP 108.48 LAP -2.86 LOP 18.94 VP 37.312 GAP -9.17 AZP 88.68 TAL 186.63 TAP 301.35 RCA 99.46 APO 152.24 V2 34.932
RC 56.016 GL -24.25 GP -3.09 ZAL 105.83 ZAP 18.62 ETS 8.38 ZAE 147.28 ETE 10.63 ZAC 85.80 ETC 13.69 CLP -18.37

PLANETOCENTRIC CONIC

C3 12.381 VHL 3.519 DLA -13.52 RAL 149.52 RAD 6567.5 VEL 11.566 PTH 2.02 VHP 6.043 DPA -.01 RAP 180.54 ECC 1.2038

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 31 4	1672.15	-3.78	9.51	3.07	118.08	5 58 56	1072.1	.00	2.88
90.00	13 57 35	5183.89	25.90	232.12	7.33	78.14	15 23 59	4583.9	24.01	223.97
100.00	6 45 19	1432.58	-4.74	351.37	2.54	119.55	7 9 11	832.6	-.77	344.84
100.00	15 26 1	4898.69	26.97	210.88	7.07	76.60	16 47 40	4298.7	24.86	202.72
110.00	7 37 38	1268.72	-7.22	337.41	1.01	123.50	7 58 47	668.7	-2.77	331.16
110.00	16 50 12	4635.31	29.78	189.99	6.18	72.38	18 7 27	4035.3	27.08	181.84

DIFFERENTIAL CORRECTIONS
TDE .4490 TRA -.3958 TC3 1.2242 BAU .2037
RDE -.2212 RRA -.0667 RC3 .1266 FAU .05946
FDE-1.0024 FRA .0884 FC3-4.1580 BSP 4164
BDE .5005 BRA .4014 BC3 1.2308 FSP -819

MID-COURSE EXECUTION ACCURACY
SGT 1310.0 SGR 387.6 SG3 289.8
RRT -.2216 RRF .2390 RTF -.8677
SGB 1366.2 R23 -.0301 R13 .8685
SG1 1313.1 SG2 377.0 THA 175.91

ORBIT DETERMINATION ACCURACY
ST 758.1 SR 361.8 SS 853.8
CRT -.9356 CRS -.9909 CST .9716
LSA 1187.5 MSA 155.1 SSA 21.0
EL1 831.9 EL2 116.4 ALF 155.43

LAUNCH DATE JUN 16 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 28 1967

HELIOCENTRIC CONIC DISTANCE 272.869

RL 151.97 LAL -.00 LOL 264.19 VL 26.406 GAL -1.87 AZL 93.12 HCA 117.91 SMA 126.48 ECC .20406 INC 3.1190 V1 29.317
RP 108.45 LAP -2.76 LOP 22.13 VP 37.393 GAP -8.48 AZP 88.54 TAL 187.32 TAP 305.23 RCA 100.67 APO 152.29 V2 34.945
RC 57.772 GL -24.63 GP -3.39 ZAL 107.14 ZAP 21.33 ETS 7.87 ZAE 147.39 ETE 9.47 ZAC 85.41 ETC 13.72 CLP -21.07

PLANETOCENTRIC CONIC

C3 11.874 VHL 3.446 DLA -13.36 RAL 148.06 RAD 6567.5 VEL 11.544 PTH 2.01 VHP 5.680 DPA -.49 RAP 180.86 ECC 1.1954

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 23 48	1669.06	-3.68	9.34	1.07	118.10	5 51 37	1069.1	.10	2.71
90.00	13 53 14	5169.32	25.69	231.11	5.16	77.67	15 19 23	4569.3	23.74	222.98
100.00	6 38 10	1429.13	-4.62	351.18	.55	119.57	7 1 59	829.1	-.65	344.65
100.00	15 21 33	4884.48	26.74	209.89	4.89	76.12	16 42 58	4284.5	24.57	201.76
110.00	7 30 43	1264.53	-7.07	337.19	359.04	123.53	7 51 48	664.5	-2.61	330.94
110.00	16 45 29	4621.84	29.50	189.05	4.00	71.88	18 2 31	4021.8	26.74	180.95

DIFFERENTIAL CORRECTIONS
TDE .4419 TRA -.3694 TC3 1.2938 BAU .2061
RDE -.2150 RRA -.0631 RC3 .1055 FAU .06567
FDE-1.0948 FRA .0401 FC3-4.7880 BSP 4190
BDE .4914 BRA .3748 BC3 1.2981 FSP -930

MID-COURSE EXECUTION ACCURACY
SGT 1316.6 SGR 380.3 SG3 325.7
RRT -.2590 RRF .2814 RTF -.8711
SGB 1370.4 R23 -.0381 R13 .8722
SG1 1320.6 SG2 366.3 THA 175.36

ORBIT DETERMINATION ACCURACY
ST 759.2 SR 358.9 SS 894.8
CRT -.9411 CRS -.9930 CST .9710
LSA 1217.0 MSA 155.2 SSA 20.8
EL1 832.4 EL2 110.7 ALF 155.56

LAUNCH DATE JUN 16 1967 FLIGHT TIME 106.00 ARRIVAL DATE SEP 30 1967

HELIOCENTRIC CONIC DISTANCE 279.525

RL 151.97 LAL -.00 LOL 264.19 VL 26.495 GAL -1.97 AZL 93.09 HCA 121.10 SMA 127.04 ECC .19907 INC 3.0851 V1 29.317
RP 108.41 LAP -2.64 LOP 25.32 VP 37.468 GAP -7.82 AZP 88.41 TAL 187.98 TAP 309.08 RCA 101.75 APO 152.33 V2 34.957
RC 59.590 GL -24.92 GP -3.74 ZAL 108.38 ZAP 24.21 ETS 7.48 ZAE 147.79 ETE 8.31 ZAC 85.18 ETC 13.76 CLP -23.94

PLANETOCENTRIC CONIC

C3 11.438 VHL 3.382 DLA -13.15 RAL 146.71 RAD 6567.4 VEL 11.525 PTH 2.01 VHP 5.338 DPA -.94 RAP 181.01 ECC 1.1882

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 16 37	1668.35	-3.66	9.30	359.22	118.10	5 44 25	1068.4	.13	2.67
90.00	13 49 38	5154.37	25.47	230.07	3.16	77.20	15 15 32	4554.4	23.46	221.98
100.00	6 31 6	1427.99	-4.59	351.12	358.71	119.57	6 54 54	828.0	-.61	344.58
100.00	15 17 49	4869.97	26.50	208.87	2.88	75.64	16 38 59	4270.0	24.27	200.79
110.00	7 23 57	1262.47	-6.99	337.08	357.23	123.55	7 45 0	662.5	-2.53	330.83
110.00	16 41 28	4608.25	29.20	188.10	1.98	71.39	17 58 16	4008.3	26.39	180.05

DIFFERENTIAL CORRECTIONS
TDE .4330 TRA -.3438 TC3 1.3494 BAU .2067
RDE -.2097 RRA -.0602 RC3 .0783 FAU .07273
FDE-1.1998 FRA -.0162 FC3-5.5052 BSP 4192
BDE .4811 BRA .3490 BC3 1.3517 FSP -1056

MID-COURSE EXECUTION ACCURACY
SGT 1315.0 SGR 374.1 SG3 366.5
RRT -.3042 RRF .3325 RTF -.8735
SGB 1367.1 R23 -.0482 R13 .8750
SG1 1320.3 SG2 354.9 THA 174.67

ORBIT DETERMINATION ACCURACY
ST 755.8 SR 356.6 SS 938.8
CRT -.9459 CRS -.9947 CST .9703
LSA 1247.0 MSA 155.6 SSA 20.5
EL1 829.0 EL2 105.5 ALF 155.53

LAUNCH DATE JUN 16 1967 FLIGHT TIME 108.00 ARRIVAL DATE OCT 2 1967

HELIOCENTRIC CONIC DISTANCE 286.164

RL 151.97 LAL -.00 LOL 264.19 VL 26.574 GAL -2.06 AZL 93.05 HCA 124.29 SMA 127.55 ECC .19464 INC 3.0488 V1 29.317
RP 108.37 LAP -2.52 LOP 28.52 VP 37.535 GAP -7.18 AZP 88.28 TAL 188.60 TAP 312.89 RCA 102.73 APO 152.38 V2 34.970
RC 61.464 GL -25.13 GP -4.14 ZAL 109.54 ZAP 27.28 ETS 7.18 ZAE 148.49 ETE 7.11 ZAC 85.14 ETC 13.80 CLP -26.99

PLANETOCENTRIC CONIC

C3 11.059 VHL 3.326 DLA -12.91 RAL 145.47 RAD 6567.4 VEL 11.509 PTH 2.00 VHP 5.015 DPA -1.36 RAP 180.98 ECC 1.1820

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 9 34	1669.75	-3.70	9.38	357.54	118.09	5 37 24	1069.8	.08	2.75
90.00	13 46 48	5139.06	25.24	229.01	1.33	76.72	15 12 27	4539.1	23.16	220.96
100.00	6 24 14	1428.88	-4.62	351.17	357.04	119.57	6 48 3	828.9	-.64	344.63
100.00	15 14 50	4855.17	26.25	207.85	1.05	75.16	16 35 45	4255.2	23.95	199.80
110.00	7 17 25	1262.29	-6.98	337.07	355.58	123.55	7 38 27	662.3	-2.52	330.82
110.00	16 38 8	4594.52	28.90	187.14	.13	70.90	17 54 42	3994.5	26.02	179.14

DIFFERENTIAL CORRECTIONS
TDE .4208 TRA -.3204 TC3 1.3868 BAU .2051
RDE -.2052 RRA -.0579 RC3 .0444 FAU .08074
FDE-1.3150 FRA -.0802 FC3-6.3208 BSP 4167
BDE .4682 BRA .3256 BC3 1.3875 FSP -1202

MID-COURSE EXECUTION ACCURACY
SGT 1302.7 SGR 369.3 SG3 412.8
RRT -.3559 RRF .3920 RTF -.8740
SGB 1354.1 R23 -.0617 R13 .8761
SG1 1309.8 SG2 343.2 THA 173.81

ORBIT DETERMINATION ACCURACY
ST 745.2 SR 354.9 SS 983.5
CRT -.9495 CRS -.9960 CST .9691
LSA 1274.2 MSA 156.8 SSA 20.1
EL1 819.1 EL2 101.3 ALF 155.26

```
LAUNCH DATE  JUN 16 1967                          FLIGHT TIME 110.00                          ARRIVAL DATE  OCT  4 1967

 HELIOCENTRIC CONIC                                DISTANCE 292.785
  RL  151.97 LAL   -.00 LOL 264.19 VL  26.643 GAL  -2.15 AZL  93.01 HCA 127.49 SMA 128.01 ECC .19073 INC 3.0097 V1  29.317
  RP  108.33 LAP  -2.39 LOP  31.71 VP  37.597 GAP  -6.56 AZP  88.17 TAL 189.18 TAP 316.67 RCA 103.60 APO 152.43 V2  34.983
  RC  63.388 GL  -25.26 GP   -4.60 ZAL 110.61 ZAP  30.56 ETS   6.95 ZAE 149.50 ETE   5.81 ZAC  85.32 ETC  13.83 CLP -30.25
 PLANETOCENTRIC CONIC
  C3  10.728 VHL  3.275 DLA -12.63 RAL 144.36 RAD 6567.4 VEL 11.494 PTH   2.00 VHP  4.714 DPA  -1.76 RAP 180.73 ECC 1.1766
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     5  2 46   1673.00      -3.81      9.56      356.03      118.08    5 30 39    1073.0       -.02       2.93
     90.00    13 44 45   5123.38      24.99    227.93      359.67       76.23   15 10  9    4523.4      22.85     219.91
    100.00     6 17 36   1431.56      -4.71    351.32      355.54      119.55    6 41 28     831.6       -.73     344.78
    100.00    15 12 36   4840.06      25.98    206.80      359.38       74.67   16 33 17    4240.1      23.62     198.80
    110.00     7 11 11   1263.77      -7.04    337.15      354.10      123.54    7 32 14     663.8      -2.58     330.90
    110.00    16 35 31   4580.61      28.59    186.18      358.46       70.41   17 51 52    3980.6      25.65     178.23
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
  TDE  .4062 TRA -.2990 TC3 1.4050 BAU  .2015      SGT 1280.4 SGR  367.2 SG3  465.0          ST   729.0 SR   354.4 SS  1030.2
  RDE -.2018 RRA -.0563 RC3  .0026 FAU .08978      RRT -.4153 RRF  .4607 RTF -.8731          CRT -.9522 CRS -.9970 CST  .9677
  FDE-1.4430 FRA -.1507 FC3-7.2451 BSP   4131      SGB 1332.0 R23 -.0791 R13  .8762          LSA 1301.2 MSA  158.0 SSA   19.5
  BDE  .4536 BRA  .3042 BC3 1.4050 FSP  -1370      SG1 1290.1 SG2  331.5 THA 172.72          EL1  804.6 EL2   98.0 ALF 154.76

LAUNCH DATE  JUN 16 1967                          FLIGHT TIME 112.00                          ARRIVAL DATE  OCT  6 1967

 HELIOCENTRIC CONIC                                DISTANCE 299.387
  RL  151.97 LAL   -.00 LOL 264.19 VL  26.705 GAL  -2.22 AZL  92.97 HCA 130.69 SMA 128.42 ECC .18730 INC 2.9670 V1  29.317
  RP  108.29 LAP  -2.25 LOP  34.91 VP  37.653 GAP  -5.96 AZP  88.06 TAL 189.70 TAP 320.39 RCA 104.36 APO 152.47 V2  34.996
  RC  65.357 GL  -25.31 GP   -5.13 ZAL 111.59 ZAP  34.07 ETS   6.77 ZAE 150.83 ETE   4.34 ZAC  85.73 ETC  13.86 CLP -33.73
 PLANETOCENTRIC CONIC
  C3  10.436 VHL  3.230 DLA -12.32 RAL 143.39 RAD 6567.4 VEL 11.481 PTH   2.00 VHP  4.433 DPA  -2.13 RAP 180.25 ECC 1.1717
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     4 56 15   1677.88      -3.96      9.84      354.69      118.06    5 24 13    1077.9       -.18       3.20
     90.00    13 43 30   5107.27      24.72    226.82      358.18       75.74   15  8 38    4507.3      22.52     218.85
    100.00     6 11 17   1435.81      -4.85    351.55      354.20      119.53    6 35 13     835.8       -.88     345.01
    100.00    15 11 10   4824.58      25.70    205.74      357.89       74.18   16 31 34    4224.6      23.28     197.78
    110.00     7  5 17   1266.70      -7.15    337.30      352.79      123.52    7 26 23     666.7      -2.69     331.05
    110.00    16 33 39   4566.45      28.26    185.21      356.96       69.92   17 49 46    3966.5      25.27     177.32
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
  TDE  .3862 TRA -.2817 TC3 1.3910 BAU  .1942      SGT 1240.3 SGR  369.0 SG3  523.0          ST   702.4 SR   355.0 SS  1076.4
  RDE -.1994 RRA -.0553 RC3 -.0481 FAU .09980      RRT -.4781 RRF  .5368 RTF -.8679          CRT -.9531 CRS -.9977 CST  .9651
  FDE-1.5804 FRA -.2273 FC3-8.2789 BSP   4014      SGB 1294.0 R23 -.1048 R13  .8727          LSA 1323.7 MSA  160.1 SSA   18.9
  BDE  .4346 BRA  .2871 BC3 1.3918 FSP  -1555      SG1 1253.7 SG2  320.6 THA 171.33          EL1  781.1 EL2   96.6 ALF 153.85

LAUNCH DATE  JUN 16 1967                          FLIGHT TIME 114.00                          ARRIVAL DATE  OCT  8 1967

 HELIOCENTRIC CONIC                                DISTANCE 305.969
  RL  151.97 LAL   -.00 LOL 264.19 VL  26.758 GAL  -2.28 AZL  92.92 HCA 133.89 SMA 128.77 ECC .18432 INC 2.9200 V1  29.317
  RP  108.25 LAP  -2.10 LOP  38.11 VP  37.703 GAP  -5.38 AZP  87.97 TAL 190.17 TAP 324.06 RCA 105.04 APO 152.51 V2  35.009
  RC  67.365 GL  -25.28 GP   -5.75 ZAL 112.46 ZAP  37.84 ETS   6.62 ZAE 152.48 ETE   2.60 ZAC  86.39 ETC  13.87 CLP -37.46
 PLANETOCENTRIC CONIC
  C3  10.173 VHL  3.189 DLA -11.98 RAL 142.56 RAD 6567.4 VEL 11.470 PTH   1.99 VHP  4.174 DPA  -2.47 RAP 179.52 ECC 1.1674
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     4 50  3   1684.27      -4.17     10.19      353.52      118.03    5 18  8    1084.3       -.39       3.56
     90.00    13 43  4   5090.63      24.44    225.69      356.87       75.23   15  7 55    4490.6      22.17     217.75
    100.00     6  5 18   1441.52      -5.04    351.87      353.04      119.50    6 29 19     841.5      -1.07     345.33
    100.00    15 10 31   4808.61      25.40    204.65      356.57       73.68   16 30 40    4208.6      22.91     196.73
    110.00     6 59 45   1270.96      -7.31    337.53      351.65      123.49    7 20 56     671.0      -2.85     331.27
    110.00    16 32 33   4551.92      27.92    184.22      355.63       69.42   17 48 25    3951.9      24.86     176.38
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
  TDE  .3613 TRA -.2690 TC3 1.3443 BAU  .1834      SGT 1183.4 SGR  376.4 SG3  586.5          ST   666.2 SR   357.1 SS  1121.5
  RDE -.1981 RRA -.0549 RC3 -.1091 FAU .11077      RRT -.5406 RRF  .6177 RTF -.8578          CRT -.9520 CRS -.9982 CST  .9613
  FDE-1.7256 FRA -.3053 FC3-9.4269 BSP   3836      SGB 1241.9 R23 -.1417 R13  .8656          LSA 1342.5 MSA  162.5 SSA   18.2
  BDE  .4120 BRA  .2745 BC3 1.3488 FSP  -1758      SG1 1202.1 SG2  311.7 THA 169.53          EL1  749.6 EL2   97.1 ALF 152.46

LAUNCH DATE  JUN 16 1967                          FLIGHT TIME 116.00                          ARRIVAL DATE  OCT 10 1967

 HELIOCENTRIC CONIC                                DISTANCE 312.531
  RL  151.97 LAL   -.00 LOL 264.19 VL  26.804 GAL  -2.32 AZL  92.87 HCA 137.09 SMA 129.08 ECC .18174 INC 2.8675 V1  29.317
  RP  108.20 LAP  -1.95 LOP  41.31 VP  37.748 GAP  -4.82 AZP  87.90 TAL 190.57 TAP 327.66 RCA 105.62 APO 152.54 V2  35.023
  RC  69.409 GL  -25.16 GP   -6.47 ZAL 113.22 ZAP  41.87 ETS   6.48 ZAE 154.46 ETE    .43 ZAC  87.34 ETC  13.86 CLP -41.46
 PLANETOCENTRIC CONIC
  C3   9.932 VHL  3.152 DLA -11.60 RAL 141.88 RAD 6567.4 VEL 11.460 PTH   1.99 VHP  3.938 DPA  -2.81 RAP 178.50 ECC 1.1635
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     4 44 11   1692.11      -4.42     10.63      352.52      118.00    5 12 23    1092.1       -.64       3.99
     90.00    13 43 30   5073.23      24.13    224.50      355.72       74.72   15  8  3    4473.2      21.80     216.61
    100.00     5 59 39   1448.63      -5.28    352.26      352.05      119.47    6 23 48     848.6      -1.31     345.72
    100.00    15 10 43   4791.95      25.07    203.52      355.42       73.17   16 30 35    4191.9      22.53     195.64
    110.00     6 54 37   1276.51      -7.52    337.82      350.67      123.45    7 15 53     676.5      -3.07     331.56
    110.00    16 32 15   4536.83      27.55    183.20      354.47       68.92   17 47 52    3936.8      24.44     175.41
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
  TDE  .3329 TRA -.2584 TC3 1.2673 BAU  .1700      SGT 1111.0 SGR  392.1 SG3  656.9          ST   622.5 SR   361.6 SS  1167.7
  RDE -.1982 RRA -.0555 RC3 -.1835 FAU .12288      RRT -.5991 RRF  .7002 RTF -.8422          CRT -.9492 CRS -.9985 CST  .9561
  FDE-1.8809 FRA -.3914 FC-10.7108 BSP   3637      SGB 1178.2 R23 -.1920 R13  .8557          LSA 1361.7 MSA  164.8 SSA   17.4
  BDE  .3874 BRA  .2643 BC3 1.2805 FSP  -1992      SG1 1137.6 SG2  306.6 THA 167.11          EL1  713.0 EL2   99.4 ALF 150.50
```

LAUNCH DATE JUN 16 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 12 1967

HELIOCENTRIC CONIC DISTANCE 319.073

RL	151.97	LAL	-.00	LOL	264.19	VL	26.844	GAL	-2.36	AZL	92.81	HCA	140.30	SMA	129.35	ECC	.17952	INC	2.8083	V1	29.317
RP	108.16	LAP	-1.79	LOP	44.52	VP	37.788	GAP	-4.27	AZP	87.84	TAL	190.91	TAP	331.20	RCA	106.13	APO	152.57	V2	35.036
RC	71.485	GL	-24.95	GP	-7.31	ZAL	113.88	ZAP	46.18	ETS	6.34	ZAE	156.75	ETE	357.58	ZAC	88.58	ETC	13.81	CLP	-45.73

PLANETOCENTRIC CONIC

C3	9.707	VHL	3.116	DLA	-11.19	RAL	141.35	RAD	6567.4	VEL	11.450	PTH	1.99	VHP	3.724	DPA	-3.14	RAP	177.19	ECC	1.1598

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 38 37	1701.48	-4.72	11.16	351.69	117.95	5 6 59	1101.5	-.94	4.51
90.00	13 44 51	5054.78	23.80	223.26	354.73	74.18	15 9 6	4454.8	21.40	215.41
100.00	5 54 20	1457.19	-5.56	352.73	351.23	119.42	6 18 37	857.2	-1.60	346.19
100.00	15 11 49	4774.30	24.72	202.33	354.43	72.63	16 31 23	4174.3	22.11	194.50
110.00	6 49 50	1283.37	-7.77	338.19	349.87	123.39	7 11 14	683.4	-3.33	331.92
110.00	16 32 48	4520.88	27.16	182.12	353.47	68.40	17 48 9	3920.9	23.98	174.40

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.2982	TRA	-.2539	TC3	1.1441	BAU	.1526	SGT	1017.6	SGR	418.1	SG3	731.3	ST	567.1	SR	368.4	SS	1209.9
RDE	-.1996	RRA	-.0565	RC3	-.2728	FAU	.13568	RRT	-.6394	RRF	.7769	RTF	-.8134	CRT	-.9422	CRS	-.9988	CST	.9473
FDE	-2.0358	FRA	-.4724	FC	-12.1001	BSP	3342	SGB	1100.1	R23	-.2638	R13	.8388	LSA	1375.8	MSA	167.5	SSA	16.6
BDE	.3588	BRA	.2601	BC3	1.1761	FSP	-2234	SG1	1055.6	SG2	309.9	THA	163.85	EL1	668.1	EL2	104.8	ALF	147.63

LAUNCH DATE JUN 16 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 14 1967

HELIOCENTRIC CONIC DISTANCE 325.593

RL	151.97	LAL	-.00	LOL	264.19	VL	26.877	GAL	-2.39	AZL	92.74	HCA	143.50	SMA	129.57	ECC	.17764	INC	2.7405	V1	29.317
RP	108.12	LAP	-1.63	LOP	47.72	VP	37.824	GAP	-3.75	AZP	87.80	TAL	191.17	TAP	334.67	RCA	106.55	APO	152.59	V2	35.049
RC	73.590	GL	-24.63	GP	-8.29	ZAL	114.44	ZAP	50.78	ETS	6.18	ZAE	159.32	ETE	353.62	ZAC	90.12	ETC	13.71	CLP	-50.29

PLANETOCENTRIC CONIC

C3	9.491	VHL	3.081	DLA	-10.72	RAL	140.98	RAD	6567.3	VEL	11.440	PTH	1.98	VHP	3.536	DPA	-3.48	RAP	175.57	ECC	1.1562

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 33 18	1712.59	-5.07	11.78	351.03	117.90	5 1 50	1112.6	-1.30	5.13
90.00	13 47 14	5034.82	23.42	221.92	353.91	73.61	15 11 9	4434.8	20.95	214.11
100.00	5 49 17	1467.42	-5.91	353.30	350.57	119.36	6 13 44	867.4	-1.95	346.75
100.00	15 13 55	4755.22	24.33	201.05	353.60	72.07	16 33 11	4155.2	21.65	193.27
110.00	6 45 23	1291.72	-8.08	338.63	349.24	123.33	7 6 55	691.7	-3.64	332.36
110.00	16 34 18	4503.69	26.72	180.98	352.63	67.84	17 49 22	3903.7	23.48	173.32

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.2580	TRA	-.2538	TC3	.9745	BAU	.1327	SGT	906.4	SGR	457.1	SG3	808.7	ST	501.4	SR	378.2	SS	1246.7
RDE	-.2025	RRA	-.0581	RC3	-.3806	FAU	.14891	RRT	-.6485	RRF	.8429	RTF	-.7633	CRT	-.9289	CRS	-.9990	CST	.9328
FDE	-2.1840	FRA	-.5478	FC	-13.5829	BSP	2996	SGB	1015.1	R23	-.3559	R13	.8154	LSA	1385.5	MSA	170.2	SSA	15.7
BDE	.3280	BRA	.2604	BC3	1.0462	FSP	-2487	SG1	960.6	SG2	328.3	THA	159.37	EL1	617.6	EL2	113.7	ALF	143.55

LAUNCH DATE JUN 16 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 16 1967

HELIOCENTRIC CONIC DISTANCE 332.093

RL	151.97	LAL	-.00	LOL	264.19	VL	26.904	GAL	-2.40	AZL	92.66	HCA	146.71	SMA	129.76	ECC	.17607	INC	2.6615	V1	29.317
RP	108.08	LAP	-1.46	LOP	50.93	VP	37.855	GAP	-3.23	AZP	87.77	TAL	191.36	TAP	338.07	RCA	106.91	APO	152.60	V2	35.062
RC	75.721	GL	-24.19	GP	-9.44	ZAL	114.89	ZAP	55.67	ETS	5.97	ZAE	162.07	ETE	347.82	ZAC	91.96	ETC	13.54	CLP	-55.13

PLANETOCENTRIC CONIC

C3	9.278	VHL	3.046	DLA	-10.18	RAL	140.78	RAD	6567.3	VEL	11.431	PTH	1.98	VHP	3.373	DPA	-3.88	RAP	173.62	ECC	1.1527

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 28 6	1725.88	-5.50	12.53	350.53	117.82	4 56 52	1125.9	-1.73	5.88
90.00	13 50 48	5012.66	22.98	220.44	353.23	72.99	15 14 21	4412.7	20.44	212.69
100.00	5 44 24	1479.73	-6.32	353.98	350.08	119.28	6 9 3	879.7	-2.37	347.42
100.00	15 17 11	4734.04	23.87	199.63	352.92	71.46	16 36 5	4134.0	21.12	191.92
110.00	6 41 11	1301.89	-8.46	339.18	348.77	123.24	7 2 53	701.9	-4.03	332.89
110.00	16 36 53	4484.64	26.23	179.72	351.94	67.25	17 51 38	3884.6	22.91	172.13

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.2136	TRA	-.2571	TC3	.7580	BAU	.1135	SGT	784.9	SGR	512.4	SG3	887.8	ST	428.2	SR	391.4	SS	1277.6
RDE	-.2072	RRA	-.0604	RC3	-.5121	FAU	.16235	RRT	-.6064	RRF	.8955	RTF	-.6740	CRT	-.9047	CRS	-.9992	CST	.9077
FDE	-2.3186	FRA	-.6154	FC	-15.1493	BSP	2652	SGB	937.4	R23	-.4528	R13	.7899	LSA	1392.4	MSA	172.6	SSA	14.8
BDE	.2976	BRA	.2641	BC3	.9147	FSP	-2751	SG1	860.6	SG2	371.6	THA	152.97	EL1	566.2	EL2	126.1	ALF	137.84

LAUNCH DATE JUN 16 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 18 1967

HELIOCENTRIC CONIC DISTANCE 338.571

RL	151.97	LAL	-.00	LOL	264.19	VL	26.926	GAL	-2.40	AZL	92.57	HCA	149.93	SMA	129.91	ECC	.17478	INC	2.5677	V1	29.317
RP	108.04	LAP	-1.29	LOP	54.14	VP	37.883	GAP	-2.74	AZP	87.78	TAL	191.47	TAP	341.40	RCA	107.20	APO	152.61	V2	35.075
RC	77.874	GL	-23.60	GP	-10.80	ZAL	115.25	ZAP	60.82	ETS	5.67	ZAE	164.80	ETE	338.86	ZAC	94.10	ETC	13.27	CLP	-60.24

PLANETOCENTRIC CONIC

C3	9.061	VHL	3.010	DLA	-9.55	RAL	140.75	RAD	6567.3	VEL	11.422	PTH	1.98	VHP	3.237	DPA	-4.36	RAP	171.36	ECC	1.1491

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 22 52	1742.09	-6.01	13.45	350.20	117.72	4 51 54	1142.1	-2.25	6.78
90.00	13 55 49	4987.28	22.47	218.75	352.70	72.30	15 18 56	4387.3	19.84	211.07
100.00	5 39 31	1494.79	-6.82	354.82	349.76	119.17	6 4 26	894.8	-2.88	348.25
100.00	15 21 51	4709.81	23.34	198.03	352.38	70.77	16 40 21	4109.8	20.50	190.38
110.00	6 37 6	1314.50	-8.93	339.85	348.47	123.13	6 59 1	714.5	-4.51	333.55
110.00	16 40 46	4462.87	25.65	178.29	351.39	66.58	17 55 9	3862.9	22.25	170.78

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.1632	TRA	-.2656	TC3	.4807	BAU	.0999	SGT	665.6	SGR	584.9	SG3	961.8	ST	346.7	SR	407.4	SS	1292.8
RDE	-.2131	RRA	-.0626	RC3	-.6705	FAU	.17488	RRT	-.4645	RRF	.9336	RTF	-.4978	CRT	-.8532	CRS	-.9993	CST	.8560
FDE	-2.4150	FRA	-.6572	FC	-16.7089	BSP	2332	SGB	886.1	R23	-.5183	R13	.7798	LSA	1388.0	MSA	175.1	SSA	14.0
BDE	.2684	BRA	.2729	BC3	.8251	FSP	-2996	SG1	761.8	SG2	452.6	THA	142.80	EL1	515.5	EL2	142.9	ALF	129.62

LAUNCH DATE JUN 16 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 20 1967

HELIOCENTRIC CONIC DISTANCE 345.029

RL	151.97	LAL	-.00	LOL	264.19	VL	26.943	GAL	-2.39	AZL	92.45	HCA	153.14	SMA	130.02	ECC	.17374	INC	2.4537	VI	29.317
RP	108.00	LAP	-1.11	LOP	57.35	VP	37.907	GAP	-2.26	AZP	87.81	TAL	191.51	TAP	344.65	RCA	107.43	APO	152.61	V2	35.088
RC	80.046	GL	-22.81	GP	-12.43	ZAL	115.51	ZAP	66.19	ETS	5.26	ZAE	167.11	ETE	324.74	ZAC	96.51	ETC	12.87	CLP	-65.59

PLANETOCENTRIC CONIC

C3	8.833	VHL	2.972	DLA	-8.77	RAL	140.91	RAD	6567.3	VEL	11.412	PTH	1.98	VHP	3.131	DPA	-5.01	RAP	168.78	ECC	1.1454

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 17 20	1762.45	-6.65	14.60	350.05	117.59	4 46 42	1162.5	-2.91	7.92
90.00	14 2 40	4957.14	21.83	216.77	352.31	71.50	15 25 17	4357.1	19.10	209.16
100.00	5 34 25	1513.80	-7.45	355.88	349.62	119.03	5 59 38	913.8	-3.52	349.30
100.00	15 28 17	4681.03	22.68	196.15	351.99	69.99	16 46 18	4081.0	19.75	188.58
110.00	6 32 56	1330.55	-9.53	340.71	348.35	122.98	6 55 6	730.6	-5.12	334.40
110.00	16 46 15	4437.04	24.94	176.62	350.99	65.82	18 0 12	3837.0	21.46	169.20

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.1100	TRA	-.2767	TC3	.1454	BAU	.1035	SGT	586.4	SGR	678.3	SG3	1027.8	ST	266.8	SR	426.5	SS	1291.4
RDE	-.2202	RRA	-.0647	RC3	-.8642	FAU	.18588	RRT	-.1667	RRF	.9597	RTF	-.1770	CRT	-.7376	CRS	-.9995	CST	.7409
FDE	-2.4623	FRA	-.6723	FC	-18.2180	BSP	2211	SGB	896.6	R23	-.3110	R13	.9081	LSA	1374.5	MSA	177.4	SSA	13.1
BDE	.2462	BRA	.2842	BC3	.8763	FSP	-3214	SG1	700.1	SG2	560.1	THA	114.38	EL1	476.6	EL2	161.3	ALF	118.30

LAUNCH DATE JUN 16 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 22 1967

HELIOCENTRIC CONIC DISTANCE 351.465

RL	151.97	LAL	-.00	LOL	264.19	VL	26.955	GAL	-2.37	AZL	92.31	HCA	156.36	SMA	130.10	ECC	.17293	INC	2.3110	VI	29.317
RP	107.96	LAP	-.93	LOP	60.56	VP	37.927	GAP	-1.79	AZP	87.88	TAL	191.47	TAP	347.83	RCA	107.61	APO	152.60	V2	35.101
RC	82.236	GL	-21.75	GP	-14.39	ZAL	115.70	ZAP	71.73	ETS	4.68	ZAE	168.22	ETE	304.27	ZAC	99.14	ETC	12.27	CLP	-71.12

PLANETOCENTRIC CONIC

C3	8.587	VHL	2.930	DLA	-7.77	RAL	141.29	RAD	6567.3	VEL	11.401	PTH	1.97	VHP	3.056	DPA	-5.92	RAP	165.92	ECC	1.1413

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 11 3	1789.04	-7.49	16.10	350.09	117.39	4 40 52	1189.0	-3.76	9.41
90.00	14 11 59	4919.80	21.01	214.35	352.06	70.56	15 33 59	4319.8	18.16	206.83
100.00	5 28 39	1538.70	-8.27	357.28	349.67	118.83	5 54 17	938.7	-4.36	350.67
100.00	15 37 4	4645.37	21.83	193.84	351.74	69.06	16 54 30	4045.4	18.79	186.36
110.00	6 28 21	1351.78	-10.32	341.85	348.43	122.77	6 50 52	751.8	-5.92	335.52
110.00	16 53 52	4405.06	24.03	174.58	350.72	64.92	18 7 17	3805.1	20.45	167.27

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.0569	TRA	-.2885	TC3	-.2462	BAU	.1300	SGT	597.7	SGR	797.3	SG3	1081.9	ST	203.9	SR	448.2	SS	1268.3
RDE	-.2281	RRA	-.0662	RC3	-1.1053	FAU	.19469	RRT	.2479	RRF	.9767	RTF	.2491	CRT	-.4693	CRS	-.9996	CST	.4737
FDE	-2.4423	FRA	-.6551	FC	-19.6276	BSP	2462	SGB	996.4	R23	.2296	R13	.9493	LSA	1348.6	MSA	179.2	SSA	12.2
BDE	.2351	BRA	.2960	BC3	1.1324	FSP	-3407	SG1	824.0	SG2	560.2	THA	69.84	EL1	460.1	EL2	175.4	ALF	104.15

LAUNCH DATE JUN 16 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 24 1967

HELIOCENTRIC CONIC DISTANCE 357.880

RL	151.97	LAL	-.00	LOL	264.19	VL	26.962	GAL	-2.34	AZL	92.13	HCA	159.58	SMA	130.16	ECC	.17234	INC	2.1261	VI	29.317
RP	107.92	LAP	-.74	LOP	63.78	VP	37.944	GAP	-1.33	AZP	88.01	TAL	191.36	TAP	350.94	RCA	107.73	APO	152.59	V2	35.113
RC	84.440	GL	-20.28	GP	-16.83	ZAL	115.82	ZAP	77.35	ETS	3.86	ZAE	167.26	ETE	281.58	ZAC	101.94	ETC	11.41	CLP	-76.78

PLANETOCENTRIC CONIC

C3	8.313	VHL	2.883	DLA	-6.44	RAL	141.93	RAD	6567.3	VEL	11.389	PTH	1.97	VHP	3.017	DPA	-7.24	RAP	162.78	ECC	1.1368

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 3 17	1825.37	-8.62	18.17	350.37	117.08	4 33 43	1225.4	-4.92	11.45
90.00	14 24 51	4871.23	19.87	211.24	351.97	69.40	15 46 2	4271.2	16.89	203.83
100.00	5 21 34	1572.85	-9.38	359.20	349.96	118.51	5 47 47	972.8	-5.50	352.56
100.00	15 49 15	4598.99	20.67	190.88	351.64	67.92	17 5 54	3999.0	17.50	183.53
110.00	6 22 48	1381.13	-11.39	343.45	348.76	122.45	6 45 49	781.1	-7.03	337.07
110.00	17 4 31	4363.47	22.80	171.97	350.61	63.82	18 17 14	3763.5	19.10	164.80

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.0063	TRA	-.2999	TC3	-.7055	BAU	.1747	SGT	724.8	SGR	943.4	SG3	1112.1	ST	180.8	SR	467.6	SS	1204.8
RDE	-.2342	RRA	-.0651	RC3	-1.4051	FAU	.19928	RRT	.5878	RRF	.9871	RTF	.5906	CRT	.0173	CRS	-.9996	CST	-.0113
FDE	-2.3120	FRA	-.5831	FC	-20.7532	BSP	3078	SGB	1189.7	R23	.2801	R13	.9466	LSA	1292.3	MSA	180.8	SSA	11.4
BDE	.2343	BRA	.3069	BC3	1.5723	FSP	-3508	SG1	1071.9	SG2	516.1	THA	57.20	EL1	467.6	EL2	180.7	ALF	89.55

LAUNCH DATE JUN 16 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 26 1967

HELIOCENTRIC CONIC DISTANCE 364.274

RL	151.97	LAL	-.00	LOL	264.19	VL	26.966	GAL	-2.30	AZL	91.88	HCA	162.80	SMA	130.18	ECC	.17194	INC	1.8753	VI	29.317
RP	107.89	LAP	-.55	LOP	67.00	VP	37.958	GAP	-.88	AZP	88.21	TAL	191.17	TAP	353.97	RCA	107.80	APO	152.57	V2	35.125
RC	86.655	GL	-18.17	GP	-19.96	ZAL	115.90	ZAP	82.94	ETS	2.70	ZAE	164.04	ETE	264.12	ZAC	104.85	ETC	10.15	CLP	-82.49

PLANETOCENTRIC CONIC

C3	7.999	VHL	2.828	DLA	-4.54	RAL	142.91	RAD	6567.3	VEL	11.375	PTH	1.96	VHP	3.021	DPA	-9.20	RAP	159.36	ECC	1.1316

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 52 46	1878.03	-10.24	21.20	350.97	116.55	4 24 4	1278.0	-6.59	14.41
90.00	14 43 11	4804.25	18.21	207.02	352.08	67.94	16 3 15	4204.3	15.06	199.76
100.00	5 11 58	1622.51	-10.98	2.02	350.58	117.98	5 39 1	1022.5	-7.16	355.32
100.00	16 6 40	4535.01	18.99	186.88	351.73	66.47	17 22 15	3935.0	15.64	179.68
110.00	6 15 20	1424.16	-12.95	345.80	349.42	121.91	6 39 4	824.2	-8.64	339.36
110.00	17 19 48	4306.12	21.04	168.46	350.69	62.41	18 31 34	3706.1	17.18	161.46

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.0343	TRA	-.3066	TC3	-1.2302	BAU	.2331	SGT	936.6	SGR	1131.4	SG3	1117.7	ST	200.5	SR	481.2	SS	1095.4
RDE	-.2363	RRA	-.0609	RC3	-1.7990	FAU	.19942	RRT	.7724	RRF	.9933	RTF	.7739	CRT	.4230	CRS	-.9997	CST	-.4164
FDE	-2.0591	FRA	-.4670	FC	-21.5827	BSP	4026	SGB	1468.7	R23	.2528	R13	.9607	LSA	1199.3	MSA	181.7	SSA	10.8
BDE	.2388	BRA	.3126	BC3	2.1794	FSP	-3544	SG1	1386.2	SG2	485.6	THA	51.91	EL1	489.8	EL2	178.5	ALF	78.45

LAUNCH DATE JUN 16 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 28 1967

DISTANCE 370.647

HELIOCENTRIC CONIC

```
RL  151.97 LAL   -.00 LOL 264.19 VL  26.966 GAL  -2.24 AZL  91.51 HCA 166.02 SMA 130.18 ECC .17172 INC 1.5129 V1  29.317
RP  107.85 LAP   -.37 LOP  70.21 VP  37.969 GAP   -.45 AZP  88.53 TAL 190.92 TAP 356.94 RCA 107.83 APO 152.54 V2  35.137
RC  88.880 GL  -14.92 GP -24.19 ZAL 115.96 ZAP  88.33 ETS   1.02 ZAE 158.87 ETE 253.81 ZAC 107.76 ETC   8.26 CLP -88.17
```

PLANETOCENTRIC CONIC

```
C3   7.635 VHL  2.763 DLA  -1.62 RAL 144.39 RAD 6567.2 VEL 11.359 PTH   1.96 VHP  3.082 DPA -12.23 RAP 155.56 ECC 1.1257
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 36 52	1960.41	-12.70	25.99	352.13	115.52	4 9 32	1360.4	-9.16	19.10
90.00	15 10 54	4704.79	15.56	200.92	352.51	66.04	16 29 19	4104.8	12.20	193.87
100.00	4 57 27	1700.45	-13.43	6.51	351.76	116.96	5 25 48	1100.4	-9.71	359.69
100.00	16 33 0	4439.98	16.30	181.10	352.16	64.59	17 47 0	3840.0	12.75	174.11
110.00	6 3 58	1492.23	-15.37	349.60	350.65	120.92	6 28 50	892.2	-11.16	343.02
110.00	17 42 58	4220.96	18.27	163.40	351.09	60.59	18 53 19	3621.0	14.21	156.64

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE -.0543 TRA -.3039 TC3-1.8336 BAU  .3020   SGT 1198.7 SGR 1368.6 SG3 1079.2      ST   222.3 SR   467.6 SS   898.2
 RDE -.2243 RRA -.0470 RC3-2.3225 FAU .19182   RRT  .8621 RRF  .9968 RTF  .8623      CRT  .5688 CRS -.9996 CST -.5606
 FDE-1.6151 FRA -.2707 FC-21.7508 BSP  5208    SGB 1819.4 R23  .2187 R13  .9725      LSA 1020.5 MSA  182.4 SSA   10.7
 BDE  .2308 BRA  .3076 BC3 2.9591 FSP -3426    SG1 1756.8 SG2  473.2 THA  49.38      EL1  487.1 EL2  175.5 ALF  72.53
```

LAUNCH DATE JUN 16 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 30 1967

DISTANCE 376.999

HELIOCENTRIC CONIC

```
RL  151.97 LAL   -.00 LOL 264.19 VL  26.963 GAL  -2.17 AZL  90.94 HCA 169.25 SMA 130.16 ECC .17167 INC  .9363 V1  29.317
RP  107.82 LAP   -.17 LOP  73.44 VP  37.977 GAP   -.02 AZP  89.08 TAL 190.59 TAP 359.83 RCA 107.82 APO 152.50 V2  35.149
RC  91.113 GL   -9.44 GP -30.29 ZAL 115.98 ZAP  93.27 ETS 358.54 ZAE 151.66 ETE 248.88 ZAC 110.56 ETC   5.32 CLP -93.78
```

PLANETOCENTRIC CONIC

```
C3   7.231 VHL  2.689 DLA   3.35 RAL 146.76 RAD 6567.2 VEL 11.341 PTH   1.95 VHP  3.243 DPA -17.05 RAP 151.12 ECC 1.1190
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 9 24	2104.87	-16.76	34.65	354.51	113.16	3 44 29	1504.9	-13.49	27.51
90.00	15 57 15	4540.75	10.81	191.23	353.75	63.67	17 12 56	3940.8	7.18	184.43
100.00	4 32 19	1837.45	-17.50	14.65	354.17	114.63	5 2 56	1237.4	-14.03	7.57
100.00	17 17 2	4283.41	11.52	171.93	353.38	62.23	18 28 25	3683.4	7.71	165.21
110.00	5 44 9	1612.60	-19.45	356.54	353.13	118.68	6 11 2	1012.6	-15.47	349.68
110.00	18 21 41	4081.02	13.41	155.46	352.27	58.26	19 29 42	3481.0	9.12	149.00

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE -.0289 TRA -.2804 TC3-2.5155 BAU  .3832   SGT 1480.6 SGR 1691.0 SG3  986.0      ST   194.1 SR   381.2 SS   569.4
 RDE -.1773 RRA -.0156 RC3-3.0641 FAU .17447   RRT  .9077 RRF  .9986 RTF  .9076      CRT  .3655 CRS -.9991 CST -.3501
 FDE -.9406 FRA -.0100 FC-20.8888 BSP  6640    SGB 2247.6 R23  .1821 R13  .9819      LSA  688.8 MSA  180.5 SSA   12.6
 BDE  .1797 BRA  .2808 BC3 3.9644 FSP -3135    SG1 2196.0 SG2  478.4 THA  49.18      EL1  389.5 EL2  176.8 ALF  76.67
```

LAUNCH DATE JUN 16 1967 FLIGHT TIME 138.00 ARRIVAL DATE NOV 1 1967

DISTANCE 383.328

HELIOCENTRIC CONIC

```
RL  151.97 LAL   -.00 LOL 264.19 VL  26.956 GAL  -2.09 AZL  89.88 HCA 172.47 SMA 130.12 ECC .17177 INC  .0760 V1  29.317
RP  107.78 LAP    .02 LOP  76.66 VP  37.983 GAP    .39 AZP  90.12 TAL 190.19 TAP   2.66 RCA 107.76 APO 152.47 V2  35.160
RC  93.352 GL    1.25 GP -39.88 ZAL 115.62 ZAP  97.14 ETS 354.65 ZAE 141.28 ETE 247.56 ZAC 112.84 ETC    .41 CLP -99.33
```

PLANETOCENTRIC CONIC

```
C3   6.961 VHL  2.638 DLA  13.15 RAL 151.16 RAD 6567.2 VEL 11.329 PTH   1.95 VHP  3.633 DPA -25.15 RAP 145.25 ECC 1.1146
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 9 22	2415.02	-23.87	54.59	.69	105.70	2 49 37	1815.0	-21.49	46.73
90.00	17 32 24	4217.13	.59	172.94	357.95	61.69	18 42 41	3617.1	-3.20	166.30
100.00	3 37 33	2130.62	-24.73	33.40	.42	107.36	4 13 4	1530.6	-22.12	25.57
100.00	18 46 54	3976.77	1.37	154.83	357.52	60.14	19 53 10	3376.8	-2.62	148.31
110.00	5 1 12	1868.91	-26.96	12.64	359.53	111.86	5 32 21	1268.9	-23.75	4.94
110.00	19 39 44	3811.24	3.38	141.02	356.27	55.96	20 43 16	3211.2	-1.11	134.81

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE  .1058 TRA -.2099 TC3-3.2049 BAU  .4788   SGT 1769.7 SGR 2129.9 SG3  796.2      ST   274.1 SR    87.8 SS   115.7
 RDE -.0182 RRA  .0683 RC3-4.0254 FAU .13995   RRT  .9317 RRF  .9995 RTF  .9320      CRT -.5096 CRS -.7475 CST -.0372
 FDE  .0431 FRA  .3379 FC-17.4055 BSP  8306    SGB 2769.2 R23  .1475 R13  .9886      LSA  278.0 MSA  134.5 SSA   29.0
 BDE  .1074 BRA  .2208 BC3 5.1454 FSP -2515    SG1 2723.1 SG2  502.9 THA  50.65      EL1  278.0 EL2   74.5 ALF 170.00
```

LAUNCH DATE JUN 16 1967 FLIGHT TIME 140.00 ARRIVAL DATE NOV 3 1967

DISTANCE 389.630

HELIOCENTRIC CONIC

```
RL  151.97 LAL   -.00 LOL 264.19 VL  26.947 GAL  -2.00 AZL  87.24 HCA 175.69 SMA 130.05 ECC .17202 INC 2.7562 V1  29.317
RP  107.75 LAP    .21 LOP  79.88 VP  37.986 GAP    .79 AZP  92.75 TAL 189.72 TAP   5.41 RCA 107.68 APO 152.42 V2  35.170
RC  95.596 GL   26.02 GP -56.48 ZAL 111.81 ZAP  98.40 ETS 348.28 ZAE 124.56 ETE 248.04 ZAC 113.29 ETC 351.65 CLP-105.34
```

PLANETOCENTRIC CONIC

```
C3   8.728 VHL  2.954 DLA  35.63 RAL 162.78 RAD 6567.3 VEL 11.407 PTH   1.97 VHP  4.872 DPA -39.44 RAP 134.96 ECC 1.1436
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
67.41	19 50 49	3878.46	-29.35	162.82	21.12	68.83	20 55 27	3278.5	-31.95	154.44
112.59	1 23 41	2836.55	-29.34	84.70	21.11	68.81	2 10 57	2236.6	-31.94	76.33
67.41	19 50 49	3878.46	-29.35	162.82	21.12	68.83	20 55 27	3278.5	-31.95	154.44
112.59	1 23 41	2836.55	-29.34	84.70	21.11	68.81	2 10 57	2236.6	-31.94	76.33
67.41	19 50 49	3878.46	-29.35	162.82	21.12	68.83	20 55 27	3278.5	-31.95	154.44
112.59	1 23 41	2836.55	-29.34	84.70	21.11	68.81	2 10 57	2236.6	-31.94	76.33

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE  .6025 TRA  .0077 TC3-3.0022 BAU  .5871   SGT 2124.2 SGR 2710.9 SG3  465.1      ST  1169.6 SR  1050.7 SS   915.2
 RDE  .5268 RRA  .3280 RC3-4.0379 FAU .08009   RRT  .9448 RRF  .9998 RTF  .9472      CRT  .9755 CRS-1.0000 CST -.9771
 FDE 1.0921 FRA  .6569 FC3-7.9437 BSP 10409    SGB 3444.0 R23  .1175 R13  .9929      LSA 1808.7 MSA  195.5 SSA    1.9
 BDE  .8003 BRA  .3281 BC3 5.0317 FSP -1474    SG1 3399.0 SG2  555.2 THA  52.31      EL1 1562.7 EL2  173.1 ALF  41.86
```

LAUNCH DATE JUN 16 1967 FLIGHT TIME 142.00 ARRIVAL DATE NOV 5 1967

HELIOCENTRIC CONIC DISTANCE 395.846
RL 151.97 LAL -.00 LOL 264.19 VL 26.935 GAL -1.89 AZL 69.73 HCA 178.85 SMA 129.97 ECC .17237 INC20.2644 VI 29.317
RP 107.72 LAP .40 LOP 83.11 VP 37.987 GAP 1.17 AZP 110.27 TAL 189.13 TAP 7.98 RCA 107.56 APO 152.37 V2 35.180
RC 97.843 GL 65.79 GP -86.13 ZAL 95.85 ZAP 93.58 ETS 295.75 ZAE 91.32 ETE 203.41 ZAC 107.74 ETC 293.06 CLP 157.94

PLANETOCENTRIC CONIC
C3 104.587 VHL 10.227 DLA 63.27 RAL 211.17 RAD 6570.0 VEL 15.031 PTH 2.71 VHP 15.263 DPA -62.34 RAP 93.07 ECC 2.7212

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
30.73	20 52 9	4787.14	-15.90	235.46	112.93	27.89	22 11 56	4187.1	-22.93	231.82
149.27	6 48 23	3085.77	-15.89	94.07	112.91	27.89	7 39 49	2485.8	-22.92	90.43
30.73	20 52 9	4787.14	-15.90	235.46	112.93	27.89	22 11 56	4187.1	-22.93	231.82
149.27	6 48 23	3085.77	-15.89	94.07	112.91	27.89	7 39 49	2485.8	-22.92	90.43
30.73	20 52 9	4787.14	-15.90	235.46	112.93	27.89	22 11 56	4187.1	-22.93	231.82
149.27	6 48 23	3085.77	-15.89	94.07	112.91	27.89	7 39 49	2485.8	-22.92	90.43

DIFFERENTIAL CORRECTIONS
TDE 3.0165 TRA 3.0836 TC3 -.1001 BAU .1496
RDE -.9581 RRA .2728 RC3 -.0380 FAU .00355
FDE .6715 FRA .8706 FC3 -.0294 BSP 7652
BDE 3.1650 BRA 3.0957 BC3 .1070 FSP -195

MID-COURSE EXECUTION ACCURACY
SGT 4200.9 SGR 640.0 SG3 99.3
RRT .1539 RRF .2327 RTF .9968
SGB 4249.4 R23 .0767 R13 .9970
SG1 4202.1 SG2 632.2 THA 1.37

ORBIT DETERMINATION ACCURACY
ST 2045.4 SR 546.4 SS 655.9
CRT -.7066 CRS .6211 CST -.9934
LSA 2181.6 MSA 391.0 SSA .3
EL1 2082.8 EL2 379.7 ALF 168.94

LAUNCH DATE JUN 16 1967 FLIGHT TIME 144.00 ARRIVAL DATE NOV 7 1967

HELIOCENTRIC CONIC DISTANCE 402.279
RL 151.97 LAL -.00 LOL 264.19 VL 26.920 GAL -1.81 AZL 105.27 HCA 182.23 SMA 129.87 ECC .17300 INC15.2660 VI 29.317
RP 107.69 LAP .59 LOP 86.34 VP 37.985 GAP 1.61 AZP 74.74 TAL 188.69 TAP 10.92 RCA 107.40 APO 152.33 V2 35.190
RC 100.092 GL -63.67 GP 73.53 ZAL 97.30 ZAP 98.66 ETS 36.56 ZAE 101.08 ETE 129.27 ZAC 84.63 ETC 39.09 CLP-122.10

PLANETOCENTRIC CONIC
C3 62.502 VHL 7.906 DLA -49.02 RAL 128.68 RAD 6569.2 VEL 13.559 PTH 2.48 VHP 8.174 DPA 72.38 RAP 234.82 ECC 2.0286

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
48.16	4 13 28	1925.61	19.20	45.89	21.05	136.01	4 45 34	1325.6	24.85	40.19
131.84	12 28 55	5713.04	19.21	265.88	21.07	136.01	14 4 8	5113.0	24.86	260.18
48.16	4 13 28	1925.61	19.20	45.89	21.05	136.01	4 45 34	1325.6	24.85	40.19
131.84	12 28 55	5713.04	19.21	265.88	21.07	136.01	14 4 8	5113.0	24.86	260.18
48.16	4 13 28	1925.61	19.20	45.89	21.05	136.01	4 45 34	1325.6	24.85	40.19
131.84	12 28 55	5713.04	19.21	265.88	21.07	136.01	14 4 8	5113.0	24.86	260.18

DIFFERENTIAL CORRECTIONS
TDE-3.2801 TRA-1.5197 TC3 -.3930 BAU .4071
RDE 3.3831 RRA .5546 RC3 .2880 FAU .02205
FDE-2.9894 FRA -.7243 FC3 -.3054 BSP 11100
BDE 4.7121 BRA 1.6178 BC3 .4872 FSP -584

MID-COURSE EXECUTION ACCURACY
SGT 2976.1 SGR 2567.9 SG3 203.9
RRT -.9343 RRF -.9939 RTF .9675
SGB 3930.8 R23 .1006 R13 -.9948
SG1 3867.2 SG2 704.4 THA 139.50

ORBIT DETERMINATION ACCURACY
ST 2430.0 SR 2458.7 SS 1539.5
CRT -.9910 CRS .9994 CST -.9952
LSA 3776.9 MSA 235.4 SSA .8
EL1 3449.2 EL2 231.4 ALF 134.66

LAUNCH DATE JUN 16 1967 FLIGHT TIME 146.00 ARRIVAL DATE NOV 9 1967

HELIOCENTRIC CONIC DISTANCE 408.503
RL 151.97 LAL -.00 LOL 264.19 VL 26.903 GAL -1.68 AZL 98.20 HCA 185.44 SMA 129.75 ECC .17364 INC 8.2037 VI 29.317
RP 107.66 LAP .78 LOP 89.57 VP 37.982 GAP 1.98 AZP 81.83 TAL 188.03 TAP 13.47 RCA 107.22 APO 152.28 V2 35.199
RC 102.344 GL -53.30 GP 46.93 ZAL 101.37 ZAP 109.51 ETS 23.74 ZAE 124.39 ETE 127.42 ZAC 95.80 ETC 29.53 CLP-119.28

PLANETOCENTRIC CONIC
C3 22.908 VHL 4.786 DLA -39.41 RAL 134.47 RAD 6567.9 VEL 12.012 PTH 2.14 VHP 4.405 DPA 56.63 RAP 180.51 ECC 1.3770

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.36	5 28 40	1537.15	25.58	16.42	8.82	121.06	5 54 17	937.2	29.50	8.97
118.64	11 59 56	5601.04	25.60	261.37	8.83	121.05	13 33 17	5001.0	29.51	253.91
61.36	5 28 40	1537.15	25.58	16.42	8.82	121.06	5 54 17	937.2	29.50	8.97
118.64	11 59 56	5601.04	25.60	261.37	8.83	121.05	13 33 17	5001.0	29.51	253.91
61.36	5 28 40	1537.15	25.58	16.42	8.82	121.06	5 54 17	937.2	29.50	8.97
118.64	11 59 56	5601.04	25.60	261.37	8.83	121.05	13 33 17	5001.0	29.51	253.91

DIFFERENTIAL CORRECTIONS
TDE-1.8154 TRA -.9207 TC3-1.5213 BAU .5631
RDE 1.5452 RRA .2903 RC3 1.0323 FAU .08944
FDE-4.7081 FRA-1.0138 FC3-3.3802 BSP 11358
BDE 2.3840 BRA .9654 BC3 1.8385 FSP -1844

MID-COURSE EXECUTION ACCURACY
SGT 2979.7 SGR 2144.9 SG3 577.7
RRT -.9546 RRF -.9992 RTF .9638
SGB 3671.4 R23 .1663 R13 -.9859
SG1 3633.8 SG2 524.1 THA 144.66

ORBIT DETERMINATION ACCURACY
ST 2215.4 SR 1854.9 SS 2152.8
CRT -.9926 CRS .9999 CST -.9938
LSA 3597.5 MSA 202.3 SSA 1.4
EL1 2884.2 EL2 172.9 ALF 140.10

LAUNCH DATE JUN 16 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 11 1967

HELIOCENTRIC CONIC DISTANCE 414.738
RL 151.97 LAL -.00 LOL 264.19 VL 26.884 GAL -1.54 AZL 96.38 HCA 188.67 SMA 129.62 ECC .17442 INC 6.3838 VI 29.317
RP 107.63 LAP .96 LOP 92.80 VP 37.976 GAP 2.36 AZP 83.69 TAL 187.33 TAP 16.00 RCA 107.01 APO 152.23 V2 35.208
RC 104.596 GL -47.35 GP 32.45 ZAL 102.49 ZAP 116.97 ETS 20.03 ZAE 134.53 ETE 137.38 ZAC 102.40 ETC 27.13 CLP-122.50

PLANETOCENTRIC CONIC
C3 16.506 VHL 4.063 DLA -34.29 RAL 138.30 RAD 6567.7 VEL 11.743 PTH 2.07 VHP 3.770 DPA 44.31 RAP 168.40 ECC 1.2717

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.81	6 28 46	1327.22	24.80	359.02	5.60	114.47	6 50 53	727.2	27.89	351.20
110.19	11 30 22	5655.88	24.82	265.34	5.61	114.45	13 4 38	5055.9	27.90	257.51
69.81	6 28 46	1327.22	24.80	359.02	5.60	114.47	6 50 53	727.2	27.89	351.20
110.19	11 30 22	5655.88	24.82	265.34	5.61	114.45	13 4 38	5055.9	27.90	257.51
69.81	6 28 46	1327.22	24.80	359.02	5.60	114.47	6 50 53	727.2	27.89	351.20
110.19	11 30 22	5655.88	24.82	265.34	5.61	114.45	13 4 38	5055.9	27.90	257.51

DIFFERENTIAL CORRECTIONS
TDE-1.5503 TRA -.7430 TC3-2.3096 BAU .5541
RDE .8592 RRA .1097 RC3 .9847 FAU .11824
FDE-4.8618 FRA -.7412 FC3-6.2014 BSP 10241
BDE 1.7725 BRA .7511 BC3 2.5108 FSP -2227

MID-COURSE EXECUTION ACCURACY
SGT 3148.1 SGR 1464.0 SG3 743.3
RRT -.9521 RRF -.9986 RTF .9620
SGB 3471.8 R23 .2187 R13 -.9750
SG1 3447.7 SG2 408.7 THA 155.75

ORBIT DETERMINATION ACCURACY
ST 2219.9 SR 1213.2 SS 2237.0
CRT -.9921 CRS 1.0000 CST -.9932
LSA 3371.1 MSA 199.3 SSA 2.1
EL1 2526.2 EL2 134.0 ALF 151.45

LAUNCH DATE JUN 16 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 13 1967

HELIOCENTRIC CONIC DISTANCE 420.950

RL 151.97 LAL -.00 LOL 264.19 VL 26.863 GAL -1.40 AZL 95.55 HCA 191.90 SMA 129.48 ECC .17532 INC 5.5470 V1 29.317
RP 107.61 LAP 1.14 LOP 96.04 VP 37.969 GAP 2.73 AZP 84.57 TAL 186.59 TAP 18.50 RCA 106.78 APO 152.18 V2 35.216
RC 106.849 GL -43.76 GP 24.03 ZAL 102.46 ZAP 122.43 ETS 17.52 ZAE 138.44 ETE 146.79 ZAC 106.14 ETC 25.22 CLP-125.95

PLANETOCENTRIC CONIC

C3 14.087 VHL 3.753 DLA -31.43 RAL 141.07 RAD 6567.6 VEL 11.639 PTH 2.04 VHP 3.627 DPA 36.81 RAP 163.33 ECC 1.2318

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.77	7 18 19	1172.48	23.74	346.65	5.01	111.22	7 37 52	572.5	26.41	338.74
104.23	11 2 57	5739.43	23.76	271.26	5.01	111.20	12 38 37	5139.4	26.42	263.35
75.77	7 18 19	1172.48	23.74	346.65	5.01	111.22	7 37 52	572.5	26.41	338.74
104.23	11 2 57	5739.43	23.76	271.26	5.01	111.20	12 38 37	5139.4	26.42	263.35
110.00	9 56 58	657.23	15.65	304.85	.82	120.78	10 7 55	57.2	19.62	297.97
110.00	13 23 29	5302.68	32.39	240.73	7.89	101.58	14 51 52	4702.7	33.65	231.72

DIFFERENTIAL CORRECTIONS
TDE-1.4906 TRA -.6740 TC3-2.9840 BAU .5838
RDE .5732 RRA .0577 RC3 .8394 FAU .13259
FDE-4.6946 FRA -.5735 FC3-8.1484 BSP 10883
BDE 1.5970 BRA .6765 BC3 3.0998 FSP -2575

MID-COURSE EXECUTION ACCURACY
SGT 3413.0 SGR 1083.3 SG3 818.9
RRT -.9540 RRF -.9966 RTF .9659
SGB 3580.8 R23 .2246 R13 -.9722
SG1 3567.3 SG2 310.9 THA 163.02

ORBIT DETERMINATION ACCURACY
ST 2305.0 SR 875.8 SS 2248.6
CRT -.9925 CRS 1.0000 CST -.9934
LSA 3331.5 MSA 193.0 SSA 3.0
EL1 2463.8 EL2 100.1 ALF 159.30

LAUNCH DATE JUN 16 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 15 1967

HELIOCENTRIC CONIC DISTANCE 427.147

RL 151.97 LAL -.00 LOL 264.19 VL 26.841 GAL -1.24 AZL 95.06 HCA 195.14 SMA 129.33 ECC .17635 INC 5.0642 V1 29.317
RP 107.59 LAP 1.32 LOP 99.27 VP 37.960 GAP 3.10 AZP 85.11 TAL 185.80 TAP 20.94 RCA 106.52 APO 152.14 V2 35.223
RC 109.101 GL -41.37 GP 18.72 ZAL 101.84 ZAP 126.82 ETS 15.72 ZAE 139.55 ETE 154.19 ZAC 108.31 ETC 23.70 CLP-129.26

PLANETOCENTRIC CONIC

C3 12.843 VHL 3.584 DLA -29.74 RAL 143.43 RAD 6567.5 VEL 11.586 PTH 2.03 VHP 3.632 DPA 31.97 RAP 160.69 ECC 1.2114

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.50	8 2 28	1042.12	22.99	336.59	5.47	109.41	8 19 50	442.1	25.42	328.65
99.50	10 37 35	5829.58	23.00	277.70	5.47	109.40	12 14 44	5229.6	25.43	269.76
100.00	10 16 6	610.19	21.17	304.16	4.73	111.61	10 26 16	10.2	23.92	296.44
100.00	11 6 38	5736.74	24.84	271.47	6.13	107.19	12 42 15	5136.7	26.95	263.31
110.00	9 39 3	727.10	13.18	308.75	.53	121.83	9 51 10	127.1	17.29	302.05
110.00	14 0 10	5192.60	33.59	232.37	8.26	96.77	15 26 43	4592.6	34.16	223.17

DIFFERENTIAL CORRECTIONS
TDE-1.4794 TRA -.6129 TC3-3.5103 BAU .6129
RDE .4143 RRA .0278 RC3 .6495 FAU .13320
FDE-4.3552 FRA -.3520 FC3-8.9789 BSP 11396
BDE 1.5363 BRA .6136 BC3 3.5698 FSP -2608

MID-COURSE EXECUTION ACCURACY
SGT 3632.9 SGR 811.2 SG3 821.1
RRT -.9486 RRF -.9911 RTF .9672
SGB 3722.4 R23 .2189 R13 -.9704
SG1 3713.9 SG2 251.1 THA 167.98

ORBIT DETERMINATION ACCURACY
ST 2390.5 SR 662.8 SS 2186.6
CRT -.9929 CRS 1.0000 CST -.9935
LSA 3301.4 MSA 189.4 SSA 4.1
EL1 2479.5 EL2 76.1 ALF 164.59

LAUNCH DATE JUN 16 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 17 1967

HELIOCENTRIC CONIC DISTANCE 433.327

RL 151.97 LAL -.00 LOL 264.19 VL 26.817 GAL -1.07 AZL 94.75 HCA 198.38 SMA 129.16 ECC .17750 INC 4.7481 V1 29.317
RP 107.57 LAP 1.50 LOP 102.51 VP 37.949 GAP 3.46 AZP 85.49 TAL 184.97 TAP 23.35 RCA 106.24 APO 152.09 V2 35.230
RC 111.351 GL -39.65 GP 15.12 ZAL 100.87 ZAP 130.58 ETS 14.38 ZAE 139.40 ETE 159.71 ZAC 109.53 ETC 22.47 CLP-132.36

PLANETOCENTRIC CONIC

C3 12.098 VHL 3.478 DLA -28.73 RAL 145.60 RAD 6567.5 VEL 11.554 PTH 2.02 VHP 3.698 DPA 28.59 RAP 159.25 ECC 1.1991

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.93	8 46 24	916.10	22.51	327.11	6.47	108.34	9 1 40	316.1	24.81	319.16
95.07	10 11 2	642.11	22.52	307.04	6.48	108.33	10 21 44	42.1	24.82	299.09
100.00	9 40 8	741.66	17.66	312.34	4.45	114.52	9 52 30	141.7	20.82	304.97
100.00	11 59 59	5579.82	27.55	260.61	7.99	102.09	13 32 58	4979.8	28.94	252.08
110.00	9 33 57	761.10	11.95	310.62	1.26	122.27	9 46 38	161.1	16.13	304.00
110.00	14 22 39	5133.14	33.97	227.77	9.05	94.07	15 48 12	4533.1	34.16	218.53

DIFFERENTIAL CORRECTIONS
TDE-1.4932 TRA -.5530 TC3-3.9482 BAU .6433
RDE .3202 RRA .0123 RC3 .4801 FAU .12877
FDE-4.0128 FRA -.1419 FC3-9.2143 BSP 11905
BDE 1.5272 BRA .5532 BC3 3.9773 FSP -2531

MID-COURSE EXECUTION ACCURACY
SGT 3830.6 SGR 624.8 SG3 795.9
RRT -.9355 RRF -.9789 RTF .9676
SGB 3881.2 R23 .2004 R13 -.9694
SG1 3875.0 SG2 218.3 THA 171.30

ORBIT DETERMINATION ACCURACY
ST 2480.8 SR 527.7 SS 2112.8
CRT -.9935 CRS .9999 CST -.9935
LSA 3295.7 MSA 186.3 SSA 5.2
EL1 2535.6 EL2 58.6 ALF 168.06

LAUNCH DATE JUN 16 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 19 1967

HELIOCENTRIC CONIC DISTANCE 439.489

RL 151.97 LAL -.00 LOL 264.19 VL 26.791 GAL -.89 AZL 94.52 HCA 201.63 SMA 128.99 ECC .17878 INC 4.5241 V1 29.317
RP 107.55 LAP 1.67 LOP 105.75 VP 37.937 GAP 3.82 AZP 85.79 TAL 184.09 TAP 25.72 RCA 105.93 APO 152.05 V2 35.236
RC 113.598 GL -38.32 GP 12.55 ZAL 99.65 ZAP 133.89 ETS 13.33 ZAE 138.69 ETE 163.79 ZAC 110.14 ETC 21.44 CLP-135.25

PLANETOCENTRIC CONIC

C3 11.614 VHL 3.408 DLA -28.14 RAL 147.73 RAD 6567.4 VEL 11.533 PTH 2.01 VHP 3.794 DPA 26.09 RAP 158.52 ECC 1.1911

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 9 20	860.92	20.38	322.27	7.16	110.09	9 23 41	260.9	22.94	314.53
90.00	10 5 2	680.15	24.14	310.36	8.45	105.28	10 16 22	80.1	26.00	302.18
100.00	9 32 44	785.19	16.41	314.97	5.40	115.34	9 45 50	185.2	19.69	307.71
100.00	12 24 19	5519.16	28.34	256.27	9.50	99.94	13 56 18	4919.2	29.42	247.63
110.00	9 34 59	778.12	11.33	311.55	2.52	122.47	9 47 57	178.1	15.53	304.96
110.00	14 38 33	5098.99	34.10	225.11	10.23	92.50	16 3 32	4499.0	34.07	215.86

DIFFERENTIAL CORRECTIONS
TDE-1.5236 TRA -.4948 TC3-4.3293 BAU .6743
RDE .2616 RRA .0058 RC3 .3389 FAU .12244
FDE-3.7068 FRA .0327 FC3-9.1267 BSP 12469
BDE 1.5459 BRA .4948 BC3 4.3426 FSP -2426

MID-COURSE EXECUTION ACCURACY
SGT 4019.8 SGR 496.9 SG3 760.8
RRT -.9104 RRF -.9546 RTF .9679
SGB 4050.4 R23 .1720 R13 -.9689
SG1 4045.2 SG2 204.3 THA 173.56

ORBIT DETERMINATION ACCURACY
ST 2578.6 SR 439.9 SS 2044.0
CRT -.9946 CRS .9998 CST -.9936
LSA 3314.7 MSA 182.9 SSA 6.3
EL1 2615.4 EL2 45.1 ALF 170.37

LAUNCH DATE JUN 16 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 21 1967

HELIOCENTRIC CONIC DISTANCE 445.632

```
RL  151.97 LAL   -.00 LOL 264.19 VL  26.764 GAL   -.70 AZL  94.36 HCA 204.87 SMA 128.81 ECC .18017 INC 4.3560 V1  29.317
RP  107.53 LAP   1.83 LOP 108.99 VP  37.923 GAP   4.18 AZP  86.05 TAL 183.17 TAP  28.04 RCA 105.60 APO 152.02 V2  35.241
RC 115.842 GL  -37.23 GP   10.64 ZAL  98.23 ZAP 136.87 ETS  12.50 ZAE 137.76 ETE 166.85 ZAC 110.29 ETC  20.56 CLP-137.95
```

PLANETOCENTRIC CONIC

```
C3  11.289 VHL  3.360 DLA -27.83 RAL 149.86 RAO 6567.4 VEL 11.519 PTH   2.01 VHP  3.910 DPA  24.11 RAP 158.30 ECC 1.1858
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 59 35	914.53	19.09	325.67	8.34	111.32	9 14 49	314.5	21.82	318.06
90.00	10 31 47	614.73	25.24	305.88	10.40	103.29	10 42 2	14.7	26.82	297.57
100.00	9 34 1	803.21	15.88	316.05	6.88	115.66	9 47 24	203.2	19.20	308.83
100.00	12 40 2	5489.32	28.67	254.12	11.16	98.85	14 11 31	4889.3	29.59	245.43
110.00	9 39 44	785.21	11.07	311.93	4.12	122.55	9 52 50	185.2	15.29	305.36
110.00	14 50 48	5080.08	34.15	223.63	11.75	91.63	16 15 28	4480.1	34.00	214.39

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
TDE-1.5609 TRA -.4300 TC3-4.6511 BAU  .7027   SGT 4188.1 SGR  408.7 SG3  720.2           ST  2674.9 SR   380.8 SS  1977.2
RDE  .2233 RRA  .0035 RC3  .2208 FAU .11500   RRT -.8663 RRF -.9112 RTF  .9678           CRT -.9959 CRS  .9995 CST -.9937
FDE-3.4303 FRA  .1923 FC3-8.8191 BSP  12960   SGB 4208.0 R23  .1417 R13 -.9684           LSA 3343.3 MSA  179.3 SSA    7.4
BDE 1.5767 BRA  .4300 BC3 4.6563 FSP  -2294   SG1 4203.1 SG2  203.5 THA 175.16           EL1 2701.7 EL2   34.2 ALF 171.93
```

LAUNCH DATE JUN 16 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 23 1967

HELIOCENTRIC CONIC DISTANCE 451.756

```
RL  151.97 LAL   -.00 LOL 264.19 VL  26.736 GAL   -.49 AZL  94.22 HCA 208.11 SMA 128.62 ECC .18170 INC 4.2245 V1  29.317
RP  107.52 LAP   1.99 LOP 112.24 VP  37.907 GAP   4.54 AZP  86.27 TAL 182.22 TAP  30.33 RCA 105.25 APO 151.99 V2  35.246
RC 118.080 GL  -36.29 GP    9.18 ZAL  96.64 ZAP 139.59 ETS  11.81 ZAE 136.77 ETE 169.18 ZAC 110.10 ETC  19.79 CLP-140.47
```

PLANETOCENTRIC CONIC

```
C3  11.072 VHL  3.327 DLA -27.72 RAL 152.03 RAO 6567.4 VEL 11.509 PTH   2.00 VHP  4.037 DPA  22.48 RAP 158.44 ECC 1.1822
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 3 8	927.26	18.77	326.47	10.08	111.60	9 18 35	327.3	21.54	318.89
90.00	10 45 34	5882.02	25.55	282.35	12.33	102.64	12 23 36	5282.0	27.04	274.00
100.00	9 40 9	807.60	15.75	316.31	8.70	115.74	9 53 37	207.6	19.09	309.10
100.00	12 51 14	5476.91	28.79	253.21	13.01	98.39	14 22 30	4876.9	29.66	244.52
110.00	9 47 3	785.93	11.04	311.97	6.00	122.56	10 0 9	185.9	15.26	305.41
110.00	15 0 49	5071.35	34.16	222.95	13.54	91.23	16 25 20	4471.3	33.96	213.71

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
TDE-1.6070 TRA -.3633 TC3-4.9444 BAU  .7321   SGT 4357.0 SGR  351.6 SG3  681.2           ST  2777.1 SR   341.5 SS  1919.2
RDE  .1983 RRA  .0046 RC3  .1253 FAU .10795   RRT -.8001 RRF -.8440 RTF  .9679           CRT -.9973 CRS  .9988 CST -.9939
FDE-3.1920 FRA  .3240 FC3-8.4408 BSP  13526   SGB 4371.2 R23  .1130 R13 -.9682           LSA 3388.4 MSA  175.3 SSA    8.5
BDE 1.6192 BRA  .3634 BC3 4.9460 FSP  -2181   SG1 4366.1 SG2  210.5 THA 176.30           EL1 2797.9 EL2   25.1 ALF 173.01
```

LAUNCH DATE JUN 16 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 25 1967

HELIOCENTRIC CONIC DISTANCE 457.862

```
RL  151.97 LAL   -.00 LOL 264.19 VL  26.707 GAL   -.28 AZL  94.12 HCA 211.36 SMA 128.43 ECC .18335 INC 4.1183 V1  29.317
RP  107.50 LAP   2.14 LOP 115.48 VP  37.890 GAP   4.89 AZP  86.48 TAL 181.23 TAP  32.59 RCA 104.88 APO 151.98 V2  35.250
RC 120.312 GL  -35.45 GP    8.02 ZAL  94.92 ZAP 142.09 ETS  11.24 ZAE 135.78 ETE 170.98 ZAC 109.63 ETC  19.10 CLP-142.82
```

PLANETOCENTRIC CONIC

```
C3  10.936 VHL  3.307 DLA -27.74 RAL 154.26 RAO 6567.4 VEL 11.503 PTH   2.00 VHP  4.174 DPA  21.08 RAP 158.88 ECC 1.1800
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 13 10	921.07	18.93	326.09	12.18	111.46	9 28 31	321.1	21.68	318.49
90.00	10 53 21	5883.15	25.54	282.43	14.37	102.67	12 31 25	5283.2	27.03	274.08
100.00	9 49 38	803.18	15.88	316.04	10.79	115.66	10 3 1	203.2	19.21	308.83
100.00	12 59 34	5476.28	28.80	253.17	15.06	98.37	14 30 51	4876.3	29.66	244.47
110.00	9 56 16	782.33	11.18	311.78	8.10	122.52	10 9 19	182.3	15.39	305.20
110.00	15 9 25	5069.89	34.17	222.84	15.58	91.16	16 33 55	4469.9	33.95	213.60

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
TDE-1.6567 TRA -.2855 TC3-5.1953 BAU  .7596   SGT 4512.1 SGR  317.1 SG3  643.2           ST  2877.0 SR   315.3 SS  1865.4
RDE  .1820 RRA  .0070 RC3  .0467 FAU .10102   RRT -.7121 RRF -.7537 RTF  .9675           CRT -.9984 CRS  .9975 CST -.9940
FDE-2.9803 FRA  .4533 FC3-7.9969 BSP  14015   SGB 4523.2 R23  .0898 R13 -.9677           LSA 3439.0 MSA  172.0 SSA    9.7
BDE 1.6667 BRA  .2856 BC3 5.1955 FSP  -2059   SG1 4517.7 SG2  222.3 THA 177.13           EL1 2894.2 EL2   17.5 ALF 173.76
```

LAUNCH DATE JUN 16 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 27 1967

HELIOCENTRIC CONIC DISTANCE 463.948

```
RL  151.97 LAL   -.00 LOL 264.19 VL  26.676 GAL   -.05 AZL  94.03 HCA 214.61 SMA 128.23 ECC .18514 INC 4.0300 V1  29.317
RP  107.49 LAP   2.29 LOP 118.73 VP  37.872 GAP   5.24 AZP  86.68 TAL 180.20 TAP  34.81 RCA 104.49 APO 151.97 V2  35.253
RC 122.538 GL  -34.66 GP    7.09 ZAL  93.08 ZAP 144.40 ETS  10.76 ZAE 134.83 ETE 172.40 ZAC 108.93 ETC  18.48 CLP-145.02
```

PLANETOCENTRIC CONIC

```
C3  10.869 VHL  3.297 DLA -27.87 RAL 156.57 RAO 6567.4 VEL 11.500 PTH   2.00 VHP  4.318 DPA  19.84 RAP 159.54 ECC 1.1789
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 28 11	900.78	19.43	324.81	14.58	111.02	9 43 12	300.8	22.11	317.16
90.00	10 56 45	612.86	25.26	305.75	16.53	103.23	11 6 58	12.9	26.84	297.44
100.00	10 1 39	792.59	16.19	315.41	13.13	115.47	10 14 51	192.6	19.49	308.17
100.00	13 5 58	5484.33	28.72	253.75	17.28	98.67	14 37 23	4884.3	29.62	245.07
110.00	10 6 59	775.84	11.41	311.42	10.40	122.44	10 19 55	175.8	15.61	304.84
110.00	15 17 8	5073.85	34.16	223.15	17.84	91.34	16 41 42	4473.8	33.97	213.91

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
TDE-1.7297 TRA -.2370 TC3-5.4670 BAU  .7944   SGT 4716.8 SGR  303.4 SG3  617.0           ST  3011.3 SR   302.1 SS  1851.1
RDE  .1737 RRA  .0143 RC3 -.0120 FAU .09640   RRT -.6235 RRF -.6598 RTF  .9711           CRT -.9992 CRS  .9960 CST -.9948
FDE-2.8495 FRA  .4665 FC3-7.6785 BSP  14709   SGB 4726.5 R23  .0676 R13 -.9712           LSA 3544.0 MSA  160.8 SSA   10.8
BDE 1.7384 BRA  .2374 BC3 5.4670 FSP  -1993   SG1 4720.6 SG2  237.0 THA 177.70           EL1 3026.4 EL2   12.4 ALF 174.28
```

LAUNCH DATE JUN 16 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 29 1967

HELIOCENTRIC CONIC DISTANCE 470.016

```
RL  151.97 LAL   -.00 LOL 264.19 VL  26.645 GAL    .20 AZL  93.96 HCA 217.85 SMA 128.02 ECC-.18706 INC 3.9552 V1  29.317
RP  107.49 LAP   2.43 LOP 121.98 VP  37.852 GAP   5.59 AZP  86.88 TAL 179.15 TAP  37.00 RCA 104.08 APO 151.99 V2  35.256
RC 124.755 GL  -33.90 GP    6.33 ZAL  91.11 ZAP 146.55 ETS  10.35 ZAE 133.95 ETE 173.53 ZAC 108.03 ETC  17.91 CLP-147.08
```

PLANETOCENTRIC CONIC

```
C3  10.861 VHL  3.296 DLA -28.07 RAL 158.97 RAD 6567.4 VEL 11.500 PTH   2.00 VHP  4.467 DPA  18.70 RAP 160.41 ECC 1.1787
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 49 3	863.67	20.32	322.45	17.30	110.16	10 3 27	263.7	22.88	314.71
90.00	10 54 58	649.68	24.67	308.28	18.77	104.37	11 5 48	49.7	26.40	300.04
100.00	10 15 51	776.99	16.65	314.48	15.69	115.19	10 28 48	177.0	19.90	307.20
100.00	13 10 51	5499.63	28.56	254.86	19.67	99.23	14 42 31	4899.6	29.54	246.20
110.00	10 18 57	767.27	11.73	310.96	12.90	122.34	10 31 44	167.3	15.91	304.35
110.00	15 24 15	5082.11	34.14	223.79	20.30	91.72	16 48 57	4482.1	34.01	214.55

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.7670 TRA -.1128 TC3-5.5548 BAU  .8066   SGT 4784.5 SGR  294.3 SG3  568.9      ST  3074.7 SR   288.8 SS  1768.9
RDE  .1660 RRA  .0157 RC3 -.0735 FAU .08690   RRT -.5087 RRF -.5449 RTF  .9665      CRT -.9991 CRS  .9925 CST -.9943
FDE-2.6253 FRA  .6578 FC3-6.9269 BSP  14903   SGB 4793.6 R23  .0603 R13 -.9666      LSA 3555.2 MSA  163.9 SSA   11.9
BDE 1.7748 BRA  .1139 BC3 5.5553 FSP  -1823   SGI 4786.9 SG2  253.3 THA 178.20      EL1 3088.3 EL2   12.1 ALF 174.64
```

LAUNCH DATE JUN 16 1967 FLIGHT TIME 168.00 ARRIVAL DATE DEC 1 1967

HELIOCENTRIC CONIC DISTANCE 476.064

```
RL  151.97 LAL   -.00 LOL 264.19 VL  26.613 GAL    .45 AZL  93.89 HCA 221.10 SMA 127.81 ECC .18914 INC 3.8905 V1  29.317
RP  107.48 LAP   2.56 LOP 125.22 VP  37.832 GAP   5.95 AZP  87.07 TAL 178.06 TAP  39.16 RCA 103.64 APO 151.99 V2  35.258
RC 126.964 GL  -33.14 GP    5.70 ZAL  89.05 ZAP 148.55 ETS  10.00 ZAE 133.13 ETE 174.45 ZAC 106.97 ETC  17.38 CLP-149.02
```

PLANETOCENTRIC CONIC

```
C3  10.910 VHL  3.303 DLA -28.32 RAL 161.44 RAD 6567.4 VEL 11.502 PTH   2.00 VHP  4.623 DPA  17.63 RAP 161.43 ECC 1.1795
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
89.74	10 29 38	764.88	22.64	316.08	20.69	107.47	10 42 23	164.9	24.82	308.08
90.26	10 34 8	750.30	22.65	315.01	20.69	107.46	10 46 38	150.3	24.83	307.02
100.00	10 31 55	757.50	17.21	313.30	18.46	114.83	10 44 32	157.5	20.41	305.97
100.00	13 14 32	5520.95	28.32	256.40	22.23	100.01	14 46 33	4921.0	29.41	247.77
110.00	10 31 54	757.54	12.08	310.42	15.58	122.22	10 44 31	157.5	16.25	303.80
110.00	15 31 3	5093.67	34.12	224.69	22.95	92.26	16 55 56	4493.7	34.05	215.45

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.8224 TRA -.0140 TC3-5.6892 BAU  .8300   SGT 4911.1 SGR  296.6 SG3  536.0      ST  3163.3 SR   284.0 SS  1718.7
RDE  .1636 RRA  .0209 RC3 -.1154 FAU .08096   RRT -.4197 RRF -.4510 RTF  .9663      CRT -.9982 CRS  .9886 CST -.9945
FDE-2.4667 FRA  .7456 FC3-6.4247 BSP  15299   SGB 4920.1 R23  .0486 R13 -.9663      LSA 3607.7 MSA  160.0 SSA   12.9
BDE 1.8297 BRA  .0252 BC3 5.6904 FSP  -1716   SGI 4912.7 SG2  269.2 THA 178.54      EL1 3176.0 EL2   16.9 ALF 174.88
```

LAUNCH DATE JUN 16 1967 FLIGHT TIME 170.00 ARRIVAL DATE DEC 3 1967

HELIOCENTRIC CONIC DISTANCE 482.091

```
RL  151.97 LAL   -.00 LOL 264.19 VL  26.581 GAL    .72 AZL  93.83 HCA 224.35 SMA 127.60 ECC .19136 INC 3.8338 V1  29.317
RP  107.48 LAP   2.68 LOP 128.47 VP  37.810 GAP   6.30 AZP  87.26 TAL 176.95 TAP  41.30 RCA 103.18 APO 152.02 V2  35.259
RC 129.165 GL  -32.38 GP    5.18 ZAL  86.90 ZAP 150.44 ETS   9.71 ZAE 132.39 ETE 175.20 ZAC 105.77 ETC  16.90 CLP-150.85
```

PLANETOCENTRIC CONIC

```
C3  11.014 VHL  3.319 DLA -28.60 RAL 164.00 RAD 6567.4 VEL 11.507 PTH   2.00 VHP  4.783 DPA  16.62 RAP 162.59 ECC 1.1813
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.81	10 7 1	873.09	22.82	324.06	23.46	107.72	10 21 34	273.1	25.03	316.07
94.19	11 17 8	646.01	22.83	307.44	23.46	107.71	11 27 54	46.0	25.04	299.44
100.00	10 49 42	734.54	17.86	311.91	21.42	114.38	11 1 57	134.5	21.00	304.52
100.00	13 17 9	5547.84	27.98	258.33	24.92	100.97	14 49 37	4947.8	29.21	249.74
110.00	10 45 38	747.30	12.45	309.86	18.42	122.09	10 58 6	147.3	16.60	303.21
110.00	15 37 42	5107.84	34.07	225.80	25.78	92.91	17 2 49	4507.8	34.10	216.55

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.8801 TRA  .0936 TC3-5.7786 BAU  .8512   SGT 5028.0 SGR  304.2 SG3  504.8      ST  3248.3 SR   283.5 SS  1671.7
RDE  .1639 RRA  .0264 RC3 -.1486 FAU .07522   RRT -.3471 RRF -.3741 RTF  .9660      CRT -.9964 CRS  .9839 CST -.9946
FDE-2.3251 FRA  .8240 FC3-5.9127 BSP  15706   SGB 5037.2 R23  .0403 R13 -.9661      LSA 3660.8 MSA  156.0 SSA   13.9
BDE 1.8872 BRA  .0973 BC3 5.7805 FSP  -1625   SGI 5029.1 SG2  285.2 THA 178.79      EL1 3260.6 EL2   24.1 ALF 175.03
```

LAUNCH DATE JUN 16 1967 FLIGHT TIME 172.00 ARRIVAL DATE DEC 5 1967

HELIOCENTRIC CONIC DISTANCE 488.096

```
RL  151.97 LAL   -.00 LOL 264.19 VL  26.548 GAL   1.00 AZL  93.78 HCA 227.60 SMA 127.39 ECC .19375 INC 3.7832 V1  29.317
RP  107.48 LAP   2.79 LOP 131.72 VP  37.787 GAP   6.66 AZP  87.45 TAL 175.81 TAP  43.41 RCA 102.71 APO 152.07 V2  35.259
RC 131.355 GL  -31.59 GP    4.73 ZAL  84.68 ZAP 152.21 ETS   9.46 ZAE 131.71 ETE 175.82 ZAC 104.45 ETC  16.45 CLP-152.59
```

PLANETOCENTRIC CONIC

```
C3  11.176 VHL  3.343 DLA -28.90 RAL 166.63 RAD 6567.4 VEL 11.514 PTH   2.01 VHP  4.948 DPA  15.63 RAP 163.87 ECC 1.1839
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.99	10 2 33	924.47	22.99	327.89	26.38	108.01	10 17 57	324.5	25.23	319.90
96.01	11 42 38	600.64	23.00	304.16	26.39	107.99	11 52 38	.6	25.24	296.17
100.00	11 9 12	708.17	18.59	310.29	24.59	113.84	11 21 0	108.2	21.66	302.84
100.00	13 18 39	5580.22	27.54	260.64	27.74	102.11	14 51 39	4980.2	28.93	252.11
110.00	11 0 0	737.12	12.82	309.30	21.41	121.96	11 12 17	137.1	16.95	302.63
110.00	15 44 21	5124.03	34.01	227.06	28.78	93.65	17 9 45	4524.0	34.14	217.82

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.9417 TRA  .2093 TC3-5.8351 BAU  .8723   SGT 5144.3 SGR  314.7 SG3  476.8      ST  3332.1 SR   286.5 SS  1629.6
RDE  .1668 RRA  .0319 RC3 -.1734 FAU .07000   RRT -.2924 RRF -.3161 RTF  .9659      CRT -.9937 CRS  .9785 CST -.9948
FDE-2.2018 FRA  .8951 FC3-5.4225 BSP  16075   SGB 5153.9 R23  .0342 R13 -.9659      LSA 3717.1 MSA  152.5 SSA   14.9
BDE 1.9488 BRA  .2117 BC3 5.8377 FSP  -1533   SGI 5145.1 SG2  300.9 THA 178.97      EL1 3344.2 EL2   32.1 ALF 175.12
```

LAUNCH DATE JUN 16 1967 FLIGHT TIME 174.00 ARRIVAL DATE DEC 7 1967

HELIOCENTRIC CONIC DISTANCE 494.080
RL 151.97 LAL -.00 LOL 264.19 VL 26.514 GAL 1.30 AZL 93.74 HCA 230.84 SMA 127.17 ECC .19630 INC 3.734 V1 29.317
RP 107.48 LAP 2.90 LOP 134.97 VP 37.762 GAP 7.02 AZP 87.64 TAL 174.65 TAP 45.50 RCA 102.20 APO 152.13 V2 35.259
RC 133.537 GL -30.78 GP 4.34 ZAL 82.39 ZAP 153.89 ETS 9.25 ZAE 131.09 ETE 176.34 ZAC 103.01 ETC 16.03 CLP-154.23
PLANETOCENTRIC CONIC
C3 11.399 VHL 3.376 DLA -29.20 RAL 169.33 RAD 6567.4 VEL 11.523 PTH 2.01 VHP 5.119 DPA 14.67 RAP 165.25 ECC 1.1876

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.57	10 2 0	965.03	23.13	330.93	29.46	108.33	10 18 5	365.0	25.42	322.94
97.43	12 4 45	5856.27	23.14	279.73	29.46	108.32	13 42 21	5256.3	25.43	271.74
100.00	11 30 35	677.87	19.42	308.42	27.95	113.19	11 41 53	77.9	22.39	300.88
100.00	13 18 51	5618.67	26.96	263.35	30.66	103.42	14 52 30	5018.7	28.54	254.90
110.00	11 14 48	727.57	13.16	308.78	24.56	121.84	11 26 55	127.6	17.28	302.08
110.00	15 51 8	5141.72	33.93	228.43	31.93	94.46	17 16 50	4541.7	34.17	219.20

DIFFERENTIAL CORRECTIONS
TOE-2.0032 TRA .3339 TC3-5.8505 BAU .8920
ROE .1716 RRA .0373 RC3 -.1912 FAU .06504
FOE-2.0864 FRA .9598 FC3-4.9402 BSP 16451
BOE 2.0105 BRA .3360 BC3 5.8536 FSP -1452

MID-COURSE EXECUTION ACCURACY
SGT 5252.1 SGR 326.6 SG3 450.2
RRT -.2522 RRF -.2732 RTF .9657
SGB 5262.2 R23 .0297 R13 -.9657
SG1 5252.7 SG2 316.0 THA 179.10

ORBIT DETERMINATION ACCURACY
ST 3407.1 SR 292.0 SS 1586.0
CRT -.9902 CRS .9725 CST -.9950
LSA 3766.5 MSA 149.5 SSA 15.8
EL1 3419.4 EL2 40.7 ALF 175.15

LAUNCH DATE JUN 16 1967 FLIGHT TIME 176.00 ARRIVAL DATE DEC 9 1967

HELIOCENTRIC CONIC DISTANCE 500.041
RL 151.97 LAL -.00 LOL 264.19 VL 26.480 GAL 1.62 AZL 93.70 HCA 234.09 SMA 126.95 ECC .19904 INC 3.6962 V1 29.317
RP 107.48 LAP 2.99 LOP 138.22 VP 37.737 GAP 7.38 AZP 87.83 TAL 173.47 TAP 47.56 RCA 101.68 APO 152.21 V2 35.257
RC 135.709 GL -29.95 GP 4.01 ZAL 80.04 ZAP 155.48 ETS 9.09 ZAE 130.53 ETE 176.78 ZAC 101.48 ETC 15.64 CLP-155.79
PLANETOCENTRIC CONIC
C3 11.685 VHL 3.418 DLA -29.49 RAL 172.10 RAD 6567.4 VEL 11.536 PTH 2.01 VHP 5.294 DPA 13.72 RAP 166.72 ECC 1.1923

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.41	10 3 53	999.59	23.24	333.53	32.67	108.68	10 20 33	399.6	25.58	325.54
98.59	12 24 57	5832.04	23.25	277.98	32.67	108.66	14 2 9	5232.0	25.58	269.99
100.00	11 54 26	641.70	20.37	306.15	31.51	112.36	12 5 8	41.7	23.22	298.52
100.00	13 17 5	5665.16	26.19	266.58	33.65	104.96	14 51 30	5065.2	27.98	258.24
110.00	11 29 50	719.19	13.46	308.31	27.83	121.72	11 41 50	119.2	17.56	301.60
110.00	15 58 10	5160.43	33.82	229.88	35.22	95.31	17 24 10	4560.4	34.18	220.66

DIFFERENTIAL CORRECTIONS
TOE-2.0652 TRA .4681 TC3-5.8260 BAU .9107
ROE .1781 RRA .0425 RC3 -.2025 FAU .06042
FOE-1.9810 FRA 1.0190 FC3-4.4766 BSP 16808
BOE 2.0728 BRA .4701 BC3 5.8295 FSP -1378

MID-COURSE EXECUTION ACCURACY
SGT 5353.4 SGR 339.1 SG3 425.4
RRT -.2249 RRF -.2439 RTF .9656
SGB 5364.1 R23 .0265 R13 -.9657
SG1 5353.9 SG2 330.4 THA 179.18

ORBIT DETERMINATION ACCURACY
ST 3474.1 SR 299.6 SS 1543.1
CRT -.9861 CRS .9662 CST -.9952
LSA 3810.3 MSA 147.0 SSA 16.5
EL1 3486.7 EL2 49.6 ALF 175.14

LAUNCH DATE JUN 16 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 11 1967

HELIOCENTRIC CONIC DISTANCE 505.978
RL 151.97 LAL -.00 LOL 264.19 VL 26.445 GAL 1.95 AZL 93.66 HCA 237.34 SMA 126.72 ECC .20197 INC 3.6579 V1 29.317
RP 107.49 LAP 3.08 LOP 141.47 VP 37.711 GAP 7.75 AZP 88.02 TAL 172.27 TAP 49.61 RCA 101.13 APO 152.32 V2 35.255
RC 137.871 GL -29.07 GP 3.73 ZAL 77.65 ZAP 156.99 ETS 8.96 ZAE 130.02 ETE 177.15 ZAC 99.87 ETC 15.28 CLP-157.28
PLANETOCENTRIC CONIC
C3 12.041 VHL 3.470 DLA -29.76 RAL 174.92 RAD 6567.5 VEL 11.551 PTH 2.02 VHP 5.475 DPA 12.77 RAP 168.27 ECC 1.1982

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.44	10 7 39	1029.86	23.31	335.80	36.01	109.05	10 24 49	429.9	25.69	327.82
99.56	12 43 41	5814.37	23.32	276.69	36.01	109.03	14 20 35	5214.4	25.70	268.72
100.00	12 23 15	5879.64	21.63	280.88	35.34	111.15	14 1 15	5279.6	24.31	273.10
100.00	13 10 45	5727.86	25.01	270.87	36.61	106.92	14 46 13	5127.9	27.09	262.69
110.00	11 44 57	712.51	13.70	307.94	31.22	121.63	11 56 49	112.5	17.79	301.21
110.00	16 5 33	5179.71	33.69	231.37	38.65	96.19	17 31 53	4579.7	34.17	222.17

DIFFERENTIAL CORRECTIONS
TOE-2.1260 TRA .6122 TC3-5.7625 BAU .9282
ROE .1863 RRA .0473 RC3 -.2082 FAU .05609
FOE-1.8813 FRA 1.0734 FC3-4.0327 BSP 17144
BOE 2.1342 BRA .6140 BC3 5.7662 FSP -1309

MID-COURSE EXECUTION ACCURACY
SGT 5447.2 SGR 351.6 SG3 402.0
RRT -.2075 RRF -.2247 RTF .9656
SGB 5458.5 R23 .0241 R13 -.9656
SG1 5447.7 SG2 343.9 THA 179.23

ORBIT DETERMINATION ACCURACY
ST 3529.8 SR 308.8 SS 1498.4
CRT -.9815 CRS .9597 CST -.9954
LSA 3844.3 MSA 145.2 SSA 17.2
EL1 3542.8 EL2 58.9 ALF 175.09

LAUNCH DATE JUN 16 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 13 1967

HELIOCENTRIC CONIC DISTANCE 511.890
RL 151.97 LAL -.00 LOL 264.19 VL 26.410 GAL 2.29 AZL 93.62 HCA 240.59 SMA 126.50 ECC .20510 INC 3.6224 V1 29.317
RP 107.50 LAP 3.16 LOP 144.73 VP 37.684 GAP 8.12 AZP 88.22 TAL 171.05 TAP 51.64 RCA 100.56 APO 152.45 V2 35.253
RC 140.023 GL -28.17 GP 3.48 ZAL 75.23 ZAP 158.44 ETS 8.87 ZAE 129.56 ETE 177.46 ZAC 98.18 ETC 14.94 CLP-158.71
PLANETOCENTRIC CONIC
C3 12.472 VHL 3.532 DLA -30.00 RAL 177.78 RAD 6567.5 VEL 11.570 PTH 2.02 VHP 5.662 DPA 11.83 RAP 169.88 ECC 1.2053

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.65	10 12 58	1056.75	23.32	337.80	39.46	109.43	10 30 35	456.7	25.76	329.84
100.35	13 1 10	5802.40	23.33	275.81	39.46	109.41	14 37 53	5202.4	25.77	267.85
79.65	10 12 58	1056.75	23.32	337.80	39.46	109.43	10 30 35	456.7	25.76	329.84
100.35	13 1 10	5802.40	23.33	275.81	39.46	109.41	14 37 53	5202.4	25.77	267.85
110.00	11 59 55	708.02	13.86	307.69	34.71	121.56	12 11 43	108.0	17.94	300.95
110.00	16 13 23	5199.13	33.53	232.87	42.19	97.06	17 40 2	4599.1	34.15	223.68

DIFFERENTIAL CORRECTIONS
TOE-2.1833 TRA .7703 TC3-5.6531 BAU .9432
ROE .1959 RRA .0515 RC3 -.2092 FAU .05187
FOE-1.7848 FRA 1.1290 FC3-3.6005 BSP 17391
BOE 2.1921 BRA .7720 BC3 5.6569 FSP -1236

MID-COURSE EXECUTION ACCURACY
SGT 5529.2 SGR 363.5 SG3 379.8
RRT -.1973 RRF -.2131 RTF .9653
SGB 5541.1 R23 .0223 R13 -.9653
SG1 5529.7 SG2 356.4 THA 179.25

ORBIT DETERMINATION ACCURACY
ST 3570.5 SR 319.2 SS 1450.7
CRT -.9764 CRS .9526 CST -.9955
LSA 3864.4 MSA 145.0 SSA 17.7
EL1 3584.1 EL2 68.6 ALF 175.01

```
LAUNCH DATE  JUN 16 1967                          FLIGHT TIME 182.00                          ARRIVAL DATE  DEC 15 1967

  HELIOCENTRIC CONIC                              DISTANCE 517.775
   RL  151.97 LAL   -.00 LOL 264.19 VL  26.375 GAL   2.65 AZL  93.59 HCA 243.83 SMA 126.28 ECC .20845 INC 3.5890 VI  29.317
   RP  107.51 LAP   3.22 LOP 147.98 VP  37.656 GAP   8.50 AZP  88.42 TAL 169.82 TAP  53.65 RCA  99.95 APO 152.60 V2  35.249
   RC 142.165 GL  -27.24 GP    3.26 ZAL  72.79 ZAP 159.82 ETS   8.82 ZAE 129.15 ETE 177.72 ZAC  96.42 ETC  14.63 CLP-160.08
  PLANETOCENTRIC CONIC
   C3  12.987 VHL  3.604 DLA -30.21 RAL 180.67 RAD 6567.5 VEL 11.592 PTH   2.03 VHP  5.855 DPA  10.89 RAP 171.55 ECC 1.2137
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      79.01    10 19 39   1080.79      23.28     339.58      43.01      109.82   10 37 40     480.8       25.77      331.63
     100.99    13 17 30   5795.70      23.29     275.30      43.01      109.81   14 54  6    5195.7       25.78      267.35
      79.01    10 19 39   1080.79      23.28     339.58      43.01      109.82   10 37 40     480.8       25.77      331.63
     100.99    13 17 30   5795.70      23.29     275.30      43.01      109.81   14 54  6    5195.7       25.78      267.35
     110.00    12 14 35    706.21      13.93     307.59      38.27      121.54   12 26 21     106.2       18.00      300.85
     110.00    16 21 45   5218.27      33.36     234.34      45.83       97.91   17 48 43    4618.3       34.10      225.17
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE-2.2421 TRA  .9354 TC3-5.5177 BAU  .9587    SGT 5611.1 SGR  375.0 SG3  359.4         ST  3603.9 SR   330.6 SS  1404.7
   RDE  .2070 RRA  .0551 RC3 -.2058 FAU .04807    RRT -.1944 RRF -.2091 RTF  .9653         CRT -.9712 CRS  .9458 CST -.9957
   FDE-1.6975 FRA 1.1768 FC3-3.2043 BSP  17682    SGB 5623.6 R23  .0211 R13 -.9653         LSA 3879.3 MSA  145.3 SSA   18.1
   BDE 2.2516 BRA  .9370 BC3 5.5216 FSP  -1174    SG1 5611.6 SG2  367.8 THA 179.25         EL1 3618.1 EL2   78.4 ALF 174.91

LAUNCH DATE  JUN 16 1967                          FLIGHT TIME 184.00                          ARRIVAL DATE  DEC 17 1967

  HELIOCENTRIC CONIC                              DISTANCE 523.631
   RL  151.97 LAL   -.00 LOL 264.19 VL  26.339 GAL   3.04 AZL  93.56 HCA 247.08 SMA 126.05 ECC .21204 INC 3.5575 VI  29.317
   RP  107.52 LAP   3.28 LOP 151.23 VP  37.627 GAP   8.89 AZP  88.61 TAL 168.57 TAP  55.65 RCA  99.32 APO 152.78 V2  35.245
   RC 144.295 GL  -26.27 GP    3.06 ZAL  70.35 ZAP 161.15 ETS   8.82 ZAE 128.77 ETE 177.95 ZAC  94.60 ETC  14.34 CLP-161.39
  PLANETOCENTRIC CONIC
   C3  13.594 VHL  3.687 DLA -30.38 RAL 183.56 RAD 6567.5 VEL 11.618 PTH   2.04 VHP  6.055 DPA   9.94 RAP 173.26 ECC 1.2237
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      78.51    10 27 31   1102.40      23.17     341.15      46.64      110.22   10 45 54     502.4       25.71      333.23
     101.49    13 32 45   5793.90      23.18     275.12      46.65      110.20   15  9 18    5193.9       25.72      267.20
      78.51    10 27 31   1102.40      23.17     341.15      46.64      110.22   10 45 54     502.4       25.71      333.23
     101.49    13 32 45   5793.90      23.18     275.12      46.65      110.20   15  9 18    5193.9       25.72      267.20
     110.00    12 28 43    707.51      13.88     307.67      41.89      121.56   12 40 31     107.5       17.95      300.92
     110.00    16 30 43   5236.79      33.18     235.75      49.57       98.73   17 58  0    4636.8       34.03      226.62
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE-2.2993 TRA 1.1116 TC3-5.3514 BAU  .9732    SGT 5687.5 SGR  385.7 SG3  340.3         ST  3625.1 SR   342.6 SS  1358.1
   RDE  .2195 RRA  .0581 RC3 -.1987 FAU .04452    RRT -.1965 RRF -.2102 RTF  .9653         CRT -.9658 CRS  .9390 CST -.9959
   FDE-1.6151 FRA 1.2221 FC3-2.8353 BSP  17967    SGB 5700.6 R23  .0201 R13 -.9653         LSA 3883.5 MSA  146.8 SSA   18.2
   BDE 2.3098 BRA 1.1131 BC3 5.3550 FSP  -1117    SG1 5688.0 SG2  378.2 THA 179.23         EL1 3640.2 EL2   88.5 ALF 174.78

LAUNCH DATE  JUN 16 1967                          FLIGHT TIME 186.00                          ARRIVAL DATE  DEC 19 1967

  HELIOCENTRIC CONIC                              DISTANCE 529.456
   RL  151.97 LAL   -.00 LOL 264.19 VL  26.304 GAL   3.44 AZL  93.53 HCA 250.32 SMA 125.83 ECC .21588 INC 3.5274 VI  29.317
   RP  107.53 LAP   3.32 LOP 154.48 VP  37.598 GAP   9.28 AZP  88.81 TAL 167.31 TAP  57.63 RCA  98.66 APO 152.99 V2  35.240
   RC 146.414 GL  -25.29 GP    2.89 ZAL  67.91 ZAP 162.43 ETS   8.86 ZAE 128.42 ETE 178.14 ZAC  92.74 ETC  14.08 CLP-162.66
  PLANETOCENTRIC CONIC
   C3  14.304 VHL  3.782 DLA -30.50 RAL 186.46 RAD 6567.6 VEL 11.649 PTH   2.04 VHP  6.263 DPA   8.99 RAP 175.03 ECC 1.2354
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      78.16    10 36 29   1121.75      23.00     342.52      50.35      110.61   10 55 11     521.7       25.59      334.64
     101.84    13 46 51   5796.92      23.01     275.27      50.35      110.60   15 23 28    5196.9       25.60      267.38
      78.16    10 36 29   1121.75      23.00     342.52      50.35      110.61   10 55 11     521.7       25.59      334.64
     101.84    13 46 51   5796.92      23.01     275.27      50.35      110.60   15 23 28    5196.9       25.60      267.38
     110.00    12 42 12    712.27      13.71     307.93      45.56      121.62   12 54  5     112.3       17.79      301.20
     110.00    16 40 19   5254.39      32.99     237.09      53.39       99.50   18  7 53    4654.4       33.95      227.99
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE-2.3545 TRA 1.2994 TC3-5.1537 BAU  .9862    SGT 5756.7 SGR  395.6 SG3  322.3         ST  3633.9 SR   354.9 SS  1311.3
   RDE  .2333 RRA  .0603 RC3 -.1888 FAU .04114    RRT -.2027 RRF -.2158 RTF  .9653         CRT -.9602 CRS  .9322 CST -.9960
   FDE-1.5375 FRA 1.2650 FC3-2.4899 BSP  18225    SGB 5770.2 R23  .0196 R13 -.9653         LSA 3876.7 MSA  149.2 SSA   18.3
   BDE 2.3660 BRA 1.3008 BC3 5.1572 FSP  -1063    SG1 5757.2 SG2  387.4 THA 179.20         EL1 3649.9 EL2   98.7 ALF 174.64

LAUNCH DATE  JUN 16 1967                          FLIGHT TIME 188.00                          ARRIVAL DATE  DEC 21 1967

  HELIOCENTRIC CONIC                              DISTANCE 535.249
   RL  151.97 LAL   -.00 LOL 264.19 VL  26.268 GAL   3.86 AZL  93.50 HCA 253.57 SMA 125.60 ECC .22000 INC 3.4986 VI  29.317
   RP  107.55 LAP   3.36 LOP 157.73 VP  37.567 GAP   9.69 AZP  89.01 TAL 166.04 TAP  59.60 RCA  97.97 APO 153.23 V2  35.234
   RC 148.521 GL  -24.28 GP    2.74 ZAL  65.49 ZAP 163.66 ETS   8.95 ZAE 128.10 ETE 178.30 ZAC  90.82 ETC  13.84 CLP-163.89
  PLANETOCENTRIC CONIC
   C3  15.129 VHL  3.890 DLA -30.58 RAL 189.33 RAD 6567.6 VEL 11.684 PTH   2.05 VHP  6.478 DPA   8.03 RAP 176.83 ECC 1.2490
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      77.95    10 46 24   1139.18      22.75     343.73      54.11      111.00   11  5 23     539.2       25.40      335.87
     102.05    13 59 53   5804.45      22.76     275.74      54.11      110.99   15 36 38    5204.4       25.41      267.88
      77.95    10 46 24   1139.18      22.75     343.73      54.11      111.00   11  5 23     539.2       25.40      335.87
     102.05    13 59 53   5804.45      22.76     275.74      54.11      110.99   15 36 38    5204.4       25.41      267.88
     110.00    12 54 53    720.75      13.41     308.40      49.24      121.74   13  6 54     120.8       17.51      301.69
     110.00    16 50 34   5270.87      32.80     238.34      57.28      100.22   18 18 25    4670.9       33.86      229.26
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE-2.4040 TRA 1.5025 TC3-4.9235 BAU  .9965    SGT 5815.4 SGR  404.6 SG3  305.3         ST  3626.1 SR   367.0 SS  1262.2
   RDE  .2482 RRA  .0614 RC3 -.1769 FAU .03784    RRT -.2115 RRF -.2237 RTF  .9651         CRT -.9543 CRS  .9249 CST -.9961
   FDE-1.4609 FRA 1.3090 FC3-2.1653 BSP  18390    SGB 5829.4 R23  .0190 R13 -.9651         LSA 3853.9 MSA  153.2 SSA   18.1
   BDE 2.4168 BRA 1.5037 BC3 4.9267 FSP  -1007    SG1 5816.0 SG2  395.4 THA 179.15         EL1 3642.9 EL2  109.2 ALF 174.48
```

LAUNCH DATE JUN 16 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 23 1967

HELIOCENTRIC CONIC DISTANCE 541.005
RL 151.97 LAL -.00 LOL 264.19 VL 26.232 GAL 4.31 AZL 93.47 HCA 256.81 SMA 125.38 ECC .22441 INC 3.4707 V1 29.317
RP 107.57 LAP 3.38 LOP 160.97 VP 37.536 GAP 10.11 AZP 89.21 TAL 164.76 TAP 61.57 RCA 97.24 APO 153.52 V2 35.228
RC 150.615 GL -23.26 GP 2.60 ZAL 63.10 ZAP 164.86 ETS 9.11 ZAE 127.81 ETE 178.44 ZAC 88.87 ETC 13.63 CLP-165.08
PLANETOCENTRIC CONIC
C3 16.082 VHL 4.010 DLA -30.60 RAL 192.17 RAD 6567.6 VEL 11.725 PTH 2.07 VHP 6.703 DPA 7.07 RAP 178.66 ECC 1.2647

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.88	10 57 13	1154.65	22.43	344.75	57.91	111.39	11 16 27	554.6	25.13	336.94
102.12	14 11 45	5816.57	22.44	276.51	57.91	111.38	15 48 42	5216.6	25.14	268.70
77.88	10 57 13	1154.65	22.43	344.75	57.91	111.39	11 16 27	554.6	25.13	336.94
102.12	14 11 45	5816.57	22.44	276.51	57.91	111.38	15 48 42	5216.6	25.14	268.70
110.00	13 6 40	733.13	12.96	309.08	52.93	121.91	13 18 53	133.1	17.09	302.40
110.00	17 1 29	5286.09	32.61	239.49	61.22	100.87	18 29 35	4686.1	33.76	230.44

DIFFERENTIAL CORRECTIONS
TDE-2.4548 TRA 1.7141 TC3-4.6823 BAU 1.0073
RDE .2644 RRA .0616 RC3 -.1632 FAU .03488
FDE-1.3918 FRA 1.3480 FC3-1.8774 BSP 18618
BDE 2.4690 BRA 1.7152 BC3 4.6852 FSP -959

MID-COURSE EXECUTION ACCURACY
SGT 5873.7 SGR 412.7 SG3 289.5
RRT -.2237 RRF -.2352 RTF .9651
SGB 5888.2 R23 .0187 R13 -.9652
SG1 5874.4 SG2 402.2 THA 179.10

ORBIT DETERMINATION ACCURACY
ST 3611.4 SR 379.1 SS 1215.8
CRT -.9485 CRS .9180 CST -.9962
LSA 3826.1 MSA 157.6 SSA 17.9
EL1 3629.3 EL2 119.5 ALF 174.31

LAUNCH DATE JUN 16 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 25 1967

HELIOCENTRIC CONIC DISTANCE 546.722
RL 151.97 LAL -.00 LOL 264.19 VL 26.196 GAL 4.77 AZL 93.44 HCA 260.05 SMA 125.16 ECC .22915 INC 3.4435 V1 29.317
RP 107.59 LAP 3.39 LOP 164.22 VP 37.505 GAP 10.54 AZP 89.40 TAL 163.47 TAP 63.53 RCA 96.48 APO 153.83 V2 35.221
RC 152.696 GL -22.23 GP 2.48 ZAL 60.75 ZAP 166.02 ETS 9.33 ZAE 127.54 ETE 178.55 ZAC 86.88 ETC 13.44 CLP-166.23
PLANETOCENTRIC CONIC
C3 17.179 VHL 4.145 DLA -30.58 RAL 194.97 RAD 6567.7 VEL 11.771 PTH 2.08 VHP 6.938 DPA 6.10 RAP 180.52 ECC 1.2827

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.94	11 8 50	1168.32	22.03	345.61	61.73	111.76	11 28 18	568.3	24.79	337.84
102.06	14 22 27	5833.16	22.04	277.58	61.74	111.75	15 59 40	5233.2	24.80	269.81
77.94	11 8 50	1168.32	22.03	345.61	61.73	111.76	11 28 18	568.3	24.79	337.84
102.06	14 22 27	5833.16	22.04	277.58	61.74	111.75	15 59 40	5233.2	24.80	269.81
110.00	13 17 28	749.43	12.37	309.98	56.60	122.12	13 29 57	149.4	16.53	303.34
110.00	17 13 0	5300.05	32.43	240.53	65.21	101.47	18 41 20	4700.1	33.66	231.52

DIFFERENTIAL CORRECTIONS
TDE-2.5032 TRA 1.9391 TC3-4.4239 BAU 1.0166
RDE .2817 RRA .0607 RC3 -.1485 FAU .03206
FDE-1.3264 FRA 1.3862 FC3-1.6154 BSP 18831
BDE 2.5190 BRA 1.9401 BC3 4.4264 FSP -915

MID-COURSE EXECUTION ACCURACY
SGT 5926.0 SGR 419.9 SG3 274.7
RRT -.2382 RRF -.2489 RTF .9652
SGB 5940.9 R23 .0184 R13 -.9652
SG1 5926.9 SG2 407.8 THA 179.03

ORBIT DETERMINATION ACCURACY
ST 3585.9 SR 390.6 SS 1169.9
CRT -.9424 CRS .9109 CST -.9963
LSA 3788.5 MSA 162.9 SSA 17.5
EL1 3604.8 EL2 129.9 ALF 174.13

LAUNCH DATE JUN 16 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 27 1967

HELIOCENTRIC CONIC DISTANCE 552.395
RL 151.97 LAL -.00 LOL 264.19 VL 26.160 GAL 5.27 AZL 93.42 HCA 263.29 SMA 124.93 ECC .23424 INC 3.4169 V1 29.317
RP 107.62 LAP 3.39 LOP 167.47 VP 37.472 GAP 10.99 AZP 89.60 TAL 162.19 TAP 65.48 RCA 95.67 APO 154.20 V2 35.214
RC 154.762 GL -21.20 GP 2.37 ZAL 58.45 ZAP 167.15 ETS 9.64 ZAE 127.29 ETE 178.65 ZAC 84.86 ETC 13.27 CLP-167.36
PLANETOCENTRIC CONIC
C3 18.440 VHL 4.294 DLA -30.51 RAL 197.71 RAD 6567.7 VEL 11.825 PTH 2.09 VHP 7.184 DPA 5.13 RAP 182.41 ECC 1.3035

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.13	11 21 11	1180.28	21.57	346.30	65.57	112.12	11 40 51	580.3	24.38	338.58
101.87	14 31 57	5854.15	21.58	278.95	65.58	112.11	16 9 31	5254.2	24.39	271.23
78.13	11 21 11	1180.28	21.57	346.30	65.57	112.12	11 40 51	580.3	24.38	338.58
101.87	14 31 57	5854.15	21.58	278.95	65.58	112.11	16 9 31	5254.2	24.39	271.23
110.00	13 27 16	769.59	11.64	311.08	60.25	122.37	13 40 6	169.6	15.83	304.48
110.00	17 25 2	5312.83	32.25	241.49	69.24	102.01	18 53 35	4712.8	33.56	232.50

DIFFERENTIAL CORRECTIONS
TDE-2.5491 TRA 2.1779 TC3-4.1527 BAU 1.0243
RDE .3001 RRA .0585 RC3 -.1333 FAU .02939
FDE-1.2645 FRA 1.4237 FC3-1.3797 BSP 19020
BDE 2.5667 BRA 2.1787 BC3 4.1549 FSP -873

MID-COURSE EXECUTION ACCURACY
SGT 5972.1 SGR 426.2 SG3 260.8
RRT -.2544 RRF -.2642 RTF .9653
SGB 5987.3 R23 .0180 R13 -.9653
SG1 5973.1 SG2 412.1 THA 178.96

ORBIT DETERMINATION ACCURACY
ST 3550.2 SR 401.3 SS 1125.1
CRT -.9362 CRS .9037 CST -.9964
LSA 3741.9 MSA 168.8 SSA 17.1
EL1 3570.0 EL2 140.2 ALF 173.95

LAUNCH DATE JUN 16 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 29 1967

HELIOCENTRIC CONIC DISTANCE 558.022
RL 151.97 LAL -.00 LOL 264.19 VL 26.124 GAL 5.79 AZL 93.39 HCA 266.53 SMA 124.71 ECC .23971 INC 3.3907 V1 29.317
RP 107.64 LAP 3.38 LOP 170.71 VP 37.439 GAP 11.46 AZP 89.79 TAL 160.90 TAP 67.43 RCA 94.82 APO 154.61 V2 35.205
RC 156.813 GL -20.16 GP 2.27 ZAL 56.20 ZAP 168.25 ETS 10.05 ZAE 127.05 ETE 178.73 ZAC 82.81 ETC 13.13 CLP-168.47
PLANETOCENTRIC CONIC
C3 19.885 VHL 4.459 DLA -30.40 RAL 200.38 RAD 6567.8 VEL 11.886 PTH 2.11 VHP 7.442 DPA 4.16 RAP 184.32 ECC 1.3273

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.46	11 34 14	1190.46	21.03	346.82	69.41	112.47	11 54 4	590.5	23.89	339.16
101.54	14 40 12	5879.60	21.04	280.62	69.42	112.46	16 18 11	5279.6	23.90	272.95
78.46	11 34 14	1190.46	21.03	346.82	69.41	112.47	11 54 4	590.5	23.89	339.16
101.54	14 40 12	5879.60	21.04	280.62	69.42	112.46	16 18 11	5279.6	23.90	272.95
110.00	13 36 5	793.45	10.77	312.38	63.86	122.64	13 49 19	193.5	15.00	305.83
110.00	17 37 31	5324.60	32.08	242.36	73.29	102.50	19 6 15	4724.6	33.47	233.41

DIFFERENTIAL CORRECTIONS
TDE-2.5897 TRA 2.4340 TC3-3.8671 BAU 1.0285
RDE .3193 RRA .0550 RC3 -.1183 FAU .02675
FDE-1.2043 FRA 1.4625 FC3-1.1647 BSP 19118
BDE 2.6093 BRA 2.4346 BC3 3.8689 FSP -829

MID-COURSE EXECUTION ACCURACY
SGT 6009.5 SGR 431.4 SG3 247.7
RRT -.2715 RRF -.2802 RTF .9653
SGB 6024.9 R23 .0175 R13 -.9653
SG1 6010.6 SG2 415.1 THA 178.88

ORBIT DETERMINATION ACCURACY
ST 3502.3 SR 411.0 SS 1080.3
CRT -.9296 CRS .8959 CST -.9964
LSA 3683.9 MSA 175.6 SSA 16.7
EL1 3523.1 EL2 150.6 ALF 173.76

LAUNCH DATE JUN 16 1967 FLIGHT TIME 198.00 ARRIVAL DATE DEC 31 1967

HELIOCENTRIC CONIC DISTANCE 563.594
RL 151.97 LAL -.00 LOL 264.19 VL 26.088 GAL 6.34 AZL 93.36 HCA 269.77 SMA 124.49 ECC .24561 INC 3.3647 V1 29.317
RP 107.67 LAP 3.36 LOP 173.96 VP 37.406 GAP 11.95 AZP 89.99 TAL 159.61 TAP 69.38 RCA 93.92 APO 155.07 V2 35.197
RC 158.850 GL -19.14 GP 2.18 ZAL 54.01 ZAP 169.32 ETS 10.60 ZAE 126.83 ETE 178.80 ZAC 80.74 ETC 13.01 CLP-169.55
PLANETOCENTRIC CONIC
C3 21.540 VHL 4.641 DLA -30.24 RAL 202.97 RAD 6567.9 VEL 11.955 PTH 2.13 VHP 7.714 DPA 3.19 RAP 186.24 ECC 1.3545

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.93	11 48 1	1198.65	20.42	347.17	73.24	112.79	12 7 59	598.7	23.34	339.55
101.07	14 47 5	621.64	20.44	304.69	73.25	112.78	14 57 27	21.6	23.35	297.08
78.93	11 48 1	1198.65	20.42	347.17	73.24	112.79	12 7 59	598.7	23.34	339.55
101.07	14 47 5	621.64	20.44	304.69	73.25	112.78	14 57 27	21.6	23.35	297.08
110.00	13 43 57	820.77	9.76	313.85	67.42	122.92	13 57 38	220.8	14.03	307.36
110.00	17 50 19	5335.56	31.91	243.18	77.36	102.95	19 19 14	4735.6	33.37	234.25

DIFFERENTIAL CORRECTIONS
TDE-2.6326 TRA 2.7015 TC3-3.5860 BAU 1.0331
RDE .3394 RRA .0502 RC3 -.1034 FAU .02437
FDE-1.1503 FRA 1.4988 FC3 -.9796 BSP 19288
BDE 2.6544 BRA 2.7020 BC3 3.5875 FSP -792

MID-COURSE EXECUTION ACCURACY
SGT 6045.2 SGR 435.8 SG3 235.5
RRT -.2906 RRF -.2982 RTF .9655
SGB 6060.9 R23 .0170 R13 -.9655
SG1 6046.5 SG2 416.9 THA 178.79

ORBIT DETERMINATION ACCURACY
ST 3451.6 SR 419.6 SS 1039.0
CRT -.9229 CRS .8885 CST -.9965
LSA 3624.3 MSA 182.3 SSA 16.2
EL1 3473.3 EL2 160.5 ALF 173.58

LAUNCH DATE JUN 16 1967 FLIGHT TIME 200.00 ARRIVAL DATE JAN 2 1968

HELIOCENTRIC CONIC DISTANCE 569.107
RL 151.97 LAL -.00 LOL 264.19 VL 26.052 GAL 6.93 AZL 93.34 HCA 273.00 SMA 124.27 ECC .25197 INC 3.3386 V1 29.317
RP 107.70 LAP 3.33 LOP 177.20 VP 37.372 GAP 12.46 AZP 90.18 TAL 158.32 TAP 71.33 RCA 92.96 APO 155.59 V2 35.187
RC 160.871 GL -18.13 GP 2.10 ZAL 51.89 ZAP 170.38 ETS 11.31 ZAE 126.62 ETE 178.85 ZAC 78.66 ETC 12.91 CLP-170.61
PLANETOCENTRIC CONIC
C3 23.434 VHL 4.841 DLA -30.04 RAL 205.47 RAD 6568.0 VEL 12.034 PTH 2.15 VHP 8.002 DPA 2.22 RAP 188.19 ECC 1.3857

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.53	12 2 35	1204.52	19.76	347.30	77.05	113.10	12 22 39	604.5	22.71	339.74
100.47	14 52 30	656.68	19.77	307.00	77.06	113.09	15 3 26	56.7	22.73	299.44
79.53	12 2 35	1204.52	19.76	347.30	77.05	113.10	12 22 39	604.5	22.71	339.74
100.47	14 52 30	656.68	19.77	307.00	77.06	113.09	15 3 26	56.7	22.73	299.44
110.00	13 50 56	851.28	8.63	315.49	70.93	123.20	14 5 7	251.3	12.94	309.05
110.00	18 3 19	5345.97	31.75	243.95	81.43	103.38	19 32 25	4746.0	33.27	235.04

DIFFERENTIAL CORRECTIONS
TDE-2.6742 TRA 2.9848 TC3-3.3039 BAU 1.0354
RDE .3604 RRA .0438 RC3 -.0892 FAU .02211
FDE-1.1001 FRA 1.5351 FC3 -.8168 BSP 19446
BDE 2.6984 BRA 2.9851 BC3 3.3051 FSP -757

MID-COURSE EXECUTION ACCURACY
SGT 6074.8 SGR 439.3 SG3 224.1
RRT -.3108 RRF -.3172 RTF .9658
SGB 6090.7 R23 .0164 R13 -.9658
SG1 6076.4 SG2 417.4 THA 178.71

ORBIT DETERMINATION ACCURACY
ST 3395.0 SR 426.9 SS 1000.1
CRT -.9161 CRS .8809 CST -.9966
LSA 3559.9 MSA 189.1 SSA 15.7
EL1 3417.6 EL2 170.0 ALF 173.41

LAUNCH DATE JUN 16 1967 FLIGHT TIME 202.00 ARRIVAL DATE JAN 4 1968

HELIOCENTRIC CONIC DISTANCE 574.553
RL 151.97 LAL -.00 LOL 264.19 VL 26.016 GAL 7.55 AZL 93.31 HCA 276.24 SMA 124.06 ECC .25884 INC 3.3125 V1 29.317
RP 107.73 LAP 3.29 LOP 180.44 VP 37.338 GAP 12.99 AZP 90.36 TAL 157.05 TAP 73.28 RCA 91.95 APO 156.17 V2 35.178
RC 162.878 GL -17.13 GP 2.02 ZAL 49.85 ZAP 171.42 ETS 12.26 ZAE 126.41 ETE 178.90 ZAC 76.56 ETC 12.85 CLP-171.66
PLANETOCENTRIC CONIC
C3 25.602 VHL 5.060 DLA -29.80 RAL 207.88 RAD 6568.0 VEL 12.123 PTH 2.17 VHP 8.307 DPA 1.24 RAP 190.15 ECC 1.4214

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.30	12 18 2	1207.66	19.03	347.20	80.84	113.38	12 38 9	607.7	22.03	339.70
99.70	14 56 17	697.03	19.04	309.67	80.85	113.37	15 7 54	97.0	22.04	302.17
100.00	14 38 59	752.30	17.36	312.99	80.06	114.73	14 51 31	152.3	20.55	305.64
100.00	15 18 1	627.62	20.73	305.27	81.60	112.03	15 28 28	27.6	23.54	297.59
110.00	13 57 4	884.65	7.38	317.27	74.38	123.47	14 11 49	284.7	11.73	310.88
110.00	18 16 25	5356.08	31.59	244.69	85.50	103.79	19 45 41	4756.1	33.16	235.82

DIFFERENTIAL CORRECTIONS
TDE-2.7145 TRA 3.2855 TC3-3.0241 BAU 1.0354
RDE .3820 RRA .0358 RC3 -.0760 FAU .01994
FDE-1.0531 FRA 1.5721 FC3 -.6743 BSP 19578
BDE 2.7412 BRA 3.2857 BC3 3.0251 FSP -723

MID-COURSE EXECUTION ACCURACY
SGT 6098.8 SGR 441.8 SG3 213.3
RRT -.3317 RRF -.3368 RTF .9662
SGB 6114.8 R23 .0157 R13 -.9662
SG1 6100.6 SG2 416.7 THA 178.62

ORBIT DETERMINATION ACCURACY
ST 3333.3 SR 432.8 SS 963.2
CRT -.9090 CRS .8731 CST -.9967
LSA 3491.0 MSA 195.9 SSA 15.3
EL1 3356.5 EL2 179.1 ALF 173.25

LAUNCH DATE JUN 16 1967 FLIGHT TIME 204.00 ARRIVAL DATE JAN 6 1968

HELIOCENTRIC CONIC DISTANCE 579.923
RL 151.97 LAL -.00 LOL 264.19 VL 25.981 GAL 8.21 AZL 93.29 HCA 279.47 SMA 123.85 ECC .26628 INC 3.2860 V1 29.317
RP 107.76 LAP 3.24 LOP 183.67 VP 37.304 GAP 13.56 AZP 90.54 TAL 155.78 TAP 75.25 RCA 90.87 APO 156.82 V2 35.167
RC 164.869 GL -16.15 GP 1.96 ZAL 47.88 ZAP 172.44 ETS 13.52 ZAE 126.20 ETE 178.93 ZAC 74.45 ETC 12.81 CLP-172.70
PLANETOCENTRIC CONIC
C3 28.087 VHL 5.300 DLA -29.53 RAL 210.20 RAD 6568.1 VEL 12.225 PTH 2.20 VHP 8.632 DPA .28 RAP 192.11 ECC 1.4622

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.24	12 34 31	1207.38	18.24	346.82	84.59	113.63	12 54 39	607.4	21.28	339.38
98.76	14 58 14	743.30	18.26	312.74	84.60	113.62	15 10 37	143.3	21.30	305.30
100.00	14 28 46	837.60	14.86	318.09	82.95	116.24	14 42 44	237.6	18.26	310.95
100.00	15 46 40	5876.35	21.71	280.67	86.11	111.06	17 24 37	5276.4	24.38	272.89
110.00	14 2 26	920.59	6.03	319.17	77.78	123.71	14 17 47	320.6	10.42	312.83
110.00	18 29 30	5366.12	31.43	245.43	89.56	104.20	19 58 56	4766.1	33.06	236.58

DIFFERENTIAL CORRECTIONS
TDE-2.7505 TRA 3.6084 TC3-2.7434 BAU 1.0304
RDE .4041 RRA .0261 RC3 -.0640 FAU .01777
FDE-1.0077 FRA 1.6119 FC3 -.5477 BSP 19598
BDE 2.7800 BRA 3.6085 BC3 2.7442 FSP -687

MID-COURSE EXECUTION ACCURACY
SGT 6115.6 SGR 443.3 SG3 203.3
RRT -.3528 RRF -.3563 RTF .9666
SGB 6131.6 R23 .0147 R13 -.9666
SG1 6117.6 SG2 414.6 THA 178.53

ORBIT DETERMINATION ACCURACY
ST 3264.8 SR 437.0 SS 927.9
CRT -.9013 CRS .8645 CST -.9968
LSA 3416.1 MSA 202.8 SSA 14.8
EL1 3288.5 EL2 188.0 ALF 173.10

LAUNCH DATE JUN 16 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 8 1968

DISTANCE 585.206

HELIOCENTRIC CONIC
RL 151.97 LAL -.00 LOL 264.19 VL 25.945 GAL 8.91 AZL 93.26 HCA 282.70 SMA 123.63 ECC .27434 INC 3.2591 V1 29.317
RP 107.79 LAP 3.18 LOP 186.91 VP 37.269 GAP 14.16 AZP 90.72 TAL 154.53 TAP 77.23 RCA 89.72 APO 157.55 V2 35.156
RC 166.846 GL -15.19 GP 1.90 ZAL 45.99 ZAP 173.45 ETS 15.23 ZAE 126.00 ETE 178.96 ZAC 72.34 ETC 12.80 CLP-173.73

PLANETOCENTRIC CONIC
C3 30.937 VHL 5.562 DLA -29.23 RAL 212.41 RAO 6568.2 VEL 12.341 PTH 2.23 VHP 8.978 DPA -.69 RAP 194.09 ECC 1.5091

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.42	12 52 35	1201.88	17.41	346.03	88.31	113.86	13 12 37	601.9	20.49	338.64
97.58	14 57 47	797.19	17.42	316.34	88.31	113.85	15 11 5	197.2	20.50	308.95
100.00	14 23 50	906.14	12.76	322.09	86.00	117.26	14 38 56	306.1	16.31	315.10
100.00	16 9 14	5856.20	22.20	279.37	90.39	110.55	17 46 50	5256.2	24.80	271.53
110.00	14 7 6	958.80	4.58	321.18	81.12	123.91	14 23 5	358.8	9.00	314.88
110.00	18 42 27	5376.30	31.25	246.17	93.59	104.61	20 12 3	4776.3	32.94	237.35

DIFFERENTIAL CORRECTIONS
TDE-2.7916 TRA 3.9462 TC3-2.4778 BAU 1.0251
RDE .4268 RRA .0147 RC3 -.0531 FAU .01581
FDE -.9684 FRA 1.6503 FC3 -.4424 BSP 19713
BDE 2.8241 BRA 3.9463 BC3 2.4784 FSP -657

MID-COURSE EXECUTION ACCURACY
SGT 6129.2 SGR 444.0 SG3 193.8
RRT -.3751 RRF -.3772 RTF .9673
SGB 6145.3 R23 .0137 R13 -.9673
SG1 6131.5 SG2 411.4 THA 178.44

ORBIT DETERMINATION ACCURACY
ST 3198.3 SR 439.7 SS 896.9
CRT -.8938 CRS .8567 CST -.9969
LSA 3344.2 MSA 208.9 SSA 14.3
EL1 3222.5 EL2 195.8 ALF 172.97

LAUNCH DATE JUN 16 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 10 1968

DISTANCE 590.389

HELIOCENTRIC CONIC
RL 151.97 LAL -.00 LOL 264.19 VL 25.911 GAL 9.66 AZL 93.23 HCA 285.93 SMA 123.43 ECC .28311 INC 3.2314 V1 29.317
RP 107.83 LAP 3.11 LOP 190.14 VP 37.234 GAP 14.80 AZP 90.89 TAL 153.30 TAP 79.22 RCA 88.48 APO 158.37 V2 35.145
RC 168.808 GL -14.25 GP 1.84 ZAL 44.19 ZAP 174.44 ETS 17.65 ZAE 125.79 ETE 178.98 ZAC 70.22 ETC 12.81 CLP-174.76

PLANETOCENTRIC CONIC
C3 34.212 VHL 5.849 DLA -28.91 RAL 214.51 RAO 6568.3 VEL 12.473 PTH 2.26 VHP 9.349 DPA -1.64 RAP 196.07 ECC 1.5630

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.94	13 13 9	1188.04	16.53	344.60	91.98	114.05	13 32 57	588.0	19.64	337.27
96.06	14 54 0	861.71	16.54	320.69	91.98	114.05	15 8 22	261.7	19.65	313.35
100.00	14 20 31	969.45	10.75	325.72	89.07	118.06	14 36 41	369.4	14.42	318.86
100.00	16 29 20	5843.57	22.50	278.55	94.55	110.22	18 6 43	5243.6	25.05	270.68
110.00	14 11 8	999.00	3.05	323.29	84.40	124.06	14 27 47	399.0	7.50	317.03
110.00	18 55 13	5386.79	31.07	246.93	97.60	105.03	20 25 0	4786.8	32.82	238.15

DIFFERENTIAL CORRECTIONS
TDE-2.8335 TRA 4.3056 TC3-2.2213 BAU 1.0161
RDE .4500 RRA .0015 RC3 -.0434 FAU .01393
FDE -.9325 FRA 1.6905 FC3 -.3524 BSP 19812
BDE 2.8690 BRA 4.3056 BC3 2.2217 FSP -629

MID-COURSE EXECUTION ACCURACY
SGT 6137.4 SGR 443.7 SG3 185.0
RRT -.3979 RRF -.3985 RTF .9682
SGB 6153.4 R23 .0127 R13 -.9682
SG1 6140.0 SG2 406.9 THA 178.34

ORBIT DETERMINATION ACCURACY
ST 3130.3 SR 440.8 SS 868.7
CRT -.8861 CRS .8487 CST -.9970
LSA 3271.4 MSA 214.4 SSA 13.9
EL1 3154.7 EL2 202.8 ALF 172.86

LAUNCH DATE JUN 16 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 12 1968

DISTANCE 595.457

HELIOCENTRIC CONIC
RL 151.97 LAL -.00 LOL 264.19 VL 25.876 GAL 10.47 AZL 93.20 HCA 289.15 SMA 123.22 ECC .29265 INC 3.2029 V1 29.317
RP 107.86 LAP 3.03 LOP 193.37 VP 37.199 GAP 15.48 AZP 91.05 TAL 152.09 TAP 81.24 RCA 87.16 APO 159.28 V2 35.134
RC 170.753 GL -13.34 GP 1.79 ZAL 42.47 ZAP 175.42 ETS 21.22 ZAE 125.57 ETE 178.99 ZAC 68.11 ETC 12.86 CLP-175.79

PLANETOCENTRIC CONIC
C3 37.983 VHL 6.163 DLA -28.56 RAL 216.50 RAO 6568.5 VEL 12.623 PTH 2.29 VHP 9.748 DPA -2.58 RAP 198.06 ECC 1.6251

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
86.15	13 39 14	1155.91	15.61	341.81	95.59	114.22	13 58 30	555.9	18.75	334.53
93.85	14 43 50	946.66	15.62	326.50	95.60	114.21	14 59 37	346.7	18.76	319.21
100.00	14 17 57	1030.24	8.79	329.16	92.12	118.69	14 35 7	430.2	12.55	322.40
100.00	16 47 49	5835.60	22.69	278.03	98.63	110.00	18 25 5	5235.6	25.21	270.14
110.00	14 14 33	1040.92	1.45	325.48	87.63	124.16	14 31 54	440.9	5.92	319.24
110.00	19 7 42	5397.69	30.88	247.72	101.56	105.46	20 37 40	4797.7	32.68	238.97

DIFFERENTIAL CORRECTIONS
TDE-2.8770 TRA 4.6881 TC3-1.9754 BAU 1.0033
RDE .4735 RRA -.0137 RC3 -.0350 FAU .01210
FDE -.9000 FRA 1.7328 FC3 -.2759 BSP 19892
BDE 2.9158 BRA 4.6882 BC3 1.9757 FSP -602

MID-COURSE EXECUTION ACCURACY
SGT 6140.5 SGR 442.6 SG3 176.6
RRT -.4210 RRF -.4202 RTF .9692
SGB 6156.4 R23 .0115 R13 -.9692
SG1 6143.3 SG2 401.3 THA 178.25

ORBIT DETERMINATION ACCURACY
ST 3061.9 SR 440.3 SS 843.5
CRT -.8782 CRS .8408 CST -.9972
LSA 3198.8 MSA 219.2 SSA 13.4
EL1 3086.4 EL2 208.9 ALF 172.77

LAUNCH DATE JUN 16 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 14 1968

DISTANCE 600.390

HELIOCENTRIC CONIC
RL 151.97 LAL -.00 LOL 264.19 VL 25.842 GAL 11.33 AZL 93.17 HCA 292.38 SMA 123.02 ECC .30307 INC 3.1732 V1 29.317
RP 107.90 LAP 2.93 LOP 196.60 VP 37.164 GAP 16.21 AZP 91.21 TAL 150.91 TAP 83.29 RCA 85.73 APO 160.30 V2 35.122
RC 172.686 GL -12.45 GP 1.74 ZAL 40.84 ZAP 176.37 ETS 26.83 ZAE 125.35 ETE 179.00 ZAC 66.00 ETC 12.94 CLP-176.82

PLANETOCENTRIC CONIC
C3 42.337 VHL 6.507 DLA -28.19 RAL 218.39 RAO 6568.6 VEL 12.795 PTH 2.33 VHP 10.179 DPA -3.52 RAP 200.04 ECC 1.6968

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 55 5	1156.51	12.49	340.36	98.11	115.62	14 14 21	556.5	15.83	333.28
90.00	14 43 3	1000.88	16.87	331.04	100.16	113.09	14 59 44	400.9	19.85	323.63
100.00	14 15 45	1089.63	6.83	332.49	95.14	119.17	14 33 54	489.6	10.67	325.80
100.00	17 5 4	5831.03	22.79	277.73	102.64	109.88	18 42 15	5231.0	25.29	269.83
110.00	14 17 26	1084.33	-.21	327.74	90.79	124.18	14 35 30	484.3	4.27	321.53
110.00	19 19 52	5409.10	30.67	248.54	105.48	105.90	20 50 1	4809.1	32.54	239.83

DIFFERENTIAL CORRECTIONS
TDE-2.9229 TRA 5.0965 TC3-1.7409 BAU .9855
RDE .4973 RRA -.0309 RC3 -.0280 FAU .01033
FDE -.8708 FRA 1.7779 FC3 -.2112 BSP 19946
BDE 2.9649 BRA 5.0965 BC3 1.7411 FSP -576

MID-COURSE EXECUTION ACCURACY
SGT 6138.4 SGR 440.5 SG3 168.8
RRT -.4444 RRF -.4421 RTF .9704
SGB 6154.2 R23 .0102 R13 -.9704
SG1 6141.6 SG2 394.4 THA 178.17

ORBIT DETERMINATION ACCURACY
ST 2993.7 SR 438.0 SS 821.2
CRT -.8703 CRS .8330 CST -.9973
LSA 3127.1 MSA 223.2 SSA 13.0
EL1 3018.0 EL2 214.0 ALF 172.71

LAUNCH DATE JUN 16 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 16 1968

HELIOCENTRIC CONIC DISTANCE 605.166

RL 151.97 LAL -.00 LOL 264.19 VL 25.808 GAL 12.26 AZL 93.14 HCA 295.60 SMA 122.82 ECC .31448 INC 3.1422 V1 29.317
RP 107.94 LAP 2.83 LOP 199.82 VP 37.129 GAP 17.00 AZP 91.36 TAL 149.78 TAP 85.37 RCA 84.20 APO 161.45 V2 35.110
RC 174.603 GL -11.59 GP 1.70 ZAL 39.30 ZAP 177.27 ETS 36.52 ZAE 125.10 ETE 179.00 ZAC 63.91 ETC 13.05 CLP-177.86

PLANETOCENTRIC CONIC

C3 47.381 VHL 6.883 DLA -27.80 RAL 220.16 RAD 6568.8 VEL 12.990 PTH 2.37 VHP 10.646 DPA -4.43 RAP 202.02 ECC 1.7798

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 38 26	1262.12	9.30	346.49	100.51	116.87	13 59 28	662.1	12.83	339.59
90.00	15 13 50	951.86	18.15	328.01	104.65	112.12	15 29 42	351.9	20.99	320.49
100.00	14 13 42	1148.13	4.88	335.73	98.12	119.53	14 32 50	548.1	8.77	329.11
100.00	17 21 15	5829.13	22.84	277.61	106.57	109.83	18 58 25	5229.1	25.33	269.70
110.00	14 19 47	1129.00	-1.92	330.07	93.90	124.14	14 38 36	529.0	2.57	323.87
110.00	19 31 40	5421.02	30.44	249.40	109.34	106.36	21 2 1	4821.0	32.38	240.72

DIFFERENTIAL CORRECTIONS
TOE-2.9691 TRA 5.5356 TC3-1.5164 BAU .9607
ROE .5212 RRA -.0503 RC3 -.0223 FAU .00854
FOE -.8438 FRA 1.8271 FC3 -.1560 BSP 19914
BOE 3.0145 BRA 5.5358 BC3 1.5166 FSP -549

MID-COURSE EXECUTION ACCURACY
SGT 6131.5 SGR 437.5 SG3 161.5
RRT -.4678 RRF -.4640 RTF .9717
SGB 6147.1 R23 .0087 R13 -.9717
SG1 6135.0 SG2 386.5 THA 178.08

ORBIT DETERMINATION ACCURACY
ST 2924.6 SR 434.1 SS 801.5
CRT -.8620 CRS .8249 CST -.9975
LSA 3055.0 MSA 226.5 SSA 12.5
EL1 2948.6 EL2 218.2 ALF 172.67

LAUNCH DATE JUN 16 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 18 1968

HELIOCENTRIC CONIC DISTANCE 609.755

RL 151.97 LAL -.00 LOL 264.19 VL 25.775 GAL 13.27 AZL 93.11 HCA 298.82 SMA 122.63 ECC .32700 INC 3.1095 V1 29.317
RP 107.69 LAP 2.72 LOP 203.04 VP 37.094 GAP 17.85 AZP 91.50 TAL 148.69 TAP 87.50 RCA 82.53 APO 162.73 V2 35.097
RC 176.504 GL -10.75 GP 1.66 ZAL 37.86 ZAP 178.02 ETS 54.90 ZAE 124.84 ETE 179.00 ZAC 61.83 ETC 13.19 CLP-178.92

PLANETOCENTRIC CONIC

C3 53.247 VHL 7.297 DLA -27.39 RAL 221.82 RAD 6568.9 VEL 13.214 PTH 2.41 VHP 11.154 DPA -5.33 RAP 203.99 ECC 1.8763

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 29 9	1343.46	6.77	351.12	103.15	117.56	13 51 32	743.5	10.41	344.33
90.00	15 36 22	928.67	18.74	326.56	108.75	111.63	15 51 51	328.7	21.51	318.99
100.00	14 11 41	1206.02	2.93	338.92	101.04	119.76	14 31 47	606.0	6.87	332.35
100.00	17 36 31	5829.38	22.83	277.62	110.41	109.84	19 13 40	5229.4	25.33	269.71
110.00	14 21 38	1174.73	-3.66	332.46	96.95	124.01	14 41 13	574.7	.82	326.25
110.00	19 43 3	5433.43	30.20	250.29	113.14	106.83	21 13 36	4833.4	32.20	241.65

DIFFERENTIAL CORRECTIONS
TOE-3.0239 TRA 6.0016 TC3-1.3083 BAU .9314
ROE .5453 RRA -.0718 RC3 -.0176 FAU .00685
FOE -.8220 FRA 1.8787 FC3 -.1114 BSP 19955
BOE 3.0727 BRA 6.0021 BC3 1.3084 FSP -526

MID-COURSE EXECUTION ACCURACY
SGT 6119.7 SGR 433.6 SG3 154.6
RRT -.4916 RRF -.4866 RTF .9733
SGB 6135.1 R23 .0073 R13 -.9733
SG1 6123.4 SG2 377.4 THA 178.00

ORBIT DETERMINATION ACCURACY
ST 2859.4 SR 428.6 SS 785.9
CRT -.8543 CRS .8178 CST -.9977
LSA 2987.5 MSA 228.4 SSA 12.1
EL1 2882.9 EL2 221.0 ALF 172.66

LAUNCH DATE JUN 16 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 20 1968

HELIOCENTRIC CONIC DISTANCE 614.122

RL 151.97 LAL -.00 LOL 264.19 VL 25.742 GAL 14.36 AZL 93.07 HCA 302.03 SMA 122.44 ECC .34079 INC 3.0747 V1 29.317
RP 108.01 LAP 2.61 LOP 206.26 VP 37.060 GAP 18.79 AZP 91.63 TAL 147.65 TAP 89.69 RCA 80.71 APO 164.16 V2 35.084
RC 178.389 GL -9.94 GP 1.63 ZAL 36.52 ZAP 178.37 ETS 87.82 ZAE 124.54 ETE 179.00 ZAC 59.78 ETC 13.36 CLP-180.00

PLANETOCENTRIC CONIC

C3 60.097 VHL 7.752 DLA -26.97 RAL 223.37 RAD 6569.1 VEL 13.470 PTH 2.46 VHP 11.709 DPA -6.21 RAP 205.95 ECC 1.9890

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 22 13	1416.49	4.45	355.23	105.83	117.99	13 45 49	816.5	8.16	348.52
90.00	15 55 36	915.08	19.08	325.71	112.67	111.33	16 10 51	315.1	21.81	318.10
100.00	14 9 35	1263.45	.98	342.08	103.91	119.88	14 30 39	663.5	4.95	335.54
100.00	17 50 55	5831.39	22.79	277.75	114.16	109.89	19 28 6	5231.4	25.29	269.85
110.00	14 23 0	1221.33	-5.43	334.91	99.93	123.80	14 43 22	621.3	-.96	328.68
110.00	19 53 59	5446.28	29.94	251.20	116.85	107.32	21 24 46	4846.3	32.02	242.60

DIFFERENTIAL CORRECTIONS
TOE-3.0860 TRA 6.5024 TC3-1.1125 BAU .8939
ROE .5696 RRA -.0956 RC3 -.0141 FAU .00517
FOE -.8036 FRA 1.9349 FC3 -.0744 BSP 19965
BOE 3.1381 BRA 6.5031 BC3 1.1126 FSP -504

MID-COURSE EXECUTION ACCURACY
SGT 6103.4 SGR 429.0 SG3 148.2
RRT -.5157 RRF -.5094 RTF .9751
SGB 6118.5 R23 .0056 R13 -.9751
SG1 6107.4 SG2 367.3 THA 177.92

ORBIT DETERMINATION ACCURACY
ST 2796.7 SR 421.7 SS 773.4
CRT -.8468 CRS .8111 CST -.9978
LSA 2923.1 MSA 229.2 SSA 11.6
EL1 2819.5 EL2 222.5 ALF 172.68

LAUNCH DATE JUN 16 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 22 1968

HELIOCENTRIC CONIC DISTANCE 618.222

RL 151.97 LAL -.00 LOL 264.19 VL 25.710 GAL 15.55 AZL 93.04 HCA 305.25 SMA 122.25 ECC .35602 INC 3.0374 V1 29.317
RP 108.05 LAP 2.48 LOP 209.47 VP 37.025 GAP 19.81 AZP 91.75 TAL 146.68 TAP 91.93 RCA 78.73 APO 165.78 V2 35.071
RC 180.257 GL -9.15 GP 1.59 ZAL 35.27 ZAP 178.06 ETS 122.45 ZAE 124.22 ETE 179.00 ZAC 57.76 ETC 13.58 CLP 178.90

PLANETOCENTRIC CONIC

C3 68.136 VHL 8.254 DLA -26.53 RAL 224.79 RAD 6569.3 VEL 13.766 PTH 2.51 VHP 12.320 DPA -7.07 RAP 207.89 ECC 2.1214

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 16 23	1485.08	2.25	359.07	108.50	118.23	13 41 8	885.1	6.01	352.41
90.00	16 12 47	906.93	19.28	325.20	116.43	111.15	16 27 54	306.9	21.98	317.57
100.00	14 7 21	1320.48	-.95	345.21	106.72	119.88	14 29 22	720.5	3.03	338.68
100.00	18 4 31	5834.80	22.71	277.98	117.80	109.98	19 41 45	5234.8	25.22	270.08
110.00	14 23 53	1268.61	-7.22	337.41	102.85	123.50	14 45 1	668.6	-2.76	331.15
110.00	20 4 28	5459.44	29.67	252.13	120.46	107.81	21 35 28	4859.4	31.82	243.57

DIFFERENTIAL CORRECTIONS
TOE-3.1527 TRA 7.0414 TC3 -.9316 BAU .8486
ROE .5939 RRA -.1218 RC3 -.0114 FAU .00347
FOE -.7889 FRA 1.9964 FC3 -.0441 BSP 19985
BOE 3.2082 BRA 7.0425 BC3 .9316 FSP -483

MID-COURSE EXECUTION ACCURACY
SGT 6082.4 SGR 423.3 SG3 142.1
RRT -.5395 RRF -.5325 RTF .9769
SGB 6097.1 R23 .0043 R13 -.9769
SG1 6086.7 SG2 356.2 THA 177.84

ORBIT DETERMINATION ACCURACY
ST 2734.4 SR 413.2 SS 764.4
CRT -.8395 CRS .8051 CST -.9981
LSA 2860.0 MSA 228.7 SSA 11.1
EL1 2756.4 EL2 222.7 ALF 172.72

LAUNCH DATE JUN 17 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 26 1967

HELIOCENTRIC CONIC DISTANCE 160.151
RL 151.98 LAL -.00 LOL 265.14 VL 22.633 GAL .42 AZL 93.60 HCA 64.57 SMA 107.53 ECC .41343 INC 3.6000 V1 29.314
RP 108.90 LAP -3.25 LOP 329.67 VP 34.685 GAP -24.41 AZP 91.55 TAL 179.40 TAP 243.98 RCA 63.07 APO 151.99 V2 34.797
RC 43.245 GL -11.93 GP -1.23 ZAL 89.85 ZAP 12.76 ETS 174.78 ZAE 168.83 ETE 68.18 ZAC 102.90 ETC 14.55 CLP 12.70

PLANETOCENTRIC CONIC
C3 47.260 VHL 6.875 DLA -9.08 RAL 170.92 RAD 6568.8 VEL 12.985 PTH 2.37 VHP 14.619 DPA 8.90 RAP 164.60 ECC 1.7778

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 15 34	2143.01	-17.77	37.00	44.67	112.42	6 51 17	1543.0	-14.58	29.78
90.00	15 55 59	5357.72	27.74	244.50	51.11	84.08	17 25 17	4757.7	26.63	236.01
100.00	7 32 28	1894.89	-19.09	18.17	44.08	113.45	8 4 3	1294.9	-15.76	10.96
100.00	17 21 46	5081.07	29.17	223.98	50.93	83.14	18 46 27	4481.1	27.91	215.40
110.00	8 30 37	1712.81	-22.60	2.61	42.33	116.35	8 59 10	1112.8	-18.88	355.45
110.00	18 40 6	4835.92	33.00	204.72	50.28	80.53	20 0 42	4235.9	31.34	195.89

DIFFERENTIAL CORRECTIONS
TDE .4052 TRA -.8322 TC3 .0517 BAU .0574
RDE -.4638 RRA -.2011 RC3 .0747 FAU .01934
FDE -.3122 FRA .3281 FC3 -.3543 BSP 2054
BDE .6158 BRA .8561 BC3 .0908 FSP -115

MID-COURSE EXECUTION ACCURACY
SGT 782.5 SGR 434.5 SG3 53.4
RRT -.0119 RRF .0131 RTF -.6556
SGB 895.1 R23 -.0018 R13 .6556
SG1 782.6 SG2 434.4 THA 179.45

ORBIT DETERMINATION ACCURACY
ST 398.0 SR 389.9 SS 345.5
CRT -.7719 CRS -.9030 CST .9681
LSA 627.3 MSA 189.8 SSA 15.1
EL1 524.4 EL2 188.1 ALF 135.77

LAUNCH DATE JUN 17 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 28 1967

HELIOCENTRIC CONIC DISTANCE 166.715
RL 151.98 LAL -.00 LOL 265.14 VL 23.042 GAL .30 AZL 93.57 HCA 67.74 SMA 109.18 ECC .39202 INC 3.5660 V1 29.314
RP 108.89 LAP -3.30 LOP 332.84 VP 34.958 GAP -23.08 AZP 91.35 TAL 179.54 TAP 247.28 RCA 66.38 APO 151.98 V2 34.801
RC 42.956 GL -12.78 GP -1.29 ZAL 90.25 ZAP 11.06 ETS 173.53 ZAE 167.50 ETE 57.12 ZAC 101.51 ETC 14.41 CLP 10.98

PLANETOCENTRIC CONIC
C3 41.959 VHL 6.478 DLA -9.69 RAL 170.20 RAD 6568.6 VEL 12.780 PTH 2.32 VHP 13.873 DPA 8.29 RAP 165.93 ECC 1.6905

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 17 35	2093.05	-16.45	33.93	41.90	113.38	6 52 28	1493.1	-13.14	26.81
90.00	15 48 10	5347.85	27.67	243.79	48.39	83.72	17 17 18	4747.8	26.51	235.32
100.00	7 34 9	1846.02	-17.74	15.17	41.30	114.46	8 4 55	1246.0	-14.29	8.07
100.00	17 14 17	5070.11	29.07	223.17	48.20	82.73	18 38 47	4470.1	27.76	214.62
110.00	8 31 33	1666.29	-21.17	359.76	39.52	117.49	8 59 20	1066.3	-17.32	352.75
110.00	18 33 23	4822.60	32.85	203.71	47.53	79.95	19 53 45	4222.6	31.11	194.92

DIFFERENTIAL CORRECTIONS
TDE .4059 TRA -.8091 TC3 .0823 BAU .0659
RDE -.4392 RRA -.1882 RC3 .0838 FAU .02022
FDE -.3306 FRA .3294 FC3 -.4172 BSP 2196
BDE .5980 BRA .8306 BC3 .1175 FSP -129

MID-COURSE EXECUTION ACCURACY
SGT 816.9 SGR 437.3 SG3 58.9
RRT -.0148 RRF .0168 RTF -.6771
SGB 926.6 R23 -.0027 R13 .6772
SG1 816.9 SG2 437.2 THA 179.36

ORBIT DETERMINATION ACCURACY
ST 419.9 SR 391.8 SS 366.8
CRT -.7806 CRS -.9097 CST .9677
LSA 654.1 MSA 190.5 SSA 15.5
EL1 542.1 EL2 189.7 ALF 137.54

LAUNCH DATE JUN 17 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 30 1967

HELIOCENTRIC CONIC DISTANCE 173.315
RL 151.98 LAL -.00 LOL 265.14 VL 23.419 GAL .15 AZL 93.53 HCA 70.90 SMA 110.78 ECC .37194 INC 3.5334 V1 29.314
RP 108.87 LAP -3.34 LOP 336.01 VP 35.213 GAP -21.81 AZP 91.16 TAL 179.74 TAP 250.64 RCA 69.58 APO 151.98 V2 34.806
RC 42.841 GL -13.66 GP -1.36 ZAL 90.80 ZAP 9.36 ETS 171.81 ZAE 165.83 ETE 48.21 ZAC 100.13 ETC 14.28 CLP 9.26

PLANETOCENTRIC CONIC
C3 37.370 VHL 6.113 DLA -10.27 RAL 169.33 RAD 6568.5 VEL 12.599 PTH 2.29 VHP 13.160 DPA 7.68 RAP 167.25 ECC 1.6150

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 18 50	2044.77	-15.12	31.01	39.08	114.23	6 52 54	1444.8	-11.72	23.98
90.00	15 40 2	5337.62	27.59	243.05	45.57	83.36	17 9 0	4737.6	26.38	234.59
100.00	7 35 4	1798.79	-16.39	12.31	38.47	115.36	8 5 3	1198.8	-12.84	5.32
100.00	17 6 28	5058.84	28.97	222.35	45.37	82.31	18 30 47	4458.8	27.61	213.82
110.00	8 31 45	1621.32	-19.73	357.06	36.69	118.50	8 58 46	1021.3	-15.77	350.18
110.00	18 26 17	4809.07	32.68	202.69	44.68	79.37	19 46 26	4209.1	30.87	193.94

DIFFERENTIAL CORRECTIONS
TDE .4043 TRA -.7868 TC3 .1144 BAU .0738
RDE -.4158 RRA -.1758 RC3 .0933 FAU .02124
FDE -.3493 FRA .3294 FC3 -.4920 BSP 2173
BDE .5800 BRA .8063 BC3 .1477 FSP -143

MID-COURSE EXECUTION ACCURACY
SGT 851.4 SGR 439.3 SG3 65.1
RRT -.0166 RRF .0194 RTF -.6913
SGB 958.1 R23 -.0038 R13 .6914
SG1 851.5 SG2 439.2 THA 179.33

ORBIT DETERMINATION ACCURACY
ST 440.7 SR 393.0 SS 387.9
CRT -.7876 CRS -.9161 CST .9666
LSA 679.9 MSA 191.3 SSA 16.0
EL1 558.7 EL2 191.0 ALF 139.14

LAUNCH DATE JUN 17 1967 FLIGHT TIME 76.00 ARRIVAL DATE SEP 1 1967

HELIOCENTRIC CONIC DISTANCE 179.974
RL 151.98 LAL -.00 LOL 265.14 VL 23.768 GAL -.01 AZL 93.50 HCA 74.07 SMA 112.32 ECC .35310 INC 3.5020 V1 29.314
RP 108.86 LAP -3.37 LOP 339.18 VP 35.451 GAP -20.60 AZP 90.96 TAL 180.01 TAP 254.08 RCA 72.66 APO 151.98 V2 34.812
RC 42.900 GL -14.55 GP -1.43 ZAL 91.49 ZAP 7.64 ETS 169.29 ZAE 163.94 ETE 41.19 ZAC 98.78 ETC 14.16 CLP 7.51

PLANETOCENTRIC CONIC
C3 33.389 VHL 5.778 DLA -10.81 RAL 168.32 RAD 6568.3 VEL 12.440 PTH 2.25 VHP 12.475 DPA 7.06 RAP 168.54 ECC 1.5495

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 19 13	1998.47	-13.81	28.24	36.22	114.97	6 52 31	1398.5	-10.33	21.29
90.00	15 31 35	5327.03	27.51	242.29	42.65	82.99	17 0 22	4727.0	26.25	233.85
100.00	7 35 9	1753.48	-15.05	9.62	35.61	116.14	8 4 22	1153.5	-11.41	2.71
100.00	16 58 20	5047.25	28.87	221.51	42.44	81.88	18 22 27	4447.3	27.44	212.99
110.00	8 31 8	1578.16	-18.31	354.52	33.81	119.38	8 57 26	978.2	-14.26	347.75
110.00	18 18 50	4795.34	32.50	201.66	41.72	78.78	19 38 46	4195.3	30.62	192.95

DIFFERENTIAL CORRECTIONS
TDE .4350 TRA -.7471 TC3 .2049 BAU .1024
RDE -.3935 RRA -.1634 RC3 .1031 FAU .02313
FDE -.3727 FRA .3438 FC3 -.5998 BSP 3036
BDE .5866 BRA .7647 BC3 .229[illegible] FSP -168

MID-COURSE EXECUTION ACCURACY
SGT 900.5 SGR 440.0 SG3 74.2
RRT -.0396 RRF .0115 RTF -.7568
SGB 1002.2 R23 .0279 R13 .7565
SG1 900.7 SG2 439.6 THA 178.54

ORBIT DETERMINATION ACCURACY
ST 487.1 SR 393.3 SS 414.[illegible]
CRT -.8198 CRS -.9189 CST .9776
LSA 727.9 MSA 183.4 SSA 16.1
EL1 598.7 EL2 183.2 ALF 142.37

LAUNCH DATE JUN 17 1967 FLIGHT TIME 78.00 ARRIVAL DATE SEP 3 1967

HELIOCENTRIC CONIC DISTANCE 186.603

RL	151.98	LAL	-.00	LOL	265.14	VL	24.087	GAL	-.17	AZL	93.47	HCA	77.23	SMA	113.79	ECC	.33562	INC	3.4716
RP	108.84	LAP	-3.39	LOP	342.35	VP	35.672	GAP	-19.46	AZP	90.77	TAL	180.34	TAP	257.57	RCA	75.60	APO	151.98
RC	43.133	GL	-15.45	GP	-1.50	ZAL	92.29	ZAP	5.95	ETS	165.30	ZAE	161.95	ETE	35.60	ZAC	97.43	ETC	14.05

V1	29.314	V2	34.819	CLP	5.75														

PLANETOCENTRIC CONIC

C3	29.965	VHL	5.474	DLA	-11.31	RAL	167.19	RAD	6568.2	VEL	12.302	PTH	2.22	VHP	11.823	DPA	6.44	RAP	169.81

ECC	1.4931																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 18 48	1954.75	-12.54	25.66	33.35	115.60	6 51 23	1354.8	-8.99	18.78
90.00	15 22 59	5316.33	27.41	241.52	39.67	82.61	16 51 35	4716.3	26.11	233.10
100.00	7 34 27	1710.71	-13.75	7.10	32.74	116.81	8 2 57	1110.7	-10.04	.28
100.00	16 50 1	5035.61	28.75	220.66	39.46	81.45	18 13 57	4435.6	27.27	212.17
110.00	8 29 47	1537.39	-16.93	352.16	30.95	120.15	8 55 24	937.4	-12.80	345.49
110.00	18 11 10	4781.69	32.32	200.64	38.72	78.20	19 30 52	4181.7	30.35	191.97

DIFFERENTIAL CORRECTIONS

TDE	.4190	TRA	-.7279	TC3	.2178	BAU	.0983
RDE	-.3731	RRA	-.1528	RC3	.1131	FAU	.02383
FDE	-.4016	FRA	.3203	FC3	-.6884	BSP	2688
BDE	.5610	BRA	.7438	BC3	.2454	FSP	-190

MID-COURSE EXECUTION ACCURACY

SGT	923.5	SGR	440.9	SG3	80.2		
RRT	-.0369	RRF	.0368	RTF	-.7346		
SGB	1023.4	R23	-.0018	R13	.7346		
SG1	923.7	SG2	440.6	THA	178.69		

ORBIT DETERMINATION ACCURACY

ST	496.7	SR	393.6	SS	442.5		
CRT	-.8176	CRS	-.9327	CST	.9684		
LSA	750.1	MSA	185.9	SSA	16.9		
EL1	605.9	EL2	185.8	ALF	143.01		

LAUNCH DATE JUN 17 1967 FLIGHT TIME 80.00 ARRIVAL DATE SEP 5 1967

HELIOCENTRIC CONIC DISTANCE 193.282

RL	151.98	LAL	-.00	LOL	265.14	VL	24.383	GAL	-.34	AZL	93.44	HCA	80.40	SMA	115.20	ECC	.31930	INC	3.4419
RP	108.81	LAP	-3.39	LOP	345.53	VP	35.879	GAP	-18.36	AZP	90.57	TAL	180.73	TAP	261.13	RCA	78.42	APO	151.99
RC	43.534	GL	-16.36	GP	-1.59	ZAL	93.23	ZAP	4.27	ETS	158.00	ZAE	159.92	ETE	31.14	ZAC	96.11	ETC	13.95

V1	29.314	V2	34.826	CLP	3.97														

PLANETOCENTRIC CONIC

C3	27.000	VHL	5.196	DLA	-11.76	RAL	165.93	RAD	6568.1	VEL	12.181	PTH	2.19	VHP	11.196	DPA	5.81	RAP	171.05

ECC	1.4443																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 17 31	1913.71	-11.32	23.26	30.46	116.13	6 49 24	1313.7	-7.71	16.44
90.00	15 14 12	5305.36	27.32	240.73	36.64	82.23	16 42 37	4705.4	25.96	232.33
100.00	7 32 53	1670.53	-12.50	4.77	29.85	117.38	8 0 44	1070.5	-8.74	358.01
100.00	16 41 31	5023.77	28.63	219.80	36.42	81.01	18 5 14	4423.8	27.09	211.34
110.00	8 27 38	1499.06	-15.61	349.98	28.07	120.80	8 52 37	899.1	-11.41	343.40
110.00	18 3 15	4768.00	32.12	199.62	35.66	77.63	19 22 43	4168.0	30.09	191.00

DIFFERENTIAL CORRECTIONS

TDE	.4196	TRA	-.7010	TC3	.2787	BAU	.1099
RDE	-.3537	RRA	-.1422	RC3	.1228	FAU	.02535
FDE	-.4272	FRA	.3128	FC3	-.8127	BSP	2792
BDE	.5488	BRA	.7153	BC3	.3046	FSP	-216

MID-COURSE EXECUTION ACCURACY

SGT	959.9	SGR	440.5	SG3	88.9		
RRT	-.0403	RRF	.0430	RTF	-.7498		
SGB	1056.1	R23	-.0047	R13	.7499		
SG1	960.1	SG2	440.0	THA	178.66		

ORBIT DETERMINATION ACCURACY

ST	519.9	SR	393.0	SS	467.6		
CRT	-.8275	CRS	-.9398	CST	.9677		
LSA	780.5	MSA	184.2	SSA	17.4		
EL1	625.3	EL2	183.5	ALF	144.46		

LAUNCH DATE JUN 17 1967 FLIGHT TIME 82.00 ARRIVAL DATE SEP 7 1967

HELIOCENTRIC CONIC DISTANCE 199.979

RL	151.98	LAL	-.00	LOL	265.14	VL	24.652	GAL	-.52	AZL	93.41	HCA	83.57	SMA	116.55	ECC	.30417	INC	3.4128
RP	108.79	LAP	-3.39	LOP	348.70	VP	36.071	GAP	-17.30	AZP	90.38	TAL	181.18	TAP	264.75	RCA	81.10	APO	151.99
RC	44.099	GL	-17.27	GP	-1.69	ZAL	94.29	ZAP	2.73	ETS	141.59	ZAE	157.93	ETE	27.49	ZAC	94.83	ETC	13.87

V1	29.314	V2	34.834	CLP	2.15														

PLANETOCENTRIC CONIC

C3	24.442	VHL	4.944	DLA	-12.16	RAL	164.55	RAD	6568.0	VEL	12.076	PTH	2.16	VHP	10.597	DPA	5.19	RAP	172.26

ECC	1.4022																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 15 22	1875.71	-10.17	21.06	27.56	116.57	6 46 38	1275.7	-6.52	14.28
90.00	15 5 22	5294.16	27.21	239.93	33.57	81.84	16 33 36	4694.2	25.80	231.55
100.00	7 30 30	1633.32	-11.33	2.63	26.96	117.85	7 57 43	1033.3	-7.51	355.92
100.00	16 32 55	5011.79	28.50	218.94	33.35	80.57	17 56 27	4411.8	26.90	210.50
110.00	8 24 43	1463.52	-14.36	347.99	25.19	121.36	8 49 6	863.5	-10.10	341.47
110.00	17 55 11	4754.35	31.92	198.60	32.57	77.06	19 14 26	4154.3	29.81	190.03

DIFFERENTIAL CORRECTIONS

TDE	.4218	TRA	-.6746	TC3	.3432	BAU	.1202
RDE	-.3356	RRA	-.1321	RC3	.1322	FAU	.02696
FDE	-.4562	FRA	.3052	FC3	-.9549	BSP	2887
BDE	.5390	BRA	.6874	BC3	.3678	FSP	-242

MID-COURSE EXECUTION ACCURACY

SGT	996.9	SGR	439.2	SG3	98.6		
RRT	-.0468	RRF	.0510	RTF	-.7633		
SGB	1089.3	R23	-.0067	R13	.7634		
SG1	997.1	SG2	438.6	THA	178.53		

ORBIT DETERMINATION ACCURACY

ST	544.6	SR	391.8	SS	494.8		
CRT	-.8380	CRS	-.9465	CST	.9674		
LSA	813.3	MSA	181.9	SSA	17.9		
EL1	646.3	EL2	180.2	ALF	145.91		

LAUNCH DATE JUN 17 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 9 1967

HELIOCENTRIC CONIC DISTANCE 206.689

RL	151.98	LAL	-.00	LOL	265.14	VL	24.901	GAL	-.69	AZL	93.38	HCA	86.74	SMA	117.82	ECC	.29016	INC	3.3840
RP	108.76	LAP	-3.38	LOP	351.88	VP	36.249	GAP	-16.30	AZP	90.19	TAL	181.69	TAP	268.43	RCA	83.63	APO	152.01
RC	44.820	GL	-18.16	GP	-1.79	ZAL	95.45	ZAP	1.82	ETS	98.79	ZAE	156.02	ETE	24.47	ZAC	93.58	ETC	13.80

V1	29.314	V2	34.842	CLP	.29														

PLANETOCENTRIC CONIC

C3	22.238	VHL	4.716	DLA	-12.50	RAL	163.07	RAD	6567.9	VEL	11.984	PTH	2.14	VHP	10.022	DPA	4.57	RAP	173.42

ECC	1.3660																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 12 22	1841.08	-9.11	19.07	24.67	116.93	6 43 3	1241.1	-5.42	12.33
90.00	14 56 34	5282.68	27.10	239.11	30.50	81.44	16 24 36	4682.7	25.63	230.75
100.00	7 27 17	1599.37	-10.24	.70	24.07	118.24	7 53 56	999.4	-6.39	354.03
100.00	16 24 20	4999.62	28.36	218.06	30.27	80.13	17 47 39	4399.6	26.70	209.65
110.00	8 21 2	1431.03	-13.20	346.18	22.33	121.82	8 44 53	831.0	-8.90	339.72
110.00	17 47 4	4740.73	31.71	197.60	29.47	76.50	19 6 5	4140.7	29.53	189.07

DIFFERENTIAL CORRECTIONS

TDE	.4271	TRA	-.6441	TC3	.4205	BAU	.1318
RDE	-.3189	RRA	-.1227	RC3	.1407	FAU	.02884
FDE	-.4895	FRA	.2938	FC3	-1.1227	BSP	3050
BDE	.5331	BRA	.6557	BC3	.4434	FSP	-274

MID-COURSE EXECUTION ACCURACY

SGT	1034.0	SGR	437.1	SG3	109.6		
RRT	-.0576	RRF	.0616	RTF	-.7791		
SGB	1122.6	R23	-.0070	R13	.7792		
SG1	1034.4	SG2	436.2	THA	178.30		

ORBIT DETERMINATION ACCURACY

ST	572.1	SR	390.2	SS	524.9		
CRT	-.8512	CRS	-.9534	CST	.9681		
LSA	850.0	MSA	178.2	SSA	18.5		
EL1	670.1	EL2	174.8	ALF	147.37		

LAUNCH DATE JUN 17 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 11 1967

DISTANCE 213.408

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 25.129 GAL -.86 AZL 93.36 HCA 89.91 SMA 119.03 ECC .27725 INC 3.3554 V1 29.314
RP 108.74 LAP -3.36 LOP 355.06 VP 36.415 GAP -15.33 AZP 90.00 TAL 182.25 TAP 272.17 RCA 86.03 APO 152.03 V2 34.851
RC 45.690 GL -19.03 GP -1.91 ZAL 96.70 ZAP 2.50 ETS 49.39 ZAE 154.24 ETE 21.92 ZAC 92.38 ETC 13.75 CLP -1.61

PLANETOCENTRIC CONIC
C3 20.342 VHL 4.510 DLA -12.78 RAL 161.51 RAD 6567.8 VEL 11.905 PTH 2.12 VHP 9.473 DPA 3.95 RAP 174.54 ECC 1.3348

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 8 32	1810.00	-8.14	17.30	21.81	117.21	6 38 42	1210.0	-4.43	10.58
90.00	14 47 54	5270.88	26.97	238.27	27.43	81.04	16 15 45	4670.9	25.46	229.93
100.00	7 23 17	1568.87	-9.25	358.97	21.22	118.55	7 49 25	968.9	-5.37	352.34
100.00	16 15 51	4987.24	28.21	217.17	27.20	79.68	17 38 58	4387.2	26.50	208.78
110.00	8 16 38	1401.75	-12.14	344.57	19.49	122.20	8 40 0	801.8	-7.80	338.16
110.00	17 38 58	4727.13	31.49	196.60	26.38	75.95	18 57 45	4127.1	29.23	188.12

DIFFERENTIAL CORRECTIONS
TDE .4313 TRA -.6147 TC3 .5034 BAU .1427
RDE -.3035 RRA -.1139 RC3 .1479 FAU .03095
FDE -.5257 FRA .2809 FC3-1.3173 BSP 3193
BDE .5274 BRA .6251 BC3 .5247 FSP -310

MID-COURSE EXECUTION ACCURACY
SGT 1071.2 SGR 434.2 SG3 121.9
RRT -.0685 RRF .0729 RTF -.7928
SGB 1155.9 R23 -.0080 R13 .7929
SG1 1071.7 SG2 433.0 THA 178.10

ORBIT DETERMINATION ACCURACY
ST 598.4 SR 388.2 SS 554.7
CRT -.8632 CRS -.9597 CST .9685
LSA 886.3 MSA 174.6 SSA 19.0
EL1 692.9 EL2 169.2 ALF 148.67

LAUNCH DATE JUN 17 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 13 1967

DISTANCE 220.133

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 25.338 GAL -1.03 AZL 93.33 HCA 93.09 SMA 120.16 ECC .26537 INC 3.3268 V1 29.314
RP 108.71 LAP -3.32 LOP 358.24 VP 36.568 GAP -14.41 AZP 89.82 TAL 182.87 TAP 275.95 RCA 88.27 APO 152.05 V2 34.860
RC 46.700 GL -19.87 GP -2.05 ZAL 98.04 ZAP 4.11 ETS 29.27 ZAE 152.62 ETE 19.73 ZAC 91.23 ETC 13.71 CLP -3.57

PLANETOCENTRIC CONIC
C3 18.713 VHL 4.326 DLA -13.00 RAL 159.87 RAD 6567.8 VEL 11.836 PTH 2.10 VHP 8.947 DPA 3.34 RAP 175.60 ECC 1.3080

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 3 56	1782.65	-7.29	15.74	18.98	117.44	6 33 38	1182.7	-3.56	9.05
90.00	14 39 28	5258.68	26.84	237.40	24.40	80.62	16 7 7	4658.7	25.27	229.08
100.00	7 18 31	1541.98	-8.37	357.46	18.40	118.80	7 44 13	942.0	-4.47	350.85
100.00	16 7 34	4974.58	28.05	216.26	24.16	79.23	17 30 28	4374.6	26.28	207.91
110.00	8 11 34	1375.83	-11.20	343.16	16.70	122.51	8 34 30	775.8	-6.83	336.79
110.00	17 31 0	4713.50	31.26	195.60	23.33	75.40	18 49 33	4113.5	28.94	187.17

DIFFERENTIAL CORRECTIONS
TDE .4355 TRA -.5822 TC3 .5963 BAU .1540
RDE -.2895 RRA -.1058 RC3 .1534 FAU .03338
FDE -.5659 FRA .2633 FC3-1.5444 BSP 3353
BDE .5230 BRA .5918 BC3 .6157 FSP -351

MID-COURSE EXECUTION ACCURACY
SGT 1107.0 SGR 430.5 SG3 135.9
RRT -.0816 RRF .0865 RTF -.8067
SGB 1187.7 R23 -.0091 R13 .8069
SG1 1107.6 SG2 428.8 THA 177.86

ORBIT DETERMINATION ACCURACY
ST 624.0 SR 385.8 SS 586.2
CRT -.8758 CRS -.9659 CST .9690
LSA 923.3 MSA 170.4 SSA 19.5
EL1 715.5 EL2 162.4 ALF 149.85

LAUNCH DATE JUN 17 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 15 1967

DISTANCE 226.860

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 25.529 GAL -1.20 AZL 93.30 HCA 96.26 SMA 121.23 ECC .25449 INC 3.2980 V1 29.314
RP 108.68 LAP -3.28 LOP 1.42 VP 36.710 GAP -13.52 AZP 89.64 TAL 183.52 TAP 279.78 RCA 90.38 APO 152.08 V2 34.870
RC 47.841 GL -20.66 GP -2.19 ZAL 99.43 ZAP 6.00 ETS 20.80 ZAE 151.17 ETE 17.83 ZAC 90.15 ETC 13.68 CLP -5.59

PLANETOCENTRIC CONIC
C3 17.316 VHL 4.161 DLA -13.16 RAL 158.19 RAD 6567.7 VEL 11.777 PTH 2.08 VHP 8.444 DPA 2.73 RAP 176.60 ECC 1.2850

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 58 35	1759.11	-6.55	14.41	16.21	117.61	6 27 55	1159.1	-2.80	7.73
90.00	14 31 23	5246.03	26.70	236.50	21.43	80.20	15 58 49	4646.0	25.07	228.21
100.00	7 13 5	1518.77	-7.61	356.16	15.64	118.99	7 38 24	918.8	-3.69	349.57
100.00	15 59 35	4961.60	27.88	215.33	21.18	78.77	17 22 17	4361.6	26.05	207.01
110.00	8 5 55	1353.31	-10.37	341.94	13.97	122.76	8 28 28	753.3	-5.98	335.60
110.00	17 23 15	4699.82	31.02	194.61	20.34	74.85	18 41 34	4099.8	28.63	186.22

DIFFERENTIAL CORRECTIONS
TDE .4388 TRA -.5513 TC3 .6913 BAU .1641
RDE -.2767 RRA -.0983 RC3 .1568 FAU .03610
FDE -.6104 FRA .2431 FC3-1.8047 BSP 3486
BDE .5187 BRA .5600 BC3 .7088 FSP -397

MID-COURSE EXECUTION ACCURACY
SGT 1141.8 SGR 426.0 SG3 151.6
RRT -.0960 RRF .1022 RTF -.8183
SGB 1218.7 R23 -.0112 R13 .8186
SG1 1142.7 SG2 423.7 THA 177.62

ORBIT DETERMINATION ACCURACY
ST 648.1 SR 383.2 SS 618.7
CRT -.8871 CRS -.9714 CST .9693
LSA 959.9 MSA 166.8 SSA 20.0
EL1 736.6 EL2 155.6 ALF 150.90

LAUNCH DATE JUN 17 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 17 1967

DISTANCE 233.585

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 25.703 GAL -1.36 AZL 93.27 HCA 99.44 SMA 122.22 ECC .24456 INC 3.2688 V1 29.314
RP 108.64 LAP -3.22 LOP 4.60 VP 36.841 GAP -12.66 AZP 89.46 TAL 184.20 TAP 283.65 RCA 92.33 APO 152.11 V2 34.881
RC 49.103 GL -21.40 GP -2.36 ZAL 100.87 ZAP 8.03 ETS 16.37 ZAE 149.93 ETE 16.13 ZAC 89.13 ETC 13.66 CLP -7.68

PLANETOCENTRIC CONIC
C3 16.119 VHL 4.015 DLA -13.26 RAL 156.48 RAD 6567.6 VEL 11.726 PTH 2.07 VHP 7.964 DPA 2.14 RAP 177.53 ECC 1.2653

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 52 37	1739.37	-5.92	13.29	13.52	117.74	6 21 36	1139.4	-2.16	6.63
90.00	14 23 45	5232.89	26.54	235.57	18.53	79.75	15 50 58	4632.9	24.86	227.31
100.00	7 7 2	1499.24	-6.96	355.07	12.95	119.14	7 32 2	899.2	-3.03	348.50
100.00	15 52 0	4948.25	27.70	214.38	18.27	78.30	17 14 28	4348.3	25.81	206.09
110.00	7 59 44	1334.20	-9.67	340.91	11.31	122.95	8 21 58	734.2	-5.26	334.59
110.00	17 15 48	4686.05	30.77	193.61	17.42	74.31	18 33 54	4086.1	28.31	185.28

DIFFERENTIAL CORRECTIONS
TDE .4411 TRA -.5208 TC3 .7889 BAU .1734
RDE -.2651 RRA -.0914 RC3 .1575 FAU .03918
FDE -.6600 FRA .2195 FC3-2.1045 BSP 3607
BDE .5147 BRA .5287 BC3 .8044 FSP -450

MID-COURSE EXECUTION ACCURACY
SGT 1175.0 SGR 420.8 SG3 169.4
RRT -.1126 RRF .1206 RTF -.8285
SGB 1248.1 R23 -.0138 R13 .8288
SG1 1176.1 SG2 417.7 THA 177.36

ORBIT DETERMINATION ACCURACY
ST 670.2 SR 380.4 SS 652.4
CRT -.8976 CRS -.9764 CST .9694
LSA 996.2 MSA 163.7 SSA 20.5
EL1 756.2 EL2 148.6 ALF 151.81

LAUNCH DATE JUN 17 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 19 1967

HELIOCENTRIC CONIC DISTANCE 240.307

RL 151.98 LAL -.00 LOL 265.14 VL 25.861 GAL -1.51 AZL 93.24 HCA 102.62 SMA 123.15 ECC .23552 INC 3.2390 V1 29.314
RP 108.61 LAP -3.16 LOP 7.78 VP 36.962 GAP -11.84 AZP 89.29 TAL 184.92 TAP 287.54 RCA 94.15 APO 152.15 V2 34.891
RC 50.476 GL -22.08 GP -2.55 ZAL 102.33 ZAP 10.17 ETS 13.68 ZAE 148.91 ETE 14.61 ZAC 88.21 ETC 13.65 CLP -9.85

PLANETOCENTRIC CONIC

C3 15.094 VHL 3.885 DLA -13.29 RAL 154.77 RAD 6567.6 VEL 11.682 PTH 2.05 VHP 7.505 DPA 1.55 RAP 178.37 ECC 1.2484

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 46 5	1723.37	-5.42	12.39	10.91	117.84	6 14 49	1123.4	-1.65	5.74
90.00	14 16 38	5219.22	26.37	234.60	15.72	79.30	15 43 37	4619.2	24.63	226.37
100.00	7 0 30	1483.31	-6.44	354.18	10.36	119.25	7 25 13	883.3	-2.49	347.62
100.00	15 44 55	4934.52	27.51	213.41	15.46	77.82	17 7 9	4334.5	25.56	205.15
110.00	7 53 8	1318.43	-9.08	340.06	8.74	123.10	8 15 7	718.4	-4.66	333.76
110.00	17 8 45	4672.17	30.51	192.62	14.59	73.78	18 26 38	4072.2	27.98	184.33

DIFFERENTIAL CORRECTIONS
TDE .4425 TRA -.4893 TC3 .8884 BAU .1820
RDE -.2546 RRA -.0852 RC3 .1550 FAU .04268
FDE -.7145 FRA .1911 FC3-2.4481 BSP 3733
BDE .5105 BRA .4966 BC3 .9018 FSP -511

MID-COURSE EXECUTION ACCURACY
SGT 1205.0 SGR 415.0 SG3 189.5
RRT -.1323 RRF .1419 RTF -.8381
SGB 1274.5 R23 -.0167 R13 .8385
SG1 1206.4 SG2 410.8 THA 177.05

ORBIT DETERMINATION ACCURACY
ST 689.7 SR 377.5 SS 686.6
CRT -.9077 CRS -.9809 CST .9696
LSA 1031.2 MSA 160.6 SSA 20.9
EL1 773.5 EL2 141.3 ALF 152.59

LAUNCH DATE JUN 17 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 21 1967

HELIOCENTRIC CONIC DISTANCE 247.022

RL 151.98 LAL -.00 LOL 265.14 VL 26.005 GAL -1.65 AZL 93.21 HCA 105.80 SMA 124.01 ECC .22732 INC 3.2085 V1 29.314
RP 108.58 LAP -3.09 LOP 10.97 VP 37.074 GAP -11.05 AZP 89.13 TAL 185.64 TAP 291.45 RCA 95.82 APO 152.20 V2 34.903
RC 51.950 GL -22.70 GP -2.76 ZAL 103.79 ZAP 12.42 ETS 11.91 ZAE 148.12 ETE 13.22 ZAC 87.37 ETC 13.66 CLP -12.12

PLANETOCENTRIC CONIC

C3 14.218 VHL 3.771 DLA -13.27 RAL 153.08 RAD 6567.6 VEL 11.645 PTH 2.04 VHP 7.068 DPA .99 RAP 179.12 ECC 1.2340

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 39 8	1710.96	-5.02	11.69	8.42	117.90	6 7 38	1111.0	-1.25	5.04
90.00	14 10 7	5205.04	26.19	233.61	13.03	78.83	15 36 52	4605.0	24.38	225.40
100.00	6 53 33	1470.85	-6.02	353.49	7.87	119.33	7 18 4	870.8	-2.07	346.94
100.00	15 38 23	4920.39	27.30	212.41	12.77	77.33	17 0 23	4320.4	25.29	204.19
110.00	7 46 14	1305.85	-8.61	339.39	6.28	123.21	8 8 0	705.8	-4.18	333.10
110.00	17 2 11	4658.15	30.24	191.61	11.89	73.24	18 19 49	4058.2	27.65	183.38

DIFFERENTIAL CORRECTIONS
TDE .4426 TRA -.4590 TC3 .9865 BAU .1896
RDE -.2453 RRA -.0797 RC3 .1488 FAU .04668
FDE -.7757 FRA .1586 FC3-2.8422 BSP 3828
BDE .5060 BRA .4658 BC3 .9977 FSP -579

MID-COURSE EXECUTION ACCURACY
SGT 1232.5 SGR 408.6 SG3 212.4
RRT -.1549 RRF .1672 RTF -.8463
SGB 1298.5 R23 -.0206 R13 .8469
SG1 1234.4 SG2 403.1 THA 176.71

ORBIT DETERMINATION ACCURACY
ST 706.4 SR 374.6 SS 722.3
CRT -.9167 CRS -.9848 CST .9696
LSA 1065.6 MSA 158.3 SSA 21.2
EL1 788.2 EL2 134.2 ALF 153.24

LAUNCH DATE JUN 17 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 23 1967

HELIOCENTRIC CONIC DISTANCE 253.727

RL 151.98 LAL -.00 LOL 265.14 VL 26.135 GAL -1.79 AZL 93.18 HCA 108.99 SMA 124.80 ECC .21992 INC 3.1770 V1 29.314
RP 108.54 LAP -3.00 LOP 14.16 VP 37.176 GAP -10.29 AZP 88.97 TAL 186.38 TAP 295.36 RCA 97.35 APO 152.25 V2 34.914
RC 53.515 GL -23.23 GP -3.00 ZAL 105.23 ZAP 14.79 ETS 10.67 ZAE 147.58 ETE 11.92 ZAC 86.65 ETC 13.68 CLP -14.49

PLANETOCENTRIC CONIC

C3 13.469 VHL 3.670 DLA -13.19 RAL 151.44 RAD 6567.5 VEL 11.613 PTH 2.03 VHP 6.652 DPA .44 RAP 179.76 ECC 1.2217

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 31 51	1701.92	-4.73	11.18	6.05	117.95	6 0 13	1101.9	-.96	4.54
90.00	14 4 16	5190.36	25.99	232.58	10.47	78.35	15 30 46	4590.4	24.12	224.41
100.00	6 46 19	1461.64	-5.71	352.98	5.51	119.39	7 10 41	861.6	-1.75	346.43
100.00	15 32 28	4905.88	27.08	211.38	10.20	76.84	16 54 14	4305.9	25.00	203.20
110.00	7 39 7	1296.27	-8.26	338.88	3.95	123.29	8 0 43	696.3	-3.82	332.60
110.00	16 56 10	4644.00	29.96	190.61	9.31	72.71	18 13 34	4044.0	27.30	182.43

DIFFERENTIAL CORRECTIONS
TDE .4408 TRA -.4293 TC3 1.0788 BAU .1959
RDE -.2370 RRA -.0747 RC3 .1386 FAU .05118
FDE -.8429 FRA .1211 FC3-3.2894 BSP 3914
BDE .5005 BRA .4357 BC3 1.0877 FSP -657

MID-COURSE EXECUTION ACCURACY
SGT 1254.8 SGR 401.9 SG3 238.2
RRT -.1815 RRF .1966 RTF -.8532
SGB 1317.6 R23 -.0252 R13 .8539
SG1 1257.1 SG2 394.5 THA 176.31

ORBIT DETERMINATION ACCURACY
ST 718.9 SR 371.7 SS 758.1
CRT -.9247 CRS -.9881 CST .9694
LSA 1097.6 MSA 156.6 SSA 21.4
EL1 799.2 EL2 127.3 ALF 153.73

LAUNCH DATE JUN 17 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 25 1967

HELIOCENTRIC CONIC DISTANCE 260.421

RL 151.98 LAL -.00 LOL 265.14 VL 26.253 GAL -1.92 AZL 93.14 HCA 112.17 SMA 125.53 ECC .21326 INC 3.1442 V1 29.314
RP 108.50 LAP -2.91 LOP 17.34 VP 37.270 GAP -9.56 AZP 88.81 TAL 187.11 TAP 299.28 RCA 98.76 APO 152.30 V2 34.926
RC 55.163 GL -23.69 GP -3.28 ZAL 106.64 ZAP 17.29 ETS 9.77 ZAE 147.30 ETE 10.69 ZAC 86.05 ETC 13.70 CLP -16.99

PLANETOCENTRIC CONIC

C3 12.828 VHL 3.582 DLA -13.05 RAL 149.85 RAD 6567.5 VEL 11.585 PTH 2.03 VHP 6.256 DPA -.10 RAP 180.27 ECC 1.2111

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 24 22	1696.00	-4.54	10.85	3.82	117.98	5 52 38	1096.0	-.77	4.21
90.00	13 59 7	5175.20	25.78	231.52	8.06	77.86	15 25 22	4575.2	23.85	223.38
100.00	6 38 56	1455.43	-5.51	352.64	3.29	119.43	7 3 11	855.4	-1.54	346.09
100.00	15 27 14	4891.01	26.85	210.34	7.78	76.34	16 48 45	4291.0	24.70	202.20
110.00	7 31 55	1289.47	-8.00	338.51	1.76	123.34	7 53 25	689.5	-3.56	332.24
110.00	16 50 44	4629.73	29.66	189.60	6.88	72.17	18 7 54	4029.7	26.94	181.47

DIFFERENTIAL CORRECTIONS
TDE .4376 TRA -.3999 TC3 1.1660 BAU .2011
RDE -.2296 RRA -.0705 RC3 .1237 FAU .05633
FDE -.9184 FRA .0770 FC3-3.8018 BSP 3988
BDE .4942 BRA .4061 BC3 1.1725 FSP -747

MID-COURSE EXECUTION ACCURACY
SGT 1272.3 SGR 395.2 SG3 267.6
RRT -.2131 RRF .2319 RTF -.8593
SGB 1332.3 R23 -.0310 R13 .8602
SG1 1275.4 SG2 385.2 THA 175.83

ORBIT DETERMINATION ACCURACY
ST 727.6 SR 369.0 SS 795.6
CRT -.9320 CRS -.9908 CST .9691
LSA 1128.7 MSA 155.5 SSA 21.5
EL1 806.9 EL2 120.6 ALF 154.08

LAUNCH DATE JUN 17 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 27 1967

DISTANCE 267.102

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.359 GAL -2.03 AZL 93.11 HCA 115.36 SMA 126.19 ECC .20729 INC 3.1099 V1 29.314
RP 108.46 LAP -2.81 LOP 20.53 VP 37.356 GAP -8.86 AZP 88.67 TAL 187.82 TAP 303.18 RCA 100.03 APO 152.35 V2 34.938
RC 56.885 GL -24.07 GP -3.59 ZAL 108.00 ZAP 19.93 ETS 9.10 ZAE 147.28 ETE 9.49 ZAC 85.59 ETC 13.73 CLP -19.62

PLANETOCENTRIC CONIC
C3 12.279 VHL 3.504 DLA -12.87 RAL 148.35 RAD 6567.5 VEL 11.561 PTH 2.02 VHP 5.881 DPA -.61 RAP 180.65 ECC 1.2021

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 16 49	1692.89	-4.44	10.68	1.74	117.99	5 45 2	1092.9	-.66	4.04
90.00	13 54 41	5159.63	25.55	230.43	5.80	77.36	15 20 41	4559.6	23.56	222.33
100.00	6 31 30	1451.94	-5.39	352.44	1.22	119.45	6 55 41	851.9	-1.43	345.90
100.00	15 22 42	4875.82	26.60	209.28	5.52	75.83	16 43 57	4275.8	24.39	201.18
110.00	7 24 44	1285.19	-7.84	338.29	359.71	123.38	7 46 9	685.2	-3.40	332.02
110.00	16 45 56	4615.33	29.36	188.59	4.61	71.65	18 2 52	4015.3	26.57	180.51

DIFFERENTIAL CORRECTIONS
TDE .4323 TRA -.3719 TC3 1.2425 BAU .2047
RDE -.2232 RRA -.0669 RC3 .1035 FAU .06217
FDE-1.0025 FRA .0270 FC3-4.3834 BSP 4042
BDE .4866 BRA .3778 BC3 1.2468 FSP -850

MID-COURSE EXECUTION ACCURACY
SGT 1283.3 SGR 388.7 SG3 300.9
RRT -.2504 RRF .2737 RTF -.8642
SGB 1340.9 R23 -.0382 R13 .8654
SG1 1287.4 SG2 375.1 THA 175.26

ORBIT DETERMINATION ACCURACY
ST 731.7 SR 366.5 SS 834.3
CRT -.9383 CRS -.9931 CST .9687
LSA 1158.1 MSA 155.1 SSA 21.4
EL1 810.3 EL2 114.4 ALF 154.27

LAUNCH DATE JUN 17 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 29 1967

DISTANCE 273.768

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.454 GAL -2.14 AZL 93.07 HCA 118.55 SMA 126.80 ECC .20196 INC 3.0737 V1 29.314
RP 108.43 LAP -2.70 LOP 23.73 VP 37.435 GAP -8.18 AZP 88.53 TAL 188.51 TAP 307.06 RCA 101.19 APO 152.40 V2 34.951
RC 58.673 GL -24.36 GP -3.94 ZAL 109.29 ZAP 22.74 ETS 8.59 ZAE 147.55 ETE 8.28 ZAC 85.30 ETC 13.77 CLP -22.41

PLANETOCENTRIC CONIC
C3 11.807 VHL 3.436 DLA -12.64 RAL 146.95 RAD 6567.5 VEL 11.541 PTH 2.01 VHP 5.526 DPA -1.10 RAP 180.87 ECC 1.1943

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 9 17	1692.30	-4.43	10.64	359.81	118.00	5 37 29	1092.3	-.65	4.00
90.00	13 51 1	5143.68	25.31	229.33	3.71	76.86	15 16 45	4543.7	23.25	221.26
100.00	6 24 7	1450.88	-5.35	352.38	359.30	119.45	6 48 17	850.9	-1.39	345.84
100.00	15 18 53	4860.32	26.34	208.20	3.43	75.32	16 39 53	4260.3	24.06	200.14
110.00	7 17 40	1283.16	-7.76	338.18	357.82	123.39	7 39 3	683.2	-3.32	331.91
110.00	16 41 49	4600.81	29.04	187.58	2.51	71.12	17 58 30	4000.8	26.19	179.56

DIFFERENTIAL CORRECTIONS
TDE .4256 TRA -.3447 TC3 1.3092 BAU .2070
RDE -.2178 RRA -.0640 RC3 .0774 FAU .06885
FDE-1.0967 FRA -.0307 FC3-5.0487 BSP 4100
BDE .4781 BRA .3506 BC3 1.3115 FSP -970

MID-COURSE EXECUTION ACCURACY
SGT 1288.4 SGR 382.9 SG3 338.9
RRT -.2948 RRF .3231 RTF -.8683
SGB 1344.1 R23 -.0469 R13 .8699
SG1 1293.8 SG2 364.4 THA 174.56

ORBIT DETERMINATION ACCURACY
ST 731.8 SR 364.6 SS 874.6
CRT -.9439 CRS -.9948 CST .9681
LSA 1187.0 MSA 155.1 SSA 21.2
EL1 810.3 EL2 108.8 ALF 154.32

LAUNCH DATE JUN 17 1967 FLIGHT TIME 106.00 ARRIVAL DATE OCT 1 1967

DISTANCE 280.417

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.538 GAL -2.24 AZL 93.04 HCA 121.74 SMA 127.34 ECC .19724 INC 3.0352 V1 29.314
RP 108.39 LAP -2.58 LOP 26.92 VP 37.506 GAP -7.52 AZP 88.40 TAL 189.17 TAP 310.91 RCA 102.23 APO 152.46 V2 34.964
RC 60.521 GL -24.58 GP -4.35 ZAL 110.51 ZAP 25.72 ETS 8.20 ZAE 148.10 ETE 7.04 ZAC 85.18 ETC 13.81 CLP -25.38

PLANETOCENTRIC CONIC
C3 11.398 VHL 3.376 DLA -12.38 RAL 145.66 RAD 6567.4 VEL 11.523 PTH 2.01 VHP 5.192 DPA -1.56 RAP 180.91 ECC 1.1876

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 1 54	1693.91	-4.48	10.73	358.06	117.99	5 30 7	1093.9	-.70	4.09
90.00	13 48 8	5127.37	25.05	228.20	1.79	76.35	15 13 35	4527.4	22.93	220.18
100.00	6 16 53	1451.96	-5.39	352.44	357.56	119.45	6 41 5	852.0	-1.43	345.90
100.00	15 15 49	4844.56	26.06	207.11	1.50	74.81	16 36 34	4244.6	23.72	199.10
110.00	7 10 48	1283.10	-7.76	338.17	356.10	123.39	7 32 11	683.1	-3.32	331.91
110.00	16 38 24	4586.18	28.72	186.56	.57	70.60	17 54 50	3986.2	25.80	178.60

DIFFERENTIAL CORRECTIONS
TDE .4150 TRA -.3207 TC3 1.3557 BAU .2067
RDE -.2132 RRA -.0617 RC3 .0446 FAU .07639
FDE-1.2004 FRA -.0949 FC3-5.8019 BSP 4096
BDE .4666 BRA .3265 BC3 1.3564 FSP -1104

MID-COURSE EXECUTION ACCURACY
SGT 1282.4 SGR 378.6 SG3 381.8
RRT -.3450 RRF .3807 RTF -.8699
SGB 1337.1 R23 -.0595 R13 .8721
SG1 1289.5 SG2 353.3 THA 173.71

ORBIT DETERMINATION ACCURACY
ST 724.4 SR 363.2 SS 915.8
CRT -.9479 CRS -.9961 CST .9670
LSA 1212.7 MSA 156.1 SSA 20.9
EL1 803.7 EL2 104.3 ALF 154.11

LAUNCH DATE JUN 17 1967 FLIGHT TIME 108.00 ARRIVAL DATE OCT 3 1967

DISTANCE 287.049

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.613 GAL -2.32 AZL 92.99 HCA 124.94 SMA 127.83 ECC .19306 INC 2.9939 V1 29.314
RP 108.35 LAP -2.45 LOP 30.12 VP 37.571 GAP -6.89 AZP 88.28 TAL 189.79 TAP 314.72 RCA 103.15 APO 152.51 V2 34.977
RC 62.420 GL -24.71 GP -4.82 ZAL 111.64 ZAP 28.90 ETS 7.90 ZAE 148.96 ETE 5.71 ZAC 85.26 ETC 13.85 CLP -28.53

PLANETOCENTRIC CONIC
C3 11.042 VHL 3.323 DLA -12.08 RAL 144.50 RAD 6567.4 VEL 11.508 PTH 2.00 VHP 4.879 DPA -2.00 RAP 180.75 ECC 1.1817

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 54 43	1697.46	-4.59	10.93	356.47	117.97	5 23 0	1097.5	-.81	4.29
90.00	13 46 0	5110.72	24.78	227.06	.04	75.84	15 11 11	4510.7	22.59	219.07
100.00	6 9 54	1454.91	-5.49	352.61	355.98	119.43	6 34 9	854.9	-1.53	346.06
100.00	15 13 31	4828.50	25.77	206.01	359.75	74.30	16 33 59	4228.5	23.37	198.04
110.00	7 4 13	1284.79	-7.83	338.26	354.54	123.38	7 25 38	684.8	-3.38	332.00
110.00	16 35 41	4571.39	28.38	185.55	358.81	70.09	17 51 52	3971.4	25.40	177.64

DIFFERENTIAL CORRECTIONS
TDE .4007 TRA -.3000 TC3 1.3795 BAU .2036
RDE -.2095 RRA -.0601 RC3 .0045 FAU .08478
FDE-1.3129 FRA -.1637 FC3-6.6473 BSP 4047
BDE .4522 BRA .3060 BC3 1.3795 FSP -1254

MID-COURSE EXECUTION ACCURACY
SGT 1264.0 SGR 376.5 SG3 429.6
RRT -.4008 RRF .4461 RTF -.8690
SGB 1318.9 R23 -.0766 R13 .8721
SG1 1273.7 SG2 342.3 THA 172.66

ORBIT DETERMINATION ACCURACY
ST 709.5 SR 362.6 SS 956.6
CRT -.9505 CRS -.9971 CST .9652
LSA 1234.8 MSA 157.7 SSA 20.4
EL1 790.3 EL2 101.1 ALF 153.62

LAUNCH DATE JUN 17 1967 FLIGHT TIME 110.00 ARRIVAL DATE OCT 5 1967

HELIOCENTRIC CONIC DISTANCE 293.662

RL	151.98	LAL	-.00	LOL	265.14	VL	26.679	GAL	-2.40	AZL	92.95	HCA	128.13	SMA	128.27	ECC	.18939	INC	2.9493	V1	29.314
RP	108.31	LAP	-2.32	LOP	33.31	VP	37.631	GAP	-6.27	AZP	88.18	TAL	190.35	TAP	318.49	RCA	103.97	APO	152.56	V2	34.990
RC	64.367	GL	-24.75	GP	-5.36	ZAL	112.67	ZAP	32.31	ETS	7.65	ZAE	150.12	ETE	4.22	ZAC	85.57	ETC	13.89	CLP	-31.91

PLANETOCENTRIC CONIC

C3	10.729	VHL	3.275	DLA	-11.75	RAL	143.46	RAD	6567.4	VEL	11.494	PTH	2.00	VHP	4.587	DPA	-2.42	RAP	180.36	ECC	1.1766

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 47 49	1702.71	-4.76	11.23	355.06	117.95	5 16 12	1102.7	-.98	4.58
90.00	13 44 40	5093.68	24.49	225.89	358.47	75.33	15 9 34	4493.7	22.24	217.95
100.00	6 3 12	1459.51	-5.64	352.86	354.57	119.40	6 27 31	859.5	-1.68	346.31
100.00	15 11 59	4812.11	25.46	204.89	358.18	73.79	16 32 11	4212.1	23.00	196.96
110.00	6 57 58	1288.01	-7.95	338.44	353.16	123.36	7 19 26	688.0	-3.50	332.17
110.00	16 33 42	4556.38	28.02	184.52	357.23	69.57	17 49 39	3956.4	24.99	176.67

DIFFERENTIAL CORRECTIONS

TDE	.3827	TRA	-.2821	TC3	1.3791	BAU	.1979																
RDE	-.2068	RRA	-.0593	RC3	-.0444	FAU	.09421																
FDE	-1.4350	FRA	-.2407	FC3	-7.6022	BSP	3957																
BDE	.4350	BRA	.2882	BC3	1.3798	FSP	-1424																

MID-COURSE EXECUTION ACCURACY

SGT	1232.2	SGR	378.0	SG3	483.3						
RRT	-.4616	RRF	.5195	RTF	-.8651						
SGB	1288.9	R23	-.1001	R13	.8699						
SG1	1245.5	SG2	331.8	THA	171.32						

ORBIT DETERMINATION ACCURACY

ST	686.8	SR	363.1	SS	997.8						
CRT	-.9517	CRS	-.9977	CST	.9627						
LSA	1254.3	MSA	159.8	SSA	19.9						
EL1	770.5	EL2	99.3	ALF	152.80						

LAUNCH DATE JUN 17 1967 FLIGHT TIME 112.00 ARRIVAL DATE OCT 7 1967

HELIOCENTRIC CONIC DISTANCE 300.256

RL	151.98	LAL	-.00	LOL	265.14	VL	26.737	GAL	-2.46	AZL	92.90	HCA	131.33	SMA	128.65	ECC	.18618	INC	2.9005	V1	29.314
RP	108.27	LAP	-2.18	LOP	36.51	VP	37.684	GAP	-5.68	AZP	88.08	TAL	190.86	TAP	322.20	RCA	104.70	APO	152.60	V2	35.003
RC	66.356	GL	-24.72	GP	-5.98	ZAL	113.61	ZAP	35.95	ETS	7.45	ZAE	151.61	ETE	2.49	ZAC	86.13	ETC	13.91	CLP	-35.52

PLANETOCENTRIC CONIC

C3	10.449	VHL	3.232	DLA	-11.39	RAL	142.57	RAD	6567.4	VEL	11.482	PTH	2.00	VHP	4.316	DPA	-2.82	RAP	179.73	ECC	1.1720

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 41 13	1709.53	-4.98	11.61	353.82	117.91	5 9 43	1109.5	-1.20	4.96
90.00	13 44 9	5076.14	24.18	224.70	357.08	74.80	15 8 45	4476.1	21.86	216.80
100.00	5 56 49	1465.63	-5.85	353.20	353.34	119.37	6 21 15	865.6	-1.89	346.65
100.00	15 11 14	4795.27	25.14	203.74	356.78	73.27	16 31 9	4195.3	22.61	195.86
110.00	6 52 4	1292.62	-8.12	338.68	351.95	123.32	7 13 37	692.6	-3.68	332.41
110.00	16 32 29	4541.04	27.66	183.48	355.82	69.06	17 48 10	3941.0	24.56	175.68

DIFFERENTIAL CORRECTIONS

TDE	.3624	TRA	-.2663	TC3	1.3553	BAU	.1899				
RDE	-.2053	RRA	-.0594	RC3	-.1041	FAU	.10478				
FDE	-1.5698	FRA	-.3261	FC3	-8.6817	BSP	3858				
BDE	.4165	BRA	.2729	BC3	1.3593	FSP	-1623				

MID-COURSE EXECUTION ACCURACY

SGT	1188.4	SGR	385.3	SG3	543.7						
RRT	-.5264	RRF	.5996	RTF	-.8587						
SGB	1249.3	R23	-.1310	R13	.8662						
SG1	1206.9	SG2	322.5	THA	169.56						

ORBIT DETERMINATION ACCURACY

ST	658.9	SR	365.3	SS	1041.7						
CRT	-.9519	CRS	-.9982	CST	.9596						
LSA	1275.2	MSA	161.9	SSA	19.2						
EL1	746.9	EL2	98.7	ALF	151.64						

LAUNCH DATE JUN 17 1967 FLIGHT TIME 114.00 ARRIVAL DATE OCT 9 1967

HELIOCENTRIC CONIC DISTANCE 306.830

RL	151.98	LAL	-.00	LOL	265.14	VL	26.788	GAL	-2.51	AZL	92.85	HCA	134.54	SMA	128.99	ECC	.18340	INC	2.8466	V1	29.314
RP	108.22	LAP	-2.03	LOP	39.71	VP	37.732	GAP	-5.11	AZP	88.00	TAL	191.31	TAP	325.84	RCA	105.33	APO	152.64	V2	35.016
RC	68.382	GL	-24.60	GP	-6.71	ZAL	114.44	ZAP	39.86	ETS	7.28	ZAE	153.41	ETE	.36	ZAC	86.95	ETC	13.90	CLP	-39.39

PLANETOCENTRIC CONIC

C3	10.194	VHL	3.193	DLA	-10.99	RAL	141.83	RAD	6567.4	VEL	11.471	PTH	1.99	VHP	4.068	DPA	-3.21	RAP	178.83	ECC	1.1678

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 34 58	1717.80	-5.24	12.08	352.75	117.87	5 3 36	1117.8	-1.47	5.43
90.00	13 44 28	5057.94	23.85	223.47	355.85	74.27	15 8 46	4457.9	21.47	215.61
100.00	5 50 48	1473.14	-6.10	353.62	352.28	119.32	6 15 21	873.1	-2.14	347.06
100.00	15 11 19	4777.83	24.79	202.56	355.55	72.74	16 30 57	4177.8	22.19	194.73
110.00	6 46 34	1298.52	-8.34	339.00	350.91	123.27	7 8 12	698.5	-3.90	332.72
110.00	16 32 3	4525.22	27.27	182.41	354.58	68.54	17 47 28	3925.2	24.10	174.67

DIFFERENTIAL CORRECTIONS

TDE	.3354	TRA	-.2566	TC3	1.2912	BAU	.1776				
RDE	-.2048	RRA	-.0600	RC3	-.1755	FAU	.11617				
FDE	-1.7065	FRA	-.4110	FC3	-9.8655	BSP	3656				
BDE	.3930	BRA	.2635	BC3	1.3031	FSP	-1832				

MID-COURSE EXECUTION ACCURACY

SGT	1123.5	SGR	399.5	SG3	608.7						
RRT	-.5840	RRF	.6799	RTF	-.8447						
SGB	1192.4	R23	-.1770	R13	.8573						
SG1	1149.5	SG2	316.9	THA	167.29						

ORBIT DETERMINATION ACCURACY

ST	618.6	SR	368.9	SS	1081.3						
CRT	-.9491	CRS	-.9985	CST	.9543						
LSA	1288.6	MSA	164.7	SSA	18.5						
EL1	713.2	EL2	100.8	ALF	149.82						

LAUNCH DATE JUN 17 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 11 1967

HELIOCENTRIC CONIC DISTANCE 313.383

RL	151.98	LAL	-.00	LOL	265.14	VL	26.831	GAL	-2.55	AZL	92.79	HCA	137.74	SMA	129.28	ECC	.18100	INC	2.7864	V1	29.314
RP	108.18	LAP	-1.87	LOP	42.92	VP	37.775	GAP	-4.55	AZP	87.94	TAL	191.68	TAP	329.42	RCA	105.88	APO	152.68	V2	35.029
RC	70.443	GL	-24.39	GP	-7.54	ZAL	115.16	ZAP	44.05	ETS	7.11	ZAE	155.53	ETE	357.64	ZAC	88.06	ETC	13.86	CLP	-43.53

PLANETOCENTRIC CONIC

C3	9.958	VHL	3.156	DLA	-10.55	RAL	141.23	RAD	6567.4	VEL	11.461	PTH	1.99	VHP	3.843	DPA	-3.59	RAP	177.64	ECC	1.1639

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 29 1	1727.57	-5.55	12.63	351.85	117.81	4 57 49	1127.6	-1.78	5.97
90.00	13 45 41	5038.82	23.49	222.18	354.79	73.72	15 9 40	4438.8	21.04	214.37
100.00	5 45 7	1482.09	-6.39	354.12	351.39	119.26	6 9 49	882.1	-2.45	347.55
100.00	15 12 17	4759.52	24.41	201.33	354.48	72.20	16 31 36	4159.5	21.75	193.55
110.00	6 41 26	1305.73	-8.61	339.38	350.03	123.21	7 3 12	705.7	-4.18	333.09
110.00	16 32 27	4508.65	26.85	181.31	353.50	68.00	17 47 36	3908.7	23.62	173.63

DIFFERENTIAL CORRECTIONS

TDE	.3057	TRA	-.2495	TC3	1.1972	BAU	.1632				
RDE	-.2058	RRA	-.0616	RC3	-.2626	FAU	.12871				
FDE	-1.8524	FRA	-.5025	FC	-11.1894	BSP	3444				
BDE	.3686	BRA	.2570	BC3	1.2256	FSP	-2071				

MID-COURSE EXECUTION ACCURACY

SGT	1044.7	SGR	424.3	SG3	680.6						
RRT	-.6321	RRF	.7578	RTF	-.8234						
SGB	1127.5	R23	-.2370	R13	.8459						
SG1	1081.9	SG2	317.4	THA	164.20						

ORBIT DETERMINATION ACCURACY

ST	572.5	SR	375.3	SS	1122.7						
CRT	-.9441	CRS	-.9987	CST	.9470						
LSA	1304.1	MSA	167.2	SSA	17.7						
EL1	676.5	EL2	104.7	ALF	147.37						

LAUNCH DATE JUN 17 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 13 1967

DISTANCE 319.915

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.867 GAL -2.58 AZL 92.72 HCA 140.95 SMA 129.52 ECC .17895 INC 2.7182 V1 29.314
RP 108.14 LAP -1.71 LOP 46.12 VP 37.813 GAP -4.02 AZP 87.89 TAL 191.99 TAP 332.94 RCA 106.35 APO 152.70 V2 35.042
RC 72.534 GL -24.08 GP -8.52 ZAL 115.78 ZAP 48.51 ETS 6.92 ZAE 157.92 ETE 353.97 ZAC 89.47 ETC 13.78 CLP -47.95

PLANETOCENTRIC CONIC
C3 9.734 VHL 3.120 DLA -10.07 RAL 140.80 RAD 6567.4 VEL 11.451 PTH 1.99 VHP 3.642 DPA -3.99 RAP 176.14 ECC 1.1602

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 23 21	1738.96	-5.91	13.27	351.12	117.74	4 52 20	1139.0	-2.15	6.61
90.00	13 47 53	5018.38	23.10	220.82	353.89	73.15	15 11 31	4418.4	20.57	213.06
100.00	5 39 43	1492.60	-6.74	354.70	350.66	119.19	6 4 36	892.6	-2.80	348.13
100.00	15 14 12	4739.97	24.00	200.03	353.57	71.63	16 33 12	4140.0	21.27	192.30
110.00	6 36 39	1314.33	-8.93	339.84	349.33	123.13	6 58 33	714.3	-4.50	333.55
110.00	16 33 46	4491.00	26.39	180.14	352.59	67.44	17 48 37	3891.0	23.10	172.52

DIFFERENTIAL CORRECTIONS
TDE .2689 TRA -.2487 TC3 1.0519 BAU .1450
RDE -.2079 RRA -.0638 RC3 -.3663 FAU .14158
FDE-1.9877 FRA -.5859 FC-12.5921 BSP 3125
BDE .3400 BRA .2567 BC3 1.1139 FSP -2307

MID-COURSE EXECUTION ACCURACY
SGT 943.4 SGR 460.7 SG3 754.5
RRT -.6523 RRF .8253 RTF -.7834
SGB 1049.8 R23 -.3180 R13 .8274
SG1 996.4 SG2 330.6 THA 160.04

ORBIT DETERMINATION ACCURACY
ST 513.5 SR 383.6 SS 1155.6
CRT -.9330 CRS -.9989 CST .9343
LSA 1310.3 MSA 170.2 SSA 16.9
EL1 631.0 EL2 112.4 ALF 143.80

LAUNCH DATE JUN 17 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 15 1967

DISTANCE 326.426

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.897 GAL -2.60 AZL 92.64 HCA 144.16 SMA 129.73 ECC .17723 INC 2.6399 V1 29.314
RP 108.10 LAP -1.55 LOP 49.33 VP 37.846 GAP -3.50 AZP 87.86 TAL 192.22 TAP 336.37 RCA 106.74 APO 152.72 V2 35.056
RC 74.652 GL -23.65 GP -9.65 ZAL 116.30 ZAP 53.27 ETS 6.69 ZAE 160.52 ETE 348.76 ZAC 91.18 ETC 13.62 CLP -52.65

PLANETOCENTRIC CONIC
C3 9.515 VHL 3.085 DLA -9.52 RAL 140.53 RAD 6567.3 VEL 11.441 PTH 1.98 VHP 3.466 DPA -4.42 RAP 174.32 ECC 1.1566

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 17 52	1752.34	-6.33	14.02	350.55	117.66	4 47 5	1152.3	-2.58	7.35
90.00	13 51 11	4996.04	22.65	219.33	353.14	72.54	15 14 27	4396.0	20.05	211.63
100.00	5 34 32	1505.00	-7.16	355.39	350.11	119.10	5 59 37	905.0	-3.22	348.81
100.00	15 17 12	4718.61	23.54	198.61	352.82	71.02	16 35 51	4118.6	20.73	190.94
110.00	6 32 9	1324.62	-9.31	340.39	348.80	123.04	6 54 13	724.6	-4.90	334.09
110.00	16 36 5	4471.75	25.88	178.87	351.82	66.85	17 50 37	3871.8	22.52	171.33

DIFFERENTIAL CORRECTIONS
TDE .2275 TRA -.2527 TC3 .8593 BAU .1259
RDE -.2115 RRA -.0665 RC3 -.4916 FAU .15469
FDE-2.1108 FRA -.6586 FC-14.0754 BSP 2793
BDE .3106 BRA .2613 BC3 .9899 FSP -2558

MID-COURSE EXECUTION ACCURACY
SGT 828.3 SGR 511.8 SG3 830.1
RRT -.6302 RRF .8803 RTF -.7124
SGB 973.6 R23 -.4089 R13 .8056
SG1 902.8 SG2 364.6 THA 154.22

ORBIT DETERMINATION ACCURACY
ST 446.3 SR 394.7 SS 1182.1
CRT -.9126 CRS -.9991 CST .9127
LSA 1312.3 MSA 173.1 SSA 16.1
EL1 582.8 EL2 123.6 ALF 138.84

LAUNCH DATE JUN 17 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 17 1967

DISTANCE 332.916

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.922 GAL -2.60 AZL 92.55 HCA 147.37 SMA 129.90 ECC .17580 INC 2.5482 V1 29.314
RP 108.06 LAP -1.37 LOP 52.53 VP 37.876 GAP -2.99 AZP 87.85 TAL 192.37 TAP 339.74 RCA 107.06 APO 152.73 V2 35.069
RC 76.795 GL -23.09 GP -10.98 ZAL 116.72 ZAP 58.30 ETS 6.38 ZAE 163.18 ETE 341.03 ZAC 93.19 ETC 13.38 CLP -57.64

PLANETOCENTRIC CONIC
C3 9.295 VHL 3.049 DLA -8.89 RAL 140.42 RAD 6567.3 VEL 11.432 PTH 1.98 VHP 3.318 DPA -4.93 RAP 172.18 ECC 1.1530

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 12 26	1768.29	-6.84	14.93	350.16	117.55	4 41 54	1168.3	-3.09	8.25
90.00	13 55 49	4970.95	22.13	217.68	352.54	71.87	15 18 40	4370.9	19.44	210.03
100.00	5 29 26	1519.85	-7.65	356.22	349.72	118.99	5 54 46	919.8	-3.72	349.63
100.00	15 21 29	4694.62	23.00	197.03	352.22	70.36	16 39 44	4094.6	20.11	189.43
110.00	6 27 49	1337.07	-9.77	341.06	348.43	122.92	6 50 6	737.1	-5.37	334.74
110.00	16 39 36	4450.17	25.30	177.47	351.21	66.21	17 53 46	3850.2	21.86	170.00

DIFFERENTIAL CORRECTIONS
TDE .1829 TRA -.2593 TC3 .6198 BAU .1111
RDE -.2166 RRA -.0701 RC3 -.6440 FAU .16771
FDE-2.2152 FRA -.7251 FC-15.6208 BSP 2508
BDE .2835 BRA .2686 BC3 .8938 FSP -2816

MID-COURSE EXECUTION ACCURACY
SGT 710.1 SGR 581.1 SG3 906.0
RRT -.5395 RRF .9221 RTF -.5843
SGB 917.6 R23 -.4761 R13 .7964
SG1 811.6 SG2 428.1 THA 145.25

ORBIT DETERMINATION ACCURACY
ST 374.4 SR 409.3 SS 1202.1
CRT -.8756 CRS -.9992 CST .8746
LSA 1312.1 MSA 175.6 SSA 15.2
EL1 537.3 EL2 137.8 ALF 132.09

LAUNCH DATE JUN 17 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 19 1967

DISTANCE 339.384

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.941 GAL -2.60 AZL 92.44 HCA 150.58 SMA 130.03 ECC .17463 INC 2.4389 V1 29.314
RP 108.02 LAP -1.20 LOP 55.74 VP 37.902 GAP -2.50 AZP 87.88 TAL 192.45 TAP 343.03 RCA 107.32 APO 152.74 V2 35.082
RC 78.958 GL -22.36 GP -12.55 ZAL 117.05 ZAP 63.57 ETS 5.96 ZAE 165.57 ETE 329.26 ZAC 95.48 ETC 13.00 CLP -62.87

PLANETOCENTRIC CONIC
C3 9.068 VHL 3.011 DLA -8.14 RAL 140.51 RAD 6567.3 VEL 11.422 PTH 1.98 VHP 3.198 DPA -5.56 RAP 169.73 ECC 1.1492

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 6 49	1787.78	-7.45	16.03	349.94	117.40	4 36 37	1187.8	-3.72	9.34
90.00	14 2 4	4941.87	21.50	215.78	352.09	71.11	15 24 26	4341.9	18.72	208.20
100.00	5 24 14	1538.05	-8.25	357.24	349.51	118.83	5 49 52	938.0	-4.33	350.63
100.00	15 27 21	4666.83	22.35	195.22	351.76	69.61	16 45 8	4066.8	19.37	187.69
110.00	6 23 30	1352.46	-10.34	341.89	348.24	122.76	6 46 2	752.5	-5.95	335.55
110.00	16 44 34	4425.19	24.60	175.86	350.74	65.48	17 58 19	3825.2	21.09	168.48

DIFFERENTIAL CORRECTIONS
TDE .1337 TRA -.2711 TC3 .3187 BAU .1074
RDE -.2225 RRA -.0732 RC3 -.8270 FAU .17932
FDE-2.2723 FRA -.7573 FC-17.1202 BSP 2319
BDE .2596 BRA .2808 BC3 .8863 FSP -3041

MID-COURSE EXECUTION ACCURACY
SGT 610.8 SGR 668.7 SG3 974.1
RRT -.3183 RRF .9511 RTF -.3370
SGB 905.6 R23 -.4175 R13 .8554
SG1 738.4 SG2 524.3 THA 127.05

ORBIT DETERMINATION ACCURACY
ST 298.7 SR 425.7 SS 1203.8
CRT -.7959 CRS -.9994 CST .7944
LSA 1299.1 MSA 178.2 SSA 14.4
EL1 496.4 EL2 155.1 ALF 122.78

LAUNCH DATE JUN 17 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 21 1967

HELIOCENTRIC CONIC DISTANCE 345.831

```
RL  151.98 LAL   -.00 LOL 265.14 VL  26.955 GAL  -2.58 AZL  92.31 HCA 153.80 SMA 130.13 ECC .17370 INC 2.3053 V1  29.314
RP  107.98 LAP  -1.02 LOP  58.96 VP  37.924 GAP  -2.02 AZP  87.93 TAL 192.45 TAP 346.25 RCA 107.52 APO 152.73 V2  35.094
RC  81.139 GL  -21.38 GP  -14.41 ZAL 117.29 ZAP  69.03 ETS   5.39 ZAE 167.11 ETE 312.02 ZAC  98.01 ETC  12.46 CLP -68.31
```

PLANETOCENTRIC CONIC

```
C3   8.827 VHL  2.971 DLA  -7.21 RAL 140.79 RAD 6567.3 VEL 11.411 PTH   1.98 VHP  3.109 DPA  -6.39 RAP 166.99 ECC 1.1453
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 0 42	1812.40	-8.22	17.43	349.91	117.19	4 30 54	1212.4	-4.51	10.72
90.00	14 10 27	4906.90	20.71	213.52	351.78	70.25	15 32 14	4306.9	17.83	206.03
100.00	5 18 35	1561.12	-9.00	358.54	349.49	118.63	5 44 36	961.1	-5.11	351.91
100.00	15 35 15	4633.41	21.54	193.07	351.45	68.76	16 52 28	4033.4	18.46	185.63
110.00	6 18 57	1372.13	-11.06	342.96	348.25	122.55	6 41 49	772.1	-6.69	336.59
110.00	16 51 23	4395.16	23.74	173.95	350.42	64.65	18 4 38	3795.2	20.13	166.67

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .0828 TRA -.2853 TC3 -.0424 BAU  .1239   SGT  577.7 SGR  777.2 SG3 1030.2      ST   230.7 SR   443.0 SS  1182.8
RDE -.2284 RRA -.0757 RC3-1.0489 FAU .18871   RRT  .0600 RRF  .9705 RTF  .0568      CRT -.6166 CRS -.9995 CST  .6150
FDE-2.2651 FRA -.7533 FC-18.5091 BSP  2407    SGB  968.4 R23  .0720 R13  .9678      LSA 1271.1 MSA  180.7 SSA   13.6
BDE  .2429 BRA  .2952 BC3 1.0497 FSP  -3227   SG1  778.9 SG2  575.3 THA  84.36     EL1  469.1 EL2  171.5 ALF 110.69
```

LAUNCH DATE JUN 17 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 23 1967

HELIOCENTRIC CONIC DISTANCE 352.257

```
RL  151.98 LAL   -.00 LOL 265.14 VL  26.965 GAL  -2.55 AZL  92.14 HCA 157.01 SMA 130.20 ECC .17300 INC 2.1370 V1  29.314
RP  107.94 LAP   -.83 LOP  62.17 VP  37.942 GAP  -1.56 AZP  88.03 TAL 192.38 TAP 349.39 RCA 107.67 APO 152.72 V2  35.107
RC  83.336 GL  -20.08 GP  -16.65 ZAL 117.46 ZAP  74.61 ETS   4.61 ZAE 166.99 ETE 290.89 ZAC 100.74 ETC  11.68 CLP -73.92
```

PLANETOCENTRIC CONIC

```
C3   8.564 VHL  2.926 DLA  -6.00 RAL 141.30 RAD 6567.3 VEL 11.400 PTH   1.97 VHP  3.054 DPA  -7.54 RAP 163.96 ECC 1.1409
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 53 30	1844.80	-9.22	19.28	350.09	116.89	4 24 15	1244.8	-5.54	12.54
90.00	14 21 45	4863.00	19.68	210.71	351.62	69.22	15 42 48	4263.0	16.67	203.32
100.00	5 12 0	1591.58	-9.99	.26	349.69	118.32	5 38 32	991.6	-6.13	353.60
100.00	15 45 57	4591.46	20.48	190.40	351.29	67.74	17 2 28	3991.5	17.28	183.07
110.00	6 13 44	1398.31	-12.02	344.38	348.48	122.24	6 37 2	798.3	-7.68	337.98
110.00	17 0 42	4357.49	22.62	171.60	350.25	63.66	18 13 20	3757.5	18.90	164.44

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .0346 TRA -.2989 TC3 -.4597 BAU  .1605   SGT  650.6 SGR  913.0 SG3 1071.7      ST   189.3 SR   460.4 SS  1137.4
RDE -.2337 RRA -.0773 RC3-1.3246 FAU .19535   RRT  .4496 RRF  .9829 RTF  .4520      CRT -.2615 CRS -.9995 CST  .2607
FDE-2.1835 FRA -.7143 FC-19.7484 BSP  2871    SGB 1121.1 R23  .2462 R13  .9517      LSA 1228.0 MSA  182.6 SSA   12.8
BDE  .2362 BRA  .3087 BC3 1.4021 FSP  -3375   SG1  982.4 SG2  540.1 THA  63.76     EL1  463.5 EL2  181.5 ALF  97.25
```

LAUNCH DATE JUN 17 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 25 1967

HELIOCENTRIC CONIC DISTANCE 358.662

```
RL  151.98 LAL   -.00 LOL 265.14 VL  26.971 GAL  -2.52 AZL  91.92 HCA 160.23 SMA 130.23 ECC .17250 INC 1.9173 V1  29.314
RP  107.91 LAP   -.65 LOP  65.39 VP  37.958 GAP  -1.11 AZP  88.20 TAL 192.23 TAP 352.46 RCA 107.77 APO 152.70 V2  35.119
RC  85.546 GL  -18.27 GP  -19.44 ZAL 117.58 ZAP  80.20 ETS   3.53 ZAE 164.76 ETE 271.87 ZAC 103.58 ETC  10.57 CLP -79.61
```

PLANETOCENTRIC CONIC

```
C3   8.271 VHL  2.876 DLA  -4.37 RAL 142.11 RAD 6567.3 VEL 11.387 PTH   1.97 VHP  3.039 DPA  -9.19 RAP 160.68 ECC 1.1361
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 44 21	1889.59	-10.59	21.86	350.56	116.42	4 15 50	1289.6	-6.96	15.07
90.00	14 37 21	4805.11	18.24	207.08	351.65	67.95	15 57 26	4205.1	15.09	199.82
100.00	5 3 38	1633.80	-11.34	2.66	350.17	117.84	5 30 52	1033.8	-7.53	355.95
100.00	16 0 44	4536.13	19.02	186.95	351.31	66.49	17 16 20	3936.1	15.67	179.75
110.00	6 7 11	1434.87	-13.34	346.39	349.00	121.77	6 31 6	834.9	-9.04	339.93
110.00	17 13 41	4307.83	21.09	168.56	350.25	62.45	18 25 29	3707.8	17.24	161.56

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE -.0079 TRA -.3109 TC3 -.9450 BAU  .2119   SGT  825.6 SGR 1077.5 SG3 1086.7      ST   187.7 SR   470.6 SS  1047.0
RDE -.2347 RRA -.0753 RC3-1.6673 FAU .19725   RRT  .6993 RRF  .9905 RTF  .7012      CRT  .1833 CRS -.9996 CST -.1823
FDE-1.9850 FRA -.6159 FC-20.6467 BSP  3651    SGB 1357.4 R23  .2510 R13  .9583      LSA 1148.3 MSA  184.5 SSA   12.2
BDE  .2348 BRA  .3199 BC3 1.9165 FSP  -3430   SG1 1260.1 SG2  504.7 THA  55.53     EL1  472.1 EL2  184.0 ALF  85.07
```

LAUNCH DATE JUN 17 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 27 1967

HELIOCENTRIC CONIC DISTANCE 365.045

```
RL  151.98 LAL   -.00 LOL 265.14 VL  26.972 GAL  -2.47 AZL  91.62 HCA 163.46 SMA 130.25 ECC .17218 INC 1.6156 V1  29.314
RP  107.87 LAP   -.46 LOP  68.60 VP  37.970 GAP   -.67 AZP  88.45 TAL 192.00 TAP 355.46 RCA 107.82 APO 152.67 V2  35.131
RC  87.767 GL  -15.65 GP  -23.03 ZAL 117.65 ZAP  85.68 ETS   2.03 ZAE 160.59 ETE 258.91 ZAC 106.46 ETC   8.99 CLP -85.31
```

PLANETOCENTRIC CONIC

```
C3   7.939 VHL  2.818 DLA  -2.01 RAL 143.31 RAD 6567.3 VEL 11.372 PTH   1.96 VHP  3.072 DPA -11.60 RAP 157.10 ECC 1.1307
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 31 30	1955.50	-12.56	25.70	351.46	115.59	4 4 5	1355.5	-9.01	18.82
90.00	14 59 45	4724.01	16.09	202.09	351.95	66.38	16 18 29	4124.0	12.76	194.99
100.00	4 51 54	1696.12	-13.30	6.26	351.08	117.02	5 20 10	1096.1	-9.57	359.45
100.00	16 22 2	4458.62	16.84	182.22	351.59	64.93	17 36 21	3858.6	13.33	175.19
110.00	5 58 0	1489.20	-15.26	349.43	349.96	120.96	6 22 49	889.2	-11.05	342.86
110.00	17 32 25	4238.30	18.85	164.42	350.52	60.94	18 43 4	3638.3	14.83	157.61

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE -.0352 TRA -.3159 TC3-1.4960 BAU  .2746   SGT 1062.5 SGR 1283.6 SG3 1070.8      ST   207.2 SR   464.7 SS   899.9
RDE -.2269 RRA -.0680 RC3-2.1112 FAU .19352   RRT  .8248 RRF  .9951 RTF  .8256      CRT  .4356 CRS -.9996 CST -.4328
FDE-1.6523 FRA -.4626 FC-21.1027 BSP  4695    SGB 1666.3 R23  .2252 R13  .9693      LSA 1016.9 MSA  186.0 SSA   11.9
BDE  .2297 BRA  .3231 BC3 2.5875 FSP  -3394   SG1 1594.6 SG2  483.5 THA  51.49     EL1  475.0 EL2  182.5 ALF  77.06
```

LAUNCH DATE JUN 17 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 29 1967

DISTANCE 371.407

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.971 GAL -2.40 AZL 91.17 HCA 166.68 SMA 130.23 ECC .17204 INC 1.1725 V1 29.314
RP 107.83 LAP -.27 LOP 71.82 VP 37.979 GAP -.24 AZP 88.86 TAL 191.70 TAP 358.38 RCA 107.83 APO 152.64 V2 35.143
RC 89.996 GL -11.57 GP -27.88 ZAL 117.69 ZAP 90.85 ETS 359.91 ZAE 154.67 ETE 251.54 ZAC 109.27 ETC 6.65 CLP -90.96

PLANETOCENTRIC CONIC
C3 7.570 VHL 2.751 DLA 1.68 RAL 145.12 RAD 6567.2 VEL 11.356 PTH 1.96 VHP 3.177 DPA -15.23 RAP 153.10 ECC 1.1246

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 11 25	2061.01	-15.57	31.99	353.15	113.95	3 45 46	1461.0	-12.20	24.93
90.00	15 34 18	4601.08	12.60	194.75	352.75	64.43	16 50 59	4001.1	9.06	187.86
100.00	4 33 32	1796.11	-16.31	12.15	352.79	115.40	5 3 28	1196.1	-12.75	5.17
100.00	16 54 52	4341.20	13.33	175.27	352.38	62.99	18 7 13	3741.2	9.60	168.46
110.00	5 43 34	1576.90	-18.27	354.45	351.73	119.41	6 9 51	976.9	-14.21	347.68
110.00	18 1 19	4133.18	15.26	158.38	351.28	59.04	19 10 13	3533.2	11.05	151.81

DIFFERENTIAL CORRECTIONS
TDE -.0335 TRA -.3077 TC3-2.1227 BAU .3474
RDE -.1961 RRA -.0482 RC3-2.6977 FAU .18154
FDE-1.1313 FRA -.2348 FC-20.7629 BSP 5941
BDE .1989 BRA .3115 BC3 3.4327 FSP -3199

MID-COURSE EXECUTION ACCURACY
SGT 1334.2 SGR 1542.8 SG3 1008.8
RRT .8874 RRF .9976 RTF .8873
SGB 2039.7 R23 .1960 R13 .9782
SG1 1982.8 SG2 478.6 THA 49.66

ORBIT DETERMINATION ACCURACY
ST 207.6 SR 411.8 SS 654.7
CRT .4193 CRS -.9993 CST -.4133
LSA 778.4 MSA 187.6 SSA 12.9
EL1 423.2 EL2 183.4 ALF 75.23

LAUNCH DATE JUN 17 1967 FLIGHT TIME 136.00 ARRIVAL DATE OCT 31 1967

DISTANCE 377.747

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.965 GAL -2.33 AZL 90.45 HCA 169.90 SMA 130.20 ECC .17206 INC .4466 V1 29.314
RP 107.80 LAP -.08 LOP 75.05 VP 37.986 GAP .18 AZP 89.55 TAL 191.34 TAP 1.24 RCA 107.79 APO 152.60 V2 35.154
RC 92.232 GL -4.55 GP -34.90 ZAL 117.58 ZAP 95.34 ETS 356.80 ZAE 146.63 ETE 248.17 ZAC 111.80 ETC 3.05 CLP -96.52

PLANETOCENTRIC CONIC
C3 7.218 VHL 2.687 DLA 8.07 RAL 148.09 RAD 6567.2 VEL 11.341 PTH 1.95 VHP 3.414 DPA -20.94 RAP 148.32 ECC 1.1188

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 34 48	2253.46	-20.49	43.96	356.74	109.98	3 12 21	1653.5	-17.59	36.49
90.00	16 34 36	4391.54	6.18	182.71	354.95	62.31	17 47 48	3791.5	2.43	176.04
100.00	4 0 2	1978.53	-21.27	23.42	356.43	111.51	4 33 1	1378.5	-18.16	16.01
100.00	17 52 3	4141.71	6.91	163.94	354.55	60.85	19 1 4	3541.7	2.97	157.36
110.00	5 17 11	1737.12	-23.33	4.12	355.46	115.72	5 46 8	1137.1	-19.68	356.89
110.00	18 51 23	3955.88	8.84	148.66	353.38	56.84	19 57 19	3355.9	4.41	142.37

DIFFERENTIAL CORRECTIONS
TDE .0314 TRA -.2711 TC3-2.8022 BAU .4311
RDE -.1085 RRA -.0018 RC3-3.4795 FAU .15819
FDE -.3886 FRA .0637 FC-18.9726 BSP 7395
BDE .1130 BRA .2712 BC3 4.4676 FSP -2802

MID-COURSE EXECUTION ACCURACY
SGT 1616.4 SGR 1883.9 SG3 883.8
RRT .9201 RRF .9990 RTF .9202
SGB 2482.3 R23 .1655 R13 .9852
SG1 2433.5 SG2 490.1 THA 49.74

ORBIT DETERMINATION ACCURACY
ST 193.0 SR 238.1 SS 260.8
CRT -.2781 CRS -.9920 CST .2868
LSA 358.2 MSA 182.1 SSA 22.2
EL1 251.0 EL2 175.8 ALF 116.36

LAUNCH DATE JUN 17 1967 FLIGHT TIME 138.00 ARRIVAL DATE NOV 2 1967

DISTANCE 384.065

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.957 GAL -2.24 AZL 89.07 HCA 173.13 SMA 130.14 ECC .17222 INC .9268 V1 29.314
RP 107.77 LAP .11 LOP 78.27 VP 37.990 GAP .59 AZP 90.93 TAL 190.90 TAP 4.03 RCA 107.73 APO 152.55 V2 35.165
RC 94.474 GL 9.34 GP -45.85 ZAL 116.42 ZAP 98.38 ETS 352.08 ZAE 135.08 ETE 247.41 ZAC 113.48 ETC 357.21 CLP-102.08

PLANETOCENTRIC CONIC
C3 7.311 VHL 2.704 DLA 20.79 RAL 153.94 RAD 6567.2 VEL 11.345 PTH 1.96 VHP 3.987 DPA -30.28 RAP 141.66 ECC 1.1203

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 0 18	2714.40	-27.75	75.60	6.63	95.90	1 45 33	2114.4	-26.64	67.11
90.00	18 55 47	3935.17	-8.41	157.10	2.83	62.86	20 1 22	3335.2	-11.98	150.24
100.00	2 35 28	2407.55	-28.91	52.87	6.47	97.96	3 15 35	1807.5	-27.50	44.35
100.00	20 3 19	3717.25	-7.37	140.53	2.27	60.95	21 5 16	3117.3	-11.19	133.82
110.00	4 13 1	2102.33	-31.79	29.06	5.84	103.27	4 48 4	1502.3	-29.64	20.51
110.00	20 42 15	3595.23	-4.87	129.73	.73	56.12	21 42 10	2995.2	-9.28	123.43

DIFFERENTIAL CORRECTIONS
TDE .2530 TRA -.1693 TC3-3.3192 BAU .5269
RDE .1445 RRA .1181 RC3-4.2477 FAU .11720
FDE .5646 FRA .4151 FC-13.8783 BSP 9081
BDE .2914 BRA .2064 BC3 5.3907 FSP -2090

MID-COURSE EXECUTION ACCURACY
SGT 1912.2 SGR 2332.8 SG3 661.6
RRT .9381 RRF .9996 RTF .9391
SGB 3016.4 R23 .1363 R13 .9903
SG1 2971.2 SG2 520.1 THA 51.02

ORBIT DETERMINATION ACCURACY
ST 551.0 SR 323.9 SS 430.5
CRT .8887 CRS -.9992 CST -.9020
LSA 750.6 MSA 174.7 SSA 7.4
EL1 625.6 EL2 130.8 ALF 28.97

LAUNCH DATE JUN 17 1967 FLIGHT TIME 140.00 ARRIVAL DATE NOV 4 1967

DISTANCE 390.350

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.946 GAL -2.15 AZL 85.25 HCA 176.34 SMA 130.06 ECC .17252 INC 4.7444 V1 29.314
RP 107.73 LAP .30 LOP 81.50 VP 37.992 GAP .99 AZP 94.74 TAL 190.39 TAP 6.73 RCA 107.62 APO 152.50 V2 35.175
RC 96.719 GL 39.17 GP -64.40 ZAL 109.13 ZAP 98.08 ETS 344.44 ZAE 116.61 ETE 247.07 ZAC 112.61 ETC 347.01 CLP-108.99

PLANETOCENTRIC CONIC
C3 12.454 VHL 3.529 DLA 47.15 RAL 171.30 RAD 6567.5 VEL 11.569 PTH 2.02 VHP 5.949 DPA -45.96 RAP 128.68 ECC 1.2050

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
50.59	19 6 1	4158.87	-35.51	190.64	39.87	56.67	20 15 20	3558.9	-39.60	182.38
129.41	3 8 35	2699.65	-35.50	76.74	39.86	56.66	3 53 34	2099.7	-39.59	68.48
50.59	19 6 1	4158.87	-35.51	190.64	39.87	56.67	20 15 20	3558.9	-39.60	182.38
129.41	3 8 35	2699.65	-35.50	76.74	39.86	56.66	3 53 34	2099.7	-39.59	68.48
50.59	19 6 1	4158.87	-35.51	190.64	39.87	56.67	20 15 20	3558.9	-39.60	182.38
129.41	3 8 35	2699.65	-35.50	76.74	39.86	56.66	3 53 34	2099.7	-39.59	68.48

DIFFERENTIAL CORRECTIONS
TDE 1.0523 TRA .1865 TC3-2.2015 BAU .6047
RDE .9161 RRA .5202 RC3-2.8888 FAU .05429
FDE 1.2683 FRA .6891 FC3-3.7737 BSP 10643
BDE 1.3952 BRA .5526 BC3 3.6320 FSP -996

MID-COURSE EXECUTION ACCURACY
SGT 2351.9 SGR 2812.7 SG3 323.7
RRT .9466 RRF .9997 RTF .9519
SGB 3666.4 R23 .1163 R13 .9930
SG1 3618.8 SG2 589.3 THA 50.38

ORBIT DETERMINATION ACCURACY
ST 1714.3 SR 1534.6 SS 1089.2
CRT .9860 CRS -.9999 CST -.9876
LSA 2537.1 MSA 208.2 SSA 1.3
EL1 2292.8 EL2 191.6 ALF 41.79

LAUNCH DATE JUN 17 1967 FLIGHT TIME 142.00 ARRIVAL DATE NOV 6 1967

HELIOCENTRIC CONIC DISTANCE 396.393

```
RL  151.98 LAL   -.00 LOL 265.14 VL  26.932 GAL  -1.99 AZL  40.28 HCA 179.35 SMA 129.97 ECC .17281 INC49.7079 VI  29.314
RP  107.70 LAP    .49 LOP  84.72 VP  37.991 GAP   1.32 AZP 139.72 TAL 189.62 TAP   8.97 RCA 107.51 APO 152.43 V2  35.185
RC  98.967 GL   59.79 GP  -67.78 ZAL  92.62 ZAP  91.83 ETS 186.87 ZAE  70.62 ETE  95.80 ZAC 104.73 ETC 180.76 CLP  94.84
```

PLANETOCENTRIC CONIC

```
C3 564.599 VHL 23.761 DLA  55.87 RAL 207.97 RAD 6572.5 VEL 26.190 PTH   3.37 VHP 32.800 DPA -59.74 RAP  49.94 ECC10.2919
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
39.59	20 58 6	4979.57	-1.56	236.17	116.93	34.14	22 21 6	4379.6	-8.17	232.07
140.41	6 9 3	3362.93	-1.54	105.78	116.91	34.14	7 5 6	2762.9	-8.15	101.67
39.59	20 58 6	4979.57	-1.56	236.17	116.93	34.14	22 21 6	4379.6	-8.17	232.07
140.41	6 9 3	3362.93	-1.54	105.78	116.91	34.14	7 5 6	2762.9	-8.15	101.67
39.59	20 58 6	4979.57	-1.56	236.17	116.93	34.14	22 21 6	4379.6	-8.17	232.07
140.41	6 9 3	3362.93	-1.54	105.78	116.91	34.14	7 5 6	2762.9	-8.15	101.67

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-3.2759 TRA -.8321 TC3 -.0740 BAU 1.9238   SGT  935.7 SGR 3853.1 SG3   65.3     ST   797.2 SR  1781.6 SS   934.9
RDE-6.0828 RRA-7.8392 RC3 -.2439 FAU-.03106   RRT  .7686 RRF -.9993 RTF -.7441     CRT  .8923 CRS  .9985 CST  .8665
FDE 1.0825 FRA 1.5638 FC3  .0476 BSP   2083   SGB 3965.1 R23 -.0661 R13 -.9978     LSA 2135.8 MSA  349.7 SSA     .6
BDE 6.9088 BRA 7.8832 BC3  .2549 FSP    -36   SG1 3921.3 SG2  588.2 THA  79.18     EL1 1923.2 EL2  333.4 ALF  67.52
```

LAUNCH DATE JUN 17 1967 FLIGHT TIME 144.00 ARRIVAL DATE NOV 8 1967

HELIOCENTRIC CONIC DISTANCE 402.990

```
RL  151.98 LAL   -.00 LOL 265.14 VL  26.916 GAL  -1.94 AZL 103.63 HCA 182.89 SMA 129.86 ECC .17360 INC13.6234 VI  29.314
RP  107.67 LAP    .68 LOP  87.95 VP  37.989 GAP   1.80 AZP  76.39 TAL 189.30 TAP  12.19 RCA 107.31 APO 152.40 V2  35.195
RC 101.218 GL  -62.19 GP   69.36 ZAL  98.49 ZAP 100.76 ETS  34.24 ZAE 104.78 ETE 127.48 ZAC  86.44 ETC  36.15 CLP-121.98
```

PLANETOCENTRIC CONIC

```
C3  51.331 VHL  7.165 DLA -47.57 RAL 129.41 RAD 6568.9 VEL 13.141 PTH   2.40 VHP  7.243 DPA  71.48 RAP 221.53 ECC 1.8448
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
50.04	4 18 51	1861.66	21.04	41.57	18.80	133.70	4 49 53	1261.7	26.45	35.54
129.96	12 21 33	5680.32	21.06	264.63	18.82	133.69	13 56 13	5080.3	26.46	258.59
50.04	4 18 51	1861.66	21.04	41.57	18.80	133.70	4 49 53	1261.7	26.45	35.54
129.96	12 21 33	5680.32	21.06	264.63	18.82	133.69	13 56 13	5080.3	26.46	258.59
50.04	4 18 51	1861.66	21.04	41.57	18.80	133.70	4 49 53	1261.7	26.45	35.54
129.96	12 21 33	5680.32	21.06	264.63	18.82	133.69	13 56 13	5080.3	26.46	258.59

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.9301 TRA-1.4291 TC3 -.5467 BAU  .4685   SGT 2995.5 SGR 2515.7 SG3  242.8     ST  2397.8 SR  2365.6 SS  1600.4
RDE 2.9477 RRA  .5521 RC3  .4090 FAU .03022   RRT -.9410 RRF -.9960 RTF  .9668     CRT -.9915 CRS  .9996 CST -.9948
FDE-3.1778 FRA -.8021 FC3 -.5097 BSP  11379   SGB 3911.8 R23  .1161 R13 -.9931     LSA 3722.3 MSA  226.1 SSA     .9
BDE 4.1563 BRA 1.5320 BC3  .6828 FSP   -718   SG1 3855.4 SG2  661.5 THA 140.28     EL1 3361.1 EL2  219.6 ALF 135.39
```

LAUNCH DATE JUN 17 1967 FLIGHT TIME 146.00 ARRIVAL DATE NOV 10 1967

HELIOCENTRIC CONIC DISTANCE 409.209

```
RL  151.98 LAL   -.00 LOL 265.14 VL  26.898 GAL  -1.80 AZL  98.19 HCA 186.11 SMA 129.73 ECC .17428 INC 8.1865 VI  29.314
RP  107.65 LAP    .87 LOP  91.19 VP  37.984 GAP   2.17 AZP  81.86 TAL 188.61 TAP  14.71 RCA 107.12 APO 152.34 V2  35.204
RC 103.470 GL  -53.04 GP   46.40 ZAL 101.98 ZAP 110.98 ETS  25.24 ZAE 124.34 ETE 129.24 ZAC  96.29 ETC  29.79 CLP-121.28
```

PLANETOCENTRIC CONIC

```
C3  22.959 VHL  4.792 DLA -39.18 RAL 134.64 RAD 6567.9 VEL 12.014 PTH   2.14 VHP  4.440 DPA  56.36 RAP 179.55 ECC 1.3778
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.70	5 27 4	1533.00	25.43	15.98	8.94	120.87	5 52 37	933.0	29.32	8.52
118.30	11 55 2	5606.25	25.44	261.70	8.94	120.86	13 28 29	5006.3	29.33	254.25
61.70	5 27 4	1533.00	25.43	15.98	8.94	120.87	5 52 37	933.0	29.32	8.52
118.30	11 55 2	5606.25	25.44	261.70	8.94	120.86	13 28 29	5006.3	29.33	254.25
61.70	5 27 4	1533.00	25.43	15.98	8.94	120.87	5 52 37	933.0	29.32	8.52
118.30	11 55 2	5606.25	25.44	261.70	8.94	120.86	13 28 29	5006.3	29.33	254.25

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.8690 TRA -.9682 TC3-1.5829 BAU  .5734   SGT 3086.5 SGR 2050.4 SG3  563.1     ST  2279.8 SR  1766.8 SS  2100.2
RDE 1.4731 RRA  .2874 RC3  .9925 FAU .08847   RRT -.9547 RRF -.9990 RTF  .9649     CRT -.9925 CRS  .9999 CST -.9939
FDE-4.5599 FRA-1.0306 FC3-3.3362 BSP  11461   SGB 3705.5 R23  .1729 R13 -.9847     LSA 3562.1 MSA  203.2 SSA    1.5
BDE 2.3798 BRA 1.0100 BC3 1.8683 FSP  -1799   SG1 3669.8 SG2  513.3 THA 146.89     EL1 2879.2 EL2  171.0 ALF 142.28
```

LAUNCH DATE JUN 17 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 12 1967

HELIOCENTRIC CONIC DISTANCE 415.434

```
RL  151.98 LAL   -.00 LOL 265.14 VL  26.877 GAL  -1.66 AZL  96.50 HCA 189.34 SMA 129.59 ECC .17509 INC 6.4963 VI  29.314
RP  107.62 LAP   1.05 LOP  94.42 VP  37.977 GAP   2.54 AZP  83.59 TAL 187.87 TAP  17.21 RCA 106.90 APO 152.28 V2  35.212
RC 105.723 GL  -47.56 GP   33.09 ZAL 103.01 ZAP 118.23 ETS  21.65 ZAE 133.40 ETE 138.43 ZAC 102.30 ETC  27.43 CLP-124.36
```

PLANETOCENTRIC CONIC

```
C3  16.967 VHL  4.119 DLA -34.50 RAL 138.25 RAD 6567.7 VEL 11.762 PTH   2.08 VHP  3.860 DPA  44.97 RAP 168.56 ECC 1.2792
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.41	6 22 18	1340.70	24.77	.06	6.06	114.82	6 44 39	740.7	27.90	352.26
110.59	11 28 36	5655.06	24.78	265.26	6.07	114.81	13 2 51	5055.1	27.91	257.45
69.41	6 22 18	1340.70	24.77	.06	6.06	114.82	6 44 39	740.7	27.90	352.26
110.59	11 28 36	5655.06	24.78	265.26	6.07	114.81	13 2 51	5055.1	27.91	257.45
69.41	6 22 18	1340.70	24.77	.06	6.06	114.82	6 44 39	740.7	27.90	352.26
110.59	11 28 36	5655.06	24.78	265.26	6.07	114.81	13 2 51	5055.1	27.91	257.45

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.6069 TRA -.7884 TC3-2.3074 BAU  .5645   SGT 3221.7 SGR 1426.7 SG3  698.8     ST  2271.2 SR  1188.2 SS  2154.9
RDE  .8531 RRA  .1142 RC3  .9326 FAU .11213   RRT -.9505 RRF -.9982 RTF  .9618     CRT -.9918 CRS  .9999 CST -.9931
FDE-4.6362 FRA -.7523 FC3-5.7215 BSP  10269   SGB 3523.5 R23  .2220 R13 -.9741     LSA 3342.7 MSA  200.7 SSA    2.3
BDE 1.8193 BRA  .7966 BC3 2.4887 FSP  -2061   SG1 3499.8 SG2  408.0 THA 156.84     EL1 2559.7 EL2  134.7 ALF 152.49
```

LAUNCH DATE JUN 17 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 14 1967

DISTANCE 421.635

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.855 GAL -1.51 AZL 95.67 HCA 192.57 SMA 129.44 ECC .17603 INC 5.6702 V1 29.314
RP 107.60 LAP 1.23 LOP 97.66 VP 37.969 GAP 2.91 AZP 84.46 TAL 187.10 TAP 19.67 RCA 106.66 APO 152.23 V2 35.220
RC 107.975 GL -44.11 GP 24.97 ZAL 102.97 ZAP 123.63 ETS 19.13 ZAE 137.14 ETE 147.13 ZAC 105.82 ETC 25.52 CLP-127.66

PLANETOCENTRIC CONIC
C3 14.526 VHL 3.811 DLA -31.77 RAL 141.00 RAD 6567.6 VEL 11.658 PTH 2.05 VHP 3.717 DPA 37.70 RAP 163.74 ECC 1.2391

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.95	7 8 25	1197.02	23.82	348.54	5.51	111.67	7 28 22	597.0	26.55	340.65
105.05	11 4 23	5728.45	23.84	270.46	5.51	111.66	12 39 51	5128.4	26.56	262.57
74.95	7 8 25	1197.02	23.82	348.54	5.51	111.67	7 28 22	597.0	26.55	340.65
105.05	11 4 23	5728.45	23.84	270.46	5.51	111.66	12 39 51	5128.4	26.56	262.57
110.00	9 59 24	642.46	16.17	304.01	1.52	120.54	10 10 6	42.5	20.10	297.09
110.00	13 12 34	5331.01	31.98	242.84	8.36	102.76	14 41 25	4731.0	33.41	233.90

DIFFERENTIAL CORRECTIONS
TOE-1.5476 TRA -.7237 TC3-2.9766 BAU .5993
RDE .5850 RRA .0649 RC3 .8150 FAU .12650
FDE-4.5047 FRA -.6138 FC3-7.5392 BSP 11116
BDE 1.6545 BRA .7266 BC3 3.0862 FSP -2431

MID-COURSE EXECUTION ACCURACY
SGT 3492.7 SGR 1082.8 SG3 773.1
RRT -.9525 RRF -.9960 RTF .9658
SGB 3656.7 R23 .2247 R13 -.9719
SG1 3643.0 SG2 316.1 THA 163.42

ORBIT DETERMINATION ACCURACY
ST 2359.0 SR 880.3 SS 2178.2
CRT -.9922 CRS 1.0000 CST -.9933
LSA 3323.6 MSA 194.4 SSA 3.2
EL1 2515.8 EL2 102.6 ALF 159.65

LAUNCH DATE JUN 17 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 16 1967

DISTANCE 427.822

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.831 GAL -1.35 AZL 95.18 HCA 195.81 SMA 129.28 ECC .17709 INC 5.1782 V1 29.314
RP 107.58 LAP 1.41 LOP 100.89 VP 37.958 GAP 3.27 AZP 85.02 TAL 186.28 TAP 22.09 RCA 106.39 APO 152.18 V2 35.227
RC 110.226 GL -41.74 GP 19.70 ZAL 102.36 ZAP 127.98 ETS 17.26 ZAE 138.33 ETE 154.11 ZAC 107.87 ETC 23.97 CLP-130.81

PLANETOCENTRIC CONIC
C3 13.225 VHL 3.637 DLA -30.12 RAL 143.37 RAD 6567.5 VEL 11.602 PTH 2.03 VHP 3.718 DPA 32.84 RAP 161.21 ECC 1.2176

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.27	7 48 57	1078.34	23.12	339.33	5.96	109.86	8 6 56	478.3	25.62	331.40
100.73	10 42 49	5805.99	23.14	276.00	5.97	109.85	12 19 35	5206.0	25.63	268.07
79.27	7 48 57	1078.34	23.12	339.33	5.96	109.86	8 6 56	478.3	25.62	331.40
100.73	10 42 49	5805.99	23.14	276.00	5.97	109.85	12 19 35	5206.0	25.63	268.07
110.00	9 40 33	714.59	13.63	308.06	1.14	121.66	9 52 27	114.6	17.72	301.33
110.00	13 50 24	5217.74	33.37	234.30	8.83	97.89	15 17 22	4617.7	34.10	225.13

DIFFERENTIAL CORRECTIONS
TOE-1.5307 TRA -.6596 TC3-3.4966 BAU .6285
RDE .4288 RRA .0329 RC3 .6409 FAU .12750
FDE-4.1933 FRA -.3974 FC3-8.3467 BSP 11617
BDE 1.5896 BRA .6604 BC3 3.5549 FSP -2467

MID-COURSE EXECUTION ACCURACY
SGT 3705.0 SGR 823.0 SG3 777.7
RRT -.9467 RRF -.9904 RTF .9667
SGB 3795.3 R23 .2192 R13 -.9700
SG1 3786.4 SG2 259.4 THA 168.07

ORBIT DETERMINATION ACCURACY
ST 2439.6 SR 676.0 SS 2124.0
CRT -.9925 CRS 1.0000 CST -.9933
LSA 3299.0 MSA 191.0 SSA 4.3
EL1 2530.3 EL2 79.4 ALF 164.61

LAUNCH DATE JUN 17 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 18 1967

DISTANCE 433.992

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.806 GAL -1.17 AZL 94.85 HCA 199.05 SMA 129.11 ECC .17827 INC 4.8498 V1 29.314
RP 107.56 LAP 1.58 LOP 104.13 VP 37.946 GAP 3.64 AZP 85.41 TAL 185.42 TAP 24.47 RCA 106.09 APO 152.13 V2 35.233
RC 112.475 GL -40.00 GP 16.05 ZAL 101.38 ZAP 131.68 ETS 15.83 ZAE 138.33 ETE 159.41 ZAC 109.02 ETC 22.68 CLP-133.78

PLANETOCENTRIC CONIC
C3 12.429 VHL 3.525 DLA -29.11 RAL 145.60 RAD 6567.5 VEL 11.568 PTH 2.02 VHP 3.780 DPA 29.38 RAP 159.85 ECC 1.2045

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.95	8 26 24	973.51	22.67	331.39	6.97	108.77	8 42 37	373.5	25.02	323.45
97.05	10 23 6	5884.16	22.68	281.62	6.97	108.75	12 1 11	5284.2	25.03	273.68
100.00	9 48 42	706.61	18.64	310.20	5.29	113.80	10 0 29	106.6	21.69	302.74
100.00	11 43 29	5626.29	26.84	263.88	8.31	103.68	13 17 16	5026.3	28.46	255.45
110.00	9 35 0	749.72	12.36	310.00	1.84	122.13	9 47 30	149.7	16.52	303.35
110.00	14 13 41	5155.94	33.85	229.54	9.65	95.11	15 39 36	4555.9	34.18	220.31

DIFFERENTIAL CORRECTIONS
TOE-1.5380 TRA -.5970 TC3-3.9284 BAU .6576
RDE .3340 RRA .0158 RC3 .4795 FAU .12342
FDE-3.8685 FRA -.1917 FC3-8.5971 BSP 12097
BDE 1.5738 BRA .5972 BC3 3.9576 FSP -2399

MID-COURSE EXECUTION ACCURACY
SGT 3892.7 SGR 640.1 SG3 755.2
RRT -.9333 RRF -.9780 RTF .9670
SGB 3945.0 R23 .2018 R13 -.9688
SG1 3938.4 SG2 227.1 THA 171.24

ORBIT DETERMINATION ACCURACY
ST 2523.0 SR 542.9 SS 2054.4
CRT -.9932 CRS .9999 CST -.9933
LSA 3293.3 MSA 187.8 SSA 5.4
EL1 2580.0 EL2 62.0 ALF 167.93

LAUNCH DATE JUN 17 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 20 1967

DISTANCE 440.144

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.779 GAL -.99 AZL 94.61 HCA 202.30 SMA 128.93 ECC .17957 INC 4.6139 V1 29.314
RP 107.54 LAP 1.75 LOP 107.37 VP 37.933 GAP 3.99 AZP 85.73 TAL 184.51 TAP 26.81 RCA 105.78 APO 152.08 V2 35.239
RC 114.720 GL -38.63 GP 13.41 ZAL 100.15 ZAP 134.94 ETS 14.71 ZAE 137.77 ETE 163.41 ZAC 109.55 ETC 21.60 CLP-136.56

PLANETOCENTRIC CONIC
C3 11.903 VHL 3.450 DLA -28.51 RAL 147.77 RAD 6567.5 VEL 11.545 PTH 2.02 VHP 3.874 DPA 26.76 RAP 159.19 ECC 1.1959

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
86.57	9 4 38	868.95	22.41	323.61	8.34	108.09	9 19 7	269.0	24.68	315.66
93.43	10 2 13	682.38	22.42	309.96	8.34	108.08	10 13 36	82.4	24.69	302.01
100.00	9 38 28	759.13	17.16	313.40	6.15	114.86	9 51 7	159.1	20.37	306.08
100.00	12 11 5	5555.48	27.88	258.88	9.92	101.24	13 43 40	4955.5	29.15	250.30
110.00	9 35 48	767.46	11.72	310.97	3.08	122.34	9 48 36	167.5	15.91	304.36
110.00	14 30 13	5119.91	34.03	226.74	10.85	93.46	15 55 33	4519.9	34.13	217.49

DIFFERENTIAL CORRECTIONS
TOE-1.5626 TRA -.5347 TC3-4.3075 BAU .6876
RDE .2741 RRA .0077 RC3 .3433 FAU .11761
FDE-3.5764 FRA -.0131 FC3-8.5544 BSP 12642
BDE 1.5865 BRA .5348 BC3 4.3212 FSP -2309

MID-COURSE EXECUTION ACCURACY
SGT 4073.1 SGR 513.3 SG3 723.5
RRT -.9087 RRF -.9543 RTF .9670
SGB 4105.3 R23 .1752 R13 -.9681
SG1 4099.7 SG2 212.9 THA 173.45

ORBIT DETERMINATION ACCURACY
ST 2614.2 SR 455.2 SS 1989.1
CRT -.9941 CRS .9999 CST -.9934
LSA 3311.2 MSA 184.4 SSA 6.5
EL1 2653.1 EL2 48.5 ALF 170.18

LAUNCH DATE JUN 17 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 22 1967

HELIOCENTRIC CONIC DISTANCE 446.278

RL 151.98 LAL -.00 LOL 265.14 VL 26.751 GAL -.79 AZL 94.44 HCA 205.54 SMA 128.74 ECC .18099 INC 4.4353 VI 29.314
RP 107.52 LAP 1.91 LOP 110.62 VP 37.918 GAP 4.35 AZP 86.00 TAL 183.57 TAP 29.11 RCA 105.44 APO 152.05 V2 35.244
RC 116.961 GL -37.51 GP 11.42 ZAL 98.72 ZAP 137.86 ETS 13.80 ZAE 136.97 ETE 166.43 ZAC 109.64 ETC 20.67 CLP-139.16

PLANETOCENTRIC CONIC

C3 11.543 VHL 3.397 DLA -28.18 RAL 149.96 RAD 6567.4 VEL 11.530 PTH 2.01 VHP 3.988 DPA 24.68 RAP 159.03 ECC 1.1900

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 17 53	847.97	20.68	321.44	9.40	109.78	9 32 1	248.0	23.19	313.67
90.00	10 6 24	690.52	23.95	311.06	10.52	105.58	10 17 55	90.5	25.86	302.91
100.00	9 38 45	780.43	16.55	314.68	7.59	115.25	9 51 45	180.4	19.81	307.41
100.00	12 28 13	5521.33	28.31	256.43	11.63	100.02	14 0 15	4921.3	29.40	247.79
110.00	9 40 28	775.01	11.44	311.38	4.70	122.43	9 53 23	175.0	15.64	304.79
110.00	14 42 59	5099.52	34.10	225.15	12.37	92.53	16 7 59	4499.5	34.07	215.91

DIFFERENTIAL CORRECTIONS
TOE-1.5951 TRA -.4673 TC3-4.6335 BAU .7159
RDE .2344 RRA .0045 RC3 .2284 FAU .11081
FDE-3.3098 FRA .1475 FC3-8.3109 BSP 13119
BDE 1.6123 BRA .4673 BC3 4.6391 FSP -2188

MID-COURSE EXECUTION ACCURACY
SGT 4236.6 SGR 424.8 SG3 686.5
RRT -.8667 RRF -.9128 RTF .9668
SGB 4257.8 R23 .1458 R13 -.9674
SG1 4252.6 SG2 211.1 THA 175.02

ORBIT DETERMINATION ACCURACY
ST 2705.0 SR 395.3 SS 1924.4
CRT -.9954 CRS .9996 CST -.9934
LSA 3338.2 MSA 180.8 SSA 7.6
EL1 2733.5 EL2 37.4 ALF 171.72

LAUNCH DATE JUN 17 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 24 1967

HELIOCENTRIC CONIC DISTANCE 452.393

RL 151.98 LAL -.00 LOL 265.14 VL 26.722 GAL -.58 AZL 94.29 HCA 208.79 SMA 128.55 ECC .18254 INC 4.2945 VI 29.314
RP 107.51 LAP 2.07 LOP 113.86 VP 37.901 GAP 4.70 AZP 86.23 TAL 182.58 TAP 31.37 RCA 105.08 APO 152.02 V2 35.248
RC 119.197 GL -36.54 GP 9.89 ZAL 97.12 ZAP 140.52 ETS 13.06 ZAE 136.09 ETE 168.75 ZAC 109.39 ETC 19.86 CLP-141.58

PLANETOCENTRIC CONIC

C3 11.298 VHL 3.361 DLA -28.05 RAL 152.18 RAD 6567.4 VEL 11.519 PTH 2.01 VHP 4.114 DPA 22.96 RAP 159.23 ECC 1.1859

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 17 9	874.80	20.05	323.16	11.05	110.42	9 31 44	274.8	22.65	315.45
90.00	10 24 55	654.77	24.58	308.63	12.59	104.52	10 35 49	54.8	26.34	300.40
100.00	9 44 32	786.22	16.38	315.03	9.41	115.36	9 57 38	186.2	19.66	307.77
100.00	12 40 13	5506.62	28.48	255.37	13.51	99.49	14 11 59	4906.6	29.50	246.71
110.00	9 47 48	775.98	11.41	311.43	6.59	122.44	10 0 43	176.0	15.61	304.84
110.00	14 53 26	5089.63	34.13	224.38	14.18	92.07	16 18 16	4489.6	34.04	215.13

DIFFERENTIAL CORRECTIONS
TOE-1.6380 TRA -.3971 TC3-4.9249 BAU .7441
RDE .2085 RRA .0049 RC3 .1339 FAU .10409
FDE-3.0844 FRA .2823 FC3-7.9765 BSP 13615
BDE 1.6512 BRA .3971 BC3 4.9267 FSP -2072

MID-COURSE EXECUTION ACCURACY
SGT 4398.3 SGR 366.8 SG3 650.6
RRT -.8044 RRF -.8496 RTF .9667
SGB 4413.5 R23 .1179 R13 -.9671
SG1 4408.2 SG2 217.4 THA 176.15

ORBIT DETERMINATION ACCURACY
ST 2803.3 SR 355.5 SS 1870.9
CRT -.9969 CRS .9990 CST -.9936
LSA 3384.4 MSA 176.9 SSA 8.7
EL1 2825.6 EL2 27.9 ALF 172.79

LAUNCH DATE JUN 17 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 26 1967

HELIOCENTRIC CONIC DISTANCE 458.489

RL 151.98 LAL -.00 LOL 265.14 VL 26.692 GAL -.35 AZL 94.18 HCA 212.03 SMA 128.35 ECC .18422 INC 4.1800 VI 29.314
RP 107.50 LAP 2.22 LOP 117.10 VP 37.883 GAP 5.05 AZP 86.45 TAL 181.57 TAP 33.60 RCA 104.70 APO 151.99 V2 35.252
RC 121.426 GL -35.66 GP 8.67 ZAL 95.37 ZAP 142.96 ETS 12.44 ZAE 135.19 ETE 170.57 ZAC 108.86 ETC 19.13 CLP-143.84

PLANETOCENTRIC CONIC

C3 11.139 VHL 3.338 DLA -28.07 RAL 154.47 RAD 6567.4 VEL 11.512 PTH 2.01 VHP 4.250 DPA 21.47 RAP 159.72 ECC 1.1833

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 27 10	868.99	20.19	322.79	13.16	110.29	9 41 39	269.0	22.77	315.07
90.00	10 33 10	654.74	24.58	308.63	14.65	104.52	10 44 5	54.7	26.34	300.40
100.00	9 54 0	782.23	16.50	314.79	11.53	115.29	10 7 2	182.2	19.77	307.52
100.00	12 49 2	5504.77	28.50	255.23	15.58	99.42	14 20 46	4904.8	29.51	246.57
110.00	9 57 6	772.49	11.54	311.24	8.72	122.40	10 9 58	172.5	15.73	304.65
110.00	15 2 25	5087.28	34.13	224.20	16.24	91.96	16 27 12	4487.3	34.03	214.95

DIFFERENTIAL CORRECTIONS
TOE-1.6874 TRA -.3233 TC3-5.1821 BAU .7718
RDE .1917 RRA .0076 RC3 .0562 FAU .09766
FDE-2.8889 FRA .3937 FC3-7.5899 BSP 14200
BDE 1.6983 BRA .3233 BC3 5.1824 FSP -1985

MID-COURSE EXECUTION ACCURACY
SGT 4555.5 SGR 331.5 SG3 616.1
RRT -.7233 RRF -.7660 RTF .9669
SGB 4567.5 R23 .0939 R13 -.9672
SG1 4561.8 SG2 228.6 THA 176.98

ORBIT DETERMINATION ACCURACY
ST 2904.8 SR 329.1 SS 1824.0
CRT -.9982 CRS .9978 CST -.9938
LSA 3441.5 MSA 172.1 SSA 9.8
EL1 2923.3 EL2 19.9 ALF 173.55

LAUNCH DATE JUN 17 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 28 1967

HELIOCENTRIC CONIC DISTANCE 464.566

RL 151.98 LAL -.00 LOL 265.14 VL 26.661 GAL -.12 AZL 94.08 HCA 215.28 SMA 128.14 ECC .18603 INC 4.0846 VI 29.314
RP 107.49 LAP 2.36 LOP 120.35 VP 37.864 GAP 5.40 AZP 86.66 TAL 180.52 TAP 35.80 RCA 104.30 APO 151.98 V2 35.255
RC 123.648 GL -34.84 GP 7.69 ZAL 93.50 ZAP 145.21 ETS 11.92 ZAE 134.33 ETE 172.00 ZAC 108.11 ETC 18.48 CLP-145.97

PLANETOCENTRIC CONIC

C3 11.052 VHL 3.324 DLA -28.18 RAL 156.84 RAD 6567.4 VEL 11.508 PTH 2.00 VHP 4.393 DPA 20.15 RAP 160.44 ECC 1.1819

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 45 36	838.16	20.91	320.81	15.68	109.55	9 59 34	238.2	23.38	313.01
90.00	10 33 38	682.33	24.10	310.50	16.76	105.34	10 45 0	82.3	25.97	302.34
100.00	10 6 17	771.21	16.81	314.13	13.90	115.08	10 19 8	171.2	20.06	306.83
100.00	12 55 37	5512.56	28.41	255.80	17.83	99.70	14 27 30	4912.6	29.46	247.15
110.00	10 7 58	765.89	11.78	310.88	11.06	122.32	10 20 44	165.9	15.96	304.27
110.00	15 10 25	5090.63	34.13	224.46	18.52	92.12	16 35 16	4490.6	34.04	215.21

DIFFERENTIAL CORRECTIONS
TOE-1.7401 TRA -.2405 TC3-5.4033 BAU .7983
RDE .1810 RRA .0113 RC3 -.0075 FAU .09156
FDE-2.7153 FRA .4977 FC3-7.1725 BSP 14695
BDE 1.7495 BRA .2408 BC3 5.4033 FSP -1885

MID-COURSE EXECUTION ACCURACY
SGT 4703.4 SGR 312.8 SG3 583.4
RRT -.6309 RRF -.6698 RTF .9670
SGB 4713.7 R23 .0749 R13 -.9672
SG1 4707.5 SG2 242.4 THA 177.59

ORBIT DETERMINATION ACCURACY
ST 3004.2 SR 312.0 SS 1780.7
CRT -.9990 CRS .9960 CST -.9940
LSA 3502.2 MSA 167.4 SSA 10.9
EL1 3020.4 EL2 13.8 ALF 174.08

LAUNCH DATE JUN 17 1967 FLIGHT TIME 166.00 ARRIVAL DATE NOV 30 1967

DISTANCE 470.623

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.629 GAL .13 AZL 94.00 HCA 218.52 SMA 127.93 ECC .18798 INC 4.0032 V1 29.314
RP 107.48 LAP 2.49 LOP 123.60 VP 37.844 GAP 5.75 AZP 86.87 TAL 179.44 TAP 37.97 RCA 103.88 APO 151.98 V2 35.257
RC 125.861 GL -34.04 GP 6.88 ZAL 91.51 ZAP 147.31 ETS 11.48 ZAE 133.52 ETE 173.16 ZAC 107.17 ETC 17.88 CLP-147.97

PLANETOCENTRIC CONIC
C3 11.028 VHL 3.321 DLA -28.38 RAL 159.29 RAD 6567.4 VEL 11.507 PTH 2.00 VHP 4.543 DPA 18.94 RAP 161.34 ECC 1.1815

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
88.09	10 3 14	812.11	22.64	319.53	18.71	107.57	10 16 46	212.1	24.84	311.54
91.91	10 35 31	707.49	22.65	311.88	18.71	107.56	10 47 18	107.5	24.84	303.89
100.00	10 20 55	754.74	17.29	313.13	16.50	114.77	10 33 29	154.7	20.48	305.80
100.00	13 0 31	5528.13	28.23	256.92	20.24	100.26	14 32 39	4928.1	29.36	248.29
110.00	10 20 7	757.25	12.09	310.41	13.59	122.22	10 32 44	157.3	16.26	303.78
110.00	15 17 48	5098.39	34.10	225.06	21.01	92.47	16 42 47	4498.4	34.07	215.82

DIFFERENTIAL CORRECTIONS
TDE-1.7926 TRA -.1431 TC3-5.5594 BAU .8197
RDE .1743 RRA .0152 RC3 -.0628 FAU .08469
FDE-2.5462 FRA .6096 FC3-6.6487 BSP 15065
BDE 1.8011 BRA .1439 BC3 5.5598 FSP -1764

MID-COURSE EXECUTION ACCURACY
SGT 4824.8 SGR 305.1 SG3 548.0
RRT -.5330 RRF -.5692 RTF .9659
SGB 4834.4 R23 .0625 R13 -.9660
SG1 4827.5 SG2 258.0 THA 178.06

ORBIT DETERMINATION ACCURACY
ST 3096.0 SR 300.9 SS 1730.7
CRT -.9992 CRS .9932 CST -.9941
LSA 3555.9 MSA 164.4 SSA 12.0
EL1 3110.6 EL2 12.0 ALF 174.45

LAUNCH DATE JUN 17 1967 FLIGHT TIME 168.00 ARRIVAL DATE DEC 2 1967

DISTANCE 476.662

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.596 GAL .39 AZL 93.93 HCA 221.77 SMA 127.72 ECC .19008 INC 3.9328 V1 29.314
RP 107.48 LAP 2.62 LOP 126.85 VP 37.822 GAP 6.10 AZP 87.06 TAL 178.33 TAP 40.11 RCA 103.44 APO 152.00 V2 35.258
RC 128.066 GL -33.26 GP 6.21 ZAL 89.42 ZAP 149.27 ETS 11.11 ZAE 132.77 ETE 174.10 ZAC 106.07 ETC 17.33 CLP-149.85

PLANETOCENTRIC CONIC
C3 11.063 VHL 3.326 DLA -28.62 RAL 161.82 RAD 6567.4 VEL 11.509 PTH 2.00 VHP 4.698 DPA 17.81 RAP 162.40 ECC 1.1821

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.66	9 53 9	878.14	22.82	324.43	21.36	107.76	10 7 47	278.1	25.03	316.44
94.34	11 5 49	642.78	22.83	307.20	21.36	107.75	11 16 32	42.8	25.04	299.20
100.00	10 37 42	733.49	17.89	311.84	19.33	114.36	10 49 55	133.5	21.03	304.45
100.00	13 3 57	5550.70	27.94	258.53	22.81	101.07	14 36 28	4950.7	29.19	249.95
110.00	10 33 19	747.29	12.45	309.86	16.31	122.09	10 45 46	147.3	16.60	303.21
110.00	15 24 50	5109.67	34.07	225.94	23.69	92.99	16 49 59	4509.7	34.11	216.70

DIFFERENTIAL CORRECTIONS
TDE-1.8405 TRA -.0361 TC3-5.6756 BAU .8396
RDE .1710 RRA .0198 RC3 -.1064 FAU .07848
FDE-2.3833 FRA .7099 FC3-6.1410 BSP 15346
BDE 1.8484 BRA .0412 BC3 5.6766 FSP -1647

MID-COURSE EXECUTION ACCURACY
SGT 4930.7 SGR 305.5 SG3 514.7
RRT -.4446 RRF -.4760 RTF .9649
SGB 4940.1 R23 .0510 R13 -.9650
SG1 4932.6 SG2 273.5 THA 178.42

ORBIT DETERMINATION ACCURACY
ST 3172.5 SR 294.9 SS 1675.6
CRT -.9985 CRS .9894 CST -.9941
LSA 3596.3 MSA 161.0 SSA 13.0
EL1 3186.1 EL2 15.9 ALF 174.70

LAUNCH DATE JUN 17 1967 FLIGHT TIME 170.00 ARRIVAL DATE DEC 4 1967

DISTANCE 482.679

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.563 GAL .67 AZL 93.87 HCA 225.02 SMA 127.50 ECC .19233 INC 3.8707 V1 29.314
RP 107.48 LAP 2.74 LOP 130.10 VP 37.799 GAP 6.45 AZP 87.26 TAL 177.20 TAP 42.22 RCA 102.98 APO 152.02 V2 35.259
RC 130.261 GL -32.46 GP 5.65 ZAL 87.23 ZAP 151.11 ETS 10.79 ZAE 132.08 ETE 174.87 ZAC 104.82 ETC 16.83 CLP-151.62

PLANETOCENTRIC CONIC
C3 11.158 VHL 3.340 DLA -28.90 RAL 164.44 RAD 6567.4 VEL 11.513 PTH 2.01 VHP 4.858 DPA 16.73 RAP 163.60 ECC 1.1836

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.99	9 49 54	924.02	22.99	327.86	24.17	108.00	10 5 18	324.0	25.24	319.87
96.01	11 29 55	600.40	23.01	304.15	24.17	107.98	11 39 55	.4	25.25	296.15
100.00	10 56 31	707.87	18.60	310.27	22.37	113.83	11 8 19	107.9	21.66	302.82
100.00	13 6 0	5579.82	27.55	260.61	25.52	102.09	14 38 59	4979.8	28.94	252.08
110.00	10 47 19	736.79	12.83	309.29	19.20	121.96	10 59 36	136.8	16.96	302.61
110.00	15 31 41	5123.66	34.01	227.03	26.56	93.64	16 57 4	4523.7	34.14	217.79

DIFFERENTIAL CORRECTIONS
TDE-1.8998 TRA .0727 TC3-5.7687 BAU .8607
RDE .1713 RRA .0252 RC3 -.1399 FAU .07297
FDE-2.2559 FRA .7869 FC3-5.6620 BSP 15766
BDE 1.9075 BRA .0769 BC3 5.7704 FSP -1563

MID-COURSE EXECUTION ACCURACY
SGT 5048.9 SGR 312.3 SG3 486.1
RRT -.3744 RRF -.4025 RTF .9648
SGB 5058.6 R23 .0433 R13 -.9648
SG1 5050.3 SG2 289.5 THA 178.67

ORBIT DETERMINATION ACCURACY
ST 3261.1 SR 294.2 SS 1636.3
CRT -.9970 CRS .9850 CST -.9944
LSA 3657.0 MSA 156.7 SSA 14.1
EL1 3274.3 EL2 22.8 ALF 174.86

LAUNCH DATE JUN 17 1967 FLIGHT TIME 172.00 ARRIVAL DATE DEC 6 1967

DISTANCE 488.675

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.529 GAL .96 AZL 93.82 HCA 228.27 SMA 127.28 ECC .19474 INC 3.8152 V1 29.314
RP 107.48 LAP 2.85 LOP 133.35 VP 37.775 GAP 6.81 AZP 87.46 TAL 176.04 TAP 44.31 RCA 102.49 APO 152.07 V2 35.259
RC 132.447 GL -31.65 GP 5.17 ZAL 84.97 ZAP 152.85 ETS 10.53 ZAE 131.45 ETE 175.51 ZAC 103.46 ETC 16.36 CLP-153.31

PLANETOCENTRIC CONIC
C3 11.311 VHL 3.363 DLA -29.19 RAL 167.13 RAD 6567.4 VEL 11.520 PTH 2.01 VHP 5.023 DPA 15.70 RAP 164.91 ECC 1.1862

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.61	9 49 33	962.56	23.16	330.76	27.14	108.28	10 5 36	362.6	25.44	322.76
97.39	11 51 45	5855.55	23.17	279.69	27.14	108.27	13 29 21	5255.6	25.45	271.69
100.00	11 17 33	677.28	19.43	308.38	25.63	113.17	11 28 50	77.3	22.40	300.84
100.00	13 6 26	5616.07	27.00	263.16	28.34	103.33	14 40 2	5016.1	28.57	254.71
110.00	11 1 58	726.35	13.21	308.71	22.25	121.82	11 14 4	126.3	17.32	302.01
110.00	15 38 31	5139.76	33.94	228.28	29.59	94.37	17 4 11	4539.8	34.17	219.04

DIFFERENTIAL CORRECTIONS
TDE-1.9589 TRA .1905 TC3-5.8284 BAU .8817
RDE .1738 RRA .0306 RC3 -.1649 FAU .06800
FDE-2.1353 FRA .8584 FC3-5.2043 BSP 16154
BDE 1.9666 BRA .1930 BC3 5.8307 FSP -1482

MID-COURSE EXECUTION ACCURACY
SGT 5161.9 SGR 321.8 SG3 459.6
RRT -.3197 RRF -.3440 RTF .9647
SGB 5171.9 R23 .0364 R13 -.9647
SG1 5162.9 SG2 304.8 THA 178.85

ORBIT DETERMINATION ACCURACY
ST 3341.2 SR 296.7 SS 1594.2
CRT -.9945 CRS .9797 CST -.9946
LSA 3710.7 MSA 153.0 SSA 15.0
EL1 3354.2 EL2 30.9 ALF 174.95

LAUNCH DATE JUN 17 1967 FLIGHT TIME 174.00 ARRIVAL DATE DEC 8 1967

HELIOCENTRIC CONIC DISTANCE 494.649

RL 151.98 LAL -.00 LOL 265.14 VL 26.494 GAL 1.26 AZL 93.77 HCA 231.52 SMA 127.06 ECC .19733 INC 3.7652 V1 29.314
RP 107.48 LAP 2.95 LOP 136.60 VP 37.750 GAP 7.17 AZP 87.65 TAL 174.86 TAP 46.38 RCA 101.99 APO 152.13 V2 35.258
RC 134.624 GL -30.82 GP 4.76 ZAL 82.64 ZAP 154.49 ETS 10.32 ZAE 130.88 ETE 176.05 ZAC 101.99 ETC 15.93 CLP-154.91

PLANETOCENTRIC CONIC

C3 11.528 VHL 3.395 DLA -29.48 RAL 169.89 RAD 6567.4 VEL 11.529 PTH 2.01 VHP 5.193 DPA 14.69 RAP 166.32 ECC 1.1897

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.43	9 51 15	996.41	23.30	333.31	30.26	108.60	10 7 52	396.4	25.62	325.32
98.57	12 12 6	5829.56	23.31	277.82	30.27	108.58	13 49 15	5229.6	25.63	269.82
100.00	11 41 30	639.49	20.43	306.01	29.11	112.31	11 52 10	39.5	23.27	298.38
100.00	13 4 32	5661.72	26.25	266.35	31.24	104.84	14 38 54	5061.7	28.03	258.00
110.00	11 17 3	716.54	13.56	308.17	25.45	121.68	11 28 59	116.5	17.65	301.45
110.00	15 45 29	5157.43	33.84	229.65	32.78	95.18	17 11 26	4557.4	34.18	220.42

DIFFERENTIAL CORRECTIONS
TOE-2.0188 TRA .3182 TC3-5.8459 BAU .9014
RDE .1784 RRA .0358 RC3 -.1829 FAU .06329
FDE-2.0247 FRA .9244 FC3-4.7533 BSP 16504
BDE 2.0267 BRA .3202 BC3 5.8488 FSP -1403

MID-COURSE EXECUTION ACCURACY
SGT 5267.3 SGR 332.9 SG3 434.6
RRT -.2792 RRF -.3004 RTF .9646
SGB 5277.9 R23 .0314 R13 -.9646
SG1 5268.2 SG2 319.6 THA 178.99

ORBIT DETERMINATION ACCURACY
ST 3413.9 SR 301.7 SS 1552.4
CRT -.9913 CRS .9740 CST -.9948
LSA 3759.4 MSA 149.8 SSA 15.9
EL1 3427.0 EL2 39.6 ALF 174.99

LAUNCH DATE JUN 17 1967 FLIGHT TIME 176.00 ARRIVAL DATE DEC 10 1967

HELIOCENTRIC CONIC DISTANCE 500.600

RL 151.98 LAL -.00 LOL 265.14 VL 26.460 GAL 1.58 AZL 93.72 HCA 234.76 SMA 126.83 ECC .20009 INC 3.7194 V1 29.314
RP 107.48 LAP 3.04 LOP 139.85 VP 37.724 GAP 7.53 AZP 87.85 TAL 173.66 TAP 48.43 RCA 101.46 APO 152.21 V2 35.256
RC 136.791 GL -29.95 GP 4.40 ZAL 80.26 ZAP 156.04 ETS 10.15 ZAE 130.36 ETE 176.50 ZAC 100.43 ETC 15.53 CLP-156.43

PLANETOCENTRIC CONIC

C3 11.810 VHL 3.437 DLA -29.77 RAL 172.72 RAD 6567.5 VEL 11.541 PTH 2.01 VHP 5.368 DPA 13.69 RAP 167.81 ECC 1.1944

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.41	9 54 41	1026.61	23.41	335.59	33.52	108.94	10 11 47	426.6	25.77	327.60
99.59	12 31 13	5809.49	23.42	276.37	33.53	108.93	14 8 3	5209.5	25.78	268.38
100.00	12 11 29	5872.60	21.81	280.42	32.89	110.97	13 49 21	5272.6	24.46	272.63
100.00	12 57 7	5726.78	25.04	270.80	34.10	106.89	14 32 34	5126.8	27.11	262.61
110.00	11 32 23	707.95	13.86	307.69	28.78	121.56	11 44 11	107.9	17.94	300.95
110.00	15 52 42	5176.15	33.71	231.10	36.12	96.03	17 18 58	4576.1	34.18	221.89

DIFFERENTIAL CORRECTIONS
TOE-2.0784 TRA .4559 TC3-5.8193 BAU .9193
RDE .1847 RRA .0408 RC3 -.1946 FAU .05878
FDE-1.9218 FRA .9862 FC3-4.3085 BSP 16830
BDE 2.0866 BRA .4577 BC3 5.8225 FSP -1329

MID-COURSE EXECUTION ACCURACY
SGT 5364.0 SGR 344.8 SG3 410.9
RRT -.2507 RRF -.2697 RTF .9644
SGB 5375.0 R23 .0279 R13 -.9645
SG1 5364.6 SG2 333.8 THA 179.07

ORBIT DETERMINATION ACCURACY
ST 3477.2 SR 308.9 SS 1509.8
CRT -.9874 CRS .9677 CST -.9950
LSA 3800.5 MSA 147.4 SSA 16.7
EL1 3490.6 EL2 48.7 ALF 174.99

LAUNCH DATE JUN 17 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 12 1967

HELIOCENTRIC CONIC DISTANCE 506.527

RL 151.98 LAL -.00 LOL 265.14 VL 26.424 GAL 1.91 AZL 93.68 HCA 238.01 SMA 126.61 ECC .20305 INC 3.6772 V1 29.314
RP 107.49 LAP 3.12 LOP 143.10 VP 37.697 GAP 7.89 AZP 88.05 TAL 172.45 TAP 50.46 RCA 100.90 APO 152.32 V2 35.254
RC 138.949 GL -29.05 GP 4.09 ZAL 77.83 ZAP 157.53 ETS 10.03 ZAE 129.88 ETE 176.88 ZAC 98.79 ETC 15.16 CLP-157.88

PLANETOCENTRIC CONIC

C3 12.165 VHL 3.488 DLA -30.03 RAL 175.60 RAD 6567.5 VEL 11.556 PTH 2.02 VHP 5.549 DPA 12.71 RAP 169.38 ECC 1.2002

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.55	9 59 34	1053.88	23.47	337.64	36.91	109.30	10 17 8	453.9	25.88	329.67
100.45	12 49 18	5794.68	23.48	275.29	36.92	109.29	14 25 52	5194.7	25.89	267.31
79.55	9 59 34	1053.88	23.47	337.64	36.91	109.30	10 17 8	453.9	25.88	329.67
100.45	12 49 18	5794.68	23.48	275.29	36.92	109.29	14 25 52	5194.7	25.89	267.31
110.00	11 47 46	701.13	14.11	307.31	32.23	121.46	11 59 27	101.1	18.17	300.55
110.00	16 0 16	5195.42	33.56	232.59	39.58	96.89	17 26 52	4595.4	34.15	223.39

DIFFERENTIAL CORRECTIONS
TOE-2.1381 TRA .6030 TC3-5.7570 BAU .9368
RDE .1928 RRA .0454 RC3 -.2005 FAU .05463
FDE-1.8263 FRA 1.0427 FC3-3.8882 BSP 17169
BDE 2.1468 BRA .6047 BC3 5.7604 FSP -1265

MID-COURSE EXECUTION ACCURACY
SGT 5456.5 SGR 356.7 SG3 389.0
RRT -.2323 RRF -.2493 RTF .9644
SGB 5468.1 R23 .0250 R13 -.9645
SG1 5457.1 SG2 346.9 THA 179.13

ORBIT DETERMINATION ACCURACY
ST 3531.2 SR 317.8 SS 1466.9
CRT -.9829 CRS .9612 CST -.9952
LSA 3834.1 MSA 145.8 SSA 17.3
EL1 3545.0 EL2 58.2 ALF 174.94

LAUNCH DATE JUN 17 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 14 1967

HELIOCENTRIC CONIC DISTANCE 512.429

RL 151.98 LAL -.00 LOL 265.14 VL 26.389 GAL 2.27 AZL 93.64 HCA 241.26 SMA 126.38 ECC .20622 INC 3.6379 V1 29.314
RP 107.50 LAP 3.19 LOP 146.35 VP 37.669 GAP 8.27 AZP 88.25 TAL 171.21 TAP 52.47 RCA 100.32 APO 152.44 V2 35.251
RC 141.095 GL -28.12 GP 3.82 ZAL 75.38 ZAP 158.94 ETS 9.96 ZAE 129.45 ETE 177.20 ZAC 97.07 ETC 14.82 CLP-159.28

PLANETOCENTRIC CONIC

C3 12.597 VHL 3.549 DLA -30.27 RAL 178.51 RAD 6567.5 VEL 11.575 PTH 2.02 VHP 5.736 DPA 11.73 RAP 171.01 ECC 1.2073

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.83	10 5 48	1078.50	23.47	339.48	40.42	109.68	10 23 46	478.5	25.94	331.52
101.17	13 6 20	5784.91	23.49	274.57	40.42	109.67	14 42 45	5184.9	25.95	266.60
78.83	10 5 48	1078.50	23.47	339.48	40.42	109.68	10 23 46	478.5	25.94	331.52
101.17	13 6 20	5784.91	23.49	274.57	40.42	109.67	14 42 45	5184.9	25.95	266.60
110.00	12 2 59	696.61	14.27	307.06	35.78	121.40	12 14 36	96.6	18.32	300.29
110.00	16 8 19	5214.80	33.40	234.07	43.17	97.76	17 35 14	4614.8	34.11	224.90

DIFFERENTIAL CORRECTIONS
TOE-2.1933 TRA .7639 TC3-5.6451 BAU .9513
RDE .2023 RRA .0494 RC3 -.2017 FAU .05054
FDE-1.7327 FRA 1.0987 FC3-3.4732 BSP 17399
BDE 2.2026 BRA .7655 BC3 5.6487 FSP -1196

MID-COURSE EXECUTION ACCURACY
SGT 5534.6 SGR 368.3 SG3 367.8
RRT -.2210 RRF -.2364 RTF .9642
SGB 5546.9 R23 .0230 R13 -.9642
SG1 5535.2 SG2 359.2 THA 179.15

ORBIT DETERMINATION ACCURACY
ST 3568.5 SR 327.7 SS 1420.0
CRT -.9780 CRS .9542 CST -.9953
LSA 3851.8 MSA 145.4 SSA 17.8
EL1 3582.8 EL2 68.1 ALF 174.87

LAUNCH DATE JUN 17 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 16 1967

HELIOCENTRIC CONIC DISTANCE 518.303

```
RL  151.98 LAL   -.00 LOL 265.14 VL  26.353 GAL   2.64 AZL  93.60 HCA 244.50 SMA 126.15 ECC .20961 INC 3.6009 V1  29.314
RP  107.51 LAP   3.25 LOP 149.60 VP  37.641 GAP   8.65 AZP  88.45 TAL 169.96 TAP  54.46 RCA  99.71 APO 152.60 V2  35.247
RC 143.232 GL  -27.16 GP    3.59 ZAL  72.90 ZAP 160.30 ETS   9.93 ZAE 129.06 ETE 177.47 ZAC  95.29 ETC  14.50 CLP-160.62
```

PLANETOCENTRIC CONIC

```
C3  13.116 VHL  3.622 DLA -30.47 RAL 181.45 RAD 6567.5 VEL 11.598 PTH   2.03 VHP  5.930 DPA  10.76 RAP 172.69 ECC 1.2159
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.25	10 13 15	1100.78	23.42	341.13	44.02	110.07	10 31 35	500.8	25.94	333.19
101.75	13 22 21	5779.96	23.43	274.18	44.03	110.06	14 58 41	5180.0	25.95	266.23
78.25	10 13 15	1100.78	23.42	341.13	44.02	110.07	10 31 35	500.8	25.94	333.19
101.75	13 22 21	5779.96	23.43	274.18	44.03	110.06	14 58 41	5180.0	25.95	266.23
110.00	12 17 51	694.91	14.33	306.96	39.40	121.37	12 29 26	94.9	18.38	300.19
110.00	16 16 55	5233.83	33.21	235.53	46.86	98.60	17 44 9	4633.8	34.04	226.39

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-2.2506 TRA  .9320 TC3-5.5092 BAU  .9666   SGT 5614.9 SGR  379.5 SG3  348.4          ST  3599.4 SR   338.8 SS  1375.4
 RDE  .2133 RRA  .0529 RC3 -.1985 FAU .04686   RRT -.2169 RRF -.2313 RTF  .9642          CRT -.9728 CRS  .9473 CST -.9955
 FDE-1.6486 FRA 1.1478 FC3-3.0931 BSP  17688   SGB 5627.8 R23  .0217 R13 -.9642          LSA 3865.3 MSA  145.7 SSA   18.2
 BDE 2.2607 BRA  .9335 BC3 5.5128 FSP  -1137   SG1 5615.6 SG2  370.4 THA 179.16          EL1 3614.5 EL2   78.1 ALF 174.77
```

LAUNCH DATE JUN 17 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 18 1967

HELIOCENTRIC CONIC DISTANCE 524.148

```
RL  151.98 LAL   -.00 LOL 265.14 VL  26.317 GAL   3.03 AZL  93.57 HCA 247.75 SMA 125.93 ECC .21324 INC 3.5659 V1  29.314
RP  107.53 LAP   3.30 LOP 152.85 VP  37.611 GAP   9.03 AZP  88.65 TAL 168.69 TAP  56.44 RCA  99.07 APO 152.78 V2  35.243
RC 145.356 GL  -26.18 GP    3.38 ZAL  70.43 ZAP 161.60 ETS   9.95 ZAE 128.70 ETE 177.71 ZAC  93.45 ETC  14.21 CLP-161.90
```

PLANETOCENTRIC CONIC

```
C3  13.729 VHL  3.705 DLA -30.63 RAL 184.40 RAD 6567.5 VEL 11.624 PTH   2.04 VHP  6.130 DPA   9.78 RAP 174.42 ECC 1.2259
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.81	10 21 46	1120.99	23.30	342.59	47.71	110.46	10 40 27	521.0	25.88	334.68
102.19	13 37 21	5779.63	23.32	274.10	47.71	110.45	15 13 41	5179.6	25.89	266.19
77.81	10 21 46	1120.99	23.30	342.59	47.71	110.46	10 40 27	521.0	25.88	334.68
102.19	13 37 21	5779.63	23.32	274.10	47.71	110.45	15 13 41	5179.6	25.89	266.19
110.00	12 32 9	696.48	14.27	307.05	43.08	121.40	12 43 45	96.5	18.32	300.28
110.00	16 26 9	5252.14	33.02	236.92	50.64	99.40	17 53 41	4652.1	33.96	227.81

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-2.3060 TRA 1.1113 TC3-5.3412 BAU  .9810   SGT 5689.5 SGR  389.9 SG3  330.2          ST  3617.8 SR   350.5 SS  1329.8
 RDE  .2258 RRA  .0556 RC3 -.1916 FAU .04343   RRT -.2180 RRF -.2313 RTF  .9642          CRT -.9674 CRS  .9404 CST -.9957
 FDE-1.5690 FRA 1.1942 FC3-2.7383 BSP  17978   SGB 5702.8 R23  .0206 R13 -.9643          LSA 3867.5 MSA  147.2 SSA   18.3
 BDE 2.3170 BRA 1.1127 BC3 5.3447 FSP  -1085   SG1 5690.1 SG2  380.5 THA 179.14          EL1 3633.6 EL2   88.4 ALF 174.64
```

LAUNCH DATE JUN 17 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 20 1967

HELIOCENTRIC CONIC DISTANCE 529.963

```
RL  151.98 LAL   -.00 LOL 265.14 VL  26.281 GAL   3.43 AZL  93.53 HCA 250.99 SMA 125.70 ECC .21712 INC 3.5325 V1  29.314
RP  107.54 LAP   3.34 LOP 156.10 VP  37.581 GAP   9.43 AZP  88.85 TAL 167.42 TAP  58.41 RCA  98.41 APO 152.99 V2  35.237
RC 147.469 GL  -25.17 GP    3.19 ZAL  67.96 ZAP 162.86 ETS  10.02 ZAE 128.38 ETE 177.91 ZAC  91.56 ETC  13.95 CLP-163.15
```

PLANETOCENTRIC CONIC

```
C3  14.448 VHL  3.801 DLA -30.74 RAL 187.35 RAD 6567.6 VEL 11.655 PTH   2.05 VHP  6.338 DPA   8.80 RAP 176.20 ECC 1.2378
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.50	10 31 19	1139.20	23.12	343.88	51.47	110.85	10 50 18	539.2	25.74	336.00
102.50	13 51 18	5783.90	23.13	274.35	51.47	110.84	15 27 42	5183.9	25.75	266.46
77.50	10 31 19	1139.20	23.12	343.88	51.47	110.85	10 50 18	539.2	25.74	336.00
102.50	13 51 18	5783.90	23.13	274.35	51.47	110.84	15 27 42	5183.9	25.75	266.46
110.00	12 45 43	701.68	14.09	307.34	46.79	121.47	12 57 25	101.7	18.15	300.58
110.00	16 36 4	5269.42	32.82	238.23	54.51	100.15	18 3 53	4669.4	33.87	229.15

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-2.3582 TRA 1.3030 TC3-5.1403 BAU  .9935   SGT 5755.8 SGR  399.6 SG3  313.0          ST  3622.1 SR   362.4 SS  1283.0
 RDE  .2395 RRA  .0574 RC3 -.1819 FAU .04013   RRT -.2230 RRF -.2353 RTF  .9642          CRT -.9618 CRS  .9333 CST -.9958
 FDE-1.4926 FRA 1.2392 FC3-2.4046 BSP  18215   SGB 5769.6 R23  .0198 R13 -.9642          LSA 3856.7 MSA  149.9 SSA   18.3
 BDE 2.3704 BRA 1.3043 BC3 5.1436 FSP  -1032   SG1 5756.4 SG2  389.4 THA 179.11          EL1 3638.8 EL2   98.8 ALF 174.50
```

LAUNCH DATE JUN 17 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 22 1967

HELIOCENTRIC CONIC DISTANCE 535.744

```
RL  151.98 LAL   -.00 LOL 265.14 VL  26.244 GAL   3.86 AZL  93.50 HCA 254.24 SMA 125.47 ECC .22129 INC 3.5004 V1  29.314
RP  107.56 LAP   3.37 LOP 159.35 VP  37.550 GAP   9.84 AZP  89.05 TAL 166.13 TAP  60.37 RCA  97.71 APO 153.24 V2  35.231
RC 149.570 GL  -24.14 GP    3.02 ZAL  65.51 ZAP 164.07 ETS  10.16 ZAE 128.08 ETE 178.07 ZAC  89.63 ETC  13.71 CLP-164.35
```

PLANETOCENTRIC CONIC

```
C3  15.285 VHL  3.910 DLA -30.81 RAL 190.27 RAD 6567.6 VEL 11.691 PTH   2.06 VHP  6.554 DPA   7.82 RAP 178.01 ECC 1.2516
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.33	10 41 45	1155.65	22.85	345.00	55.27	111.24	11 1 1	555.6	25.53	337.16
102.67	14 4 11	5792.60	22.87	274.89	55.28	111.23	15 40 43	5192.6	25.54	267.04
77.33	10 41 45	1155.65	22.85	345.00	55.27	111.24	11 1 1	555.6	25.53	337.16
102.67	14 4 11	5792.60	22.87	274.89	55.28	111.23	15 40 43	5192.6	25.54	267.04
110.00	12 58 26	710.80	13.76	307.85	50.52	121.60	13 10 17	110.8	17.84	301.11
110.00	16 46 40	5285.45	32.82	239.44	58.44	100.84	18 14 45	4685.4	33.77	230.39

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-2.4059 TRA 1.5092 TC3-4.9077 BAU 1.0035   SGT 5812.8 SGR  408.3 SG3  296.7          ST  3611.3 SR   374.2 SS  1235.0
 RDE  .2545 RRA  .0583 RC3 -.1703 FAU .03692   RRT -.2309 RRF -.2423 RTF  .9641          CRT -.9558 CRS  .9259 CST -.9959
 FDE-1.4185 FRA 1.2841 FC3-2.0913 BSP  18370   SGB 5827.1 R23  .0191 R13 -.9641          LSA 3831.8 MSA  153.9 SSA   18.2
 BDE 2.4193 BRA 1.5103 BC3 4.9107 FSP   -978   SG1 5813.6 SG2  397.2 THA 179.07          EL1 3629.0 EL2  109.5 ALF 174.34
```

LAUNCH DATE JUN 17 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 24 1967

HELIOCENTRIC CONIC DISTANCE 541.488
RL 151.98 LAL -.00 LOL 265.14 VL 26.208 GAL 4.32 AZL 93.47 HCA 257.48 SMA 125.25 ECC .22576 INC 3.4693 V1 29.314
RP 107.58 LAP 3.39 LOP 162.60 VP 37.518 GAP 10.26 AZP 89.25 TAL 164.84 TAP 62.32 RCA 96.97 APO 153.52 V2 35.225
RC 151.657 GL -23.10 GP 2.88 ZAL 63.09 ZAP 165.25 ETS 10.37 ZAE 127.80 ETE 178.22 ZAC 87.66 ETC 13.50 CLP-165.52
PLANETOCENTRIC CONIC
C3 16.254 VHL 4.032 DLA -30.82 RAL 193.16 RAD 6567.7 VEL 11.732 PTH 2.07 VHP 6.780 DPA 6.84 RAP 179.85 ECC 1.2675

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.30	10 53 0	1170.38	22.52	345.97	59.12	111.62	11 12 31	570.4	25.25	338.16
102.70	14 15 57	5805.70	22.53	275.73	59.13	111.61	15 52 43	5205.7	25.26	267.92
77.30	10 53 0	1170.38	22.52	345.97	59.12	111.62	11 12 31	570.4	25.25	338.16
102.70	14 15 57	5805.70	22.53	275.73	59.13	111.61	15 52 43	5205.7	25.26	267.92
110.00	13 10 10	723.98	13.29	308.58	54.25	121.79	13 22 14	124.0	17.40	301.87
110.00	16 57 57	5300.10	32.42	240.54	62.43	101.47	18 26 18	4700.1	33.66	231.52

DIFFERENTIAL CORRECTIONS
TDE-2.4546 TRA 1.7241 TC3-4.6647 BAU 1.0142
RDE .2707 RRA .0582 RC3 -.1568 FAU .03406
FDE-1.3517 FRA 1.3241 FC3-1.8139 BSP 18605
BDE 2.4695 BRA 1.7251 BC3 4.6673 FSP -934

MID-COURSE EXECUTION ACCURACY
SGT 5870.0 SGR 416.2 SG3 281.7
RRT -.2423 RRF -.2529 RTF .9642
SGB 5884.7 R23 .0188 R13 -.9642
SG1 5870.8 SG2 403.8 THA 179.01

ORBIT DETERMINATION ACCURACY
ST 3593.6 SR 385.8 SS 1189.5
CRT -.9498 CRS .9188 CST -.9960
LSA 3801.6 MSA 158.4 SSA 17.9
EL1 3612.3 EL2 120.1 ALF 174.17

LAUNCH DATE JUN 17 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 26 1967

HELIOCENTRIC CONIC DISTANCE 547.192
RL 151.98 LAL -.00 LOL 265.14 VL 26.171 GAL 4.79 AZL 93.44 HCA 260.72 SMA 125.02 ECC .23055 INC 3.4390 V1 29.314
RP 107.60 LAP 3.39 LOP 165.84 VP 37.486 GAP 10.69 AZP 89.44 TAL 163.55 TAP 64.26 RCA 96.20 APO 153.85 V2 35.217
RC 153.730 GL -22.05 GP 2.74 ZAL 60.71 ZAP 166.39 ETS 10.66 ZAE 127.55 ETE 178.34 ZAC 85.66 ETC 13.31 CLP-166.66
PLANETOCENTRIC CONIC
C3 17.372 VHL 4.168 DLA -30.78 RAL 196.00 RAD 6567.7 VEL 11.779 PTH 2.08 VHP 7.016 DPA 5.85 RAP 181.72 ECC 1.2859

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.39	11 5 0	1183.49	22.10	346.77	62.99	111.99	11 24 44	583.5	24.89	339.01
102.61	14 26 35	5823.14	22.12	276.86	63.00	111.97	16 3 38	5223.1	24.90	269.10
77.39	11 5 0	1183.49	22.10	346.77	62.99	111.99	11 24 44	583.5	24.89	339.01
102.61	14 26 35	5823.14	22.12	276.86	63.00	111.97	16 3 38	5223.1	24.90	269.10
110.00	13 20 53	741.24	12.67	309.53	57.96	122.02	13 33 14	141.2	16.81	302.87
110.00	17 9 53	5313.39	32.24	241.53	66.47	102.03	18 38 26	4713.4	33.56	232.55

DIFFERENTIAL CORRECTIONS
TDE-2.5006 TRA 1.9524 TC3-4.4042 BAU 1.0234
RDE .2880 RRA .0569 RC3 -.1423 FAU .03132
FDE-1.2880 FRA 1.3635 FC3-1.5607 BSP 18818
BDE 2.5171 BRA 1.9532 BC3 4.4065 FSP -892

MID-COURSE EXECUTION ACCURACY
SGT 5920.7 SGR 423.2 SG3 267.5
RRT -.2559 RRF -.2656 RTF .9643
SGB 5935.8 R23 .0183 R13 -.9643
SG1 5921.7 SG2 409.1 THA 178.95

ORBIT DETERMINATION ACCURACY
ST 3564.7 SR 396.9 SS 1144.5
CRT -.9436 CRS .9115 CST -.9961
LSA 3761.3 MSA 163.8 SSA 17.5
EL1 3584.4 EL2 130.6 ALF 173.99

LAUNCH DATE JUN 17 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 28 1967

HELIOCENTRIC CONIC DISTANCE 552.852
RL 151.98 LAL -.00 LOL 265.14 VL 26.135 GAL 5.30 AZL 93.41 HCA 263.96 SMA 124.80 ECC .23570 INC 3.4093 V1 29.314
RP 107.63 LAP 3.39 LOP 169.09 VP 37.453 GAP 11.14 AZP 89.64 TAL 162.24 TAP 66.20 RCA 95.38 APO 154.21 V2 35.210
RC 155.789 GL -21.00 GP 2.62 ZAL 58.38 ZAP 167.50 ETS 11.05 ZAE 127.31 ETE 178.44 ZAC 83.62 ETC 13.15 CLP-167.77
PLANETOCENTRIC CONIC
C3 18.656 VHL 4.319 DLA -30.70 RAL 198.77 RAD 6567.8 VEL 11.834 PTH 2.10 VHP 7.263 DPA 4.87 RAP 183.62 ECC 1.3070

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.62	11 17 44	1194.87	21.62	347.42	66.87	112.34	11 37 39	594.9	24.46	339.70
102.38	14 35 59	5845.04	21.63	278.29	66.88	112.33	16 13 24	5245.0	24.47	270.58
77.62	11 17 44	1194.87	21.62	347.42	66.87	112.34	11 37 39	594.9	24.46	339.70
102.38	14 35 59	5845.04	21.63	278.29	66.88	112.33	16 13 24	5245.0	24.47	270.58
110.00	13 30 33	762.47	11.90	310.69	61.64	122.28	13 43 16	162.5	16.08	304.08
110.00	17 22 21	5325.43	32.07	242.43	70.54	102.53	18 51 6	4725.4	33.46	233.47

DIFFERENTIAL CORRECTIONS
TDE-2.5436 TRA 2.1949 TC3-4.1305 BAU 1.0307
RDE .3064 RRA .0543 RC3 -.1275 FAU .02871
FDE-1.2274 FRA 1.4024 FC3-1.3322 BSP 18999
BDE 2.5620 BRA 2.1956 BC3 4.1325 FSP -851

MID-COURSE EXECUTION ACCURACY
SGT 5965.0 SGR 429.3 SG3 254.2
RRT -.2712 RRF -.2799 RTF .9644
SGB 5980.4 R23 .0178 R13 -.9645
SG1 5966.2 SG2 413.1 THA 178.88

ORBIT DETERMINATION ACCURACY
ST 3525.3 SR 407.2 SS 1100.1
CRT -.9372 CRS .9039 CST -.9962
LSA 3711.4 MSA 170.0 SSA 17.1
EL1 3545.9 EL2 141.2 ALF 173.81

LAUNCH DATE JUN 17 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 30 1967

HELIOCENTRIC CONIC DISTANCE 558.463
RL 151.98 LAL -.00 LOL 265.14 VL 26.099 GAL 5.83 AZL 93.38 HCA 267.20 SMA 124.58 ECC .24125 INC 3.3799 V1 29.314
RP 107.65 LAP 3.38 LOP 172.33 VP 37.420 GAP 11.61 AZP 89.83 TAL 160.94 TAP 68.14 RCA 94.52 APO 154.63 V2 35.201
RC 157.834 GL -19.95 GP 2.52 ZAL 56.11 ZAP 168.58 ETS 11.57 ZAE 127.09 ETE 178.53 ZAC 81.57 ETC 13.01 CLP-168.86
PLANETOCENTRIC CONIC
C3 20.131 VHL 4.487 DLA -30.57 RAL 201.47 RAD 6567.8 VEL 11.896 PTH 2.11 VHP 7.523 DPA 3.88 RAP 185.53 ECC 1.3313

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.98	11 31 7	1204.60	21.06	347.90	70.75	112.68	11 51 12	604.6	23.95	340.24
102.02	14 44 9	5871.31	21.08	280.02	70.76	112.66	16 22 1	5271.3	23.97	272.35
77.98	11 31 7	1204.60	21.06	347.90	70.75	112.68	11 51 12	604.6	23.95	340.24
102.02	14 44 9	5871.31	21.08	280.02	70.76	112.66	16 22 1	5271.3	23.97	272.35
110.00	13 39 12	787.49	10.99	312.06	65.27	122.57	13 52 20	187.5	15.21	305.49
110.00	17 35 15	5336.42	31.90	243.24	74.64	102.99	19 4 11	4736.4	33.36	234.31

DIFFERENTIAL CORRECTIONS
TDE-2.5815 TRA 2.4548 TC3-3.8430 BAU 1.0347
RDE .3255 RRA .0504 RC3 -.1128 FAU .02614
FDE-1.1686 FRA 1.4424 FC3-1.1240 BSP 19093
BDE 2.6019 BRA 2.4553 BC3 3.8447 FSP -808

MID-COURSE EXECUTION ACCURACY
SGT 6001.2 SGR 434.3 SG3 241.6
RRT -.2875 RRF -.2951 RTF .9645
SGB 6016.9 R23 .0172 R13 -.9645
SG1 6002.5 SG2 415.9 THA 178.80

ORBIT DETERMINATION ACCURACY
ST 3474.3 SR 418.3 SS 1056.0
CRT -.9303 CRS .8957 CST -.9962
LSA 3650.7 MSA 177.0 SSA 16.7
EL1 3495.9 EL2 151.8 ALF 173.63

LAUNCH DATE JUN 17 1967 FLIGHT TIME 198.00 ARRIVAL DATE JAN 1 1968

DISTANCE 564.020

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.062 GAL 6.39 AZL 93.35 HCA 270.43 SMA 124.35 ECC .24723 INC 3.3508 V1 29.314
RP 107.68 LAP 3.35 LOP 175.58 VP 37.386 GAP 12.10 AZP 90.03 TAL 159.84 TAP 70.08 RCA 93.61 APO 155.10 V2 35.192
RC 159.863 GL -18.91 GP 2.42 ZAL 53.91 ZAP 169.65 ETS 12.24 ZAE 126.87 ETE 178.60 ZAC 79.49 ETC 12.90 CLP-169.93

PLANETOCENTRIC CONIC
C3 21.821 VHL 4.671 DLA -30.39 RAL 204.09 RAD 6567.9 VEL 11.967 PTH 2.13 VHP 7.797 DPA 2.89 RAP 187.47 ECC 1.3591

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.48	11 45 13	1212.37	20.44	348.20	74.61	112.99	12 5 25	612.4	23.38	340.59
101.52	14 50 57	614.19	20.45	304.14	74.62	112.98	15 1 11	14.2	23.39	296.53
78.48	11 45 13	1212.37	20.44	348.20	74.61	112.99	12 5 25	612.4	23.38	340.59
101.52	14 50 57	614.19	20.45	304.14	74.62	112.98	15 1 11	14.2	23.39	296.53
110.00	13 46 53	816.01	9.94	313.60	68.86	122.88	14 0 29	216.0	14.20	307.09
110.00	17 48 28	5346.60	31.74	243.99	78.74	103.41	19 17 35	4746.6	33.26	235.09

DIFFERENTIAL CORRECTIONS
TDE-2.6212 TRA 2.7261 TC3-3.5594 BAU 1.0388
RDE .3457 RRA .0451 RC3 -.0983 FAU .02381
FDE-1.1159 FRA 1.4798 FC3 -.9446 BSP 19255
BDE 2.6439 BRA 2.7264 BC3 3.5607 FSP -773

MID-COURSE EXECUTION ACCURACY
SGT 6034.9 SGR 438.5 SG3 229.9
RRT -.3058 RRF -.3123 RTF .9647
SGB 6050.9 R23 .0167 R13 -.9648
SG1 6036.4 SG2 417.4 THA 178.72

ORBIT DETERMINATION ACCURACY
ST 3420.4 SR 424.4 SS 1015.6
CRT -.9234 CRS .8879 CST -.9963
LSA 3588.4 MSA 183.8 SSA 16.2
EL1 3442.8 EL2 161.9 ALF 173.45

LAUNCH DATE JUN 17 1967 FLIGHT TIME 200.00 ARRIVAL DATE JAN 3 1968

DISTANCE 569.516

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 26.026 GAL 6.98 AZL 93.32 HCA 273.67 SMA 124.14 ECC .25367 INC 3.3216 V1 29.314
RP 107.71 LAP 3.31 LOP 178.82 VP 37.352 GAP 12.61 AZP 90.21 TAL 158.35 TAP 72.02 RCA 92.65 APO 155.62 V2 35.183
RC 161.876 GL -17.88 GP 2.33 ZAL 51.77 ZAP 170.69 ETS 13.11 ZAE 126.67 ETE 178.66 ZAC 77.39 ETC 12.81 CLP-170.98

PLANETOCENTRIC CONIC
C3 23.758 VHL 4.874 DLA -30.18 RAL 206.62 RAD 6568.0 VEL 12.047 PTH 2.15 VHP 8.087 DPA 1.91 RAP 189.42 ECC 1.3910

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.11	12 0 2	1217.99	19.75	348.30	78.46	113.29	12 20 20	618.0	22.74	340.75
100.89	14 56 18	649.93	19.76	306.50	78.46	113.28	15 7 8	49.9	22.74	298.95
79.11	12 0 2	1217.99	19.75	348.30	78.46	113.29	12 20 20	618.0	22.74	340.75
100.89	14 56 18	649.93	19.76	306.50	78.46	113.28	15 7 8	49.9	22.74	298.95
110.00	13 53 38	847.71	8.76	315.30	72.39	123.17	14 7 46	247.7	13.07	308.85
110.00	18 1 52	5356.25	31.59	244.70	82.85	103.80	19 31 8	4756.2	33.16	235.83

DIFFERENTIAL CORRECTIONS
TDE-2.6596 TRA 3.0136 TC3-3.2755 BAU 1.0407
RDE .3666 RRA .0383 RC3 -.0845 FAU .02159
FDE-1.0668 FRA 1.5175 FC3 -.7867 BSP 19408
BDE 2.6847 BRA 3.0138 BC3 3.2766 FSP -739

MID-COURSE EXECUTION ACCURACY
SGT 6063.1 SGR 441.8 SG3 218.9
RRT -.3251 RRF -.3304 RTF .9651
SGB 6079.2 R23 .0160 R13 -.9651
SG1 6064.8 SG2 417.7 THA 178.64

ORBIT DETERMINATION ACCURACY
ST 3360.7 SR 431.2 SS 977.3
CRT -.9162 CRS .8799 CST -.9964
LSA 3521.2 MSA 190.8 SSA 15.7
EL1 3383.9 EL2 171.6 ALF 173.28

LAUNCH DATE JUN 17 1967 FLIGHT TIME 202.00 ARRIVAL DATE JAN 5 1968

DISTANCE 574.944

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 25.990 GAL 7.61 AZL 93.29 HCA 276.90 SMA 123.92 ECC .26064 INC 3.2922 V1 29.314
RP 107.74 LAP 3.27 LOP 182.05 VP 37.317 GAP 13.15 AZP 90.40 TAL 157.06 TAP 73.96 RCA 91.62 APO 156.22 V2 35.172
RC 163.875 GL -16.87 GP 2.25 ZAL 49.72 ZAP 171.71 ETS 14.27 ZAE 126.47 ETE 178.71 ZAC 75.29 ETC 12.75 CLP-172.02

PLANETOCENTRIC CONIC
C3 25.977 VHL 5.097 DLA -29.92 RAL 209.05 RAD 6568.1 VEL 12.139 PTH 2.18 VHP 8.395 DPA .93 RAP 191.38 ECC 1.4275

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.90	12 15 38	1221.11	19.00	348.19	82.27	113.56	12 35 59	621.1	22.03	340.70
100.10	15 0 4	690.76	19.02	309.19	82.28	113.55	15 11 35	90.8	22.04	301.70
79.90	12 15 38	1221.11	19.00	348.19	82.27	113.56	12 35 59	621.1	22.03	340.70
100.10	15 0 4	690.76	19.02	309.19	82.28	113.55	15 11 35	90.8	22.04	301.70
110.00	13 59 33	882.27	7.47	317.14	75.86	123.45	14 14 15	282.3	11.82	310.75
110.00	18 15 20	5365.64	31.43	245.39	86.96	104.18	19 44 46	4765.6	33.06	236.54

DIFFERENTIAL CORRECTIONS
TDE-2.6966 TRA 3.3187 TC3-2.9940 BAU 1.0401
RDE .3882 RRA .0298 RC3 -.0717 FAU .01946
FDE-1.0209 FRA 1.5557 FC3 -.6486 BSP 19533
BDE 2.7244 BRA 3.3188 BC3 2.9949 FSP -707

MID-COURSE EXECUTION ACCURACY
SGT 6085.5 SGR 444.1 SG3 208.5
RRT -.3453 RRF -.3492 RTF .9656
SGB 6101.7 R23 .0152 R13 -.9656
SG1 6087.5 SG2 416.7 THA 178.55

ORBIT DETERMINATION ACCURACY
ST 3296.3 SR 436.5 SS 941.2
CRT -.9087 CRS .8716 CST -.9965
LSA 3450.0 MSA 197.8 SSA 15.2
EL1 3320.2 EL2 180.9 ALF 173.12

LAUNCH DATE JUN 17 1967 FLIGHT TIME 204.00 ARRIVAL DATE JAN 7 1968

DISTANCE 580.294

HELIOCENTRIC CONIC
RL 151.98 LAL -.00 LOL 265.14 VL 25.954 GAL 8.28 AZL 93.26 HCA 280.13 SMA 123.70 ECC .26819 INC 3.2624 V1 29.314
RP 107.78 LAP 3.21 LOP 185.29 VP 37.282 GAP 13.72 AZP 90.57 TAL 155.79 TAP 75.92 RCA 90.53 APO 156.88 V2 35.162
RC 165.860 GL -15.88 GP 2.17 ZAL 47.74 ZAP 172.72 ETS 15.80 ZAE 126.27 ETE 178.75 ZAC 73.17 ETC 12.72 CLP-173.05

PLANETOCENTRIC CONIC
C3 28.522 VHL 5.341 DLA -29.64 RAL 211.37 RAD 6568.1 VEL 12.243 PTH 2.20 VHP 8.722 DPA -.05 RAP 193.36 ECC 1.4694

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.86	12 32 19	1220.71	18.20	347.79	86.05	113.80	12 52 40	620.7	21.26	340.36
99.14	15 1 58	737.63	18.22	312.30	86.06	113.79	15 14 15	137.6	21.28	304.87
100.00	14 35 48	821.33	15.34	317.12	84.67	115.97	14 49 29	221.3	18.71	309.95
100.00	15 41 11	612.25	21.12	304.29	87.35	111.66	15 51 23	12.2	23.87	296.57
110.00	14 4 42	919.35	6.07	319.10	79.27	123.70	14 20 2	319.4	10.46	312.76
110.00	18 28 45	5375.02	31.28	246.08	91.04	104.56	19 58 20	4775.0	32.96	237.26

DIFFERENTIAL CORRECTIONS
TDE-2.7297 TRA 3.6457 TC3-2.7135 BAU 1.0349
RDE .4102 RRA .0196 RC3 -.0601 FAU .01735
FDE -.9768 FRA 1.5964 FC3 -.5266 BSP 19558
BDE 2.7604 BRA 3.6458 BC3 2.7142 FSP -672

MID-COURSE EXECUTION ACCURACY
SGT 6101.4 SGR 445.4 SG3 198.9
RRT -.3657 RRF -.3681 RTF .9661
SGB 6117.7 R23 .0142 R13 -.9661
SG1 6103.6 SG2 414.4 THA 178.46

ORBIT DETERMINATION ACCURACY
ST 3225.9 SR 440.1 SS 906.8
CRT -.9007 CRS .8626 CST -.9966
LSA 3373.5 MSA 204.8 SSA 14.7
EL1 3250.3 EL2 189.8 ALF 172.97

LAUNCH DATE JUN 17 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 9 1968

HELIOCENTRIC CONIC DISTANCE 585.554
RL 151.98 LAL -.00 LOL 265.14 VL 25.919 GAL 9.00 AZL 93.23 HCA 283.36 SMA 123.49 ECC .27638 INC 3.2320 V1 29.314
RP 107.81 LAP 3.14 LOP 188.52 VP 37.247 GAP 14.33 AZP 90.75 TAL 154.53 TAP 79.89 RCA 89.36 APO 157.62 V2 35.151
RC 167.829 GL -14.92 GP 2.11 ZAL 45.84 ZAP 173.71 ETS 17.90 ZAE 126.07 ETE 178.78 ZAC 71.05 ETC 12.72 CLP-174.07
PLANETOCENTRIC CONIC
C3 31.443 VHL 5.607 DLA -29.32 RAL 213.59 RAD 6568.3 VEL 12.362 PTH 2.23 VHP 9.072 DPA -1.02 RAP 195.34 ECC 1.5175

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.04	12 50 26	1215.49	17.35	347.01	89.79	114.02	13 10 41	615.5	20.45	339.63
97.96	15 1 34	791.72	17.36	315.91	89.79	114.01	15 14 46	191.7	20.46	308.53
100.00	14 28 25	898.01	13.01	321.62	87.63	117.15	14 43 23	298.0	16.55	314.61
100.00	16 6 16	5872.48	21.81	280.42	91.75	110.97	17 44 9	5272.5	24.46	272.63
110.00	14 9 10	958.64	4.58	321.17	82.61	123.91	14 25 8	358.6	9.01	314.87
110.00	18 42 1	5384.61	31.11	246.77	95.11	104.94	20 11 45	4784.6	32.84	237.98

DIFFERENTIAL CORRECTIONS
TOE-2.7675 TRA 3.9882 TC3-2.4473 BAU 1.0290
ROE .4328 RRA .0077 RC3 -.0496 FAU .01542
FOE -.9383 FRA 1.6363 FC3 -.4245 BSP 19671
BOE 2.8011 BRA 3.9882 BC3 2.4478 FSP -644

MID-COURSE EXECUTION ACCURACY
SGT 6113.6 SGR 445.8 SG3 189.8
RRT -.3873 RRF -.3882 RTF .9668
SGB 6129.8 R23 .0131 R13 -.9668
SG1 6116.0 SG2 410.9 THA 178.37

ORBIT DETERMINATION ACCURACY
ST 3157.4 SR 442.3 SS 876.5
CRT -.8927 CRS .8542 CST -.9967
LSA 3299.8 MSA 211.0 SSA 14.3
EL1 3182.1 EL2 197.7 ALF 172.84

LAUNCH DATE JUN 17 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 11 1968

HELIOCENTRIC CONIC DISTANCE 590.712
RL 151.98 LAL -.00 LOL 265.14 VL 25.884 GAL 9.76 AZL 93.20 HCA 286.59 SMA 123.28 ECC .28528 INC 3.2008 V1 29.314
RP 107.84 LAP 3.07 LOP 191.75 VP 37.212 GAP 14.97 AZP 90.91 TAL 153.29 TAP 79.88 RCA 88.11 APO 168.45 V2 35.139
RC 169.783 GL -13.97 GP 2.05 ZAL 44.03 ZAP 174.68 ETS 20.87 ZAE 125.87 ETE 178.80 ZAC 68.93 ETC 12.75 CLP-175.09
PLANETOCENTRIC CONIC
C3 34.802 VHL 5.899 DLA -28.98 RAL 215.71 RAD 6568.4 VEL 12.497 PTH 2.26 VHP 9.448 DPA -1.98 RAP 197.33 ECC 1.5728

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.55	13 10 51	1202.49	16.45	345.63	93.47	114.20	13 30 54	602.5	19.58	338.30
96.45	14 58 0	855.90	16.47	320.22	93.48	114.19	15 12 16	255.9	19.60	312.90
100.00	14 23 55	965.46	10.88	325.50	90.67	118.01	14 40 0	365.5	14.54	318.62
100.00	16 27 37	5856.20	22.20	279.37	95.98	110.55	18 5 13	5256.2	24.80	271.53
110.00	14 12 59	999.86	3.02	323.33	85.90	124.07	14 29 39	399.9	7.47	317.07
110.00	18 55 2	5394.57	30.93	247.50	99.14	105.33	20 24 57	4794.6	32.72	238.73

DIFFERENTIAL CORRECTIONS
TOE-2.8057 TRA 4.3528 TC3-2.1902 BAU 1.0192
ROE .4559 RRA -.0060 RC3 -.0403 FAU .01356
FOE -.9032 FRA 1.6779 FC3 -.3372 BSP 19758
BOE 2.8425 BRA 4.3528 BC3 2.1906 FSP -616

MID-COURSE EXECUTION ACCURACY
SGT 6120.4 SGR 445.4 SG3 181.2
RRT -.4093 RRF -.4088 RTF .9677
SGB 6136.5 R23 .0120 R13 -.9678
SG1 6123.1 SG2 406.2 THA 178.29

ORBIT DETERMINATION ACCURACY
ST 3087.6 SR 442.8 SS 849.1
CRT -.8846 CRS .8457 CST -.9968
LSA 3225.4 MSA 216.6 SSA 13.8
EL1 3112.5 EL2 204.9 ALF 172.74

LAUNCH DATE JUN 17 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 13 1968

HELIOCENTRIC CONIC DISTANCE 595.752
RL 151.98 LAL -.00 LOL 265.14 VL 25.849 GAL 10.58 AZL 93.17 HCA 289.81 SMA 123.08 ECC .29498 INC 3.1686 V1 29.314
RP 107.88 LAP 2.98 LOP 194.98 VP 37.177 GAP 15.66 AZP 91.08 TAL 152.08 TAP 81.89 RCA 86.77 APO 159.38 V2 35.128
RC 171.722 GL -13.05 GP 1.99 ZAL 42.31 ZAP 175.63 ETS 25.26 ZAE 125.65 ETE 178.82 ZAC 66.81 ETC 12.80 CLP-176.11
PLANETOCENTRIC CONIC
C3 38.674 VHL 6.219 DLA -28.62 RAL 217.71 RAD 6568.5 VEL 12.651 PTH 2.30 VHP 9.852 DPA -2.92 RAP 199.32 ECC 1.6365

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.67	13 36 8	1173.33	15.52	343.05	97.10	114.35	13 55 41	573.3	18.67	335.77
94.33	14 48 41	938.36	15.53	325.85	97.11	114.34	15 4 19	338.4	18.69	318.57
100.00	14 20 36	1028.97	8.83	329.09	93.69	118.68	14 37 45	429.0	12.59	322.32
100.00	16 46 54	5845.99	22.44	278.71	100.11	110.28	18 24 20	5246.0	25.00	270.84
110.00	14 16 13	1042.72	1.38	325.57	89.13	124.16	14 33 36	442.7	5.85	319.34
110.00	19 7 46	5405.01	30.74	248.25	103.12	105.74	20 37 51	4805.0	32.59	239.52

DIFFERENTIAL CORRECTIONS
TOE-2.8457 TRA 4.7409 TC3-1.9444 BAU 1.0055
ROE .4792 RRA -.0217 RC3 -.0324 FAU .01176
FOE -.8716 FRA 1.7217 FC3 -.2633 BSP 19830
BOE 2.8858 BRA 4.7409 BC3 1.9447 FSP -590

MID-COURSE EXECUTION ACCURACY
SGT 6122.2 SGR 443.9 SG3 173.2
RRT -.4317 RRF -.4298 RTF .9689
SGB 6138.3 R23 .0108 R13 -.9689
SG1 6125.2 SG2 400.3 THA 178.20

ORBIT DETERMINATION ACCURACY
ST 3017.8 SR 441.6 SS 824.7
CRT -.8762 CRS .8373 CST -.9970
LSA 3151.7 MSA 221.5 SSA 13.3
EL1 3042.7 EL2 211.1 ALF 172.66

LAUNCH DATE JUN 17 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 15 1968

HELIOCENTRIC CONIC DISTANCE 600.653
RL 151.98 LAL -.00 LOL 265.14 VL 25.814 GAL 11.46 AZL 93.14 HCA 293.03 SMA 122.87 ECC .30557 INC 3.1351 V1 29.314
RP 107.92 LAP 2.88 LOP 198.21 VP 37.141 GAP 16.40 AZP 91.23 TAL 150.90 TAP 83.94 RCA 85.33 APO 160.42 V2 35.116
RC 173.647 GL -12.16 GP 1.94 ZAL 40.68 ZAP 176.54 ETS 32.21 ZAE 125.43 ETE 178.83 ZAC 64.70 ETC 12.89 CLP-177.14
PLANETOCENTRIC CONIC
C3 43.150 VHL 6.569 DLA -28.24 RAL 219.59 RAD 6568.6 VEL 12.826 PTH 2.33 VHP 10.288 DPA -3.86 RAP 201.30 ECC 1.7101

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	14 1 1	1144.83	12.83	339.67	99.85	115.46	14 20 6	544.8	16.15	332.58
90.00	14 38 51	1022.14	16.29	332.33	101.48	113.48	14 55 53	422.1	19.33	324.98
100.00	14 17 51	1090.33	6.81	332.53	96.70	119.18	14 36 2	490.3	10.65	325.84
100.00	17 4 42	5839.91	22.59	278.31	104.15	110.12	18 42 2	5239.9	25.12	270.43
110.00	14 18 55	1086.99	-.31	327.88	92.30	124.18	14 37 2	487.0	4.17	321.67
110.00	19 20 7	5416.01	30.54	249.04	107.06	106.17	20 50 23	4816.0	32.45	240.34

DIFFERENTIAL CORRECTIONS
TOE-2.8839 TRA 5.1589 TC3-1.7066 BAU .9846
ROE .5027 RRA -.0395 RC3 -.0259 FAU .00993
FOE -.8416 FRA 1.7697 FC3 -.1993 BSP 19783
BOE 2.9274 BRA 5.1591 BC3 1.7068 FSP -561

MID-COURSE EXECUTION ACCURACY
SGT 6118.9 SGR 441.5 SG3 165.7
RRT -.4540 RRF -.4506 RTF .9701
SGB 6134.9 R23 .0094 R13 -.9701
SG1 6122.2 SG2 393.2 THA 178.12

ORBIT DETERMINATION ACCURACY
ST 2946.2 SR 438.6 SS 802.5
CRT -.8674 CRS .8283 CST -.9971
LSA 3076.6 MSA 225.9 SSA 12.9
EL1 2970.8 EL2 216.5 ALF 172.60

LAUNCH DATE JUN 17 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 17 1968

HELIOCENTRIC CONIC DISTANCE 605.391

RL 151.98 LAL -.00 LOL 265.14 VL 25.780 GAL 12.41 AZL 93.10 HCA 296.25 SMA 122.67 ECC .31718 INC 3.1000 V1 29.314
RP 107.96 LAP 2.78 LOP 201.43 VP 37.106 GAP 17.20 AZP 91.37 TAL 149.76 TAP 86.02 RCA 83.76 APO 161.59 V2 35.103
RC 175.555 GL -11.29 GP 1.89 ZAL 39.15 ZAP 177.37 ETS 44.08 ZAE 125.18 ETE 178.84 ZAC 62.61 ETC 13.02 CLP-178.18

PLANETOCENTRIC CONIC

C3 48.339 VHL 6.953 DLA -27.83 RAL 221.37 RAD 6568.8 VEL 13.027 PTH 2.38 VHP 10.762 DPA -4.77 RAP 203.29 ECC 1.7955

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 41 3	1261.44	9.32	346.45	102.10	116.86	14 2 4	661.4	12.85	339.55
90.00	15 12 58	962.55	17.87	328.67	106.13	112.33	15 29 0	362.6	20.75	321.18
100.00	14 15 24	1150.36	4.80	335.86	99.66	119.54	14 34 34	550.4	8.70	329.24
100.00	17 21 17	5836.91	22.66	278.11	108.10	110.04	18 58 34	5236.9	25.18	270.23
110.00	14 21 6	1132.45	-2.05	330.25	95.41	124.13	14 39 58	532.5	2.44	324.05
110.00	19 32 5	5427.58	30.31	249.87	110.93	106.61	21 2 32	4827.6	32.29	241.21

DIFFERENTIAL CORRECTIONS
TDE-2.9315 TRA 5.5997 TC3-1.4871 BAU .9611
RDE .5265 RRA -.0593 RC3 -.0204 FAU .00825
FDE -.8173 FRA 1.8187 FC3 -.1478 BSP 19857
BDE 2.9784 BRA 5.6000 BC3 1.4873 FSP -538

MID-COURSE EXECUTION ACCURACY
SGT 6110.9 SGR 438.3 SG3 158.6
RRT -.4771 RRF -.4724 RTF .9716
SGB 6126.6 R23 .0081 R13 -.9716
SG1 6114.5 SG2 385.0 THA 178.03

ORBIT DETERMINATION ACCURACY
ST 2879.4 SR 434.2 SS 784.7
CRT -.8591 CRS .8205 CST -.9973
LSA 3007.1 MSA 228.7 SSA 12.4
EL1 2903.6 EL2 220.4 ALF 172.58

LAUNCH DATE JUN 17 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 19 1968

HELIOCENTRIC CONIC DISTANCE 609.936

RL 151.98 LAL -.00 LOL 265.14 VL 25.747 GAL 13.43 AZL 93.06 HCA 299.47 SMA 122.48 ECC .32993 INC 3.0628 V1 29.314
RP 107.99 LAP 2.67 LOP 204.65 VP 37.071 GAP 18.07 AZP 91.51 TAL 148.67 TAP 88.15 RCA 82.07 APO 162.89 V2 35.091
RC 177.448 GL -10.45 GP 1.85 ZAL 37.71 ZAP 178.00 ETS 65.39 ZAE 124.92 ETE 178.84 ZAC 60.53 ETC 13.17 CLP-179.23

PLANETOCENTRIC CONIC

C3 54.379 VHL 7.374 DLA -27.41 RAL 223.02 RAD 6569.0 VEL 13.257 PTH 2.42 VHP 11.278 DPA -5.67 RAP 205.26 ECC 1.8949

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 30 53	1345.74	6.70	351.25	104.71	117.58	13 53 19	745.7	10.34	344.46
90.00	15 36 20	936.79	18.53	327.07	110.27	111.80	15 51 57	336.8	21.33	319.51
100.00	14 13 3	1209.47	2.81	339.11	102.58	119.77	14 33 13	609.5	6.75	332.54
100.00	17 36 51	5836.34	22.67	278.08	111.96	110.02	19 14 7	5236.3	25.19	270.19
110.00	14 22 47	1178.89	-3.82	332.68	98.46	123.99	14 42 26	578.9	.67	326.47
110.00	19 43 36	5439.68	30.07	250.73	114.73	107.07	21 14 16	4839.7	32.11	242.11

DIFFERENTIAL CORRECTIONS
TDE-2.9827 TRA 6.0727 TC3-1.2801 BAU .9307
RDE .5504 RRA -.0813 RC3 -.0161 FAU .00658
FDE -.7961 FRA 1.8719 FC3 -.1047 BSP 19903
BDE 3.0331 BRA 6.0732 BC3 1.2802 FSP -516

MID-COURSE EXECUTION ACCURACY
SGT 6098.1 SGR 434.2 SG3 151.9
RRT -.5002 RRF -.4944 RTF .9732
SGB 6113.5 R23 .0067 R13 -.9732
SG1 6102.0 SG2 375.7 THA 177.95

ORBIT DETERMINATION ACCURACY
ST 2813.7 SR 428.2 SS 769.9
CRT -.8508 CRS .8129 CST -.9975
LSA 2939.3 MSA 230.6 SSA 12.0
EL1 2837.3 EL2 223.1 ALF 172.58

LAUNCH DATE JUN 17 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 21 1968

HELIOCENTRIC CONIC DISTANCE 614.251

RL 151.98 LAL -.00 LOL 265.14 VL 25.714 GAL 14.55 AZL 93.02 HCA 302.69 SMA 122.29 ECC .34398 INC 3.0233 V1 29.314
RP 108.03 LAP 2.54 LOP 207.87 VP 37.036 GAP 19.02 AZP 91.63 TAL 147.64 TAP 90.33 RCA 80.22 APO 164.36 V2 35.078
RC 179.325 GL -9.64 GP 1.81 ZAL 36.37 ZAP 178.16 ETS 97.50 ZAE 124.62 ETE 178.85 ZAC 58.48 ETC 13.37 CLP 179.69

PLANETOCENTRIC CONIC

C3 61.442 VHL 7.838 DLA -26.98 RAL 224.56 RAD 6569.1 VEL 13.520 PTH 2.47 VHP 11.843 DPA -6.55 RAP 207.22 ECC 2.0112

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 23 28	1420.46	4.32	355.46	107.37	118.01	13 47 8	820.5	8.04	348.75
90.00	15 56 1	921.86	18.91	326.14	114.21	111.48	16 11 22	321.9	21.66	318.54
100.00	14 10 42	1267.88	.83	342.32	105.44	119.88	14 31 50	667.9	4.80	335.78
100.00	17 51 28	5837.71	22.64	278.17	115.72	110.06	19 28 46	5237.7	25.16	270.28
110.00	14 24 0	1226.12	-5.62	335.16	101.44	123.77	14 44 26	626.1	-1.14	328.93
110.00	19 54 39	5452.24	29.82	251.62	118.44	107.54	21 25 31	4852.2	31.93	243.04

DIFFERENTIAL CORRECTIONS
TDE-3.0404 TRA 6.5813 TC3-1.0864 BAU .8924
RDE .5743 RRA -.1055 RC3 -.0128 FAU .00491
FDE -.7785 FRA 1.9299 FC3 -.0692 BSP 19913
BDE 3.0942 BRA 6.5821 BC3 1.0864 FSP -495

MID-COURSE EXECUTION ACCURACY
SGT 6081.1 SGR 429.1 SG3 145.6
RRT -.5234 RRF -.5167 RTF .9750
SGB 6096.2 R23 .0052 R13 -.9750
SG1 6085.2 SG2 365.4 THA 177.88

ORBIT DETERMINATION ACCURACY
ST 2750.3 SR 420.6 SS 758.4
CRT -.8428 CRS .8058 CST -.9977
LSA 2874.5 MSA 231.2 SSA 11.5
EL1 2773.2 EL2 224.5 ALF 172.61

LAUNCH DATE JUN 17 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 23 1968

HELIOCENTRIC CONIC DISTANCE 618.289

RL 151.98 LAL -.00 LOL 265.14 VL 25.682 GAL 15.76 AZL 92.98 HCA 305.90 SMA 122.11 ECC .35951 INC 2.9808 V1 29.314
RP 108.07 LAP 2.41 LOP 211.08 VP 37.002 GAP 20.05 AZP 91.75 TAL 146.68 TAP 92.58 RCA 78.21 APO 166.00 V2 35.065
RC 181.185 GL -8.85 GP 1.78 ZAL 35.13 ZAP 177.73 ETS 126.26 ZAE 124.30 ETE 178.84 ZAC 56.47 ETC 13.60 CLP 178.58

PLANETOCENTRIC CONIC

C3 69.740 VHL 8.351 DLA -26.53 RAL 225.97 RAD 6569.3 VEL 13.824 PTH 2.52 VHP 12.464 DPA -7.40 RAP 209.17 ECC 2.1477

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 17 18	1490.21	2.08	359.36	110.02	118.25	13 42 8	890.2	5.84	352.70
90.00	16 13 28	912.84	19.13	325.57	117.98	111.28	16 28 41	312.8	21.86	317.95
100.00	14 8 13	1325.72	-1.13	345.49	108.23	119.87	14 30 19	725.7	2.85	338.97
100.00	18 5 13	5840.60	22.57	278.35	119.37	110.14	19 42 34	5240.6	25.11	270.48
110.00	14 24 43	1273.95	-7.42	337.69	104.35	123.46	14 45 57	673.9	-2.97	331.43
110.00	20 5 13	5465.14	29.55	252.53	122.06	108.02	21 36 18	4865.1	31.73	243.99

DIFFERENTIAL CORRECTIONS
TDE-3.1046 TRA 7.1288 TC3 -.9057 BAU .8445
RDE .5983 RRA -.1321 RC3 -.0105 FAU .00321
FDE -.7644 FRA 1.9935 FC3 -.0399 BSP 19908
BDE 3.1617 BRA 7.1300 BC3 .9058 FSP -475

MID-COURSE EXECUTION ACCURACY
SGT 6059.0 SGR 423.2 SG3 139.8
RRT -.5466 RRF -.5390 RTF .9770
SGB 6073.7 R23 .0038 R13 -.9770
SG1 6063.4 SG2 354.1 THA 177.81

ORBIT DETERMINATION ACCURACY
ST 2688.6 SR 411.6 SS 750.3
CRT -.8351 CRS .7993 CST -.9980
LSA 2812.1 MSA 230.7 SSA 11.1
EL1 2710.7 EL2 224.6 ALF 172.66

LAUNCH DATE JUN 18 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 27 1967

HELIOCENTRIC CONIC DISTANCE 160.996

RL	151.99	LAL	-.00	LOL	266.10	VL	22.789	GAL	-.01	AZL	93.61	HCA	65.20	SMA	108.16	ECC	.40522	INC	3.6099
RP	108.90	LAP	-3.28	LOP	331.26	VP	34.791	GAP	-23.90	AZP	91.52	TAL	180.02	TAP	245.22	RCA	64.33	APO	151.99
RC	43.079	GL	-12.32	GP	-1.40	ZAL	91.23	ZAP	12.14	ETS	173.67	ZAE	168.23	ETE	61.16	ZAC	102.03	ETC	14.43

V1	29.312	V2	34.799	CLP	12.06														

PLANETOCENTRIC CONIC

C3	45.216	VHL	6.724	DLA	-9.25	RAL	170.34	RAD	6568.7	VEL	12.907	PTH	2.35	VHP	14.335	DPA	8.39	RAP	165.42

ECC	1.7441	LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG							
		90.00	6 10 43	2126.23	-17.33	35.96	43.33	112.75	6 46 9	1526.2	-14.10	28.78							
		90.00	15 48 21	5352.32	27.70	244.11	49.76	83.88	17 17 33	4752.3	26.57	235.63							
		100.00	7 27 32	1878.42	-18.64	17.15	42.74	113.80	7 58 50	1278.4	-15.27	9.98							
		100.00	17 14 13	5075.37	29.12	223.56	49.58	82.93	18 38 49	4475.4	27.83	214.99							
		110.00	8 25 28	1697.00	-22.12	1.63	40.98	116.75	8 53 45	1097.0	-18.35	354.53							
		110.00	18 32 47	4829.55	32.93	204.24	48.92	80.25	19 53 16	4229.5	31.23	195.42							

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	.4780	TRA	-.7369	TC3	.1282	BAU	.0904	SGT	774.8	SGR	433.1	SG3	57.5	ST	449.8	SR	389.1	SS	358.8
RDE	-.4528	RRA	-.1938	RC3	.0769	FAU	.02121	RRT	-.0980	RRF	.0267	RTF	-.7220	CRT	-.8430	CRS	-.9186	CST	.9852
FDE	-.3270	FRA	.2999	FC3	-.4061	BSP	4086	SGB	887.6	R23	.0759	R13	.7194	LSA	674.2	MSA	166.2	SSA	15.3
BDE	.6584	BRA	.7620	BC3	.1495	FSP	-182	SG1	776.5	SG2	430.0	THA	175.47	EL1	571.5	EL2	164.7	ALF	139.90

LAUNCH DATE JUN 18 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 29 1967

HELIOCENTRIC CONIC DISTANCE 167.572

RL	151.99	LAL	-.00	LOL	266.10	VL	23.188	GAL	-.12	AZL	93.57	HCA	68.37	SMA	109.80	ECC	.38422	INC	3.5725
RP	108.88	LAP	-3.32	LOP	334.43	VP	35.059	GAP	-22.59	AZP	91.32	TAL	180.20	TAP	248.56	RCA	67.61	APO	151.99
RC	42.876	GL	-13.18	GP	-1.46	ZAL	91.71	ZAP	10.43	ETS	172.12	ZAE	166.68	ETE	51.36	ZAC	100.66	ETC	14.30

V1	29.312	V2	34.804	CLP	10.33														

PLANETOCENTRIC CONIC

C3	40.180	VHL	6.339	DLA	-9.84	RAL	169.54	RAD	6568.5	VEL	12.710	PTH	2.31	VHP	13.598	DPA	7.78	RAP	166.73

ECC	1.6613	LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG							
		90.00	6 12 15	2077.27	-16.02	32.97	40.52	113.67	6 46 52	1477.3	-12.68	25.88							
		90.00	15 40 27	5341.76	27.62	243.35	46.98	83.51	17 9 29	4741.8	26.44	234.89							
		100.00	7 28 44	1830.50	-17.30	14.23	39.92	114.76	7 59 15	1230.5	-13.82	7.17							
		100.00	17 6 39	5063.76	29.02	222.71	46.78	82.49	18 31 3	4463.8	27.68	214.16							
		110.00	8 25 57	1651.35	-20.70	358.86	38.14	117.83	8 53 29	1051.3	-16.81	351.89							
		110.00	18 25 55	4815.68	32.76	203.19	46.10	79.65	19 46 11	4215.7	30.99	194.42							

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	.3987	TRA	-.7824	TC3	.0989	BAU	.0704	SGT	812.9	SGR	436.5	SG3	60.4	ST	419.8	SR	391.5	SS	365.1
RDE	-.4296	RRA	-.1819	RC3	.0861	FAU	.02064	RRT	-.0183	RRF	.0218	RTF	-.6744	CRT	-.7857	CRS	-.9161	CST	.9657
FDE	-.3300	FRA	.3112	FC3	-.4448	BSP	2164	SGB	922.7	R23	-.0045	R13	.6744	LSA	653.7	MSA	188.0	SSA	15.8
BDE	.5861	BRA	.8033	BC3	.1311	FSP	-134	SG1	812.9	SG2	436.4	THA	179.21	EL1	542.6	EL2	187.4	ALF	137.54

LAUNCH DATE JUN 18 1967 FLIGHT TIME 74.00 ARRIVAL DATE AUG 31 1967

HELIOCENTRIC CONIC DISTANCE 174.185

RL	151.99	LAL	-.00	LOL	266.10	VL	23.556	GAL	-.26	AZL	93.54	HCA	71.53	SMA	111.39	ECC	.36453	INC	3.5366
RP	108.87	LAP	-3.35	LOP	337.60	VP	35.309	GAP	-21.34	AZP	91.12	TAL	180.45	TAP	251.98	RCA	70.78	APO	151.99
RC	42.849	GL	-14.05	GP	-1.54	ZAL	92.35	ZAP	8.72	ETS	169.93	ZAE	164.87	ETE	43.59	ZAC	99.30	ETC	14.18

V1	29.312	V2	34.809	CLP	8.58														

PLANETOCENTRIC CONIC

C3	35.820	VHL	5.985	DLA	-10.38	RAL	168.59	RAD	6568.4	VEL	12.538	PTH	2.27	VHP	12.892	DPA	7.16	RAP	168.02

ECC	1.5895	LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG							
		90.00	6 12 50	2030.42	-14.72	30.15	37.65	114.47	6 46 41	1430.4	-11.29	23.14							
		90.00	15 32 15	5330.57	27.53	242.54	44.07	83.11	17 1 5	4730.6	26.29	234.10							
		100.00	7 29 1	1784.64	-15.97	11.47	37.04	115.61	7 58 46	1184.6	-12.39	4.50							
		100.00	16 58 45	5051.58	28.91	221.82	43.86	82.04	18 22 56	4451.6	27.50	213.30							
		110.00	8 25 33	1607.59	-19.28	356.25	35.25	118.79	8 52 21	1007.6	-15.29	349.40							
		110.00	18 18 42	4801.38	32.58	202.11	43.15	79.04	19 38 44	4201.4	30.73	193.38							

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	.4058	TRA	-.7521	TC3	.1450	BAU	.0831	SGT	846.7	SGR	438.5	SG3	67.1	ST	446.3	SR	392.8	SS	390.1
RDE	-.4070	RRA	-.1699	RC3	.0955	FAU	.02185	RRT	-.0284	RRF	.0294	RTF	-.6992	CRT	-.8013	CRS	-.9246	CST	.9668
FDE	-.3530	FRA	.3071	FC3	-.5281	BSP	2414	SGB	953.5	R23	-.0023	R13	.6993	LSA	686.2	MSA	185.8	SSA	16.2
BDE	.5748	BRA	.7710	BC3	.1756	FSP	-156	SG1	846.8	SG2	438.2	THA	178.85	EL1	564.8	EL2	185.7	ALF	139.54

LAUNCH DATE JUN 18 1967 FLIGHT TIME 76.00 ARRIVAL DATE SEP 2 1967

HELIOCENTRIC CONIC DISTANCE 180.828

RL	151.99	LAL	-.00	LOL	266.10	VL	23.895	GAL	-.40	AZL	93.50	HCA	74.70	SMA	112.92	ECC	.34614	INC	3.5021
RP	108.85	LAP	-3.38	LOP	340.77	VP	35.542	GAP	-20.15	AZP	90.93	TAL	180.76	TAP	255.46	RCA	73.83	APO	152.00
RC	42.995	GL	-14.94	GP	-1.62	ZAL	93.11	ZAP	7.01	ETS	166.65	ZAE	162.90	ETE	37.46	ZAC	97.96	ETC	14.07

V1	29.312	V2	34.815	CLP	6.82														

PLANETOCENTRIC CONIC

C3	32.055	VHL	5.662	DLA	-10.88	RAL	167.50	RAD	6568.3	VEL	12.387	PTH	2.24	VHP	12.217	DPA	6.54	RAP	169.29

ECC	1.5275	LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG							
		90.00	6 12 35	1985.88	-13.44	27.49	34.74	115.16	6 45 41	1385.9	-9.94	20.56							
		90.00	15 23 48	5319.08	27.44	241.72	41.08	82.71	16 52 27	4719.1	26.14	233.29							
		100.00	7 28 29	1741.02	-14.67	8.88	34.13	116.34	7 57 30	1141.0	-11.01	2.00							
		100.00	16 50 36	5039.17	28.79	220.92	40.87	81.58	18 14 35	4439.2	27.32	212.42							
		110.00	8 24 23	1565.98	-17.90	353.81	32.35	119.62	8 50 29	966.0	-13.82	347.07							
		110.00	18 11 11	4786.98	32.39	201.03	40.13	78.42	19 30 58	4187.0	30.46	192.35							

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	.4066	TRA	-.7294	TC3	.1898	BAU	.0930	SGT	883.5	SGR	439.6	SG3	74.3	ST	469.2	SR	393.5	SS	413.3
RDE	-.3858	RRA	-.1584	RC3	.1051	FAU	.02304	RRT	-.0317	RRF	.0345	RTF	-.7156	CRT	-.8100	CRS	-.9312	CST	.9661
FDE	-.3750	FRA	.3045	FC3	-.6223	BSP	2478	SGB	986.8	R23	-.0044	R13	.7157	LSA	714.9	MSA	185.6	SSA	16.7
BDE	.5605	BRA	.7464	BC3	.2170	FSP	-174	SG1	883.6	SG2	439.3	THA	178.80	EL1	583.6	EL2	185.5	ALF	141.16

LAUNCH DATE JUN 18 1967 FLIGHT TIME 78.00 ARRIVAL DATE SEP 4 1967

HELIOCENTRIC CONIC DISTANCE 187.495

RL 151.99 LAL -.00 LOL 266.10 VL 24.208 GAL -.56 AZL 93.47 HCA 77.86 SMA 114.38 ECC .32900 INC 3.4686 V1 29.312
RP 108.83 LAP -3.39 LOP 343.94 VP 35.759 GAP -19.01 AZP 90.73 TAL 181.14 TAP 259.00 RCA 76.75 APO 152.01 V2 34.822
RC 43.312 GL -15.84 GP -1.71 ZAL 94.01 ZAP 5.32 ETS 161.16 ZAE 160.87 ETE 32.58 ZAC 96.64 ETC 13.97 CLP 5.04

PLANETOCENTRIC CONIC

C3 28.806 VHL 5.367 DLA -11.34 RAL 166.28 RAD 6568.2 VEL 12.255 PTH 2.20 VHP 11.571 DPA 5.91 RAP 170.53 ECC 1.4741

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 11 27	1944.03	-12.22	25.03	31.82	115.74	6 43 51	1344.0	-8.66	18.16
90.00	15 15 12	5307.30	27.33	240.87	38.02	82.30	16 43 40	4707.3	25.98	232.46
100.00	7 27 5	1700.03	-13.42	6.48	31.21	116.96	7 55 25	1100.0	-9.20	359.67
100.00	16 42 16	5026.53	28.66	220.00	37.81	81.11	18 6 2	4426.5	27.13	211.53
110.00	8 22 23	1526.82	-16.57	351.56	29.43	120.34	8 47 50	926.8	-12.42	344.91
110.00	18 3 26	4772.51	32.19	199.95	37.04	77.82	19 22 59	4172.5	30.18	191.32

DIFFERENTIAL CORRECTIONS
TDE .4108 TRA -.7014 TC3 .2465 BAU .1047
RDE -.3659 RRA -.1476 RC3 .1147 FAU .02445
FDE -.4005 FRA .2980 FC3 -.7348 BSP 2628
BDE .5501 BRA .7168 BC3 .2719 FSP -197

MID-COURSE EXECUTION ACCURACY
SGT 919.5 SGR 439.9 SG3 82.4
RRT -.0395 RRF .0424 RTF -.7341
SGB 1019.4 R23 -.0048 R13 .7342
SG1 919.8 SG2 439.5 THA 178.60

ORBIT DETERMINATION ACCURACY
ST 494.8 SR 393.6 SS 439.0
CRT -.8226 CRS -.9386 CST .9663
LSA 747.4 MSA 183.3 SSA 17.2
EL1 605.2 EL2 183.0 ALF 142.84

LAUNCH DATE JUN 18 1967 FLIGHT TIME 80.00 ARRIVAL DATE SEP 6 1967

HELIOCENTRIC CONIC DISTANCE 194.184

RL 151.99 LAL -.00 LOL 266.10 VL 24.495 GAL -.72 AZL 93.44 HCA 81.03 SMA 115.77 ECC .31309 INC 3.4358 V1 29.312
RP 108.80 LAP -3.39 LOP 347.11 VP 35.961 GAP -17.93 AZP 90.54 TAL 181.58 TAP 262.61 RCA 79.52 APO 152.01 V2 34.830
RC 43.796 GL -16.73 GP -1.81 ZAL 95.04 ZAP 3.70 ETS 150.52 ZAE 158.86 ETE 28.63 ZAC 95.35 ETC 13.89 CLP 3.22

PLANETOCENTRIC CONIC

C3 26.005 VHL 5.100 DLA -11.74 RAL 164.94 RAD 6568.1 VEL 12.140 PTH 2.18 VHP 10.952 DPA 5.28 RAP 171.74 ECC 1.4280

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 9 26	1905.20	-11.06	22.77	28.89	116.23	6 41 11	1305.2	-7.45	15.95
90.00	15 6 31	5295.25	27.22	240.01	34.93	81.88	16 34 46	4695.2	25.82	231.62
100.00	7 24 49	1661.97	-12.23	4.28	28.28	117.49	7 52 31	1062.0	-8.46	357.53
100.00	16 33 49	5013.70	28.52	219.07	34.71	80.64	17 57 23	4413.7	26.93	210.63
110.00	8 19 36	1490.41	-15.31	349.49	26.51	120.94	8 44 27	890.4	-11.09	342.92
110.00	17 55 31	4758.03	31.97	198.88	33.92	77.21	19 14 49	4158.0	29.88	190.29

DIFFERENTIAL CORRECTIONS
TDE .4120 TRA -.6754 TC3 .3068 BAU .1150
RDE -.3473 RRA -.1374 RC3 .1239 FAU .02597
FDE -.4265 FRA .2908 FC3 -.8646 BSP 2737
BDE .5388 BRA .6892 BC3 .3309 FSP -222

MID-COURSE EXECUTION ACCURACY
SGT 955.4 SGR 439.4 SG3 91.4
RRT -.0451 RRF .0495 RTF -.7485
SGB 1051.6 R23 -.0067 R13 .7487
SG1 955.7 SG2 438.8 THA 178.50

ORBIT DETERMINATION ACCURACY
ST 518.1 SR 393.1 SS 463.9
CRT -.8328 CRS -.9452 CST .9659
LSA 777.8 MSA 181.5 SSA 17.7
EL1 624.8 EL2 180.5 ALF 144.28

LAUNCH DATE JUN 18 1967 FLIGHT TIME 82.00 ARRIVAL DATE SEP 8 1967

HELIOCENTRIC CONIC DISTANCE 200.887

RL 151.99 LAL -.00 LOL 266.10 VL 24.758 GAL -.89 AZL 93.40 HCA 84.20 SMA 117.10 ECC .29835 INC 3.4037 V1 29.312
RP 108.78 LAP -3.39 LOP 350.29 VP 36.149 GAP -16.89 AZP 90.34 TAL 182.08 TAP 266.29 RCA 82.16 APO 152.03 V2 34.838
RC 44.440 GL -17.61 GP -1.92 ZAL 96.17 ZAP 2.36 ETS 125.37 ZAE 156.90 ETE 25.37 ZAC 94.09 ETC 13.82 CLP 1.38

PLANETOCENTRIC CONIC

C3 23.594 VHL 4.857 DLA -12.08 RAL 163.49 RAD 6568.0 VEL 12.040 PTH 2.15 VHP 10.360 DPA 4.65 RAP 172.92 ECC 1.3883

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 6 32	1869.69	-9.98	20.71	25.96	116.64	6 37 42	1269.7	-6.33	13.94
90.00	14 57 51	5282.87	27.10	239.12	31.82	81.45	16 25 54	4682.9	25.64	230.76
100.00	7 21 43	1627.15	-11.13	2.28	25.36	117.92	7 48 50	1027.1	-7.31	355.58
100.00	16 25 21	5000.66	28.37	218.13	31.59	80.17	17 48 42	4400.7	26.72	209.72
110.00	8 16 2	1457.02	-14.13	347.62	23.61	121.46	8 40 19	857.0	-9.86	341.12
110.00	17 47 31	4743.55	31.75	197.81	30.79	76.61	19 6 35	4143.5	29.58	189.27

DIFFERENTIAL CORRECTIONS
TDE .4166 TRA -.6461 TC3 .3798 BAU .1269
RDE -.3301 RRA -.1278 RC3 .1324 FAU .02774
FDE -.4568 FRA .2801 FC3-1.0181 BSP 2896
BDE .5316 BRA .6586 BC3 .4022 FSP -251

MID-COURSE EXECUTION ACCURACY
SGT 992.5 SGR 438.1 SG3 101.6
RRT -.0548 RRF .0593 RTF -.7652
SGB 1084.8 R23 -.0073 R13 .7654
SG1 992.8 SG2 437.3 THA 178.28

ORBIT DETERMINATION ACCURACY
ST 544.3 SR 392.1 SS 491.5
CRT -.8457 CRS -.9521 CST .9664
LSA 812.1 MSA 178.2 SSA 18.3
EL1 647.4 EL2 176.0 ALF 145.77

LAUNCH DATE JUN 18 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 10 1967

HELIOCENTRIC CONIC DISTANCE 207.603

RL 151.99 LAL -.00 LOL 266.10 VL 25.000 GAL -1.05 AZL 93.37 HCA 87.37 SMA 118.36 ECC .28475 INC 3.3718 V1 29.312
RP 108.75 LAP -3.37 LOP 353.47 VP 36.324 GAP -15.89 AZP 90.15 TAL 182.64 TAP 270.02 RCA 84.65 APO 152.06 V2 34.846
RC 45.237 GL -18.48 GP -2.04 ZAL 97.41 ZAP 2.10 ETS 75.54 ZAE 155.06 ETE 22.64 ZAC 92.88 ETC 13.76 CLP -.51

PLANETOCENTRIC CONIC

C3 21.520 VHL 4.639 DLA -12.36 RAL 161.94 RAD 6567.9 VEL 11.954 PTH 2.13 VHP 9.793 DPA 4.02 RAP 174.05 ECC 1.3542

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 2 47	1837.75	-9.00	18.88	23.05	116.96	6 33 24	1237.8	-5.32	12.14
90.00	14 49 17	5270.15	26.97	238.21	28.71	81.01	16 17 7	4670.2	25.45	229.88
100.00	7 17 47	1595.77	-10.12	.49	22.46	118.28	7 44 23	995.8	-6.27	353.83
100.00	16 16 58	4987.37	28.21	217.18	28.47	79.69	17 40 5	4387.4	26.50	208.79
110.00	8 11 43	1426.85	-13.05	345.95	20.73	121.88	8 35 30	826.8	-8.74	339.50
110.00	17 39 31	4729.06	31.52	196.74	27.65	76.02	18 58 20	4129.1	29.28	188.25

DIFFERENTIAL CORRECTIONS
TDE .4185 TRA -.6244 TC3 .5126 BAU .1529
RDE -.3143 RRA -.1188 RC3 .1400 FAU .02975
FDE -.4903 FRA .2667 FC3-1.1967 BSP 3859
BDE .5233 BRA .6356 BC3 .5313 FSP -284

MID-COURSE EXECUTION ACCURACY
SGT 1056.7 SGR 436.0 SG3 113.1
RRT -.0440 RRF .0704 RTF -.8006
SGB 1143.1 R23 -.0280 R13 .8008
SG1 1056.9 SG2 435.5 THA 178.75

ORBIT DETERMINATION ACCURACY
ST 568.7 SR 390.8 SS 520.2
CRT -.8544 CRS -.9587 CST .9650
LSA 845.6 MSA 177.2 SSA 18.3
EL1 668.0 EL2 172.9 ALF 147.10

LAUNCH DATE JUN 18 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 12 1967

HELIOCENTRIC CONIC DISTANCE 214.326

```
RL  151.99 LAL   -.00 LOL 266.10 VL  25.222 GAL  -1.21 AZL  93.34 HCA  90.55 SMA 119.54 ECC .27222 INC 3.3401 V1  29.312
RP  108.72 LAP  -3.34 LOP 356.65 VP  36.485 GAP -14.94 AZP  89.97 TAL 183.25 TAP 273.80 RCA  87.00 APO 152.08 V2  34.856
RC  46.178 GL  -19.31 GP  -2.18 ZAL  98.73 ZAP   3.28 ETS  41.16 ZAE 153.35 ETE  20.31 ZAC  91.72 ETC  13.72 CLP  -2.45
```

PLANETOCENTRIC CONIC

```
C3  19.740 VHL  4.443 DLA -12.59 RAL 160.32 RAD 6567.8 VEL 11.879 PTH   2.11 VHP  9.251 DPA   3.40 RAP 175.12 ECC 1.3249
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 58 12	1809.55	-8.13	17.27	20.18	117.22	6 28 22	1209.6	-4.42	10.56
90.00	14 40 55	5257.03	26.82	237.28	25.63	80.57	16 8 32	4657.0	25.25	228.97
100.00	7 13 4	1568.02	-9.22	358.93	19.59	118.56	7 39 12	968.0	-5.34	352.29
100.00	16 8 45	4973.80	28.04	216.20	25.38	79.20	17 31 39	4373.8	26.27	207.85
110.00	8 6 42	1400.05	-12.08	344.48	17.89	122.22	8 30 2	800.0	-7.74	338.07
110.00	17 31 36	4714.53	31.27	195.68	24.55	75.44	18 50 11	4114.5	28.96	187.24

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE  .4238 TRA -.5862 TC3  .5429 BAU  .1483   SGT 1063.6 SGR  433.0 SG3  125.8      ST   594.0 SR   389.0 SS   549.3
 RDE -.2998 RRA -.1105 RC3  .1457 FAU .03195   RRT -.0776 RRF  .0841 RTF -.7926     CRT -.8698 CRS -.9649 CST  .9668
 FDE -.5265 FRA  .2501 FC3-1.4014 BSP   3162   SGB 1148.4 R23 -.0104 R13  .7929     LSA  881.0 MSA  171.4 SSA   19.4
 BDE  .5191 BRA  .5965 BC3  .5621 FSP   -320   SGI 1064.3 SG2  431.4 THA 177.83     EL1  690.6 EL2  165.1 ALF 148.31
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 14 1967

HELIOCENTRIC CONIC DISTANCE 221.054

```
RL  151.99 LAL   -.00 LOL 266.10 VL  25.424 GAL  -1.38 AZL  93.31 HCA  93.72 SMA 120.66 ECC .26074 INC 3.3084 V1  29.312
RP  108.69 LAP  -3.30 LOP 359.83 VP  36.635 GAP -14.02 AZP  89.78 TAL 183.91 TAP 277.63 RCA  89.20 APO 152.12 V2  34.865
RC  47.255 GL  -20.10 GP  -2.33 ZAL 100.12 ZAP   5.02 ETS  27.10 ZAE 151.82 ETE  18.29 ZAC  90.61 ETC  13.68 CLP  -4.44
```

PLANETOCENTRIC CONIC

```
C3  18.214 VHL  4.268 DLA -12.74 RAL 158.65 RAD 6567.7 VEL 11.815 PTH   2.09 VHP  8.733 DPA   2.78 RAP 176.14 ECC 1.2998
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 52 52	1785.22	-7.37	15.89	17.35	117.42	6 22 37	1185.2	-3.64	9.19
90.00	14 32 53	5243.45	26.67	236.32	22.59	80.11	16 0 16	4643.5	25.03	228.03
100.00	7 7 38	1544.01	-8.44	357.57	16.78	118.78	7 33 22	944.0	-4.54	350.96
100.00	16 0 48	4959.89	27.86	215.21	22.34	78.71	17 23 28	4359.9	26.02	206.89
110.00	8 1 3	1376.72	-11.23	343.21	15.10	122.50	8 23 59	776.7	-6.86	336.83
110.00	17 23 53	4699.95	31.02	194.62	21.49	74.86	18 42 13	4099.9	28.63	186.23

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE  .4272 TRA -.5550 TC3  .6351 BAU  .1589   SGT 1098.3 SGR  429.3 SG3  140.5      ST   617.8 SR   387.0 SS   579.7
 RDE -.2865 RRA -.1028 RC3  .1495 FAU .03454   RRT -.0920 RRF  .0991 RTF -.8055     CRT -.8817 CRS -.9707 CST  .9671
 FDE -.5670 FRA  .2303 FC3-1.6415 BSP   3301   SGB 1179.2 R23 -.0119 R13  .8058     LSA  916.0 MSA  167.7 SSA   20.0
 BDE  .5144 BRA  .5644 BC3  .6525 FSP   -363   SGI 1099.1 SG2  427.1 THA 177.57     EL1  711.6 EL2  158.5 ALF 149.40
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 16 1967

HELIOCENTRIC CONIC DISTANCE 227.782

```
RL  151.99 LAL   -.00 LOL 266.10 VL  25.609 GAL  -1.53 AZL  93.28 HCA  96.90 SMA 121.70 ECC .25024 INC 3.2764 V1  29.312
RP  108.66 LAP  -3.25 LOP   3.01 VP  36.773 GAP -13.15 AZP  89.61 TAL 184.60 TAP 281.50 RCA  91.25 APO 152.16 V2  34.875
RC  48.458 GL  -20.84 GP  -2.50 ZAL 101.56 ZAP   6.97 ETS  20.36 ZAE 150.48 ETE  16.51 ZAC  89.57 ETC  13.66 CLP  -6.51
```

PLANETOCENTRIC CONIC

```
C3  16.908 VHL  4.112 DLA -12.84 RAL 156.93 RAD 6567.7 VEL 11.760 PTH   2.08 VHP  8.238 DPA   2.17 RAP 177.09 ECC 1.2783
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 46 51	1764.76	-6.73	14.73	14.60	117.57	6 16 15	1164.8	-2.98	8.05
90.00	14 25 15	5229.38	26.50	235.32	19.63	79.64	15 52 25	4629.4	24.80	227.06
100.00	7 1 33	1523.74	-7.77	356.44	14.03	118.95	7 26 56	923.7	-3.85	349.85
100.00	15 53 14	4945.62	27.67	214.19	19.37	78.21	17 15 40	4345.6	25.76	205.91
110.00	7 54 50	1356.86	-10.50	342.13	12.38	122.72	8 17 27	756.9	-6.12	335.78
110.00	17 16 27	4685.27	30.75	193.56	18.50	74.28	18 34 32	4085.3	28.29	185.22

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE  .4292 TRA -.5243 TC3  .7296 BAU  .1684   SGT 1131.0 SGR  424.9 SG3  156.8      ST   639.2 SR   384.8 SS   610.4
 RDE -.2746 RRA -.0958 RC3  .1509 FAU .03740   RRT -.1078 RRF  .1167 RTF -.8166     CRT -.8925 CRS -.9758 CST  .9672
 FDE -.6113 FRA  .2070 FC3-1.9153 BSP   3421   SGB 1208.2 R23 -.0145 R13  .8170     LSA  949.6 MSA  164.4 SSA   20.5
 BDE  .5095 BRA  .5330 BC3  .7451 FSP   -411   SGI 1132.1 SG2  422.0 THA 177.31     EL1  730.4 EL2  151.9 ALF 150.34
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 18 1967

HELIOCENTRIC CONIC DISTANCE 234.507

```
RL  151.99 LAL   -.00 LOL 266.10 VL  25.778 GAL  -1.68 AZL  93.24 HCA 100.08 SMA 122.68 ECC .24067 INC 3.2439 V1  29.312
RP  108.63 LAP  -3.19 LOP   6.19 VP  36.901 GAP -12.30 AZP  89.43 TAL 185.32 TAP 285.40 RCA  93.15 APO 152.20 V2  34.886
RC  49.776 GL  -21.53 GP  -2.70 ZAL 103.03 ZAP   9.05 ETS  16.54 ZAE 149.35 ETE  14.91 ZAC  88.61 ETC  13.66 CLP  -8.64
```

PLANETOCENTRIC CONIC

```
C3  15.790 VHL  3.974 DLA -12.87 RAL 155.21 RAD 6567.6 VEL 11.712 PTH   2.06 VHP  7.765 DPA   1.58 RAP 177.96 ECC 1.2599
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 40 13	1748.14	-6.20	13.79	11.93	117.68	6 9 21	1148.1	-2.45	7.12
90.00	14 18 8	5214.77	26.32	234.29	16.75	79.15	15 45 3	4614.8	24.55	226.07
100.00	6 54 54	1507.19	-7.23	355.51	11.37	119.08	7 20 1	907.2	-3.29	348.93
100.00	15 46 8	4930.96	27.46	213.15	16.49	77.70	17 8 19	4331.0	25.49	204.91
110.00	7 48 9	1340.43	-9.90	341.24	9.75	122.89	8 10 29	740.4	-5.49	334.92
110.00	17 9 23	4670.48	30.48	192.50	15.61	73.71	18 27 13	4070.5	27.94	184.22

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TOE  .4330 TRA -.4914 TC3  .8325 BAU  .1785   SGT 1164.3 SGR  419.8 SG3  175.6      ST   661.6 SR   382.5 SS   643.6
 RDE -.2638 RRA -.0894 RC3  .1491 FAU .04074   RRT -.1288 RRF  .1382 RTF -.8288     CRT -.9041 CRS -.9806 CST  .9678
 FDE -.6620 FRA  .1778 FC3-2.2335 BSP   3595   SGB 1237.7 R23 -.0160 R13  .8293     LSA  985.9 MSA  160.6 SSA   21.0
 BDE  .5070 BRA  .4995 BC3  .8458 FSP   -469   SGI 1165.8 SG2  415.8 THA 176.95     EL1  750.5 EL2  144.1 ALF 151.24
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 20 1967

HELIOCENTRIC CONIC DISTANCE 241.228

```
RL  151.99 LAL   -.00 LOL 266.10 VL  25.931 GAL  -1.82 AZL  93.21 HCA 103.26 SMA 123.58 ECC .23199 INC 3.2108 V1  29.312
RP  108.59 LAP  -3.13 LOP   9.38 VP  37.018 GAP -11.49 AZP  89.26 TAL 186.06 TAP 289.32 RCA  94.91 APO 152.25 V2  34.897
RC  51.201 GL  -22.14 GP   -2.91 ZAL 104.51 ZAP  11.25 ETS  14.12 ZAE 148.46 ETE  13.45 ZAC  87.74 ETC  13.66 CLP -10.87
```

PLANETOCENTRIC CONIC

```
C3  14.836 VHL  3.852 DLA -12.84 RAL 153.50 RAD 6567.6 VEL 11.671 PTH   2.05 VHP  7.314 DPA    .99 RAP 178.74 ECC 1.2442
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 33 8	1735.21	-5.79	13.06	9.37	117.77	6 2 3	1135.2	-2.03	6.40
90.00	14 11 35	5199.66	26.12	233.23	13.98	78.65	15 38 15	4599.7	24.29	225.04
100.00	6 47 50	1494.19	-6.80	354.79	8.82	119.18	7 12 44	894.2	-2.86	348.22
100.00	15 39 34	4915.91	27.24	212.09	13.71	77.18	17 1 30	4315.9	25.20	203.88
110.00	7 41 7	1327.29	-9.41	340.54	7.23	123.01	8 3 14	727.3	-5.00	334.23
110.00	17 2 46	4655.57	30.19	191.43	12.82	73.14	18 20 21	4055.6	27.58	183.21

DIFFERENTIAL CORRECTIONS

```
TDE  .4312 TRA -.4628 TC3  .9249 BAU  .1857
RDE -.2542 RRA -.0837 RC3  .1440 FAU .04442
FDE -.7157 FRA  .1467 FC3-2.5920 BSP   3652
BDE  .5005 BRA  .4703 BC3  .9361 FSP   -529
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1190.7 SGR  414.2 SG3  196.5
RRT -.1486 RRF  .1619 RTF -.8361
SGB 1260.6 R23 -.0212 R13  .8367
SG1 1192.5 SG2  409.0 THA 176.65
```

ORBIT DETERMINATION ACCURACY

```
ST   675.8 SR   380.0 SS   675.2
CRT -.9123 CRS -.9845 CST  .9672
LSA 1015.5 MSA  158.9 SSA   21.4
EL1  763.0 EL2  137.8 ALF 151.84
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 22 1967

HELIOCENTRIC CONIC DISTANCE 247.940

```
RL  151.99 LAL   -.00 LOL 266.10 VL  26.070 GAL  -1.96 AZL  93.18 HCA 106.44 SMA 124.42 ECC .22414 INC 3.1768 V1  29.312
RP  108.56 LAP  -3.05 LOP  12.56 VP  37.126 GAP -10.71 AZP  89.10 TAL 186.82 TAP 293.26 RCA  96.53 APO 152.30 V2  34.908
RC  52.722 GL  -22.68 GP   -3.16 ZAL 105.99 ZAP  13.56 ETS  12.47 ZAE 147.80 ETE  12.09 ZAC  86.98 ETC  13.68 CLP -13.20
```

PLANETOCENTRIC CONIC

```
C3  14.020 VHL  3.744 DLA -12.74 RAL 151.83 RAD 6567.6 VEL 11.636 PTH   2.04 VHP  6.884 DPA    .41 RAP 179.42 ECC 1.2307
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 25 40	1725.79	-5.49	12.53	6.93	117.82	5 54 25	1125.8	-1.73	5.87
90.00	14 5 41	5184.03	25.90	232.13	11.34	78.14	15 32 5	4584.0	24.01	223.98
100.00	6 40 25	1484.58	-6.48	354.25	6.39	119.25	7 5 10	884.6	-2.53	347.69
100.00	15 33 36	4900.47	27.00	211.00	11.07	76.66	16 55 16	4300.5	24.89	202.84
110.00	7 33 50	1317.29	-9.04	340.00	4.82	123.11	7 55 47	717.3	-4.62	333.70
110.00	16 56 40	4640.52	29.88	190.36	10.17	72.58	18 14 1	4040.5	27.21	182.19

DIFFERENTIAL CORRECTIONS

```
TDE  .4318 TRA -.4309 TC3 1.0242 BAU  .1936
RDE -.2456 RRA -.0787 RC3  .1347 FAU .04871
FDE -.7774 FRA  .1081 FC3-3.0076 BSP   3798
BDE  .4967 BRA  .4381 BC3 1.0330 FSP   -605
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1217.3 SGR  408.3 SG3  220.6
RRT -.1760 RRF  .1909 RTF -.8457
SGB 1283.9 R23 -.0243 R13  .8465
SG1 1219.7 SG2  401.1 THA 176.21
```

ORBIT DETERMINATION ACCURACY

```
ST   691.5 SR   377.7 SS   709.3
CRT -.9218 CRS -.9880 CST  .9674
LSA 1048.4 MSA  156.3 SSA   21.7
EL1  777.1 EL2  130.3 ALF 152.44
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 24 1967

HELIOCENTRIC CONIC DISTANCE 254.642

```
RL  151.99 LAL   -.00 LOL 266.10 VL  26.195 GAL  -2.09 AZL  93.14 HCA 109.63 SMA 125.19 ECC .21706 INC 3.1416 V1  29.312
RP  108.52 LAP  -2.96 LOP  15.75 VP  37.226 GAP  -9.96 AZP  88.94 TAL 187.57 TAP 297.20 RCA  98.01 APO 152.36 V2  34.920
RC  54.330 GL  -23.14 GP   -3.44 ZAL 107.43 ZAP  16.00 ETS  11.29 ZAE 147.39 ETE  10.81 ZAC  86.33 ETC  13.71 CLP -15.64
```

PLANETOCENTRIC CONIC

```
C3  13.323 VHL  3.650 DLA -12.60 RAL 150.21 RAD 6567.5 VEL 11.606 PTH   2.03 VHP  6.476 DPA   -.15 RAP 179.98 ECC 1.2193
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 17 57	1719.60	-5.30	12.18	4.62	117.86	5 46 37	1119.6	-1.53	5.53
90.00	14 0 28	5167.94	25.67	231.01	8.85	77.63	15 26 36	4567.9	23.71	222.89
100.00	6 32 49	1478.10	-6.26	353.89	4.09	119.29	6 57 27	878.1	-2.31	347.33
100.00	15 28 18	4884.68	26.75	209.90	8.57	76.13	16 49 42	4284.7	24.57	201.77
110.00	7 26 26	1310.18	-8.77	339.62	2.56	123.17	7 48 16	710.2	-4.35	333.33
110.00	16 51 10	4625.36	29.57	189.29	7.65	72.01	18 8 15	4025.4	26.83	181.18

DIFFERENTIAL CORRECTIONS

```
TDE  .4288 TRA -.4021 TC3 1.1116 BAU  .1992
RDE -.2380 RRA -.0744 RC3  .1210 FAU .05348
FDE -.8449 FRA  .0652 FC3-3.4751 BSP   3865
BDE  .4904 BRA  .4089 BC3 1.1181 FSP   -685
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1236.8 SGR  402.1 SG3  247.5
RRT -.2060 RRF  .2248 RTF -.8521
SGB 1300.6 R23 -.0302 R13  .8531
SG1 1239.9 SG2  392.5 THA 175.74
```

ORBIT DETERMINATION ACCURACY

```
ST   700.9 SR   375.4 SS   743.5
CRT -.9292 CRS -.9908 CST  .9670
LSA 1077.3 MSA  155.2 SSA   21.9
EL1  785.4 EL2  123.8 ALF 152.81
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 26 1967

HELIOCENTRIC CONIC DISTANCE 261.331

```
RL  151.99 LAL   -.00 LOL 266.10 VL  26.308 GAL  -2.20 AZL  93.10 HCA 112.81 SMA 125.89 ECC .21072 INC 3.1049 V1  29.312
RP  108.48 LAP  -2.86 LOP  18.94 VP  37.317 GAP  -9.24 AZP  88.80 TAL 188.32 TAP 301.13 RCA  99.36 APO 152.42 V2  34.932
RC  56.016 GL  -23.53 GP   -3.76 ZAL 108.84 ZAP  18.58 ETS  10.42 ZAE 147.24 ETE   9.56 ZAC  85.81 ETC  13.74 CLP -18.21
```

PLANETOCENTRIC CONIC

```
C3  12.727 VHL  3.567 DLA -12.40 RAL 148.66 RAD 6567.5 VEL 11.581 PTH   2.03 VHP  6.089 DPA   -.69 RAP 180.41 ECC 1.2095
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 10 8	1716.36	-5.19	12.00	2.46	117.88	5 38 45	1116.4	-1.42	5.34
90.00	13 55 58	5151.43	25.43	229.87	6.50	77.10	15 21 50	4551.4	23.40	221.78
100.00	6 25 7	1474.46	-6.14	353.69	1.95	119.31	6 49 41	874.5	-2.19	347.13
100.00	15 23 41	4868.57	26.48	208.78	6.22	75.59	16 44 49	4268.6	24.24	200.69
110.00	7 19 0	1305.70	-8.61	339.38	.44	123.21	7 40 46	705.7	-4.18	333.09
110.00	16 46 17	4610.09	29.24	188.22	5.30	71.46	18 3 7	4010.1	26.43	180.17

DIFFERENTIAL CORRECTIONS

```
TDE  .4241 TRA -.3739 TC3 1.1914 BAU  .2034
RDE -.2314 RRA -.0707 RC3  .1021 FAU .05894
FDE -.9201 FRA  .0155 FC3-4.0094 BSP   3930
BDE  .4831 BRA  .3805 BC3 1.1957 FSP   -780
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1250.8 SGR  396.2 SG3  278.2
RRT -.2416 RRF  .2648 RTF -.8576
SGB 1312.0 R23 -.0372 R13  .8588
SG1 1254.8 SG2  383.2 THA 175.17
```

ORBIT DETERMINATION ACCURACY

```
ST   706.1 SR   373.3 SS   778.7
CRT -.9358 CRS -.9931 CST  .9664
LSA 1104.5 MSA  154.6 SSA   21.9
EL1  790.0 EL2  117.7 ALF 153.03
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 28 1967

HELIOCENTRIC CONIC DISTANCE 268.007

```
RL  151.99 LAL   -.00 LOL 266.10 VL  26.410 GAL  -2.31 AZL  93.07 HCA 116.00 SMA 126.53 ECC .20505 INC 3.0665 VI  29.312
RP  108.45 LAP  -2.76 LOP  22.13 VP  37.400 GAP  -8.54 AZP  88.65 TAL 189.04 TAP 305.04 RCA 100.59 APO 152.48 V2  34.945
RC   57.772 GL  -23.82 GP   -4.12 ZAL 110.18 ZAP  21.31 ETS   9.76 ZAE 147.37 ETE   8.32 ZAC  85.45 ETC  13.78 CLP -20.93
```

PLANETOCENTRIC CONIC

```
C3  12.215 VHL  3.495 DLA -12.16 RAL 147.21 RAD 6567.5 VEL 11.559 PTH   2.02 VHP  5.722 DPA  -1.21 RAP 180.69 ECC 1.2010
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 2 19	1715.75	-5.17	11.96	.47	117.88	5 30 55	1115.8	-1.40	5.31
90.00	13 52 13	5134.55	25.17	228.70	4.33	76.57	15 17 48	4534.6	23.07	220.66
100.00	6 17 27	1473.37	-6.10	353.63	359.96	119.32	6 42 0	873.4	-2.15	347.07
100.00	15 19 47	4852.17	26.20	207.64	4.04	75.06	16 40 39	4252.2	23.89	199.60
110.00	7 11 39	1303.59	-8.53	339.27	358.47	123.23	7 33 23	703.6	-4.10	332.98
110.00	16 42 4	4594.71	28.91	187.15	3.10	70.91	17 58 38	3994.7	26.03	179.16

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .4176 TRA -.3471 TC3 1.2600 BAU  .2062   SGT 1258.2 SGR  390.9 SG3  313.1      ST   706.9 SR   371.6 SS   815.1
RDE -.2257 RRA -.0678 RC3  .0775 FAU .06517   RRT -.2835 RRF  .3120 RTF -.8618     CRT -.9414 CRS -.9949 CST  .9656
FDE-1.0040 FRA -.0412 FC3-4.6186 BSP   3974   SGB 1317.5 R23 -.0460 R13  .8634     LSA 1130.4 MSA  154.7 SSA   21.8
BDE  .4747 BRA  .3536 BC3 1.2624 FSP   -889   SG1 1263.5 SG2  373.2 THA 174.48     EL1  790.8 EL2  112.1 ALF 153.09
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 104.00 ARRIVAL DATE SEP 30 1967

HELIOCENTRIC CONIC DISTANCE 274.666

```
RL  151.99 LAL   -.00 LOL 266.10 VL  26.501 GAL  -2.41 AZL  93.03 HCA 119.19 SMA 127.11 ECC .20001 INC 3.0259 VI  29.312
RP  108.41 LAP  -2.64 LOP  25.32 VP  37.476 GAP  -7.87 AZP  88.52 TAL 189.73 TAP 308.92 RCA 101.69 APO 152.54 V2  34.957
RC   59.590 GL  -24.04 GP   -4.53 ZAL 111.45 ZAP  24.21 ETS   9.26 ZAE 147.79 ETE   7.04 ZAC  85.26 ETC  13.83 CLP -23.81
```

PLANETOCENTRIC CONIC

```
C3  11.774 VHL  3.431 DLA -11.88 RAL 145.87 RAD 6567.4 VEL 11.540 PTH   2.01 VHP  5.376 DPA  -1.71 RAP 180.80 ECC 1.1938
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 54 36	1717.47	-5.23	12.06	358.64	117.87	5 23 14	1117.5	-1.46	5.41
90.00	13 49 14	5117.33	24.89	227.51	2.32	76.04	15 14 32	4517.3	22.73	219.51
100.00	6 9 54	1474.53	-6.14	353.70	358.14	119.31	6 34 29	874.5	-2.19	347.14
100.00	15 16 38	4835.50	25.90	206.49	2.03	74.52	16 37 13	4235.5	23.52	198.50
110.00	7 4 29	1303.58	-8.53	339.27	356.68	123.23	7 26 13	703.6	-4.10	332.98
110.00	16 38 32	4579.22	28.56	186.08	1.08	70.36	17 54 51	3979.2	25.61	178.14

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .4097 TRA -.3212 TC3 1.3189 BAU  .2077   SGT 1260.1 SGR  386.9 SG3  353.1      ST   704.2 SR   370.5 SS   853.6
RDE -.2210 RRA -.0656 RC3  .0461 FAU .07230   RRT -.3332 RRF  .3677 RTF -.8654     CRT -.9463 CRS -.9962 CST  .9648
FDE-1.0981 FRA -.1064 FC3-5.3161 BSP   4029   SGB 1318.1 R23 -.0565 R13  .8677     LSA 1156.4 MSA  155.2 SSA   21.6
BDE  .4655 BRA  .3279 BC3 1.3197 FSP  -1017   SG1 1267.2 SG2  362.7 THA 173.64     EL1  788.5 EL2  107.0 ALF 152.99
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 106.00 ARRIVAL DATE OCT 2 1967

HELIOCENTRIC CONIC DISTANCE 281.309

```
RL  151.99 LAL   -.00 LOL 266.10 VL  26.581 GAL  -2.50 AZL  92.98 HCA 122.39 SMA 127.64 ECC .19555 INC 2.9827 VI  29.312
RP  108.37 LAP  -2.52 LOP  28.52 VP  37.545 GAP  -7.22 AZP  88.40 TAL 190.39 TAP 312.77 RCA 102.68 APO 152.60 V2  34.970
RC   61.464 GL  -24.17 GP   -5.00 ZAL 112.63 ZAP  27.31 ETS   8.87 ZAE 148.49 ETE   5.69 ZAC  85.25 ETC  13.87 CLP -26.88
```

PLANETOCENTRIC CONIC

```
C3  11.390 VHL  3.375 DLA -11.57 RAL 144.65 RAD 6567.4 VEL 11.523 PTH   2.01 VHP  5.051 DPA  -2.19 RAP 180.72 ECC 1.1875
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 47 5	1721.22	-5.35	12.27	356.98	117.85	5 15 46	1121.2	-1.58	5.62
90.00	13 47 2	5099.78	24.60	226.31	.49	75.51	15 12 2	4499.8	22.36	218.35
100.00	6 2 34	1477.66	-6.25	353.87	356.49	119.29	6 27 12	877.7	-2.30	347.31
100.00	15 14 13	4818.58	25.58	205.33	.20	73.99	16 34 32	4218.6	23.14	197.38
110.00	6 57 35	1305.39	-8.60	339.36	355.05	123.21	7 19 20	705.4	-4.16	333.08
110.00	16 35 42	4563.61	28.20	185.01	359.24	69.82	17 51 46	3963.6	25.19	177.13

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .3965 TRA -.2998 TC3 1.3526 BAU  .2060   SGT 1247.6 SGR  384.8 SG3  397.5      ST   691.5 SR   369.9 SS   890.1
RDE -.2170 RRA -.0641 RC3  .0077 FAU .08022   RRT -.3864 RRF  .4303 RTF -.8655     CRT -.9492 CRS -.9971 CST  .9630
FDE-1.1980 FRA -.1764 FC3-6.0971 BSP   3994   SGB 1305.6 R23 -.0725 R13  .8687     LSA 1175.6 MSA  156.9 SSA   21.3
BDE  .4520 BRA  .3065 BC3 1.3527 FSP  -1155   SG1 1257.2 SG2  352.2 THA 172.62     EL1  777.3 EL2  103.6 ALF 152.55
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 108.00 ARRIVAL DATE OCT 4 1967

HELIOCENTRIC CONIC DISTANCE 287.934

```
RL  151.99 LAL   -.00 LOL 266.10 VL  26.653 GAL  -2.58 AZL  92.94 HCA 125.58 SMA 128.11 ECC .19162 INC 2.9362 VI  29.312
RP  108.33 LAP  -2.39 LOP  31.71 VP  37.607 GAP  -6.60 AZP  88.29 TAL 190.99 TAP 316.57 RCA 103.56 APO 152.65 V2  34.983
RC   63.388 GL  -24.22 GP   -5.54 ZAL 113.72 ZAP  30.61 ETS   8.56 ZAE 149.50 ETE   4.20 ZAC  85.47 ETC  13.91 CLP -30.15
```

PLANETOCENTRIC CONIC

```
C3  11.055 VHL  3.325 DLA -11.21 RAL 143.56 RAD 6567.4 VEL 11.508 PTH   2.00 VHP  4.747 DPA  -2.66 RAP 180.43 ECC 1.1819
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 39 49	1726.75	-5.52	12.58	355.49	117.82	5 8 36	1126.8	-1.76	5.92
90.00	13 45 36	5081.89	24.29	225.09	358.84	74.97	15 10 18	4481.9	21.99	217.18
100.00	5 55 31	1482.52	-6.41	354.14	355.01	119.26	6 20 14	882.5	-2.46	347.58
100.00	15 12 35	4801.35	25.26	204.16	358.54	73.45	16 32 36	4201.4	22.75	196.26
110.00	6 50 59	1308.81	-8.72	339.55	353.59	123.18	7 12 48	708.8	-4.29	333.26
110.00	16 33 36	4547.82	27.82	183.94	357.57	69.29	17 49 24	3947.8	24.75	176.12

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .3804 TRA -.2811 TC3 1.3636 BAU  .2016   SGT 1223.0 SGR  386.1 SG3  447.2      ST   672.5 SR   370.3 SS   927.5
RDE -.2140 RRA -.0634 RC3 -.0391 FAU .08908   RRT -.4453 RRF  .5009 RTF -.8629     CRT -.9508 CRS -.9978 CST  .9605
FDE-1.3075 FRA -.2537 FC3-6.9763 BSP   3928   SGB 1282.5 R23 -.0938 R13  .8677     LSA 1193.3 MSA  159.0 SSA   20.8
BDE  .4364 BRA  .2882 BC3 1.3642 FSP  -1312   SG1 1236.1 SG2  342.1 THA 171.33     EL1  761.0 EL2  101.4 ALF 151.82
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 110.00 ARRIVAL DATE OCT 6 1967

DISTANCE 294.539

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 26.715 GAL -2.64 AZL 92.89 HCA 128.78 SMA 128.52 ECC .18818 INC 2.8859 V1 29.312
RP 108.29 LAP -2.25 LOP 34.91 VP 37.664 GAP -5.99 AZP 88.19 TAL 191.54 TAP 320.32 RCA 104.34 APO 152.70 V2 34.996
RC 65.357 GL -24.18 GP -6.17 ZAL 114.72 ZAP 34.14 ETS 8.30 ZAE 150.82 ETE 2.48 ZAC 85.91 ETC 13.94 CLP -33.65

PLANETOCENTRIC CONIC
C3 10.756 VHL 3.280 DLA -10.83 RAL 142.61 RAD 6567.4 VEL 11.495 PTH 2.00 VHP 4.465 DPA -3.10 RAP 179.90 ECC 1.1770

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 32 52	1733.89	-5.75	12.98	354.18	117.77	5 1 46	1133.9	-1.99	6.32
90.00	13 44 58	5063.55	23.96	223.85	357.36	74.43	15 9 21	4463.5	21.59	215.98
100.00	5 48 47	1488.93	-6.62	354.50	353.70	119.22	6 13 36	888.9	-2.68	347.93
100.00	15 11 43	4783.74	24.91	202.96	357.06	72.92	16 31 27	4183.7	22.33	195.11
110.00	6 44 45	1313.68	-8.90	339.81	352.31	123.14	7 6 39	713.7	-4.48	333.51
110.00	16 32 15	4531.76	27.43	182.85	356.08	68.75	17 47 47	3931.8	24.29	175.09

DIFFERENTIAL CORRECTIONS
TOE .3622 TRA -.2642 TC3 1.3551 BAU .1954
RDE -.2121 RRA -.0636 RC3 -.0965 FAU .09913
FDE-1.4289 FRA -.3414 FC3-7.9788 BSP 3857
BDE .4198 BRA .2718 BC3 1.3585 FSP -1496

MID-COURSE EXECUTION ACCURACY
SGT 1188.0 SGR 392.6 SG3 503.7
RRT -.5093 RRF .5788 RTF -.8585
SGB 1251.2 R23 -.1211 R13 .8657
SG1 1206.1 SG2 332.8 THA 169.65

ORBIT DETERMINATION ACCURACY
ST 648.9 SR 372.2 SS 967.4
CRT -.9515 CRS -.9982 CST .9575
LSA 1212.0 MSA 161.1 SSA 20.2
EL1 741.3 EL2 100.2 ALF 150.79

LAUNCH DATE JUN 18 1967 FLIGHT TIME 112.00 ARRIVAL DATE OCT 8 1967

DISTANCE 301.124

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 26.770 GAL -2.70 AZL 92.83 HCA 131.98 SMA 128.88 ECC .18518 INC 2.8307 V1 29.312
RP 108.25 LAP -2.10 LOP 38.11 VP 37.715 GAP -5.41 AZP 88.11 TAL 192.03 TAP 324.01 RCA 105.02 APO 152.75 V2 35.009
RC 67.365 GL -24.07 GP -6.89 ZAL 115.61 ZAP 37.93 ETS 8.08 ZAE 152.46 ETE .42 ZAC 86.62 ETC 13.94 CLP -37.39

PLANETOCENTRIC CONIC
C3 10.487 VHL 3.238 DLA -10.42 RAL 141.81 RAD 6567.4 VEL 11.484 PTH 2.00 VHP 4.204 DPA -3.54 RAP 179.11 ECC 1.1726

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 26 15	1742.49	-6.02	13.47	353.04	117.72	4 55 17	1142.5	-2.26	6.80
90.00	13 45 9	5044.64	23.61	222.58	356.06	73.89	15 9 14	4444.6	21.17	214.75
100.00	5 42 25	1496.76	-6.88	354.93	352.57	119.16	6 7 21	896.8	-2.94	348.36
100.00	15 11 40	4765.60	24.54	201.74	355.75	72.37	16 31 6	4165.6	21.90	193.94
110.00	6 38 54	1319.85	-9.13	340.14	351.20	123.08	7 0 54	719.9	-4.71	333.84
110.00	16 31 40	4515.28	27.02	181.75	354.76	68.21	17 46 55	3915.3	23.82	174.05

DIFFERENTIAL CORRECTIONS
TOE .3381 TRA -.2535 TC3 1.3081 BAU .1848
RDE -.2112 RRA -.0645 RC3 -.1648 FAU .10996
FDE-1.5530 FRA -.4293 FC3-9.0776 BSP 3689
BDE .3986 BRA .2616 BC3 1.3184 FSP -1691

MID-COURSE EXECUTION ACCURACY
SGT 1132.9 SGR 405.6 SG3 564.7
RRT -.5680 RRF .6580 RTF -.8471
SGB 1203.4 R23 -.1615 R13 .8589
SG1 1158.2 SG2 326.5 THA 167.50

ORBIT DETERMINATION ACCURACY
ST 614.1 SR 375.3 SS 1003.7
CRT -.9494 CRS -.9984 CST .9525
LSA 1224.0 MSA 164.1 SSA 19.6
EL1 712.5 EL2 101.6 ALF 149.18

LAUNCH DATE JUN 18 1967 FLIGHT TIME 114.00 ARRIVAL DATE OCT 10 1967

DISTANCE 307.689

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 26.817 GAL -2.74 AZL 92.77 HCA 135.18 SMA 129.20 ECC .18259 INC 2.7697 V1 29.312
RP 108.20 LAP -1.95 LOP 41.31 VP 37.760 GAP -4.84 AZP 88.03 TAL 192.45 TAP 327.63 RCA 105.61 APO 152.79 V2 35.023
RC 69.409 GL -23.86 GP -7.72 ZAL 116.40 ZAP 41.99 ETS 7.87 ZAE 154.40 ETE 357.82 ZAC 87.60 ETC 13.91 CLP -41.40

PLANETOCENTRIC CONIC
C3 10.239 VHL 3.200 DLA -9.96 RAL 141.15 RAD 6567.4 VEL 11.473 PTH 1.99 VHP 3.967 DPA -3.97 RAP 178.04 ECC 1.1685

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 19 57	1752.55	-6.34	14.04	352.08	117.66	4 49 10	1152.6	-2.59	7.37
90.00	13 46 13	5024.94	23.23	221.25	354.92	73.33	15 9 58	4424.9	20.72	213.48
100.00	5 36 23	1506.00	-7.19	355.45	351.61	119.09	6 1 29	906.0	-3.25	348.87
100.00	15 12 28	4746.72	24.15	200.48	354.60	71.82	16 31 35	4146.7	21.44	192.73
110.00	6 33 26	1327.31	-9.41	340.54	350.26	123.01	6 55 34	727.3	-5.00	334.23
110.00	16 31 54	4498.17	26.58	180.61	353.61	67.67	17 46 52	3898.2	23.32	172.97

DIFFERENTIAL CORRECTIONS
TOE .3098 TRA -.2467 TC3 1.2288 BAU .1716
RDE -.2114 RRA -.0663 RC3 -.2475 FAU .12181
FDE-1.6810 FRA -.5214 FC-10.2994 BSP 3475
BDE .3751 BRA .2555 BC3 1.2534 FSP -1906

MID-COURSE EXECUTION ACCURACY
SGT 1061.7 SGR 427.7 SG3 631.4
RRT -.6176 RRF .7352 RTF -.8284
SGB 1144.6 R23 -.2160 R13 .8488
SG1 1097.4 SG2 325.5 THA 164.64

ORBIT DETERMINATION ACCURACY
ST 571.3 SR 380.3 SS 1038.5
CRT -.9446 CRS -.9986 CST .9452
LSA 1233.4 MSA 167.1 SSA 18.9
EL1 678.2 EL2 105.1 ALF 146.94

LAUNCH DATE JUN 18 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 12 1967

DISTANCE 314.233

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 26.857 GAL -2.78 AZL 92.70 HCA 138.39 SMA 129.47 ECC .18037 INC 2.7014 V1 29.312
RP 108.16 LAP -1.79 LOP 44.52 VP 37.801 GAP -4.29 AZP 87.98 TAL 192.80 TAP 331.19 RCA 106.12 APO 152.82 V2 35.036
RC 71.485 GL -23.58 GP -8.68 ZAL 117.08 ZAP 46.33 ETS 7.65 ZAE 156.63 ETE 354.40 ZAC 88.88 ETC 13.84 CLP -45.69

PLANETOCENTRIC CONIC
C3 10.005 VHL 3.163 DLA -9.46 RAL 140.65 RAD 6567.4 VEL 11.463 PTH 1.99 VHP 3.754 DPA -4.40 RAP 176.66 ECC 1.1647

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 13 57	1764.18	-6.71	14.69	351.28	117.58	4 43 22	1164.2	-2.96	8.02
90.00	13 48 12	5004.08	22.81	219.87	353.94	72.75	15 11 36	4404.1	20.24	212.14
100.00	5 30 39	1516.74	-7.54	356.05	350.82	119.01	5 55 56	916.7	-3.62	349.46
100.00	15 14 11	4726.76	23.72	199.15	353.62	71.25	16 32 58	4126.8	20.94	191.46
110.00	6 28 20	1336.13	-9.74	341.01	349.49	122.93	6 50 36	736.1	-5.33	334.69
110.00	16 33 0	4480.13	26.11	179.42	352.62	67.11	17 47 40	3880.1	22.78	171.85

DIFFERENTIAL CORRECTIONS
TOE .2782 TRA -.2432 TC3 1.1129 BAU .1560
RDE -.2131 RRA -.0692 RC3 -.3473 FAU .13448
FDE-1.8113 FRA -.6175 FC-11.6363 BSP 3241
BDE .3504 BRA .2529 BC3 1.1659 FSP -2144

MID-COURSE EXECUTION ACCURACY
SGT 974.2 SGR 462.0 SG3 703.2
RRT -.6497 RRF .8054 RTF -.7983
SGB 1078.2 R23 -.2846 R13 .8358
SG1 1025.3 SG2 333.7 THA 160.76

ORBIT DETERMINATION ACCURACY
ST 521.9 SR 387.9 SS 1072.3
CRT -.9363 CRS -.9987 CST .9346
LSA 1242.4 MSA 170.0 SSA 18.1
EL1 640.7 EL2 111.0 ALF 143.91

LAUNCH DATE JUN 18 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 14 1967

HELIOCENTRIC CONIC DISTANCE 320.756

```
RL  151.99 LAL   -.00 LOL 266.10 VL  26.890 GAL  -2.80 AZL  92.62 HCA 141.60 SMA 129.70 ECC .17849 INC 2.6237 V1  29.312
RP  108.12 LAP  -1.63 LOP  47.72 VP  37.837 GAP  -3.76 AZP  87.94 TAL 193.07 TAP 334.67 RCA 106.55 APO 152.85 V2  35.049
RC  73.590 GL  -23.15 GP   -9.80 ZAL 117.66 ZAP  50.95 ETS   7.40 ZAE 159.08 ETE 349.70 ZAC  90.46 ETC  13.71 CLP -50.26
```

PLANETOCENTRIC CONIC

```
C3   9.780 VHL  3.127 DLA  -8.91 RAL 140.31 RAD 6567.4 VEL 11.453 PTH   1.99 VHP  3.566 DPA  -4.87 RAP 174.98 ECC 1.1610
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 8 12	1777.59	-7.13	15.45	350.65	117.48	4 37 49	1177.6	-3.39	8.77
90.00	13 51 15	4981.61	22.35	218.38	353.13	72.15	15 14 16	4381.6	19.70	210.71
100.00	5 25 12	1529.19	-7.95	356.74	350.20	118.91	5 50 41	929.2	-4.04	350.15
100.00	15 16 56	4705.25	23.24	197.73	352.80	70.65	16 35 21	4105.3	20.38	190.10
110.00	6 23 32	1346.48	-10.12	341.57	348.89	122.83	6 45 59	746.5	-5.72	335.24
110.00	16 35 4	4460.72	25.59	178.15	351.79	66.52	17 49 25	3860.7	22.19	170.65

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .2403 TRA -.2466 TC3  .9457 BAU  .1379   SGT  867.7 SGR  509.3 SG3  776.1      ST   461.5 SR   397.4 SS  1097.2
RDE -.2157 RRA -.0725 RC3 -.4662 FAU .14732   RRT -.6449 RRF  .8632 RTF -.7423      CRT -.9195 CRS -.9989 CST  .9161
FDE-1.9273 FRA -.7001 FC-13.0409 BSP  2927    SGB 1006.1 R23 -.3678 R13  .8178      LSA 1242.8 MSA  173.2 SSA   17.3
BDE  .3229 BRA  .2571 BC3 1.0544 FSP -2380    SG1  939.7 SG2  359.4 THA 155.44      EL1  596.9 EL2  120.8 ALF 139.63
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 16 1967

HELIOCENTRIC CONIC DISTANCE 327.257

```
RL  151.99 LAL   -.00 LOL 266.10 VL  26.918 GAL  -2.81 AZL  92.53 HCA 144.81 SMA 129.89 ECC .17691 INC 2.5342 V1  29.312
RP  108.08 LAP  -1.46 LOP  50.93 VP  37.869 GAP  -3.25 AZP  87.93 TAL 193.27 TAP 338.07 RCA 106.91 APO 152.86 V2  35.062
RC  75.721 GL  -22.62 GP  -11.09 ZAL 118.15 ZAP  55.85 ETS   7.08 ZAE 161.64 ETE 342.95 ZAC  92.34 ETC  13.48 CLP -55.11
```

PLANETOCENTRIC CONIC

```
C3   9.556 VHL  3.091 DLA  -8.28 RAL 140.13 RAD 6567.3 VEL 11.443 PTH   1.98 VHP  3.405 DPA  -5.39 RAP 172.97 ECC 1.1573
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 2 33	1793.28	-7.62	16.34	350.19	117.35	4 32 26	1193.3	-3.90	9.64
90.00	13 55 30	4956.81	21.82	216.75	352.46	71.50	15 18 7	4356.8	19.10	209.14
100.00	5 19 53	1543.80	-8.43	357.56	349.75	118.78	5 45 36	943.8	-4.53	350.95
100.00	15 20 51	4681.52	22.69	196.18	352.13	70.00	16 38 53	4081.5	19.76	188.61
110.00	6 18 59	1358.75	-10.57	342.23	348.46	122.70	6 41 37	758.8	-6.19	335.88
110.00	16 38 15	4439.33	25.00	176.77	351.11	65.89	17 52 14	3839.3	21.53	169.34

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .1984 TRA -.2542 TC3  .7320 BAU  .1217   SGT  752.9 SGR  572.9 SG3  849.4      ST   394.7 SR   409.3 SS  1113.7
RDE -.2196 RRA -.0765 RC3 -.6097 FAU .16018   RRT -.5843 RRF  .9082 RTF -.6420      CRT -.8890 CRS -.9990 CST  .8841
FDE-2.0238 FRA -.7712 FC-14.5116 BSP  2627    SGB  946.0 R23 -.4410 R13  .8057      LSA 1237.9 MSA  176.4 SSA   16.5
BDE  .2959 BRA  .2655 BC3  .9526 FSP -2621    SG1  852.2 SG2  410.7 THA 147.67      EL1  552.7 EL2  133.9 ALF 133.83
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 18 1967

HELIOCENTRIC CONIC DISTANCE 333.737

```
RL  151.99 LAL   -.00 LOL 266.10 VL  26.940 GAL  -2.81 AZL  92.43 HCA 148.02 SMA 130.04 ECC .17561 INC 2.4291 V1  29.312
RP  108.04 LAP  -1.29 LOP  54.14 VP  37.896 GAP  -2.75 AZP  87.94 TAL 193.39 TAP 341.40 RCA 107.20 APO 152.87 V2  35.075
RC  77.874 GL  -21.93 GP  -12.60 ZAL 118.53 ZAP  61.01 ETS   6.67 ZAE 164.06 ETE 332.97 ZAC  94.51 ETC  13.14 CLP -60.22
```

PLANETOCENTRIC CONIC

```
C3   9.329 VHL  3.054 DLA  -7.55 RAL 140.13 RAD 6567.3 VEL 11.433 PTH   1.98 VHP  3.272 DPA  -6.01 RAP 170.64 ECC 1.1535
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 56 50	1812.02	-8.21	17.41	349.90	117.20	4 27 2	1212.0	-4.50	10.69
90.00	14 1 13	4928.64	21.20	214.92	351.94	70.78	15 23 22	4328.6	18.39	207.38
100.00	5 14 33	1561.31	-9.01	358.55	349.47	118.62	5 40 34	961.3	-5.12	351.92
100.00	15 26 11	4654.58	22.06	194.43	351.61	69.30	16 43 46	4054.6	19.04	186.93
110.00	6 14 30	1373.58	-11.12	343.04	348.21	122.53	6 37 24	773.6	-6.75	336.67
110.00	16 42 43	4415.07	24.32	175.22	350.58	65.20	17 56 18	3815.1	20.77	167.87

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .1542 TRA -.2647 TC3  .4688 BAU  .1138   SGT  645.5 SGR  655.7 SG3  920.5      ST   326.0 SR   424.0 SS  1121.2
RDE -.2246 RRA -.0811 RC3 -.7833 FAU .17250   RRT -.4298 RRF  .9410 RTF -.4581      CRT -.8321 CRS -.9991 CST  .8256
FDE-2.0936 FRA -.8287 FC-16.0088 BSP  2433    SGB  920.1 R23 -.4384 R13  .8348      LSA 1229.2 MSA  179.0 SSA   15.7
BDE  .2724 BRA  .2769 BC3  .9128 FSP -2866    SG1  778.0 SG2  491.2 THA 133.95      EL1  513.6 EL2  149.3 ALF 126.14
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 20 1967

HELIOCENTRIC CONIC DISTANCE 340.195

```
RL  151.99 LAL   -.00 LOL 266.10 VL  26.956 GAL  -2.79 AZL  92.30 HCA 151.23 SMA 130.15 ECC .17457 INC 2.3031 V1  29.312
RP  108.00 LAP  -1.11 LOP  57.35 VP  37.920 GAP  -2.26 AZP  87.98 TAL 193.43 TAP 344.66 RCA 107.43 APO 152.87 V2  35.088
RC  80.046 GL  -21.03 GP  -14.37 ZAL 118.83 ZAP  66.38 ETS   6.11 ZAE 165.90 ETE 318.42 ZAC  96.93 ETC  12.64 CLP -65.57
```

PLANETOCENTRIC CONIC

```
C3   9.091 VHL  3.015 DLA  -6.67 RAL 140.32 RAD 6567.3 VEL 11.423 PTH   1.98 VHP  3.169 DPA  -6.80 RAP 168.02 ECC 1.1496
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 50 47	1835.03	-8.92	18.72	349.80	116.99	4 21 23	1235.0	-5.23	11.99
90.00	14 8 47	4895.61	20.45	212.79	351.57	69.98	15 30 22	4295.6	17.54	205.33
100.00	5 8 57	1582.88	-9.71	359.76	349.38	118.41	5 35 20	982.9	-5.84	353.11
100.00	15 33 18	4622.99	21.28	192.40	351.24	68.50	16 50 21	4023.0	18.17	184.99
110.00	6 9 55	1391.98	-11.79	344.04	348.14	122.32	6 33 7	792.0	-7.44	337.64
110.00	16 48 49	4386.65	23.49	173.42	350.19	64.42	18 1 56	3786.6	19.85	166.17

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TOE  .1067 TRA -.2798 TC3  .1437 BAU  .1216   SGT  579.0 SGR  757.2 SG3  981.1      ST   258.7 SR   439.0 SS  1107.3
RDE -.2294 RRA -.0851 RC3 -.9906 FAU .18287   RRT -.1208 RRF  .9632 RTF -.1299      CRT -.7096 CRS -.9993 CST  .7019
FDE-2.1062 FRA -.8470 FC-17.4151 BSP  2413    SGB  953.2 R23 -.1370 R13  .9535      LSA 1205.1 MSA  181.9 SSA   14.9
BDE  .2530 BRA  .2925 BC3 1.0009 FSP -3067    SG1  764.6 SG2  569.2 THA 101.99      EL1  481.7 EL2  166.1 ALF 116.01
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 22 1967

DISTANCE 346.632

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 26.968 GAL -2.77 AZL 92.15 HCA 154.45 SMA 130.23 ECC .17375 INC 2.1485 V1 29.312
RP 107.96 LAP -.93 LOP 60.56 VP 37.940 GAP -1.79 AZP 88.06 TAL 193.39 TAP 347.84 RCA 107.60 APO 152.86 V2 35.101
RC 82.236 GL -19.86 GP -16.46 ZAL 119.06 ZAP 71.90 ETS 5.36 ZAE 166.45 ETE 299.45 ZAC 99.56 ETC 11.94 CLP -71.10

PLANETOCENTRIC CONIC
C3 8.836 VHL 2.973 DLA -5.57 RAL 140.73 RAD 6567.3 VEL 11.412 PTH 1.98 VHP 3.099 DPA -7.82 RAP 165.11 ECC 1.1454

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 44 0	1864.32	-9.82	20.41	349.90	116.69	4 15 5	1264.3	-6.16	13.64
90.00	14 18 48	4855.39	19.49	210.23	351.36	69.04	15 39 44	4255.4	16.47	202.86
100.00	5 2 43	1610.44	-10.60	1.33	349.49	118.12	5 29 33	1010.4	-6.75	354.64
100.00	15 42 47	4584.53	20.30	189.97	351.01	67.58	16 59 11	3984.5	17.09	182.65
110.00	6 4 55	1415.64	-12.65	345.33	348.28	122.03	6 28 31	815.6	-8.32	338.90
110.00	16 57 3	4352.07	22.46	171.27	349.96	63.53	18 9 36	3752.1	18.72	164.13

DIFFERENTIAL CORRECTIONS
TDE .0596 TRA -.2965 TC3 -.2412 BAU .1494
RDE -.2331 RRA -.0880 RC3-1.2411 FAU .19054
FDE-2.0492 FRA -.8253 FC-18.6684 BSP 2713
BDE .2406 BRA .3093 BC3 1.2643 FSP -3222

MID-COURSE EXECUTION ACCURACY
SGT 602.9 SGR 880.6 SG3 1027.2
RRT .2864 RRF .9778 RTF .2867
SGB 1067.2 R23 .1875 R13 .9597
SG1 908.6 SG2 559.9 THA 71.78

ORBIT DETERMINATION ACCURACY
ST 207.1 SR 452.8 SS 1069.0
CRT -.4556 CRS -.9994 CST .4472
LSA 1164.6 MSA 184.6 SSA 14.2
EL1 464.4 EL2 179.8 ALF 103.90

LAUNCH DATE JUN 18 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 24 1967

DISTANCE 353.047

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 26.976 GAL -2.74 AZL 91.95 HCA 157.67 SMA 130.28 ECC .17314 INC 1.9522 V1 29.312
RP 107.92 LAP -.74 LOP 63.78 VP 37.957 GAP -1.33 AZP 88.19 TAL 193.27 TAP 350.94 RCA 107.73 APO 152.84 V2 35.113
RC 84.440 GL -18.29 GP -18.99 ZAL 119.21 ZAP 77.49 ETS 4.34 ZAE 165.14 ETE 280.02 ZAC 102.34 ETC 10.96 CLP -76.75

PLANETOCENTRIC CONIC
C3 8.558 VHL 2.925 DLA -4.14 RAL 141.39 RAD 6567.3 VEL 11.399 PTH 1.97 VHP 3.065 DPA -9.23 RAP 161.95 ECC 1.1408

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 35 47	1903.28	-11.00	22.66	350.25	116.26	4 7 30	1303.3	-7.39	15.84
90.00	14 32 17	4804.27	18.21	207.02	351.31	67.94	15 52 21	4204.3	15.06	199.77
100.00	4 55 11	1647.13	-11.76	3.43	349.86	117.68	5 22 38	1047.1	-7.97	356.69
100.00	15 55 33	4535.65	19.00	186.92	350.96	66.48	17 11 9	3935.6	15.66	179.72
110.00	5 58 59	1447.40	-13.79	347.09	348.68	121.59	6 23 7	847.4	-9.51	340.60
110.00	17 8 15	4308.14	21.10	168.58	349.90	62.46	18 20 3	3708.1	17.25	161.57

DIFFERENTIAL CORRECTIONS
TDE .0176 TRA -.3116 TC3 -.6833 BAU .1937
RDE -.2342 RRA -.0891 RC3-1.5490 FAU .19461
FDE-1.9057 FRA -.7599 FC-19.6869 BSP 3352
BDE .2348 BRA .3241 BC3 1.6930 FSP -3324

MID-COURSE EXECUTION ACCURACY
SGT 731.8 SGR 1030.7 SG3 1054.1
RRT .6014 RRF .9871 RTF .6037
SGB 1264.0 R23 .2381 R13 .9580
SG1 1150.4 SG2 523.8 THA 60.07

ORBIT DETERMINATION ACCURACY
ST 187.2 SR 462.4 SS 999.7
CRT -.0678 CRS -.9994 CST .0602
LSA 1101.5 MSA 186.8 SSA 13.6
EL1 462.6 EL2 186.7 ALF 91.88

LAUNCH DATE JUN 18 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 26 1967

DISTANCE 359.441

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 26.979 GAL -2.69 AZL 91.69 HCA 160.89 SMA 130.31 ECC .17273 INC 1.6936 V1 29.312
RP 107.89 LAP -.55 LOP 67.00 VP 37.971 GAP -.89 AZP 88.40 TAL 193.08 TAP 353.97 RCA 107.80 APO 152.82 V2 35.125
RC 86.655 GL -16.10 GP -22.13 ZAL 119.31 ZAP 83.01 ETS 2.97 ZAE 161.89 ETE 264.91 ZAC 105.18 ETC 9.59 CLP -82.45

PLANETOCENTRIC CONIC
C3 8.250 VHL 2.872 DLA -2.16 RAL 142.37 RAD 6567.3 VEL 11.386 PTH 1.97 VHP 3.075 DPA -11.21 RAP 158.53 ECC 1.1358

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 24 58	1957.83	-12.63	25.84	350.95	115.56	3 57 36	1357.8	-9.08	18.95
90.00	14 50 56	4735.91	16.41	202.81	351.50	66.60	16 9 52	4135.9	13.11	195.70
100.00	4 45 18	1698.68	-13.38	6.40	350.57	116.98	5 13 37	1098.7	-9.65	359.59
100.00	16 13 17	4470.29	17.18	182.92	351.14	65.15	17 27 48	3870.3	13.69	175.87
110.00	5 51 14	1492.28	-15.37	349.60	349.44	120.91	6 16 7	892.3	-11.16	343.03
110.00	17 23 51	4249.45	19.21	165.07	350.05	61.17	18 34 40	3649.5	15.22	158.23

DIFFERENTIAL CORRECTIONS
TDE -.0147 TRA -.3233 TC3-1.1923 BAU .2501
RDE -.2275 RRA -.0852 RC3-1.9289 FAU .19329
FDE-1.6404 FRA -.6293 FC-20.2847 BSP 4244
BDE .2280 BRA .3343 BC3 2.2676 FSP -3321

MID-COURSE EXECUTION ACCURACY
SGT 941.5 SGR 1209.4 SG3 1051.3
RRT .7746 RRF .9928 RTF .7758
SGB 1532.7 R23 .2290 R13 .9661
SG1 1450.0 SG2 496.6 THA 54.04

ORBIT DETERMINATION ACCURACY
ST 196.9 SR 457.9 SS 880.0
CRT .2650 CRS -.9994 CST -.2703
LSA 993.4 MSA 189.4 SSA 13.3
EL1 461.4 EL2 188.4 ALF 82.19

LAUNCH DATE JUN 18 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 28 1967

DISTANCE 365.813

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 26.979 GAL -2.63 AZL 91.33 HCA 164.11 SMA 130.30 ECC .17249 INC 1.3344 V1 29.312
RP 107.85 LAP -.37 LOP 70.21 VP 37.981 GAP -.45 AZP 88.72 TAL 192.82 TAP 356.93 RCA 107.83 APO 152.78 V2 35.137
RC 88.880 GL -12.90 GP -26.17 ZAL 119.37 ZAP 88.33 ETS 1.10 ZAE 156.98 ETE 255.23 ZAC 107.99 ETC 7.65 CLP -88.13

PLANETOCENTRIC CONIC
C3 7.909 VHL 2.812 DLA .73 RAL 143.82 RAD 6567.3 VEL 11.371 PTH 1.96 VHP 3.142 DPA -14.07 RAP 154.81 ECC 1.1302

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 9 19	2039.54	-14.97	30.69	352.22	114.32	3 43 19	1439.5	-11.56	23.67
90.00	15 18 7	4638.55	13.69	196.96	352.05	64.97	16 35 25	4038.6	10.21	190.02
100.00	4 31 0	1776.07	-15.72	10.96	351.86	115.76	5 0 36	1176.1	-12.13	4.01
100.00	16 39 7	4377.25	14.43	177.38	351.68	63.54	17 52 4	3777.3	10.77	170.51
110.00	5 40 1	1560.03	-17.70	353.47	350.77	119.73	6 6 1	960.0	-13.61	346.74
110.00	17 46 35	4166.06	16.40	160.24	350.57	59.58	18 56 1	3566.1	12.24	153.60

DIFFERENTIAL CORRECTIONS
TDE -.0262 TRA -.3253 TC3-1.7650 BAU .3166
RDE -.2068 RRA -.0742 RC3-2.4190 FAU .18592
FDE-1.2436 FRA -.4446 FC-20.3513 BSP 5365
BDE .2084 BRA .3337 BC3 2.9944 FSP -3223

MID-COURSE EXECUTION ACCURACY
SGT 1194.9 SGR 1432.3 SG3 1015.9
RRT .8609 RRF .9962 RTF .8611
SGB 1865.2 R23 .2049 R13 .9749
SG1 1801.5 SG2 483.3 THA 50.98

ORBIT DETERMINATION ACCURACY
ST 208.0 SR 425.7 SS 698.0
CRT .3695 CRS -.9993 CST -.3730
LSA 821.3 MSA 192.2 SSA 13.7
EL1 434.3 EL2 189.5 ALF 77.31

LAUNCH DATE JUN 18 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 30 1967

HELIOCENTRIC CONIC DISTANCE 372.166

RL 151.99 LAL -.00 LOL 266.10 VL 26.975 GAL -2.56 AZL 90.80 HCA 167.34 SMA 130.28 ECC .17242 INC .7960 V1 29.312
RP 107.82 LAP -.17 LOP 73.44 VP 37.989 GAP -.03 AZP 89.22 TAL 192.48 TAP 359.82 RCA 107.82 APO 152.74 V2 35.149
RC 91.113 GL -7.85 GP -31.65 ZAL 119.34 ZAP 93.18 ETS 358.49 ZAE 150.40 ETE 249.86 ZAC 110.62 ETC 4.83 CLP -93.73

PLANETOCENTRIC CONIC

C3 7.556 VHL 2.749 DLA 5.31 RAL 146.02 RAD 6567.2 VEL 11.356 PTH 1.96 VHP 3.298 DPA -18.32 RAP 150.61 ECC 1.1244

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 43 52	2173.91	-18.56	38.92	354.64	111.78	3 20 6	1573.9	-15.44	31.63
90.00	16 1 7	4487.53	9.18	188.16	353.40	63.10	17 15 55	3887.5	5.50	181.42
100.00	4 7 43	1903.47	-19.32	18.70	354.30	113.26	4 39 27	1303.5	-16.01	11.47
100.00	17 19 58	4233.20	9.91	169.07	353.01	61.65	18 30 31	3633.2	6.05	162.42
110.00	5 21 42	1671.93	-21.35	.10	353.28	117.36	5 49 34	1071.9	-17.51	353.07
110.00	18 22 28	4037.51	11.84	153.07	351.86	57.70	19 29 45	3437.5	7.50	146.68

DIFFERENTIAL CORRECTIONS
TDE .0024 TRA -.3092 TC3-2.4010 BAU .3920
RDE -.1512 RRA -.0460 RC3-3.0480 FAU .16945
FDE -.6648 FRA -.1841 FC-19.4147 BSP 6648
BDE .1512 BRA .3126 BC3 3.8801 FSP -2952

MID-COURSE EXECUTION ACCURACY
SGT 1470.1 SGR 1707.8 SG3 930.5
RRT .9052 RRF .9982 RTF .9051
SGB 2253.4 R23 .1795 R13 .9819
SG1 2200.6 SG2 484.9 THA 49.72

ORBIT DETERMINATION ACCURACY
ST 198.2 SR 320.5 SS 406.6
CRT .0949 CRS -.9976 CST -.0998
LSA 517.9 MSA 197.1 SSA 17.4
EL1 321.3 EL2 196.8 ALF 84.62

LAUNCH DATE JUN 18 1967 FLIGHT TIME 136.00 ARRIVAL DATE NOV 1 1967

HELIOCENTRIC CONIC DISTANCE 378.493

RL 151.99 LAL -.00 LOL 266.10 VL 26.968 GAL -2.48 AZL 89.90 HCA 170.56 SMA 130.23 ECC .17249 INC .0865 V1 29.312
RP 107.78 LAP .02 LOP 76.66 VP 37.994 GAP .39 AZP 90.10 TAL 192.07 TAP 2.63 RCA 107.77 APO 152.69 V2 35.160
RC 93.352 GL .98 GP -39.57 ZAL 118.91 ZAP 97.12 ETS 354.73 ZAE 141.59 ETE 247.52 ZAC 112.79 ETC .58 CLP -99.25

PLANETOCENTRIC CONIC

C3 7.330 VHL 2.707 DLA 13.37 RAL 149.74 RAD 6567.2 VEL 11.346 PTH 1.96 VHP 3.633 DPA -24.88 RAP 145.44 ECC 1.1206

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 53 54	2431.81	-24.18	55.73	359.99	105.21	2 34 26	1831.8	-21.86	47.83
90.00	17 20 46	4218.69	.64	173.02	357.10	61.69	18 31 4	3618.7	-3.15	166.39
100.00	3 22 14	2146.94	-25.05	34.50	359.71	106.86	3 58 1	1546.9	-22.50	26.63
100.00	18 35 7	3978.79	1.44	154.94	356.66	60.14	19 41 26	3378.8	-2.55	148.42
110.00	4 46 11	1884.25	-27.34	13.67	358.83	111.36	5 17 35	1284.2	-24.19	5.91
110.00	19 27 39	3814.25	3.49	141.18	355.38	55.97	20 31 13	3214.3	-1.00	134.97

DIFFERENTIAL CORRECTIONS
TDE .1142 TRA -.2581 TC3-3.0484 BAU .4785
RDE -.0150 RRA .0170 RC3-3.8148 FAU .14116
FDE .0920 FRA .1295 FC-16.6712 BSP 8181
BDE .1152 BRA .2587 BC3 4.8831 FSP -2484

MID-COURSE EXECUTION ACCURACY
SGT 1760.2 SGR 2066.2 SG3 780.5
RRT .9297 RRF .9992 RTF .9301
SGB 2714.3 R23 .1534 R13 .9874
SG1 2667.5 SG2 502.2 THA 49.91

ORBIT DETERMINATION ACCURACY
ST 298.8 SR 70.5 SS 108.0
CRT -.3068 CRS -.4765 CST -.4498
LSA 303.7 MSA 109.6 SSA 40.1
EL1 299.6 EL2 66.9 ALF 175.64

LAUNCH DATE JUN 18 1967 FLIGHT TIME 138.00 ARRIVAL DATE NOV 3 1967

HELIOCENTRIC CONIC DISTANCE 384.797

RL 151.99 LAL -.00 LOL 266.10 VL 26.958 GAL -2.39 AZL 88.09 HCA 173.78 SMA 130.16 ECC .17271 INC 1.9128 V1 29.312
RP 107.75 LAP .21 LOP 79.88 VP 37.997 GAP .79 AZP 91.90 TAL 191.59 TAP 5.38 RCA 107.68 APO 152.64 V2 35.170
RC 95.596 GL 18.39 GP -51.82 ZAL 116.33 ZAP 99.17 ETS 349.17 ZAE 128.92 ETE 246.99 ZAC 113.73 ETC 353.85 CLP-104.93

PLANETOCENTRIC CONIC

C3 8.135 VHL 2.852 DLA 29.22 RAL 157.58 RAD 6567.3 VEL 11.381 PTH 1.97 VHP 4.457 DPA -35.36 RAP 137.80 ECC 1.1339

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.48	21 4 41	3544.64	-24.51	135.60	13.00	73.57	22 3 45	2944.6	-26.53	127.44
97.52	23 8 39	3143.90	-24.50	106.20	13.00	73.56	24 1 3	2543.9	-26.52	98.04
100.00	0 25 11	2911.15	-27.89	89.90	13.93	78.77	1 13 42	2311.1	-29.15	81.33
100.00	22 34 46	3252.62	-21.21	113.01	11.77	68.43	23 28 58	2652.6	-23.95	105.29
110.00	2 58 3	2432.37	-34.16	54.39	14.74	88.54	3 38 35	1832.4	-33.98	45.15
110.00	22 18 24	3304.16	-15.55	113.96	8.83	59.17	23 13 28	2704.2	-19.52	107.10

DIFFERENTIAL CORRECTIONS
TDE .4518 TRA -.1139 TC3-3.2371 BAU .5715
RDE .3511 RRA .1839 RC3-4.1389 FAU .09540
FDE .9396 FRA .4705 FC-10.1527 BSP 9880
BDE .5722 BRA .2163 BC3 5.2544 FSP -1705

MID-COURSE EXECUTION ACCURACY
SGT 2074.2 SGR 2500.2 SG3 534.6
RRT .9428 RRF .9997 RTF .9448
SGB 3248.6 R23 .1301 R13 .9912
SG1 3203.4 SG2 539.9 THA 50.64

ORBIT DETERMINATION ACCURACY
ST 912.6 SR 720.1 SS 740.6
CRT .9647 CRS -.9999 CST -.9669
LSA 1366.7 MSA 178.7 SSA 3.7
EL1 1152.8 EL2 150.1 ALF 38.04

LAUNCH DATE JUN 18 1967 FLIGHT TIME 140.00 ARRIVAL DATE NOV 5 1967

HELIOCENTRIC CONIC DISTANCE 391.060

RL 151.99 LAL -.00 LOL 266.10 VL 26.945 GAL -2.28 AZL 82.41 HCA 176.99 SMA 130.07 ECC .17305 INC 7.5892 V1 29.312
RP 107.72 LAP .40 LOP 83.11 VP 37.997 GAP 1.18 AZP 97.58 TAL 191.04 TAP 8.02 RCA 107.56 APO 152.58 V2 35.180
RC 97.843 GL 50.89 GP -72.15 ZAL 105.36 ZAP 97.27 ETS 339.52 ZAE 108.79 ETE 244.63 ZAC 111.55 ETC 341.51 CLP-114.38

PLANETOCENTRIC CONIC

C3 21.013 VHL 4.584 DLA 56.36 RAL 183.16 RAD 6567.9 VEL 11.933 PTH 2.12 VHP 7.583 DPA -51.94 RAP 120.87 ECC 1.3458

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
39.00	19 13 34	4359.90	-35.55	211.83	64.78	42.92	20 26 14	3759.9	-41.20	205.02
141.00	4 27 47	2736.53	-35.54	80.65	64.77	42.91	5 13 24	2136.5	-41.19	73.84
39.00	19 13 34	4359.90	-35.55	211.83	64.78	42.92	20 26 14	3759.9	-41.20	205.02
141.00	4 27 47	2736.53	-35.54	80.65	64.77	42.91	5 13 24	2136.5	-41.19	73.84
39.00	19 13 34	4359.90	-35.55	211.83	64.78	42.92	20 26 14	3759.9	-41.20	205.02
141.00	4 27 47	2736.53	-35.54	80.65	64.77	42.91	5 13 24	2136.5	-41.19	73.84

DIFFERENTIAL CORRECTIONS
TDE 1.6558 TRA .4773 TC3-1.3583 BAU .5991
RDE 1.2357 RRA .7765 RC3-1.6442 FAU .03450
FDE 1.1842 FRA .6844 FC3-1.4214 BSP 11076
BDE 2.0660 BRA .9114 BC3 2.1327 FSP -667

MID-COURSE EXECUTION ACCURACY
SGT 2644.6 SGR 2779.6 SG3 216.4
RRT .9468 RRF .9990 RTF .9585
SGB 3836.7 R23 .1158 R13 .9931
SG1 3785.4 SG2 624.7 THA 46.51

ORBIT DETERMINATION ACCURACY
ST 2095.0 SR 1632.0 SS 1016.5
CRT .9850 CRS -.9997 CST -.9890
LSA 2833.7 MSA 236.4 SSA 1.1
EL1 2646.3 EL2 222.9 ALF 37.82

LAUNCH DATE JUN 18 1967 FLIGHT TIME 142.00 ARRIVAL DATE NOV 7 1967

HELIOCENTRIC CONIC DISTANCE 397.785

```
RL  151.99 LAL   -.00 LOL 266.10 VL  26.929 GAL  -2.26 AZL 157.59 HCA 180.64 SMA 129.97 ECC .17387 INC67.5630 VI  29.312
RP  107.69 LAP    .59 LOP  86.34 VP  37.996 GAP   1.69 AZP  22.41 TAL 190.84 TAP  11.48 RCA 107.37 APO 152.56 V2  35.190
RC 100.092 GL  -52.51 GP   61.32 ZAL  92.19 ZAP  91.90 ETS 178.07 ZAE  58.66 ETE 268.06 ZAC  79.88 ETC 170.37 CLP  93.95
```

PLANETOCENTRIC CONIC

```
C3 982.877 VHL 31.351 DLA -44.13 RAL 147.21 RAD 6572.9 VEL 33.229 PTH   3.50 VHP 38.991 OPA  50.75 RAP 326.84 ECC17.1757
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
54.61	5 42 45	2251.58	-.26	56.58	57.46	134.13	6 20 17	1651.6	5.30	51.24
125.39	13 11 46	868.63	-.24	309.81	57.48	134.13	13 26 15	268.6	5.32	304.48
54.61	5 42 45	2251.58	-.26	56.58	57.46	134.13	6 20 17	1651.6	5.30	51.24
125.39	13 11 46	868.63	-.24	309.81	57.48	134.13	13 26 15	268.6	5.32	304.48
54.61	5 42 45	2251.58	-.26	56.58	57.46	134.13	6 20 17	1651.6	5.30	51.24
125.39	13 11 46	868.63	-.24	309.81	57.48	134.13	13 26 15	268.6	5.32	304.48

DIFFERENTIAL CORRECTIONS

```
TDE 4.8752 TRA 2.3206 TC3 -.1063 BAU 3.7376
RD-15.3624 RRA -.5254 RC3  .2638 FAU-.05990
FDE-3.2956 FRA -.0783 FC3  .0528 BSP   7584
BDE16.1175 BRA 2.3793 BC3  .2844 FSP    111
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1260.0 SGR 3261.4 SG3   59.4
RRT -.8964 RRF  .9995 RTF -.8878
SGB 3496.3 R23 -.0724 R13  .9970
SG1 3456.4 SG2  527.1 THA 109.57
```

ORBIT DETERMINATION ACCURACY

```
ST   908.7 SR  2808.3 SS  2029.4
CRT -.9835 CRS-1.0000 CST  .9827
LSA 3578.4 MSA  160.8 SSA    1.8
EL1 2947.5 EL2  156.8 ALF 107.70
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 144.00 ARRIVAL DATE NOV 9 1967

HELIOCENTRIC CONIC DISTANCE 403.700

```
RL  151.99 LAL   -.00 LOL 266.10 VL  26.912 GAL  -2.07 AZL 102.59 HCA 183.56 SMA 129.85 ECC .17424 INC12.5853 VI  29.312
RP  107.66 LAP    .78 LOP  89.57 VP  37.991 GAP   1.98 AZP  77.44 TAL 189.89 TAP  13.45 RCA 107.22 APO 152.47 V2  35.199
RC 102.344 GL  -60.92 GP   66.07 ZAL  99.54 ZAP 102.74 ETS  33.85 ZAE 107.54 ETE 127.65 ZAC  87.96 ETC  34.96 CLP-122.92
```

PLANETOCENTRIC CONIC

```
C3  44.968 VHL  6.706 DLA -46.36 RAL 130.10 RAD 6568.7 VEL 12.897 PTH   2.35 VHP  6.683 OPA  70.29 RAP 212.12 ECC 1.7401
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
51.63	4 23 17	1814.42	22.13	38.13	17.26	131.84	4 53 31	1214.4	27.32	31.85
128.37	12 14 43	5661.36	22.14	263.89	17.28	131.83	13 49 5	5061.4	27.34	257.61
51.63	4 23 17	1814.42	22.13	38.13	17.26	131.84	4 53 31	1214.4	27.32	31.85
128.37	12 14 43	5661.36	22.14	263.89	17.28	131.83	13 49 5	5061.4	27.34	257.61
51.63	4 23 17	1814.42	22.13	38.13	17.26	131.84	4 53 31	1214.4	27.32	31.85
128.37	12 14 43	5661.36	22.14	263.89	17.28	131.83	13 49 5	5061.4	27.34	257.61

DIFFERENTIAL CORRECTIONS

```
TDE-2.7710 TRA-1.4105 TC3 -.6963 BAU  .5154
RDE 2.6208 RRA  .5349 RC3  .5003 FAU .03752
FDE-3.3159 FRA -.8791 FC3 -.7223 BSP  11973
BDE 3.8140 BRA 1.5085 BC3  .8574 FSP   -852
```

MID-COURSE EXECUTION ACCURACY

```
SGT 3086.5 SGR 2429.6 SG3  275.3
RRT -.9447 RRF -.9967 RTF  .9674
SGB 3928.0 R23  .1285 R13 -.9915
SG1 3876.5 SG2  634.2 THA 142.17
```

ORBIT DETERMINATION ACCURACY

```
ST  2425.0 SR  2248.1 SS  1646.7
CRT -.9917 CRS  .9997 CST -.9947
LSA 3687.4 MSA  222.3 SSA    1.1
EL1 3299.9 EL2  213.0 ALF 137.19
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 146.00 ARRIVAL DATE NOV 11 1967

HELIOCENTRIC CONIC DISTANCE 409.911

```
RL  151.99 LAL   -.00 LOL 266.10 VL  26.892 GAL  -1.93 AZL  98.17 HCA 186.77 SMA 129.71 ECC .17496 INC 8.1676 VI  29.312
RP  107.63 LAP    .96 LOP  92.80 VP  37.985 GAP   2.36 AZP  81.89 TAL 189.17 TAP  15.94 RCA 107.02 APO 152.40 V2  35.208
RC 104.596 GL  -52.76 GP   45.85 ZAL 102.59 ZAP 112.43 ETS  26.66 ZAE 124.29 ETE 130.98 ZAC  96.74 ETC  29.98 CLP-123.21
```

PLANETOCENTRIC CONIC

```
C3  23.007 VHL  4.797 DLA -38.95 RAL 134.84 RAD 6567.9 VEL 12.016 PTH   2.14 VHP  4.478 OPA  56.04 RAP 178.65 ECC 1.3786
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.06	5 25 36	1528.70	25.28	15.52	9.07	120.68	5 51 4	928.7	29.15	8.06
117.94	11 50 13	5611.57	25.29	262.05	9.08	120.67	13 23 44	5011.6	29.16	254.59
62.06	5 25 36	1528.70	25.28	15.52	9.07	120.68	5 51 4	928.7	29.15	8.06
117.94	11 50 13	5611.57	25.29	262.05	9.08	120.67	13 23 44	5011.6	29.16	254.59
62.06	5 25 36	1528.70	25.28	15.52	9.07	120.68	5 51 4	928.7	29.15	8.06
117.94	11 50 13	5611.57	25.29	262.05	9.08	120.67	13 23 44	5011.6	29.16	254.59

DIFFERENTIAL CORRECTIONS

```
TDE-1.9195 TRA-1.0190 TC3-1.6493 BAU  .5867
RDE 1.4051 RRA  .2851 RC3  .9580 FAU .08790
FDE-4.4209 FRA-1.0503 FC3-3.3077 BSP  11669
BDE 2.3788 BRA 1.0581 BC3 1.9074 FSP  -1769
```

MID-COURSE EXECUTION ACCURACY

```
SGT 3195.3 SGR 1963.1 SG3  550.2
RRT -.9546 RRF -.9988 RTF  .9658
SGB 3750.2 R23  .1787 R13 -.9835
SG1 3716.3 SG2  502.7 THA 148.98
```

ORBIT DETERMINATION ACCURACY

```
ST  2340.9 SR  1683.8 SS  2052.0
CRT -.9923 CRS  .9999 CST -.9939
LSA 3533.3 MSA  204.2 SSA    1.6
EL1 2878.6 EL2  169.2 ALF 144.34
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 13 1967

HELIOCENTRIC CONIC DISTANCE 416.124

```
RL  151.99 LAL   -.00 LOL 266.10 VL  26.870 GAL  -1.78 AZL  96.59 HCA 190.01 SMA 129.56 ECC .17580 INC 6.5901 VI  29.312
RP  107.61 LAP   1.14 LOP  96.04 VP  37.978 GAP   2.72 AZP  83.51 TAL 188.40 TAP  18.41 RCA 106.79 APO 152.34 V2  35.216
RC 106.849 GL  -47.68 GP   33.53 ZAL 103.52 ZAP 119.46 ETS  23.18 ZAE 132.43 ETE 139.51 ZAC 102.24 ETC  27.65 CLP-126.16
```

PLANETOCENTRIC CONIC

```
C3  17.380 VHL  4.169 DLA -34.64 RAL 138.27 RAD 6567.7 VEL 11.780 PTH   2.08 VHP  3.947 OPA  45.43 RAP 168.67 ECC 1.2860
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.16	6 16 56	1350.77	24.71	.82	6.50	115.09	6 39 27	750.8	27.87	353.04
110.84	11 26 14	5656.07	24.72	265.30	6.51	115.08	13 0 30	5056.1	27.88	257.52
69.16	6 16 56	1350.77	24.71	.82	6.50	115.09	6 39 27	750.8	27.87	353.04
110.84	11 26 14	5656.07	24.72	265.30	6.51	115.08	13 0 30	5056.1	27.88	257.52
69.16	6 16 56	1350.77	24.71	.82	6.50	115.09	6 39 27	750.8	27.87	353.04
110.84	11 26 14	5656.07	24.72	265.30	6.51	115.08	13 0 30	5056.1	27.88	257.52

DIFFERENTIAL CORRECTIONS

```
TDE-1.6741 TRA -.8522 TC3-2.3548 BAU  .5868
RDE  .8533 RRA  .1298 RC3  .9128 FAU .11009
FDE-4.4928 FRA -.8278 FC3-5.4840 BSP  10850
BDE 1.8790 BRA  .8620 BC3 2.5255 FSP  -2062
```

MID-COURSE EXECUTION ACCURACY

```
SGT 3342.9 SGR 1414.7 SG3  674.5
RRT -.9517 RRF -.9979 RTF  .9638
SGB 3629.9 R23  .2184 R13 -.9747
SG1 3607.6 SG2  402.4 THA 157.77
```

ORBIT DETERMINATION ACCURACY

```
ST  2340.8 SR  1174.7 SS  2110.9
CRT -.9918 CRS  .9999 CST -.9932
LSA 3357.8 MSA  200.7 SSA    2.4
EL1 2615.6 EL2  134.4 ALF 153.46
```

```
LAUNCH DATE  JUN 18 1967                          FLIGHT TIME 150.00                          ARRIVAL DATE  NOV 15 1967

 HELIOCENTRIC CONIC                               DISTANCE 422.317
  RL  151.99 LAL   -.00 LOL 266.10 VL  26.847 GAL  -1.62 AZL  95.78 HCA 193.24 SMA 129.40 ECC .17677 INC 5.7775 V1  29.312
  RP  107.59 LAP   1.32 LOP  99.27 VP  37.968 GAP   3.09 AZP  84.37 TAL 187.60 TAP  20.84 RCA 106.53 APO 152.28 V2  35.223
  RC 109.101 GL  -44.36 GP   25.73 ZAL 103.47 ZAP 124.79 ETS  20.65 ZAE 135.99 ETE 147.60 ZAC 105.52 ETC  25.74 CLP-129.29
 PLANETOCENTRIC CONIC
  C3  14.932 VHL  3.864 DLA -32.05 RAL 140.98 RAD 6567.6 VEL 11.675 PTH   2.05 VHP  3.806 DPA  38.40 RAP 164.12 ECC 1.2457
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     74.32     7  0 14   1216.31      23.86     350.03      6.00      112.05    7 20 30     616.3      26.64     342.15
    105.68    11  4 36   5721.46      23.88     269.95      6.01      112.04   12 39 58    5121.5      26.65     262.07
     74.32     7  0 14   1216.31      23.86     350.03      6.00      112.05    7 20 30     616.3      26.64     342.15
    105.68    11  4 36   5721.46      23.88     269.95      6.01      112.04   12 39 58    5121.5      26.65     262.07
    110.00    10  1  2    630.60      16.57     303.33      2.19      120.33   10 11 32      30.6      20.48     296.38
    110.00    13  2 59   5355.16      31.61     244.62      8.83      103.76   14 32 14    4755.2      33.17     235.75
 DIFFERENTIAL CORRECTIONS                         MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TDE-1.5999 TRA -.7732 TC3-2.9759 BAU  .6145     SGT 3570.2 SGR 1073.5 SG3  731.8       ST  2407.6 SR   877.0 SS  2111.0
  RDE  .5908 RRA  .0709 RC3  .7866 FAU .12102     RRT -.9508 RRF -.9953 RTF  .9656       CRT -.9919 CRS  .9999 CST -.9932
  FDE-4.3220 FRA -.6456 FC3-7.0166 BSP  11348     SGB 3728.1 R23  .2253 R13 -.9715       LSA 3314.2 MSA  195.9 SSA    3.4
  BDE 1.7055 BRA  .7764 BC3 3.0781 FSP  -2303     SG1 3714.3 SG2  319.7 THA 163.92       EL1 2560.2 EL2  104.6 ALF 160.10

LAUNCH DATE  JUN 18 1967                          FLIGHT TIME 152.00                          ARRIVAL DATE  NOV 17 1967

 HELIOCENTRIC CONIC                               DISTANCE 428.494
  RL  151.99 LAL   -.00 LOL 266.10 VL  26.822 GAL  -1.45 AZL  95.28 HCA 196.48 SMA 129.23 ECC .17786 INC 5.2798 V1  29.312
  RP  107.57 LAP   1.50 LOP 102.51 VP  37.956 GAP   3.45 AZP  84.94 TAL 186.75 TAP  23.23 RCA 106.25 APO 152.22 V2  35.230
  RC 111.351 GL  -42.02 GP   20.52 ZAL 102.86 ZAP 129.09 ETS  18.73 ZAE 137.23 ETE 154.17 ZAC 107.45 ETC  24.15 CLP-132.31
 PLANETOCENTRIC CONIC
  C3  13.586 VHL  3.686 DLA -30.44 RAL 143.38 RAD 6567.5 VEL 11.618 PTH   2.04 VHP  3.804 DPA  33.55 RAP 161.73 ECC 1.2236
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     78.34     7 38  5   1106.32      23.22     341.46      6.47      110.26    7 56 32     506.3      25.77     333.54
    101.66    10 45 52   5789.71      23.23     274.82      6.47      110.24   12 22 22    5189.7      25.78     266.90
     78.34     7 38  5   1106.32      23.22     341.46      6.47      110.26    7 56 32     506.3      25.77     333.54
    101.66    10 45 52   5789.71      23.23     274.82      6.47      110.24   12 22 22    5189.7      25.78     266.90
    110.00     9 41 32    704.21      14.00     307.48      1.76      121.51    9 53 16     104.2      18.07     300.73
    110.00    13 41 36   5239.82      33.15     235.98      9.39       98.86   15  8 56    4639.8      34.02     226.85
 DIFFERENTIAL CORRECTIONS                         MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TDE-1.5771 TRA -.7066 TC3-3.4884 BAU  .6437     SGT 3774.4 SGR  826.3 SG3  737.5       ST  2482.4 SR   682.1 SS  2061.5
  RDE  .4385 RRA  .0376 RC3  .6266 FAU .12224     RRT -.9445 RRF -.9894 RTF  .9663       CRT -.9922 CRS  .9999 CST -.9932
  FDE-4.0312 FRA -.4364 FC3-7.7893 BSP  11847     SGB 3863.8 R23  .2196 R13 -.9695       LSA 3292.5 MSA  192.5 SSA    4.4
  BDE 1.6370 BRA  .7076 BC3 3.5442 FSP  -2343     SG1 3854.6 SG2  265.8 THA 168.26       EL1 2573.1 EL2   82.2 ALF 164.73

LAUNCH DATE  JUN 18 1967                          FLIGHT TIME 154.00                          ARRIVAL DATE  NOV 19 1967

 HELIOCENTRIC CONIC                               DISTANCE 434.654
  RL  151.99 LAL   -.00 LOL 266.10 VL  26.795 GAL  -1.27 AZL  94.94 HCA 199.72 SMA 129.06 ECC .17907 INC 4.9418 V1  29.312
  RP  107.55 LAP   1.67 LOP 105.75 VP  37.943 GAP   3.81 AZP  85.35 TAL 185.85 TAP  25.58 RCA 105.95 APO 152.17 V2  35.236
  RC 113.598 GL  -40.27 GP   16.85 ZAL 101.88 ZAP 132.74 ETS  17.23 ZAE 137.35 ETE 159.25 ZAC 108.50 ETC  22.83 CLP-135.16
 PLANETOCENTRIC CONIC
  C3  12.745 VHL  3.570 DLA -29.44 RAL 145.64 RAD 6567.5 VEL 11.582 PTH   2.03 VHP  3.863 DPA  30.03 RAP 160.45 ECC 1.2097
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     81.61     8 12  0   1013.07      22.80     334.36      7.48      109.14    8 28 53     413.1      25.20     326.42
     98.39    10 30  0   5855.32      22.81     279.54      7.48      109.13   12  7 36    5255.3      25.21     271.60
    100.00     9 58 28    668.29      19.67     307.82      6.19      112.97   10  9 36      68.3      22.61     300.26
    100.00    11 26 13   5675.34      26.01     267.29      8.57      105.28   13  0 49    5075.3      27.85     258.97
    110.00     9 35 42    740.00      12.72     309.46      2.43      122.00    9 48  2     140.0      16.85     302.80
    110.00    14  5 28   5176.39      33.71     231.12     10.24       96.04   15 31 45    4576.4      34.18     221.91
 DIFFERENTIAL CORRECTIONS                         MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TDE-1.5788 TRA -.6407 TC3-3.9163 BAU  .6721     SGT 3953.9 SGR  648.7 SG3  717.4       ST  2559.9 SR   552.5 SS  1995.7
  RDE  .3441 RRA  .0189 RC3  .4739 FAU .11853     RRT -.9306 RRF -.9767 RTF  .9662       CRT -.9927 CRS  .9999 CST -.9931
  FDE-3.7233 FRA -.2318 FC3-8.0518 BSP  12300     SGB 4006.8 R23  .2031 R13 -.9681       LSA 3287.2 MSA  189.3 SSA    5.5
  BDE 1.6159 BRA  .6410 BC3 3.9449 FSP  -2280     SG1 3999.9 SG2  234.7 THA 171.29       EL1 2618.0 EL2   65.1 ALF 167.90

LAUNCH DATE  JUN 18 1967                          FLIGHT TIME 156.00                          ARRIVAL DATE  NOV 21 1967

 HELIOCENTRIC CONIC                               DISTANCE 440.796
  RL  151.99 LAL   -.00 LOL 266.10 VL  26.767 GAL  -1.08 AZL  94.70 HCA 202.97 SMA 128.87 ECC .18039 INC 4.6959 V1  29.312
  RP  107.53 LAP   1.83 LOP 108.99 VP  37.929 GAP   4.16 AZP  85.67 TAL 184.92 TAP  27.89 RCA 105.62 APO 152.12 V2  35.241
  RC 115.842 GL  -38.89 GP   14.16 ZAL 100.64 ZAP 135.94 ETS  16.04 ZAE 136.92 ETE 163.12 ZAC 108.96 ETC  21.70 CLP-137.83
 PLANETOCENTRIC CONIC
  C3  12.180 VHL  3.490 DLA -28.83 RAL 147.86 RAD 6567.5 VEL 11.557 PTH   2.02 VHP  3.955 DPA  27.33 RAP 159.87 ECC 1.2005
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     84.35     8 42 49    932.81      22.55     328.35      8.86      108.45    8 58 21     332.8      24.86     320.40
     95.65    10 16 55    628.25      22.56     306.04      8.86      108.43   10 27 23      28.3      24.87     298.09
    100.00     9 44 18    733.22      17.90     311.83      6.92      114.35    9 56 32     133.2      21.03     304.44
    100.00    11 58  6   5591.12      27.38     261.41     10.33      102.48   13 31 17    4991.1      28.83     252.90
    110.00     9 36 23    758.14      12.06     310.46      3.67      122.23    9 49  1     158.1      16.23     303.83
    110.00    14 22 31   5138.95      33.94     228.22     11.46       94.34   15 48 10    4539.0      34.17     218.98
 DIFFERENTIAL CORRECTIONS                         MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TDE-1.5987 TRA -.5759 TC3-4.2922 BAU  .7012     SGT 4126.6 SGR  524.4 SG3  688.7       ST  2645.9 SR   466.3 SS  1934.8
  RDE  .2840 RRA  .0099 RC3  .3430 FAU .11313     RRT -.9061 RRF -.9531 RTF  .9662       CRT -.9937 CRS  .9999 CST -.9931
  FDE-3.4471 FRA -.0567 FC3-8.0411 BSP  12811     SGB 4159.8 R23  .1774 R13 -.9673       LSA 3305.6 MSA  185.7 SSA    6.6
  BDE 1.6237 BRA  .5760 BC3 4.3059 FSP  -2196     SG1 4153.9 SG2  220.4 THA 173.41       EL1 2686.2 EL2   51.5 ALF 170.06
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 23 1967

DISTANCE 446.920

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 26.738 GAL -.88 AZL 94.51 HCA 206.21 SMA 128.67 ECC .18184 INC 4.5079 V1 29.312
RP 107.52 LAP 1.99 LOP 112.24 VP 37.912 GAP 4.51 AZP 85.95 TAL 183.95 TAP 30.16 RCA 105.28 APO 152.07 V2 35.246
RC 118.080 GL -37.74 GP 12.12 ZAL 99.20 ZAP 138.80 ETS 15.08 ZAE 136.23 ETE 166.10 ZAC 108.98 ETC 20.73 CLP-140.32

PLANETOCENTRIC CONIC
C3 11.789 VHL 3.433 DLA -28.50 RAL 150.10 RAD 6567.4 VEL 11.540 PTH 2.01 VHP 4.067 DPA 25.17 RAP 159.78 ECC 1.1940

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
86.67	9 10 49	864.24	22.45	323.28	10.52	108.03	9 25 13	264.2	24.70	315.32
93.33	10 6 44	683.05	22.46	310.02	10.53	108.02	10 18 7	83.1	24.71	302.06
100.00	9 43 31	758.09	17.19	313.34	8.33	114.84	9 56 9	158.1	20.40	306.01
100.00	12 16 43	5552.48	27.92	258.66	12.10	101.13	13 49 16	4952.5	29.17	250.08
110.00	9 41 1	765.92	11.78	310.88	5.29	122.32	9 53 47	165.9	15.96	304.27
110.00	14 35 42	5117.42	34.04	226.54	13.00	93.35	16 1 0	4517.4	34.13	217.30

DIFFERENTIAL CORRECTIONS
TOE-1.6288 TRA -.5063 TC3-4.6203 BAU .7291
RDE .2440 RRA .0059 RC3 .2318 FAU .10686
FDE-3.1983 FRA .1024 FC3-7.8479 BSP 13305
BDE 1.6470 BRA .5063 BC3 4.6262 FSP -2095

MID-COURSE EXECUTION ACCURACY
SGT 4287.0 SGR 437.4 SG3 655.5
RRT -.8655 RRF -.9128 RTF .9659
SGB 4309.3 R23 .1490 R13 -.9666
SG1 4303.8 SG2 218.3 THA 174.94

ORBIT DETERMINATION ACCURACY
ST 2735.0 SR 407.3 SS 1876.5
CRT -.9950 CRS .9996 CST -.9932
LSA 3336.8 MSA 182.1 SSA 7.7
EL1 2764.9 EL2 40.3 ALF 171.57

LAUNCH DATE JUN 18 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 25 1967

DISTANCE 453.025

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 26.708 GAL -.66 AZL 94.36 HCA 209.46 SMA 128.47 ECC .18341 INC 4.3588 V1 29.312
RP 107.50 LAP 2.14 LOP 115.48 VP 37.895 GAP 4.86 AZP 86.20 TAL 182.94 TAP 32.40 RCA 104.91 APO 152.04 V2 35.250
RC 120.312 GL -36.73 GP 10.53 ZAL 97.58 ZAP 141.41 ETS 14.29 ZAE 135.45 ETE 168.40 ZAC 108.67 ETC 19.88 CLP-142.65

PLANETOCENTRIC CONIC
C3 11.517 VHL 3.394 DLA -28.36 RAL 152.38 RAD 6567.4 VEL 11.528 PTH 2.01 VHP 4.193 DPA 23.36 RAP 160.04 ECC 1.1895

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
88.39	9 34 13	813.01	22.44	319.53	12.42	107.80	9 47 46	213.0	24.67	311.56
91.61	10 1 31	724.54	22.46	313.06	12.43	107.79	10 13 36	124.5	24.68	305.09
100.00	9 48 58	765.18	16.99	313.76	10.16	114.97	10 1 43	165.2	20.21	306.46
100.00	12 29 28	5535.64	28.14	257.46	14.01	100.53	14 1 43	4935.6	29.30	248.85
110.00	9 48 24	766.96	11.74	310.94	7.20	122.34	10 1 11	167.0	15.92	304.33
110.00	14 46 31	5106.63	34.08	225.70	14.83	92.85	16 11 38	4506.6	34.10	216.46

DIFFERENTIAL CORRECTIONS
TOE-1.6678 TRA -.4334 TC3-4.9121 BAU .7566
RDE .2175 RRA .0057 RC3 .1393 FAU .10055
FDE-2.9819 FRA .2373 FC3-7.5584 BSP 13823
BDE 1.6819 BRA .4334 BC3 4.9140 FSP -1998

MID-COURSE EXECUTION ACCURACY
SGT 4442.4 SGR 379.3 SG3 622.3
RRT -.8061 RRF -.8524 RTF .9658
SGB 4458.6 R23 .1215 R13 -.9662
SG1 4453.0 SG2 223.9 THA 176.05

ORBIT DETERMINATION ACCURACY
ST 2828.5 SR 367.2 SS 1825.2
CRT -.9965 CRS .9991 CST -.9933
LSA 3381.6 MSA 177.8 SSA 8.8
EL1 2852.1 EL2 30.6 ALF 172.63

LAUNCH DATE JUN 18 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 27 1967

DISTANCE 459.112

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 26.677 GAL -.43 AZL 94.24 HCA 212.70 SMA 128.27 ECC .18511 INC 4.2368 V1 29.312
RP 107.49 LAP 2.29 LOP 118.73 VP 37.876 GAP 5.21 AZP 86.43 TAL 181.90 TAP 34.60 RCA 104.52 APO 152.01 V2 35.253
RC 122.538 GL -35.83 GP 9.26 ZAL 95.81 ZAP 143.79 ETS 13.62 ZAE 134.65 ETE 170.21 ZAC 108.08 ETC 19.12 CLP-144.84

PLANETOCENTRIC CONIC
C3 11.336 VHL 3.367 DLA -28.37 RAL 154.72 RAD 6567.4 VEL 11.521 PTH 2.01 VHP 4.327 DPA 21.79 RAP 160.58 ECC 1.1866

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
88.27	9 42 35	812.96	22.52	319.55	14.54	107.72	9 56 8	213.0	24.73	311.58
91.73	10 11 52	718.01	22.53	312.61	14.54	107.70	10 23 50	118.0	24.74	304.63
100.00	9 58 29	761.35	17.10	313.53	12.29	114.90	10 11 10	161.3	20.31	306.22
100.00	12 38 39	5532.90	28.17	257.26	16.11	100.43	14 10 52	4932.9	29.32	248.64
110.00	9 57 50	763.40	11.87	310.74	9.35	122.29	10 10 33	163.4	16.05	304.13
110.00	14 55 48	5103.61	34.09	225.47	16.90	92.71	16 20 51	4503.6	34.09	216.22

DIFFERENTIAL CORRECTIONS
TOE-1.7144 TRA -.3540 TC3-5.1647 BAU .7828
RDE .2001 RRA .0076 RC3 .0619 FAU .09422
FDE-2.7961 FRA .3584 FC3-7.1956 BSP 14298
BDE 1.7260 BRA .3541 BC3 5.1651 FSP -1894

MID-COURSE EXECUTION ACCURACY
SGT 4590.8 SGR 343.4 SG3 589.8
RRT -.7285 RRF -.7731 RTF .9655
SGB 4603.6 R23 .0989 R13 -.9658
SG1 4597.6 SG2 234.9 THA 176.87

ORBIT DETERMINATION ACCURACY
ST 2926.5 SR 340.5 SS 1781.6
CRT -.9978 CRS .9980 CST -.9935
LSA 3438.6 MSA 173.6 SSA 10.0
EL1 2946.2 EL2 22.2 ALF 173.38

LAUNCH DATE JUN 18 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 29 1967

DISTANCE 465.179

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 26.645 GAL -.19 AZL 94.13 HCA 215.95 SMA 128.06 ECC .18695 INC 4.1346 V1 29.312
RP 107.49 LAP 2.43 LOP 121.98 VP 37.856 GAP 5.56 AZP 86.65 TAL 180.83 TAP 36.78 RCA 104.12 APO 152.00 V2 35.256
RC 124.755 GL -34.98 GP 8.24 ZAL 93.91 ZAP 146.00 ETS 13.07 ZAE 133.87 ETE 171.66 ZAC 107.28 ETC 18.44 CLP-146.89

PLANETOCENTRIC CONIC
C3 11.230 VHL 3.351 DLA -28.48 RAL 157.14 RAD 6567.4 VEL 11.516 PTH 2.01 VHP 4.470 DPA 20.40 RAP 161.34 ECC 1.1848

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
86.86	9 40 28	849.11	22.64	322.24	16.85	107.74	9 54 37	249.1	24.86	314.26
93.14	10 33 17	677.99	22.65	309.72	16.86	107.73	10 44 35	78.0	24.87	301.74
100.00	10 11 5	749.73	17.43	312.83	14.70	114.68	10 23 35	149.7	20.61	305.48
100.00	12 45 22	5540.64	28.07	257.81	18.38	100.71	14 17 42	4940.6	29.27	249.21
110.00	10 8 53	756.66	12.11	310.38	11.72	122.21	10 21 29	156.7	16.28	303.75
110.00	15 4 3	5106.47	34.08	225.69	19.21	92.85	16 29 10	4506.5	34.10	216.45

DIFFERENTIAL CORRECTIONS
TOE-1.7638 TRA -.2693 TC3-5.3905 BAU .8093
RDE .1887 RRA .0111 RC3 -.0007 FAU .08855
FDE-2.6247 FRA .4623 FC3-6.8265 BSP 14931
BDE 1.7738 BRA .2695 BC3 5.3905 FSP -1838

MID-COURSE EXECUTION ACCURACY
SGT 4735.0 SGR 323.3 SG3 559.1
RRT -.6417 RRF -.6816 RTF .9657
SGB 4746.1 R23 .0785 R13 -.9659
SG1 4739.6 SG2 247.7 THA 177.48

ORBIT DETERMINATION ACCURACY
ST 3021.6 SR 322.7 SS 1737.0
CRT -.9988 CRS .9963 CST -.9937
LSA 3496.1 MSA 168.8 SSA 11.1
EL1 3038.7 EL2 15.4 ALF 173.91

LAUNCH DATE JUN 18 1967 FLIGHT TIME 166.00 ARRIVAL DATE DEC 1 1967

HELIOCENTRIC CONIC DISTANCE 471.228

RL 151.99 LAL -.00 LOL 266.10 VL 26.612 GAL .06 AZL 94.05 HCA 219.20 SMA 127.84 ECC .18892 INC 4.0473 V1 29.312
RP 107.48 LAP 2.56 LOP 125.22 VP 37.834 GAP 5.91 AZP 86.86 TAL 179.73 TAP 38.92 RCA 103.69 APO 151.99 V2 35.258
RC 126.964 GL -34.16 GP 7.39 ZAL 91.89 ZAP 148.05 ETS 12.60 ZAE 133.12 ETE 172.83 ZAC 106.29 ETC 17.82 CLP-148.82

PLANETOCENTRIC CONIC

C3 11.191 VHL 3.345 DLA -28.66 RAL 159.65 RAD 6567.4 VEL 11.514 PTH 2.01 VHP 4.619 DPA 19.13 RAP 162.29 ECC 1.1842

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.36	9 38 3	888.55	22.80	325.19	19.36	107.85	9 52 51	288.6	25.03	317.20
94.64	10 55 42	637.09	22.81	306.78	19.36	107.84	11 6 19	37.1	25.04	298.79
100.00	10 26 21	731.74	17.94	311.74	17.36	114.32	10 38 32	131.7	21.07	304.34
100.00	12 50 5	5557.17	27.86	259.00	20.81	101.30	14 22 42	4957.2	29.13	250.42
110.00	10 21 16	747.74	12.44	309.89	14.30	122.10	10 33 43	147.7	16.59	303.24
110.00	15 11 39	5113.94	34.05	226.27	21.73	93.19	16 36 53	4513.9	34.12	217.03

DIFFERENTIAL CORRECTIONS
TOE-1.7970 TRA -.1618 TC3-5.5515 BAU .8306
RDE .1801 RRA .0142 RC3 -.0546 FAU .08231
FDE-2.4234 FRA .5876 FC3-6.3674 BSP 14934
BDE 1.8060 BRA .1625 BC3 5.5518 FSP -1653

MID-COURSE EXECUTION ACCURACY
SGT 4834.0 SGR 311.9 SG3 523.4
RRT -.5455 RRF -.5785 RTF .9643
SGB 4844.1 R23 .0608 R13 -.9644
SG1 4837.0 SG2 261.2 THA 177.98

ORBIT DETERMINATION ACCURACY
ST 3081.2 SR 308.6 SS 1662.8
CRT -.9992 CRS .9934 CST -.9936
LSA 3510.9 MSA 166.1 SSA 12.1
EL1 3096.6 EL2 12.3 ALF 174.28

LAUNCH DATE JUN 18 1967 FLIGHT TIME 168.00 ARRIVAL DATE DEC 3 1967

HELIOCENTRIC CONIC DISTANCE 477.256

RL 151.99 LAL -.00 LOL 266.10 VL 26.579 GAL .33 AZL 93.97 HCA 222.44 SMA 127.62 ECC .19104 INC 3.9713 V1 29.312
RP 107.48 LAP 2.68 LOP 128.47 VP 37.812 GAP 6.26 AZP 87.07 TAL 178.60 TAP 41.04 RCA 103.24 APO 152.00 V2 35.259
RC 129.165 GL -33.35 GP 6.69 ZAL 89.76 ZAP 149.96 ETS 12.21 ZAE 132.43 ETE 173.78 ZAC 105.15 ETC 17.25 CLP-150.65

PLANETOCENTRIC CONIC

C3 11.214 VHL 3.349 DLA -28.90 RAL 162.24 RAD 6567.4 VEL 11.515 PTH 2.01 VHP 4.773 DPA 17.94 RAP 163.39 ECC 1.1845

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.95	9 36 54	925.99	22.98	328.00	22.04	108.03	9 52 20	326.0	25.23	320.01
96.05	11 17 30	600.50	22.99	304.15	22.05	108.02	11 27 30	.5	25.24	296.15
100.00	10 44 1	708.18	18.59	310.29	20.25	113.84	10 55 50	108.2	21.66	302.84
100.00	12 53 3	5581.58	27.52	260.73	23.40	102.15	14 26 5	4981.6	28.92	252.21
110.00	10 34 42	737.52	12.80	309.33	17.07	121.97	10 46 59	137.5	16.94	302.65
110.00	15 18 52	5125.01	34.01	227.14	24.45	93.70	16 44 17	4525.0	34.14	217.89

DIFFERENTIAL CORRECTIONS
TOE-1.8616 TRA -.0625 TC3-5.6761 BAU .8511
RDE .1782 RRA .0193 RC3 -.0984 FAU .07637
FDE-2.3127 FRA .6672 FC3-5.8958 BSP 15467
BDE 1.8701 BRA .0654 BC3 5.6769 FSP -1590

MID-COURSE EXECUTION ACCURACY
SGT 4961.0 SGR 314.2 SG3 496.0
RRT -.4654 RRF -.4974 RTF .9641
SGB 4971.0 R23 .0535 R13 -.9642
SG1 4963.2 SG2 278.0 THA 178.31

ORBIT DETERMINATION ACCURACY
ST 3187.5 SR 305.1 SS 1640.5
CRT -.9988 CRS .9901 CST -.9939
LSA 3594.2 MSA 161.1 SSA 13.2
EL1 3202.0 EL2 15.0 ALF 174.54

LAUNCH DATE JUN 18 1967 FLIGHT TIME 170.00 ARRIVAL DATE DEC 5 1967

HELIOCENTRIC CONIC DISTANCE 483.264

RL 151.99 LAL -.00 LOL 266.10 VL 26.545 GAL .61 AZL 93.90 HCA 225.69 SMA 127.40 ECC .19332 INC 3.9042 V1 29.312
RP 107.48 LAP 2.79 LOP 131.72 VP 37.788 GAP 6.61 AZP 87.27 TAL 177.44 TAP 43.14 RCA 102.77 APO 152.03 V2 35.259
RC 131.355 GL -32.53 GP 6.09 ZAL 87.55 ZAP 151.76 ETS 11.88 ZAE 131.79 ETE 174.56 ZAC 103.86 ETC 16.73 CLP-152.37

PLANETOCENTRIC CONIC

C3 11.298 VHL 3.361 DLA -29.18 RAL 164.91 RAD 6567.4 VEL 11.519 PTH 2.01 VHP 4.933 DPA 16.81 RAP 164.62 ECC 1.1859

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.66	9 37 12	960.89	23.15	330.64	24.90	108.26	9 53 13	360.9	25.43	322.64
97.34	11 38 31	5856.73	23.16	279.77	24.90	108.25	13 16 8	5256.7	25.44	271.77
100.00	11 4 16	678.63	19.40	308.46	23.37	113.20	11 15 34	78.6	22.37	300.93
100.00	12 54 8	5614.22	27.03	263.03	26.11	103.27	14 27 42	5014.2	28.59	254.58
110.00	10 48 59	726.69	13.19	308.73	20.01	121.82	11 1 6	126.7	17.31	302.03
110.00	15 25 54	5138.92	33.94	228.22	27.35	94.33	16 51 33	4538.9	34.17	218.98

DIFFERENTIAL CORRECTIONS
TOE-1.9165 TRA .0518 TC3-5.7634 BAU .8707
RDE .1780 RRA .0243 RC3 -.1324 FAU .07092
FDE-2.1849 FRA .7515 FC3-5.4344 BSP 15826
BDE 1.9248 BRA .0572 BC3 5.7650 FSP -1504

MID-COURSE EXECUTION ACCURACY
SGT 5068.9 SGR 319.8 SG3 468.2
RRT -.3960 RRF -.4244 RTF .9636
SGB 5079.0 R23 .0453 R13 -.9636
SG1 5070.5 SG2 293.6 THA 178.56

ORBIT DETERMINATION ACCURACY
ST 3269.2 SR 303.8 SS 1599.0
CRT -.9974 CRS .9858 CST -.9941
LSA 3648.5 MSA 157.3 SSA 14.2
EL1 3283.2 EL2 21.6 ALF 174.70

LAUNCH DATE JUN 18 1967 FLIGHT TIME 172.00 ARRIVAL DATE DEC 7 1967

HELIOCENTRIC CONIC DISTANCE 489.250

RL 151.99 LAL -.00 LOL 266.10 VL 26.510 GAL .91 AZL 93.84 HCA 228.94 SMA 127.17 ECC .19576 INC 3.8441 V1 29.312
RP 107.48 LAP 2.90 LOP 134.97 VP 37.763 GAP 6.96 AZP 87.47 TAL 176.27 TAP 45.21 RCA 102.28 APO 152.07 V2 35.259
RC 133.537 GL -31.69 GP 5.58 ZAL 85.25 ZAP 153.46 ETS 11.61 ZAE 131.21 ETE 175.22 ZAC 102.47 ETC 16.25 CLP-154.01

PLANETOCENTRIC CONIC

C3 11.444 VHL 3.383 DLA -29.46 RAL 167.66 RAD 6567.4 VEL 11.525 PTH 2.01 VHP 5.097 DPA 15.73 RAP 165.96 ECC 1.1883

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.50	9 38 57	993.16	23.32	333.08	27.91	108.54	9 55 30	393.2	25.63	325.08
98.50	11 58 43	5829.78	23.33	277.84	27.92	108.53	13 35 52	5229.8	25.64	269.84
100.00	11 27 43	641.00	20.39	306.11	26.74	112.35	11 38 24	41.0	23.24	298.47
100.00	12 52 38	5657.17	26.33	266.03	28.90	104.70	14 26 55	5057.2	28.09	257.67
110.00	11 3 56	715.91	13.58	308.13	23.11	121.68	11 15 52	115.9	17.67	301.41
110.00	15 32 54	5155.03	33.85	229.47	30.42	95.07	16 58 49	4555.0	34.18	220.24

DIFFERENTIAL CORRECTIONS
TOE-1.9739 TRA .1735 TC3-5.8194 BAU .8906
RDE .1803 RRA .0294 RC3 -.1578 FAU .06599
FDE-2.0688 FRA .8262 FC3-4.9926 BSP 16189
BDE 1.9822 BRA .1759 BC3 5.8215 FSP -1426

MID-COURSE EXECUTION ACCURACY
SGT 5176.2 SGR 328.6 SG3 442.8
RRT -.3418 RRF -.3666 RTF .9633
SGB 5186.6 R23 .0385 R13 -.9633
SG1 5177.4 SG2 308.7 THA 178.75

ORBIT DETERMINATION ACCURACY
ST 3346.9 SR 305.9 SS 1558.3
CRT -.9952 CRS .9807 CST -.9943
LSA 3701.4 MSA 153.7 SSA 15.2
EL1 3360.7 EL2 29.8 ALF 174.80

LAUNCH DATE JUN 18 1967 FLIGHT TIME 174.00 ARRIVAL DATE DEC 9 1967

DISTANCE 495.215

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 26.475 GAL 1.22 AZL 93.79 HCA 232.19 SMA 126.95 ECC .19837 INC 3.7897 V1 29.312
RP 107.48 LAP 2.99 LOP 138.22 VP 37.737 GAP 7.32 AZP 87.67 TAL 175.07 TAP 47.26 RCA 101.77 APO 152.13 V2 35.257
RC 135.709 GL -30.83 GP 5.15 ZAL 82.88 ZAP 155.06 ETS 11.39 ZAE 130.68 ETE 175.77 ZAC 100.96 ETC 15.81 CLP-155.57

PLANETOCENTRIC CONIC
C3 11.654 VHL 3.414 DLA -29.76 RAL 170.48 RAD 6567.4 VEL 11.534 PTH 2.01 VHP 5.267 DPA 14.68 RAP 167.39 ECC 1.1918

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.45	9 42 8	1022.82	23.46	335.33	31.08	108.85	9 59 10	422.8	25.81	327.34
99.55	12 18 3	5807.71	23.47	276.26	31.09	108.84	13 54 50	5207.7	25.82	268.26
100.00	11 57 26	5873.58	21.78	280.49	30.43	110.99	13 35 20	5273.6	24.44	272.70
100.00	12 45 25	5720.24	25.16	270.36	31.69	106.69	14 20 46	5120.2	27.21	262.15
110.00	11 19 20	705.80	13.94	307.57	26.37	121.53	11 31 5	105.8	18.01	300.82
110.00	15 40 1	5172.74	33.74	230.84	33.65	95.87	17 6 14	4572.7	34.18	221.62

DIFFERENTIAL CORRECTIONS
TOE-2.0330 TRA .3039 TC3-5.8378 BAU .9100
ROE .1848 RRA .0345 RC3 -.1757 FAU .06149
FOE-1.9647 FRA .8930 FC3-4.5679 BSP 16554
BOE 2.0413 BRA .3058 BC3 5.8404 FSP -1356

MID-COURSE EXECUTION ACCURACY
SGT 5279.6 SGR 339.2 SG3 419.5
RRT -.3020 RRF -.3238 RTF .9633
SGB 5290.5 R23 .0333 R13 -.9633
SG1 5280.6 SG2 323.3 THA 178.88

ORBIT DETERMINATION ACCURACY
ST 3418.6 SR 310.8 SS 1519.6
CRT -.9922 CRS .9751 CST -.9946
LSA 3751.0 MSA 150.3 SSA 16.0
EL1 3432.5 EL2 38.6 ALF 174.84

LAUNCH DATE JUN 18 1967 FLIGHT TIME 176.00 ARRIVAL DATE DEC 11 1967

DISTANCE 501.156

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 26.439 GAL 1.54 AZL 93.74 HCA 235.43 SMA 126.72 ECC .20117 INC 3.7398 V1 29.312
RP 107.49 LAP 3.08 LOP 141.47 VP 37.711 GAP 7.68 AZP 87.88 TAL 173.85 TAP 49.28 RCA 101.23 APO 152.21 V2 35.255
RC 137.871 GL -29.94 GP 4.77 ZAL 80.46 ZAP 156.59 ETS 11.23 ZAE 130.19 ETE 176.23 ZAC 99.37 ETC 15.41 CLP-157.05

PLANETOCENTRIC CONIC
C3 11.934 VHL 3.455 DLA -30.04 RAL 173.37 RAD 6567.5 VEL 11.546 PTH 2.02 VHP 5.443 DPA 13.64 RAP 168.90 ECC 1.1964

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.54	9 46 40	1050.04	23.56	337.39	34.40	109.19	10 4 10	450.0	25.96	329.40
100.46	12 36 31	5790.43	23.57	275.01	34.40	109.18	14 13 2	5190.4	25.97	267.02
79.54	9 46 40	1050.04	23.56	337.39	34.40	109.19	10 4 10	450.0	25.96	329.40
100.46	12 36 31	5790.43	23.57	275.01	34.40	109.18	14 13 2	5190.4	25.97	267.02
110.00	11 34 58	696.95	14.26	307.08	29.76	121.40	11 46 35	97.0	18.31	300.31
110.00	15 47 24	5191.52	33.60	232.28	37.02	96.72	17 13 55	4591.5	34.16	223.09

DIFFERENTIAL CORRECTIONS
TOE-2.0907 TRA .4443 TC3-5.8136 BAU .9280
ROE .1910 RRA .0393 RC3 -.1874 FAU .05719
FOE-1.8645 FRA .9558 FC3-4.1488 BSP 16874
BOE 2.0994 BRA .4461 BC3 5.8166 FSP -1286

MID-COURSE EXECUTION ACCURACY
SGT 5374.3 SGR 350.4 SG3 397.2
RRT -.2730 RRF -.2921 RTF .9632
SGB 5385.7 R23 .0292 R13 -.9632
SG1 5375.1 SG2 337.0 THA 178.98

ORBIT DETERMINATION ACCURACY
ST 3479.1 SR 317.6 SS 1477.5
CRT -.9885 CRS .9689 CST -.9948
LSA 3790.2 MSA 147.9 SSA 16.8
EL1 3493.2 EL2 47.9 ALF 174.84

LAUNCH DATE JUN 18 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 13 1967

DISTANCE 507.073

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 26.403 GAL 1.88 AZL 93.69 HCA 238.68 SMA 126.49 ECC .20416 INC 3.6938 V1 29.312
RP 107.50 LAP 3.16 LOP 144.73 VP 37.683 GAP 8.04 AZP 88.08 TAL 172.61 TAP 51.30 RCA 100.67 APO 152.32 V2 35.253
RC 140.023 GL -29.01 GP 4.44 ZAL 78.00 ZAP 158.04 ETS 11.12 ZAE 129.75 ETE 176.62 ZAC 97.70 ETC 15.03 CLP-158.47

PLANETOCENTRIC CONIC
C3 12.287 VHL 3.505 DLA -30.30 RAL 176.30 RAD 6567.5 VEL 11.562 PTH 2.02 VHP 5.624 DPA 12.62 RAP 170.49 ECC 1.2022

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.75	9 52 27	1075.05	23.61	339.28	37.84	109.55	10 10 22	475.1	26.06	331.30
101.25	12 54 9	5777.75	23.63	274.09	37.84	109.54	14 30 27	5177.7	26.07	266.11
78.75	9 52 27	1075.05	23.61	339.28	37.84	109.55	10 10 22	475.1	26.06	331.30
101.25	12 54 9	5777.75	23.63	274.09	37.84	109.54	14 30 27	5177.7	26.07	266.11
110.00	11 50 37	689.96	14.50	306.69	33.26	121.30	12 2 7	90.0	18.54	299.90
110.00	15 55 9	5210.83	33.43	233.77	40.53	97.58	17 22 0	4610.8	34.12	224.59

DIFFERENTIAL CORRECTIONS
TOE-2.1485 TRA .5946 TC3-5.7498 BAU .9450
ROE .1990 RRA .0437 RC3 -.1934 FAU .05317
FOE-1.7722 FRA 1.0133 FC3-3.7466 BSP 17197
BOE 2.1577 BRA .5962 BC3 5.7530 FSP -1225

MID-COURSE EXECUTION ACCURACY
SGT 5463.3 SGR 361.9 SG3 376.3
RRT -.2540 RRF -.2710 RTF .9632
SGB 5475.3 R23 .0261 R13 -.9632
SG1 5464.1 SG2 350.0 THA 179.03

ORBIT DETERMINATION ACCURACY
ST 3530.1 SR 326.2 SS 1435.5
CRT -.9842 CRS .9624 CST -.9950
LSA 3821.9 MSA 146.1 SSA 17.4
EL1 3544.6 EL2 57.6 ALF 174.80

LAUNCH DATE JUN 18 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 15 1967

DISTANCE 512.964

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 26.367 GAL 2.24 AZL 93.65 HCA 241.93 SMA 126.26 ECC .20736 INC 3.6508 V1 29.312
RP 107.51 LAP 3.22 LOP 147.98 VP 37.654 GAP 8.41 AZP 88.28 TAL 171.36 TAP 53.29 RCA 100.08 APO 152.44 V2 35.249
RC 142.165 GL -28.06 GP 4.15 ZAL 75.51 ZAP 159.43 ETS 11.05 ZAE 129.35 ETE 176.95 ZAC 95.96 ETC 14.69 CLP-159.83

PLANETOCENTRIC CONIC
C3 12.721 VHL 3.567 DLA -30.53 RAL 179.27 RAD 6567.5 VEL 11.580 PTH 2.03 VHP 5.811 DPA 11.61 RAP 172.14 ECC 1.2094

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.09	9 59 28	1097.84	23.62	340.98	41.40	109.93	10 17 46	497.8	26.12	333.02
101.91	13 10 51	5769.77	23.63	273.49	41.40	109.92	14 47 1	5169.8	26.12	265.53
78.09	9 59 28	1097.84	23.62	340.98	41.40	109.93	10 17 46	497.8	26.12	333.02
101.91	13 10 51	5769.77	23.63	273.49	41.40	109.92	14 47 1	5169.8	26.12	265.53
110.00	12 6 6	685.39	14.66	306.43	36.87	121.23	12 17 31	85.4	18.69	299.63
110.00	16 3 23	5230.20	33.25	235.25	44.16	98.44	17 30 34	4630.2	34.06	226.10

DIFFERENTIAL CORRECTIONS
TOE-2.2026 TRA .7580 TC3-5.6388 BAU .9596
ROE .2084 RRA .0475 RC3 -.1947 FAU .04925
FOE-1.6824 FRA 1.0700 FC3-3.3515 BSP 17431
BOE 2.2124 BRA .7595 BC3 5.6422 FSP -1160

MID-COURSE EXECUTION ACCURACY
SGT 5540.5 SGR 373.1 SG3 356.3
RRT -.2421 RRF -.2573 RTF .9630
SGB 5553.0 R23 .0239 R13 -.9630
SG1 5541.2 SG2 362.0 THA 179.06

ORBIT DETERMINATION ACCURACY
ST 3565.6 SR 335.9 SS 1390.2
CRT -.9793 CRS .9554 CST -.9951
LSA 3838.9 MSA 145.7 SSA 17.9
EL1 3580.8 EL2 67.7 ALF 174.73

LAUNCH DATE JUN 18 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 17 1967

HELIOCENTRIC CONIC DISTANCE 518.828

RL 151.99 LAL -.00 LOL 266.10 VL 26.331 GAL 2.62 AZL 93.61 HCA 245.17 SMA 126.03 ECC .21078 INC 3.6103 V1 29.312
RP 107.52 LAP 3.28 LOP 151.23 VP 37.625 GAP 8.79 AZP 88.48 TAL 170.09 TAP 55.27 RCA 99.47 APO 152.60 V2 35.245
RC 144.295 GL -27.07 GP 3.90 ZAL 73.00 ZAP 160.76 ETS 11.05 ZAE 128.98 ETE 177.23 ZAC 94.15 ETC 14.37 CLP-161.14

PLANETOCENTRIC CONIC

C3 13.244 VHL 3.639 DLA -30.72 RAL 182.27 RAD 6567.5 VEL 11.603 PTH 2.03 VHP 6.004 DPA 10.61 RAP 173.84 ECC 1.2180

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.56	10 7 32	1118.80	23.55	342.53	45.05	110.31	10 26 11	518.8	26.11	334.59
102.44	13 26 41	5766.15	23.57	273.20	45.06	110.30	15 2 47	5166.2	26.12	265.25
77.56	10 7 32	1118.80	23.55	342.53	45.05	110.31	10 26 11	518.8	26.11	334.59
102.44	13 26 41	5766.15	23.57	273.20	45.06	110.30	15 2 47	5166.2	26.12	265.25
110.00	12 21 10	683.80	14.72	306.34	40.55	121.20	12 32 33	83.8	18.75	299.54
110.00	16 12 13	5249.14	33.05	236.69	47.90	99.27	17 39 43	4649.1	33.98	227.58

DIFFERENTIAL CORRECTIONS
TOE-2.2581 TRA .9293 TC3-5.5023 BAU .9748
RDE .2194 RRA .0507 RC3 -.1915 FAU .04572
FDE-1.6010 FRA 1.1201 FC3-2.9888 BSP 17713
BDE 2.2687 BRA .9307 BC3 5.5056 FSP -1105

MID-COURSE EXECUTION ACCURACY
SGT 5619.0 SGR 383.9 SG3 337.9
RRT -.2373 RRF -.2511 RTF .9631
SGB 5632.1 R23 .0222 R13 -.9631
SG1 5619.8 SG2 372.9 THA 179.07

ORBIT DETERMINATION ACCURACY
ST 3593.6 SR 346.6 SS 1346.4
CRT -.9742 CRS .9486 CST -.9953
LSA 3850.4 MSA 146.0 SSA 18.3
EL1 3609.4 EL2 77.9 ALF 174.63

LAUNCH DATE JUN 18 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 19 1967

HELIOCENTRIC CONIC DISTANCE 524.662

RL 151.99 LAL -.00 LOL 266.10 VL 26.294 GAL 3.02 AZL 93.57 HCA 248.42 SMA 125.80 ECC .21445 INC 3.5719 V1 29.312
RP 107.53 LAP 3.32 LOP 154.48 VP 37.595 GAP 9.18 AZP 88.68 TAL 168.82 TAP 57.23 RCA 98.82 APO 152.78 V2 35.240
RC 146.414 GL -26.06 GP 3.68 ZAL 70.49 ZAP 162.04 ETS 11.10 ZAE 128.65 ETE 177.47 ZAC 92.30 ETC 14.08 CLP-162.41

PLANETOCENTRIC CONIC

C3 13.864 VHL 3.723 DLA -30.87 RAL 185.27 RAD 6567.5 VEL 11.630 PTH 2.04 VHP 6.205 DPA 9.60 RAP 175.58 ECC 1.2282

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.16	10 16 39	1137.82	23.43	343.90	48.79	110.70	10 35 37	537.8	26.03	335.99
102.84	13 41 31	5767.08	23.44	273.21	48.80	110.68	15 17 38	5167.1	26.04	265.30
77.16	10 16 39	1137.82	23.43	343.90	48.79	110.70	10 35 37	537.8	26.03	335.99
102.84	13 41 31	5767.08	23.44	273.21	48.80	110.68	15 17 38	5167.1	26.04	265.30
110.00	12 35 37	685.65	14.66	306.45	44.28	121.23	12 47 2	85.6	18.68	299.65
110.00	16 21 44	5267.25	32.84	238.07	51.73	100.06	17 49 31	4667.3	33.88	228.98

DIFFERENTIAL CORRECTIONS
TOE-2.3108 TRA 1.1126 TC3-5.3296 BAU .9884
RDE .2319 RRA .0531 RC3 -.1848 FAU .04234
FDE-1.5231 FRA 1.1689 FC3-2.6439 BSP 17972
BDE 2.3224 BRA 1.1139 BC3 5.3328 FSP -1052

MID-COURSE EXECUTION ACCURACY
SGT 5689.8 SGR 394.1 SG3 320.5
RRT -.2374 RRF -.2501 RTF .9631
SGB 5703.5 R23 .0210 R13 -.9631
SG1 5690.6 SG2 382.8 THA 179.05

ORBIT DETERMINATION ACCURACY
ST 3607.8 SR 357.9 SS 1301.2
CRT -.9688 CRS .9415 CST -.9954
LSA 3849.0 MSA 147.7 SSA 18.4
EL1 3624.4 EL2 88.4 ALF 174.51

LAUNCH DATE JUN 18 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 21 1967

HELIOCENTRIC CONIC DISTANCE 530.465

RL 151.99 LAL -.00 LOL 266.10 VL 26.258 GAL 3.43 AZL 93.54 HCA 251.66 SMA 125.57 ECC .21838 INC 3.5353 V1 29.312
RP 107.55 LAP 3.36 LOP 157.73 VP 37.564 GAP 9.57 AZP 88.89 TAL 167.53 TAP 59.19 RCA 98.15 APO 152.99 V2 35.234
RC 148.521 GL -25.03 GP 3.48 ZAL 67.99 ZAP 163.27 ETS 11.21 ZAE 128.34 ETE 177.68 ZAC 90.39 ETC 13.82 CLP-163.63

PLANETOCENTRIC CONIC

C3 14.593 VHL 3.820 DLA -30.97 RAL 188.26 RAD 6567.6 VEL 11.661 PTH 2.05 VHP 6.413 DPA 8.60 RAP 177.37 ECC 1.2402

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.90	10 26 43	1155.07	23.23	345.12	52.60	111.09	10 45 58	555.1	25.88	337.24
103.10	13 55 20	5772.45	23.24	273.53	52.61	111.07	15 31 33	5172.5	25.89	265.65
76.90	10 26 43	1155.07	23.23	345.12	52.60	111.09	10 45 58	555.1	25.88	337.24
103.10	13 55 20	5772.45	23.24	273.53	52.61	111.07	15 31 33	5172.5	25.89	265.65
110.00	12 49 16	691.33	14.45	306.76	48.05	121.32	13 0 48	91.3	18.50	299.98
110.00	16 31 57	5284.19	32.63	239.34	55.64	100.79	18 0 1	4684.2	33.78	230.29

DIFFERENTIAL CORRECTIONS
TOE-2.3618 TRA 1.3067 TC3-5.1284 BAU 1.0011
RDE .2456 RRA .0547 RC3 -.1753 FAU .03917
FDE-1.4498 FRA 1.2140 FC3-2.3238 BSP 18222
BDE 2.3745 BRA 1.3079 BC3 5.1314 FSP -1004

MID-COURSE EXECUTION ACCURACY
SGT 5755.4 SGR 403.5 SG3 304.1
RRT -.2418 RRF -.2535 RTF .9632
SGB 5769.5 R23 .0201 R13 -.9632
SG1 5756.2 SG2 391.5 THA 179.02

ORBIT DETERMINATION ACCURACY
ST 3610.0 SR 369.5 SS 1255.9
CRT -.9631 CRS .9343 CST -.9956
LSA 3837.0 MSA 150.4 SSA 18.4
EL1 3627.5 EL2 99.0 ALF 174.37

LAUNCH DATE JUN 18 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 23 1967

HELIOCENTRIC CONIC DISTANCE 536.235

RL 151.99 LAL -.00 LOL 266.10 VL 26.221 GAL 3.87 AZL 93.50 HCA 254.90 SMA 125.34 ECC .22260 INC 3.5000 V1 29.312
RP 107.57 LAP 3.38 LOP 160.97 VP 37.532 GAP 9.98 AZP 89.09 TAL 166.23 TAP 61.13 RCA 97.44 APO 153.24 V2 35.228
RC 150.615 GL -23.98 GP 3.30 ZAL 65.51 ZAP 164.47 ETS 11.39 ZAE 128.06 ETE 177.86 ZAC 88.44 ETC 13.58 CLP-164.81

PLANETOCENTRIC CONIC

C3 15.443 VHL 3.930 DLA -31.02 RAL 191.23 RAD 6567.6 VEL 11.697 PTH 2.06 VHP 6.630 DPA 7.60 RAP 179.19 ECC 1.2542

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.77	10 37 37	1170.71	22.95	346.18	56.46	111.47	10 57 8	570.7	25.66	338.33
103.23	14 8 7	5782.14	22.96	274.14	56.47	111.45	15 44 30	5182.1	25.67	266.30
76.77	10 37 37	1170.71	22.95	346.18	56.46	111.47	10 57 8	570.7	25.66	338.33
103.23	14 8 7	5782.14	22.96	274.14	56.47	111.45	15 44 30	5182.1	25.67	266.30
110.00	13 2 0	701.12	14.11	307.31	51.83	121.46	13 13 41	101.1	18.17	300.55
110.00	16 42 55	5299.74	32.43	240.51	59.62	101.45	18 11 15	4699.7	33.67	231.50

DIFFERENTIAL CORRECTIONS
TOE-2.4070 TRA 1.5164 TC3-4.8935 BAU 1.0109
RDE .2606 RRA .0552 RC3 -.1638 FAU .03605
FDE-1.3773 FRA 1.2604 FC3-2.0211 BSP 18379
BDE 2.4210 BRA 1.5174 BC3 4.8963 FSP -952

MID-COURSE EXECUTION ACCURACY
SGT 5810.7 SGR 412.0 SG3 288.6
RRT -.2488 RRF -.2594 RTF .9630
SGB 5825.3 R23 .0192 R13 -.9631
SG1 5811.6 SG2 399.0 THA 178.98

ORBIT DETERMINATION ACCURACY
ST 3595.6 SR 381.0 SS 1208.2
CRT -.9570 CRS .9266 CST -.9956
LSA 3809.0 MSA 154.7 SSA 18.2
EL1 3614.0 EL2 109.9 ALF 174.20

LAUNCH DATE JUN 18 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 25 1967

HELIOCENTRIC CONIC DISTANCE 541.966

RL 151.99 LAL -.00 LOL 266.10 VL 26.184 GAL 4.33 AZL 93.47 HCA 258.15 SMA 125.11 ECC .22712 INC 3.4657 V1 29.312
RP 107.59 LAP 3.39 LOP 164.22 VP 37.500 GAP 10.40 AZP 89.29 TAL 164.92 TAP 63.07 RCA 96.70 APO 153.53 V2 35.221
RC 152.696 GL -22.92 GP 3.14 ZAL 63.06 ZAP 165.62 ETS 11.66 ZAE 127.80 ETE 178.01 ZAC 86.45 ETC 13.37 CLP-165.96

PLANETOCENTRIC CONIC

C3 16.428 VHL 4.053 DLA -31.02 RAL 194.16 RAD 6567.7 VEL 11.739 PTH 2.07 VHP 6.857 DPA 6.59 RAP 181.04 ECC 1.2704

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.77	10 49 18	1184.77	22.60	347.08	60.35	111.84	11 9 3	584.8	25.36	339.28
103.23	14 19 49	5796.18	22.61	275.05	60.36	111.83	15 56 25	5196.2	25.37	267.25
76.77	10 49 18	1184.77	22.60	347.08	60.35	111.84	11 9 3	584.8	25.36	339.28
103.23	14 19 49	5796.18	22.61	275.05	60.36	111.83	15 56 25	5196.2	25.37	267.25
110.00	13 13 41	715.15	13.61	308.09	55.59	121.66	13 25 36	115.2	17.70	301.37
110.00	16 54 36	5313.79	32.23	241.56	63.66	102.05	18 23 10	4713.8	33.56	232.58

DIFFERENTIAL CORRECTIONS
TDE-2.4530 TRA 1.7351 TC3-4.6473 BAU 1.0212
RDE .2768 RRA .0548 RC3 -.1505 FAU .03326
FDE-1.3119 FRA 1.3018 FC3-1.7525 BSP 18598
BDE 2.4686 BRA 1.7359 BC3 4.6497 FSP -910

MID-COURSE EXECUTION ACCURACY
SGT 5865.8 SGR 419.7 SG3 274.2
RRT -.2594 RRF -.2691 RTF .9632
SGB 5880.8 R23 .0186 R13 -.9633
SG1 5866.8 SG2 405.3 THA 178.93

ORBIT DETERMINATION ACCURACY
ST 3574.1 SR 392.2 SS 1163.3
CRT -.9509 CRS .9192 CST -.9958
LSA 3775.7 MSA 159.4 SSA 17.9
EL1 3593.5 EL2 120.7 ALF 174.04

LAUNCH DATE JUN 18 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 27 1967

HELIOCENTRIC CONIC DISTANCE 547.657

RL 151.99 LAL -.00 LOL 266.10 VL 26.147 GAL 4.81 AZL 93.43 HCA 261.39 SMA 124.89 ECC .23197 INC 3.4323 V1 29.312
RP 107.62 LAP 3.39 LOP 167.47 VP 37.467 GAP 10.84 AZP 89.49 TAL 163.61 TAP 65.00 RCA 95.92 APO 153.86 V2 35.214
RC 154.762 GL -21.85 GP 3.00 ZAL 60.66 ZAP 166.75 ETS 12.03 ZAE 127.56 ETE 178.13 ZAC 84.43 ETC 13.19 CLP-167.08

PLANETOCENTRIC CONIC

C3 17.567 VHL 4.191 DLA -30.97 RAL 197.04 RAD 6567.7 VEL 11.788 PTH 2.08 VHP 7.094 DPA 5.59 RAP 182.92 ECC 1.2891

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.90	11 1 41	1197.30	22.17	347.84	64.27	112.20	11 21 38	597.3	24.98	340.08
103.10	14 30 22	5814.50	22.18	276.24	64.27	112.19	16 7 17	5214.5	24.99	268.48
76.90	11 1 41	1197.30	22.17	347.84	64.27	112.20	11 21 38	597.3	24.98	340.08
103.10	14 30 22	5814.50	22.18	276.24	64.27	112.19	16 7 17	5214.5	24.99	268.48
110.00	13 24 17	733.42	12.95	309.10	59.34	121.91	13 36 31	133.4	17.08	302.42
110.00	17 6 56	5326.38	32.05	242.50	67.74	102.57	18 35 43	4726.4	33.45	233.54

DIFFERENTIAL CORRECTIONS
TDE-2.4960 TRA 1.9674 TC3-4.3829 BAU 1.0298
RDE .2941 RRA .0531 RC3 -.1364 FAU .03057
FDE-1.2496 FRA 1.3427 FC3-1.5065 BSP 18790
BDE 2.5132 BRA 1.9681 BC3 4.3850 FSP -868

MID-COURSE EXECUTION ACCURACY
SGT 5914.3 SGR 426.5 SG3 260.6
RRT -.2721 RRF -.2809 RTF .9633
SGB 5929.7 R23 .0181 R13 -.9634
SG1 5915.5 SG2 410.3 THA 178.87

ORBIT DETERMINATION ACCURACY
ST 3541.2 SR 402.9 SS 1118.7
CRT -.9446 CRS .9116 CST -.9959
LSA 3731.8 MSA 165.0 SSA 17.5
EL1 3561.6 EL2 131.5 ALF 173.86

LAUNCH DATE JUN 18 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 29 1967

HELIOCENTRIC CONIC DISTANCE 553.304

RL 151.99 LAL -.00 LOL 266.10 VL 26.110 GAL 5.32 AZL 93.40 HCA 264.62 SMA 124.66 ECC .23719 INC 3.3994 V1 29.312
RP 107.64 LAP 3.38 LOP 170.71 VP 37.434 GAP 11.29 AZP 89.68 TAL 162.30 TAP 66.92 RCA 95.09 APO 154.23 V2 35.205
RC 156.813 GL -20.78 GP 2.87 ZAL 58.31 ZAP 167.84 ETS 12.51 ZAE 127.34 ETE 178.24 ZAC 82.39 ETC 13.03 CLP-168.18

PLANETOCENTRIC CONIC

C3 18.877 VHL 4.345 DLA -30.87 RAL 199.85 RAD 6567.8 VEL 11.843 PTH 2.10 VHP 7.342 DPA 4.59 RAP 184.83 ECC 1.3107

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.16	11 14 46	1208.19	21.66	348.43	68.19	112.55	11 34 54	608.2	24.53	340.73
102.84	14 39 42	5837.24	21.68	277.73	68.19	112.54	16 16 59	5237.2	24.54	270.02
77.16	11 14 46	1208.19	21.66	348.43	68.19	112.55	11 34 54	608.2	24.53	340.73
102.84	14 39 42	5837.24	21.68	277.73	68.19	112.54	16 16 59	5237.2	24.54	270.02
110.00	13 33 48	755.78	12.14	310.33	63.04	122.20	13 46 24	155.8	16.31	303.70
110.00	17 19 50	5337.64	31.88	243.33	71.85	103.04	18 48 48	4737.6	33.35	234.41

DIFFERENTIAL CORRECTIONS
TDE-2.5367 TRA 2.2130 TC3-4.1078 BAU 1.0371
RDE .3125 RRA .0502 RC3 -.1218 FAU .02804
FDE-1.1910 FRA 1.3822 FC3-1.2860 BSP 18980
BDE 2.5559 BRA 2.2136 BC3 4.1096 FSP -830

MID-COURSE EXECUTION ACCURACY
SGT 5957.6 SGR 432.4 SG3 247.8
RRT -.2868 RRF -.2946 RTF .9636
SGB 5973.3 R23 .0176 R13 -.9636
SG1 5958.9 SG2 414.1 THA 178.80

ORBIT DETERMINATION ACCURACY
ST 3499.0 SR 412.8 SS 1075.4
CRT -.9380 CRS .9038 CST -.9960
LSA 3679.7 MSA 171.3 SSA 17.1
EL1 3520.4 EL2 142.2 ALF 173.68

LAUNCH DATE JUN 18 1967 FLIGHT TIME 196.00 ARRIVAL DATE DEC 31 1967

HELIOCENTRIC CONIC DISTANCE 558.901

RL 151.99 LAL -.00 LOL 266.10 VL 26.073 GAL 5.86 AZL 93.37 HCA 267.86 SMA 124.44 ECC .24280 INC 3.3670 V1 29.312
RP 107.67 LAP 3.36 LOP 173.96 VP 37.400 GAP 11.76 AZP 89.87 TAL 160.99 TAP 68.85 RCA 94.22 APO 154.65 V2 35.197
RC 158.850 GL -19.72 GP 2.75 ZAL 56.02 ZAP 168.91 ETS 13.13 ZAE 127.12 ETE 178.33 ZAC 80.32 ETC 12.90 CLP-169.25

PLANETOCENTRIC CONIC

C3 20.382 VHL 4.515 DLA -30.72 RAL 202.58 RAD 6567.8 VEL 11.906 PTH 2.12 VHP 7.604 DPA 3.59 RAP 186.75 ECC 1.3354

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.55	11 28 29	1217.47	21.09	348.87	72.10	112.88	11 48 47	617.5	24.00	341.22
102.45	14 47 47	5864.35	21.10	279.50	72.11	112.86	16 25 31	5264.4	24.02	271.85
77.55	11 28 29	1217.47	21.09	348.87	72.10	112.88	11 48 47	617.5	24.00	341.22
102.45	14 47 47	5864.35	21.10	279.50	72.11	112.86	16 25 31	5264.4	24.02	271.85
110.00	13 42 16	782.00	11.19	311.76	66.70	122.51	13 55 18	182.0	15.40	305.18
110.00	17 33 11	5347.82	31.72	244.08	75.99	103.46	19 2 18	4747.8	33.25	235.19

DIFFERENTIAL CORRECTIONS
TDE-2.5716 TRA 2.4766 TC3-3.8185 BAU 1.0409
RDE .3317 RRA .0458 RC3 -.1074 FAU .02554
FDE-1.1335 FRA 1.4233 FC3-1.0848 BSP 19068
BDE 2.5929 BRA 2.4771 BC3 3.8200 FSP -789

MID-COURSE EXECUTION ACCURACY
SGT 5992.3 SGR 437.2 SG3 235.7
RRT -.3024 RRF -.3089 RTF .9636
SGB 6008.3 R23 .0169 R13 -.9637
SG1 5993.8 SG2 416.6 THA 178.73

ORBIT DETERMINATION ACCURACY
ST 3444.6 SR 421.4 SS 1032.0
CRT -.9308 CRS .8952 CST -.9960
LSA 3616.1 MSA 178.4 SSA 16.7
EL1 3466.9 EL2 153.0 ALF 173.49

LAUNCH DATE JUN 18 1967 FLIGHT TIME 198.00 ARRIVAL DATE JAN 2 1968

HELIOCENTRIC CONIC DISTANCE 564.442

RL 151.99 LAL -.00 LOL 266.10 VL 26.037 GAL 6.43 AZL 93.33 HCA 271.10 SMA 124.21 ECC .24886 INC 3.3346 VI 29.312
RP 107.70 LAP 3.33 LOP 177.20 VP 37.366 GAP 12.25 AZP 90.06 TAL 159.68 TAP 70.77 RCA 93.30 APO 155.13 V2 35.187
RC 160.871 GL -18.67 GP 2.65 ZAL 53.79 ZAP 169.95 ETS 13.95 ZAE 126.92 ETE 178.41 ZAC 78.23 ETC 12.79 CLP-170.31

PLANETOCENTRIC CONIC

C3 22.109 VHL 4.702 DLA -30.53 RAL 205.22 RAD 6567.9 VEL 11.979 PTH 2.13 VHP 7.880 DPA 2.59 RAP 188.69 ECC 1.3639

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.07	11 42 50	1224.98	20.45	349.14	76.00	113.19	12 3 15	625.0	23.41	341.55
101.93	14 54 31	607.93	20.46	303.68	76.01	113.17	15 4 39	7.9	23.42	296.08
78.07	11 42 50	1224.98	20.45	349.14	76.00	113.19	12 3 15	625.0	23.41	341.55
101.93	14 54 31	607.93	20.46	303.68	76.01	113.17	15 4 39	7.9	23.42	296.08
110.00	13 49 43	811.75	10.10	313.37	70.31	122.83	14 3 15	211.8	14.35	306.85
110.00	17 46 49	5357.19	31.57	244.77	80.14	103.84	19 16 6	4757.2	33.15	235.90

DIFFERENTIAL CORRECTIONS
TOE-2.6083 TRA 2.7519 TC3-3.5327 BAU 1.0445
ROE .3518 RRA .0400 RC3 -.0933 FAU .02326
FOE-1.0820 FRA 1.4619 FC3 -.9107 BSP 19228
BOE 2.6319 BRA 2.7522 BC3 3.5339 FSP -755

MID-COURSE EXECUTION ACCURACY
SGT 6024.5 SGR 441.2 SG3 224.5
RRT -.3200 RRF -.3253 RTF .9640
SGB 6040.7 R23 .0162 R13 -.9640
SG1 6026.2 SG2 417.9 THA 178.65

ORBIT DETERMINATION ACCURACY
ST 3387.6 SR 429.0 SS 992.2
CRT -.9236 CRS .8870 CST -.9961
LSA 3551.0 MSA 185.5 SSA 16.2
EL1 3410.7 EL2 163.3 ALF 173.31

LAUNCH DATE JUN 18 1967 FLIGHT TIME 200.00 ARRIVAL DATE JAN 4 1968

HELIOCENTRIC CONIC DISTANCE 569.921

RL 151.99 LAL -.00 LOL 266.10 VL 26.000 GAL 7.04 AZL 93.30 HCA 274.33 SMA 123.99 ECC .25540 INC 3.3023 VI 29.312
RP 107.73 LAP 3.29 LOP 180.44 VP 37.331 GAP 12.77 AZP 90.25 TAL 158.37 TAP 72.70 RCA 92.44 APO 155.66 V2 35.178
RC 162.878 GL -17.63 GP 2.55 ZAL 51.65 ZAP 170.98 ETS 15.00 ZAE 126.72 ETE 178.47 ZAC 76.12 ETC 12.71 CLP-171.34

PLANETOCENTRIC CONIC

C3 24.090 VHL 4.908 DLA -30.30 RAL 207.77 RAD 6568.0 VEL 12.061 PTH 2.16 VHP 8.172 DPA 1.60 RAP 190.65 ECC 1.3965

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.73	11 57 54	1230.33	19.74	349.22	79.88	113.47	12 18 25	630.3	22.74	341.68
101.27	14 59 47	644.39	19.75	306.08	79.88	113.46	15 10 32	44.4	22.76	298.54
78.73	11 57 54	1230.33	19.74	349.22	79.88	113.47	12 18 25	630.3	22.74	341.68
101.27	14 59 47	644.39	19.75	306.08	79.88	113.46	15 10 32	44.4	22.76	298.54
110.00	13 56 15	844.69	8.87	315.14	73.85	123.15	14 10 19	244.7	13.18	308.68
110.00	18 0 37	5366.06	31.43	245.42	84.29	104.20	19 30 3	4766.1	33.06	236.58

DIFFERENTIAL CORRECTIONS
TOE-2.6434 TRA 3.0435 TC3-3.2470 BAU 1.0460
ROE .3727 RRA .0328 RC3 -.0799 FAU .02108
FOE-1.0339 FRA 1.5007 FC3 -.7577 BSP 19375
BOE 2.6695 BRA 3.0437 BC3 3.2480 FSP -722

MID-COURSE EXECUTION ACCURACY
SGT 6051.1 SGR 444.3 SG3 213.9
RRT -.3386 RRF -.3427 RTF .9644
SGB 6067.4 R23 .0155 R13 -.9644
SG1 6053.0 SG2 417.9 THA 178.57

ORBIT DETERMINATION ACCURACY
ST 3325.0 SR 435.2 SS 954.6
CRT -.9161 CRS .8785 CST -.9962
LSA 3481.2 MSA 192.6 SSA 15.7
EL1 3348.8 EL2 173.2 ALF 173.14

LAUNCH DATE JUN 18 1967 FLIGHT TIME 202.00 ARRIVAL DATE JAN 6 1968

HELIOCENTRIC CONIC DISTANCE 575.330

RL 151.99 LAL -.00 LOL 266.10 VL 25.964 GAL 7.68 AZL 93.27 HCA 277.56 SMA 123.78 ECC .26246 INC 3.2696 VI 29.312
RP 107.76 LAP 3.24 LOP 183.67 VP 37.296 GAP 13.31 AZP 90.43 TAL 157.08 TAP 74.64 RCA 91.29 APO 156.26 V2 35.167
RC 164.869 GL -16.61 GP 2.47 ZAL 49.58 ZAP 171.99 ETS 16.38 ZAE 126.53 ETE 178.53 ZAC 74.01 ETC 12.66 CLP-172.37

PLANETOCENTRIC CONIC

C3 26.361 VHL 5.134 DLA -30.03 RAL 210.22 RAD 6568.1 VEL 12.155 PTH 2.18 VHP 8.483 DPA .61 RAP 192.62 ECC 1.4338

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.55	12 13 46	1233.13	18.97	349.07	83.72	113.73	12 34 19	633.1	22.02	341.59
100.45	15 3 27	686.01	18.98	308.82	83.72	113.72	15 14 53	86.0	22.03	301.34
79.55	12 13 46	1233.13	18.97	349.07	83.72	113.73	12 34 19	633.1	22.02	341.59
100.45	15 3 27	686.01	18.98	308.82	83.72	113.72	15 14 53	86.0	22.03	301.34
110.00	14 1 56	880.45	7.54	317.04	77.33	123.44	14 16 37	280.4	11.88	310.65
110.00	18 14 27	5374.73	31.28	246.05	88.42	104.55	19 44 2	4774.7	32.96	237.23

DIFFERENTIAL CORRECTIONS
TOE-2.6774 TRA 3.3529 TC3-2.9645 BAU 1.0450
ROE .3942 RRA .0239 RC3 -.0674 FAU .01900
FOE -.9892 FRA 1.5401 FC3 -.6240 BSP 19492
BOE 2.7062 BRA 3.3530 BC3 2.9652 FSP -691

MID-COURSE EXECUTION ACCURACY
SGT 6072.3 SGR 446.4 SG3 203.9
RRT -.3581 RRF -.3609 RTF .9649
SGB 6088.7 R23 .0147 R13 -.9650
SG1 6074.4 SG2 416.6 THA 178.49

ORBIT DETERMINATION ACCURACY
ST 3258.3 SR 440.0 SS 919.4
CRT -.9083 CRS .8698 CST -.9963
LSA 3408.1 MSA 199.7 SSA 15.2
EL1 3282.8 EL2 182.7 ALF 172.99

LAUNCH DATE JUN 18 1967 FLIGHT TIME 204.00 ARRIVAL DATE JAN 8 1968

HELIOCENTRIC CONIC DISTANCE 580.659

RL 151.99 LAL -.00 LOL 266.10 VL 25.928 GAL 8.36 AZL 93.24 HCA 280.79 SMA 123.56 ECC .27012 INC 3.2365 VI 29.312
RP 107.79 LAP 3.18 LOP 186.91 VP 37.261 GAP 13.89 AZP 90.61 TAL 155.80 TAP 76.59 RCA 90.18 APO 156.94 V2 35.156
RC 166.846 GL -15.61 GP 2.39 ZAL 47.59 ZAP 172.97 ETS 18.23 ZAE 126.34 ETE 178.57 ZAC 71.89 ETC 12.64 CLP-173.39

PLANETOCENTRIC CONIC

C3 28.968 VHL 5.382 DLA -29.73 RAL 212.56 RAD 6568.2 VEL 12.261 PTH 2.21 VHP 8.814 DPA -.38 RAP 194.60 ECC 1.4767

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.53	12 30 35	1232.71	18.15	348.66	87.52	113.96	12 51 8	632.7	21.23	341.23
99.47	15 5 19	733.38	18.16	311.96	87.53	113.95	15 17 32	133.4	21.25	304.54
100.00	14 43 25	803.37	15.88	316.06	86.42	115.66	14 56 48	203.4	19.20	308.84
100.00	15 35 10	637.95	20.47	305.92	88.57	112.28	15 45 48	38.0	23.31	298.27
110.00	14 6 52	918.68	6.10	319.07	80.76	123.70	14 22 11	318.7	10.49	312.72
110.00	18 28 12	5383.45	31.13	246.69	92.54	104.89	19 57 56	4783.5	32.86	237.89

DIFFERENTIAL CORRECTIONS
TOE-2.7070 TRA 3.6844 TC3-2.6830 BAU 1.0393
ROE .4161 RRA .0131 RC3 -.0563 FAU .01692
FOE -.9460 FRA 1.5821 FC3 -.5057 BSP 19515
BOE 2.7388 BRA 3.6844 BC3 2.6835 FSP -657

MID-COURSE EXECUTION ACCURACY
SGT 6086.6 SGR 447.4 SG3 194.6
RRT -.3778 RRF -.3790 RTF .9655
SGB 6103.0 R23 .0136 R13 -.9655
SG1 6089.0 SG2 414.1 THA 178.40

ORBIT DETERMINATION ACCURACY
ST 3185.6 SR 443.0 SS 885.8
CRT -.8998 CRS .8602 CST -.9964
LSA 3329.5 MSA 206.9 SSA 14.7
EL1 3210.5 EL2 191.8 ALF 172.84

LAUNCH DATE JUN 18 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 10 1968

DISTANCE 585.897

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 25.892 GAL 9.09 AZL 93.20 HCA 284.02 SMA 123.35 ECC .27843 INC 3.2027 V1 29.312
RP 107.83 LAP 3.11 LOP 190.14 VP 37.225 GAP 14.50 AZP 90.78 TAL 154.53 TAP 78.55 RCA 89.00 APO 157.69 V2 35.145
RC 168.808 GL -14.64 GP 2.32 ZAL 45.69 ZAP 173.95 ETS 20.75 ZAE 126.15 ETE 178.60 ZAC 69.76 ETC 12.64 CLP-174.41

PLANETOCENTRIC CONIC
C3 31.963 VHL 5.654 DLA -29.40 RAL 214.79 RAD 6568.3 VEL 12.383 PTH 2.24 VHP 9.167 DPA -1.35 RAP 196.59 ECC 1.5260

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.73	12 48 48	1227.56	17.28	347.87	91.27	114.17	13 9 16	627.6	20.40	340.50
98.27	15 4 54	787.91	17.29	315.60	91.28	114.16	15 18 2	187.9	20.41	308.23
100.00	14 32 49	890.67	13.24	321.19	89.27	117.05	14 47 40	290.7	16.76	314.17
100.00	16 3 34	600.03	21.43	303.51	93.12	111.36	16 13 34	.0	24.14	295.76
110.00	14 11 7	959.05	4.57	321.19	84.11	123.91	14 27 6	359.1	8.99	314.90
110.00	18 41 46	5392.46	30.97	247.34	96.63	105.25	20 11 38	4792.5	32.75	238.57

DIFFERENTIAL CORRECTIONS
TOE-2.7414 TRA 4.0317 TC3-2.4163 BAU 1.0327
RDE .4387 RRA .0008 RC3 -.0462 FAU .01504
FDE -.9087 FRA 1.6231 FC3 -.4072 BSP 19622
BDE 2.7762 BRA 4.0317 BC3 2.4168 FSP -630

MID-COURSE EXECUTION ACCURACY
SGT 6097.5 SGR 447.6 SG3 185.8
RRT -.3987 RRF -.3986 RTF .9663
SGB 6113.9 R23 .0126 R13 -.9664
SG1 6100.2 SG2 410.3 THA 178.32

ORBIT DETERMINATION ACCURACY
ST 3115.3 SR 444.6 SS 856.4
CRT -.8914 CRS .8513 CST -.9965
LSA 3254.3 MSA 213.2 SSA 14.2
EL1 3140.5 EL2 199.8 ALF 172.72

LAUNCH DATE JUN 18 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 12 1968

DISTANCE 591.029

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 25.857 GAL 9.86 AZL 93.17 HCA 287.25 SMA 123.14 ECC .28748 INC 3.1680 V1 29.312
RP 107.86 LAP 3.03 LOP 193.37 VP 37.190 GAP 15.15 AZP 90.94 TAL 153.29 TAP 80.53 RCA 87.74 APO 158.54 V2 35.134
RC 170.755 GL -13.69 GP 2.25 ZAL 43.87 ZAP 174.90 ETS 24.33 ZAE 125.95 ETE 178.63 ZAC 67.64 ETC 12.68 CLP-175.42

PLANETOCENTRIC CONIC
C3 35.410 VHL 5.951 DLA -29.05 RAL 216.91 RAD 6568.4 VEL 12.521 PTH 2.27 VHP 9.547 DPA -2.31 RAP 198.58 ECC 1.5828

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.24	13 9 13	1214.96	16.36	346.51	94.98	114.34	13 29 28	615.0	19.51	339.19
96.76	15 1 23	852.17	16.38	319.91	94.98	114.33	15 15 36	252.2	19.53	312.59
100.00	14 27 3	962.51	10.98	325.33	92.26	117.98	14 43 5	362.5	14.63	318.45
100.00	16 26 15	5867.90	21.92	280.12	97.42	110.85	18 4 2	5267.9	24.56	272.32
110.00	14 14 44	1001.27	2.96	323.41	87.41	124.07	14 31 25	401.3	7.41	317.15
110.00	18 55 3	5401.90	30.80	248.03	100.68	105.62	20 25 5	4801.9	32.63	239.29

DIFFERENTIAL CORRECTIONS
TOE-2.7766 TRA 4.4010 TC3-2.1596 BAU 1.0225
RDE .4616 RRA -.0135 RC3 -.0374 FAU .01321
FDE -.8746 FRA 1.6659 FC3 -.3230 BSP 19716
BDE 2.8147 BRA 4.4010 BC3 2.1599 FSP -604

MID-COURSE EXECUTION ACCURACY
SGT 6103.2 SGR 446.9 SG3 177.6
RRT -.4201 RRF -.4185 RTF .9673
SGB 6119.5 R23 .0114 R13 -.9674
SG1 6106.1 SG2 405.4 THA 178.23

ORBIT DETERMINATION ACCURACY
ST 3044.3 SR 444.4 SS 829.9
CRT -.8828 CRS .8424 CST -.9966
LSA 3179.0 MSA 218.9 SSA 13.7
EL1 3069.6 EL2 207.0 ALF 172.62

LAUNCH DATE JUN 18 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 14 1968

DISTANCE 596.039

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 25.822 GAL 10.70 AZL 93.13 HCA 290.47 SMA 122.93 ECC .29734 INC 3.1320 V1 29.312
RP 107.90 LAP 2.93 LOP 196.60 VP 37.154 GAP 15.85 AZP 91.10 TAL 152.07 TAP 82.54 RCA 86.38 APO 159.48 V2 35.122
RC 172.686 GL -12.76 GP 2.19 ZAL 42.15 ZAP 175.82 ETS 29.64 ZAE 125.74 ETE 178.65 ZAC 65.51 ETC 12.75 CLP-176.43

PLANETOCENTRIC CONIC
C3 39.387 VHL 6.276 DLA -28.67 RAL 218.92 RAD 6568.5 VEL 12.679 PTH 2.30 VHP 9.956 DPA -3.26 RAP 200.58 ECC 1.6482

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.31	13 34 4	1187.49	15.41	344.04	98.62	114.48	13 53 52	587.5	18.59	336.78
94.69	14 52 32	933.43	15.43	325.44	98.63	114.47	15 8 5	333.4	18.60	318.17
100.00	14 22 59	1028.70	8.84	329.08	95.26	118.67	14 40 7	428.7	12.60	322.31
100.00	16 46 18	5855.49	22.22	279.32	101.60	110.53	18 23 54	5255.5	24.81	271.48
110.00	14 17 47	1045.06	1.29	325.69	90.64	124.16	14 35 12	445.1	5.76	319.46
110.00	19 8 0	5411.89	30.61	248.74	104.69	106.01	20 38 12	4811.9	32.50	240.04

DIFFERENTIAL CORRECTIONS
TOE-2.8130 TRA 4.7947 TC3-1.9137 BAU 1.0078
RDE .4847 RRA -.0297 RC3 -.0299 FAU .01143
FDE -.8437 FRA 1.7111 FC3 -.2513 BSP 19782
BDE 2.8544 BRA 4.7948 BC3 1.9139 FSP -578

MID-COURSE EXECUTION ACCURACY
SGT 6103.7 SGR 445.2 SG3 169.8
RRT -.4418 RRF -.4389 RTF .9685
SGB 6119.9 R23 .0102 R13 -.9685
SG1 6106.9 SG2 399.2 THA 178.15

ORBIT DETERMINATION ACCURACY
ST 2973.3 SR 442.6 SS 806.3
CRT -.8740 CRS .8334 CST -.9968
LSA 3104.2 MSA 223.8 SSA 13.3
EL1 2998.5 EL2 213.3 ALF 172.55

LAUNCH DATE JUN 18 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 16 1968

DISTANCE 600.907

HELIOCENTRIC CONIC
RL 151.99 LAL -.00 LOL 266.10 VL 25.787 GAL 11.59 AZL 93.09 HCA 293.69 SMA 122.73 ECC .30811 INC 3.0945 V1 29.312
RP 107.94 LAP 2.83 LOP 199.82 VP 37.118 GAP 16.60 AZP 91.24 TAL 150.89 TAP 84.58 RCA 84.91 APO 160.54 V2 35.110
RC 174.603 GL -11.87 GP 2.14 ZAL 40.52 ZAP 176.68 ETS 38.02 ZAE 125.51 ETE 178.67 ZAC 63.40 ETC 12.85 CLP-177.46

PLANETOCENTRIC CONIC
C3 43.987 VHL 6.632 DLA -28.27 RAL 220.80 RAD 6568.7 VEL 12.859 PTH 2.34 VHP 10.399 DPA -4.20 RAP 202.57 ECC 1.7239

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	14 7 5	1132.90	13.18	338.97	101.61	115.29	14 25 58	532.9	16.48	331.85
90.00	14 34 35	1043.75	15.70	333.64	102.80	113.87	14 51 58	443.7	18.80	326.34
100.00	14 19 44	1091.96	6.75	332.62	98.25	119.19	14 37 56	492.0	10.59	325.94
100.00	17 4 37	5847.96	22.40	278.83	105.67	110.33	18 42 5	5248.0	24.96	270.97
110.00	14 20 18	1090.18	-.44	328.04	93.81	124.18	14 38 28	490.2	4.05	321.83
110.00	19 20 33	5422.51	30.41	249.51	108.64	106.42	20 50 55	4822.5	32.36	240.83

DIFFERENTIAL CORRECTIONS
TOE-2.8480 TRA 5.2183 TC3-1.6767 BAU .9861
RDE .5080 RRA -.0480 RC3 -.0238 FAU .00964
FDE -.8146 FRA 1.7604 FC3 -.1897 BSP 19735
BDE 2.8930 BRA 5.2185 BC3 1.6768 FSP -551

MID-COURSE EXECUTION ACCURACY
SGT 6099.2 SGR 442.5 SG3 162.6
RRT -.4634 RRF -.4591 RTF .9698
SGB 6115.3 R23 .0088 R13 -.9698
SG1 6102.7 SG2 391.9 THA 178.07

ORBIT DETERMINATION ACCURACY
ST 2901.0 SR 439.1 SS 785.1
CRT -.8646 CRS .8239 CST -.9970
LSA 3028.7 MSA 228.2 SSA 12.8
EL1 2925.9 EL2 218.7 ALF 172.50

LAUNCH DATE JUN 18 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 18 1968

HELIOCENTRIC CONIC DISTANCE 605.606

```
RL  151.99 LAL   -.00 LOL 266.10 VL  25.753 GAL  12.56 AZL  93.06 HCA 296.91 SMA 122.53 ECC .31992 INC 3.0552 V1  29.312
RP  107.97 LAP   2.72 LOP 203.04 VP  37.083 GAP  17.41 AZP  91.38 TAL 149.75 TAP  88.66 RCA  83.33 APO 161.73 V2  35.097
RC 176.504 GL  -11.00 GP    2.08 ZAL  38.99 ZAP 177.43 ETS  52.04 ZAE 125.27 ETE 178.68 ZAC  61.31 ETC  12.99 CLP-178.49
```

PLANETOCENTRIC CONIC

```
C3  49.327 VHL  7.023 DLA -27.86 RAL 222.57 RAD 6568.8 VEL 13.065 PTH   2.38 VHP 10.879 DPA  -5.12 RAP 204.56 ECC 1.8118
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 43 12	1262.33	9.30	346.50	103.69	116.87	14 4 15	662.3	12.83	339.60
90.00	15 12 35	971.78	17.63	329.24	107.62	112.52	15 28 47	371.8	20.54	321.77
100.00	14 16 53	1153.43	4.70	336.03	101.20	119.55	14 36 7	553.4	8.60	329.41
100.00	17 21 35	5843.94	22.49	278.57	109.65	110.23	18 58 59	5243.9	25.04	270.70
110.00	14 22 18	1136.41	-2.20	330.46	96.92	124.12	14 41 15	536.4	2.29	324.25
110.00	19 32 39	5433.73	30.19	250.31	112.53	106.85	21 3 13	4833.7	32.20	241.67

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.8914 TRA 5.6661 TC3-1.4576 BAU  .9613   SGT 6090.3 SGR  439.0 SG3  155.7      ST  2833.4 SR   434.0 SS   768.1
RDE  .5315 RRA -.0683 RC3 -.0187 FAU .00797   RRT -.4857 RRF -.4803 RTF  .9714      CRT -.8558 CRS  .8156 CST -.9972
FDE -.7909 FRA 1.8111 FC3 -.1399 BSP  19790   SGB 6106.1 R23  .0075 R13 -.9714      LSA 2958.5 MSA  231.1 SSA   12.4
BDE 2.9399 BRA 5.6665 BC3 1.4578 FSP   -528   SG1 6094.0 SG2  383.5 THA 177.99      EL1 2857.8 EL2  222.6 ALF 172.49
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 20 1968

HELIOCENTRIC CONIC DISTANCE 610.106

```
RL  151.99 LAL   -.00 LOL 266.10 VL  25.719 GAL  13.60 AZL  93.01 HCA 300.13 SMA 122.33 ECC .33291 INC 3.0135 V1  29.312
RP  108.01 LAP   2.61 LOP 206.26 VP  37.047 GAP  18.29 AZP  91.51 TAL 148.66 TAP  88.79 RCA  81.61 APO 163.06 V2  35.084
RC 178.389 GL  -10.16 GP    2.04 ZAL  37.55 ZAP 177.91 ETS  75.26 ZAE 125.00 ETE 178.69 ZAC  59.23 ETC  13.16 CLP-179.55
```

PLANETOCENTRIC CONIC

```
C3  55.549 VHL  7.453 DLA -27.43 RAL 224.23 RAD 6569.0 VEL 13.301 PTH   2.43 VHP 11.404 DPA  -6.01 RAP 206.53 ECC 1.9142
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 32 17	1349.25	6.59	351.45	106.26	117.60	13 54 46	749.3	10.23	344.67
90.00	15 36 40	943.78	18.36	327.51	111.81	111.95	15 52 24	343.8	21.17	319.97
100.00	14 14 14	1213.68	2.67	339.35	104.11	119.78	14 34 28	613.7	6.61	332.78
100.00	17 37 25	5842.63	22.52	278.49	113.52	110.19	19 14 47	5242.6	25.07	270.61
110.00	14 23 50	1183.53	-4.00	332.92	99.97	123.98	14 43 34	583.5	.49	326.71
110.00	19 44 18	5445.54	29.96	251.15	116.33	107.29	21 15 3	4845.5	32.03	242.55

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.9401 TRA 6.1455 TC3-1.2517 BAU  .9296   SGT 6076.2 SGR  434.5 SG3  149.3      ST  2767.9 SR   427.4 SS   754.2
RDE  .5552 RRA -.0907 RC3 -.0147 FAU .00631   RRT -.5083 RRF -.5017 RTF  .9731      CRT -.8471 CRS  .8076 CST -.9974
FDE -.7706 FRA 1.8659 FC3 -.0984 BSP  19846   SGB 6091.7 R23  .0060 R13 -.9731      LSA 2891.1 MSA  232.8 SSA   11.9
BDE 2.9921 BRA 6.1461 BC3 1.2517 FSP   -507   SG1 6080.2 SG2  374.0 THA 177.91      EL1 2791.7 EL2  225.2 ALF 172.50
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 22 1968

HELIOCENTRIC CONIC DISTANCE 614.367

```
RL  151.99 LAL   -.00 LOL 266.10 VL  25.687 GAL  14.74 AZL  92.97 HCA 303.34 SMA 122.14 ECC .34722 INC 2.9691 V1  29.312
RP  108.05 LAP   2.48 LOP 209.47 VP  37.012 GAP  19.25 AZP  91.63 TAL 147.63 TAP  90.97 RCA  79.73 APO 164.56 V2  35.071
RC 180.257 GL   -9.34 GP    2.00 ZAL  36.22 ZAP 177.91 ETS 105.03 ZAE 124.71 ETE 178.69 ZAC  57.19 ETC  13.37 CLP 179.38
```

PLANETOCENTRIC CONIC

```
C3  62.832 VHL  7.927 DLA -26.99 RAL 225.75 RAD 6569.2 VEL 13.572 PTH   2.48 VHP 11.978 DPA  -6.88 RAP 208.50 ECC 2.0341
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 24 26	1425.45	4.16	355.74	108.90	118.03	13 48 12	825.4	7.88	349.03
90.00	15 56 43	927.71	18.76	326.50	115.76	111.61	16 12 11	327.7	21.53	318.92
100.00	14 11 37	1273.01	.66	342.60	106.96	119.89	14 32 50	673.0	4.63	336.07
100.00	17 52 13	5843.42	22.50	278.54	117.29	110.21	19 29 37	5243.4	25.05	270.67
110.00	14 24 53	1231.36	-5.81	335.44	102.95	123.74	14 45 25	631.4	-1.34	329.21
110.00	19 55 26	5457.84	29.70	252.01	120.05	107.75	21 26 24	4857.8	31.84	243.46

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.9933 TRA 6.6675 TC3-1.0588 BAU  .8895   SGT 6062.0 SGR  429.1 SG3  143.2      ST  2704.8 SR   419.3 SS   743.6
RDE  .5788 RRA -.1155 RC3 -.0118 FAU .00465   RRT -.5308 RRF -.5236 RTF  .9751      CRT -.8383 CRS  .8001 CST -.9977
FDE -.7535 FRA 1.9256 FC3 -.0640 BSP  19843   SGB 6077.2 R23  .0049 R13 -.9751      LSA 2826.7 MSA  233.4 SSA   11.4
BDE 3.0487 BRA 6.6685 BC3 1.0589 FSP   -487   SG1 6066.3 SG2  363.5 THA 177.84      EL1 2727.7 EL2  226.7 ALF 172.54
```

LAUNCH DATE JUN 18 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 24 1968

HELIOCENTRIC CONIC DISTANCE 618.341

```
RL  151.99 LAL   -.00 LOL 266.10 VL  25.655 GAL  15.98 AZL  92.92 HCA 306.55 SMA 121.96 ECC .36306 INC 2.9214 V1  29.312
RP  108.09 LAP   2.35 LOP 212.69 VP  36.978 GAP  20.31 AZP  91.74 TAL 146.67 TAP  93.23 RCA  77.68 APO 166.24 V2  35.058
RC 182.108 GL   -8.56 GP    1.96 ZAL  35.00 ZAP 177.39 ETS 129.10 ZAE 124.37 ETE 178.69 ZAC  55.17 ETC  13.62 CLP 178.27
```

PLANETOCENTRIC CONIC

```
C3  71.401 VHL  8.450 DLA -26.53 RAL 227.16 RAD 6569.4 VEL 13.884 PTH   2.53 VHP 12.611 DPA  -7.73 RAP 210.44 ECC 2.1751
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 17 58	1496.20	1.89	359.69	111.53	118.26	13 42 54	896.2	5.65	353.03
90.00	16 14 24	917.96	19.00	325.89	119.54	111.40	16 29 41	318.0	21.74	318.29
100.00	14 8 56	1331.59	-1.33	345.82	109.74	119.87	14 31 8	731.6	2.65	339.29
100.00	18 6 7	5845.84	22.45	278.70	120.94	110.28	19 43 33	5245.8	25.00	270.83
110.00	14 25 28	1279.70	-7.63	337.99	105.85	123.42	14 46 47	679.7	-3.19	331.73
110.00	20 6 4	5470.49	29.44	252.90	123.65	108.21	21 37 15	4870.5	31.64	244.39

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-3.0547 TRA 7.2173 TC3 -.8799 BAU  .8400   SGT 6034.8 SGR  422.8 SG3  137.5      ST  2642.9 SR   409.8 SS   736.4
RDE  .6024 RRA -.1424 RC3 -.0097 FAU .00296   RRT -.5533 RRF -.5451 RTF  .9770      CRT -.8303 CRS  .7931 CST -.9979
FDE -.7402 FRA 1.9911 FC3 -.0359 BSP  19847   SGB 6049.6 R23  .0033 R13 -.9770      LSA 2764.2 MSA  232.6 SSA   11.0
BDE 3.1136 BRA 7.2187 BC3  .8800 FSP   -467   SG1 6039.3 SG2  351.9 THA 177.77      EL1 2664.9 EL2  226.5 ALF 172.61
```

LAUNCH DATE JUN 19 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 28 1967

DISTANCE 161.840

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 22.943 GAL -.43 AZL 93.62 HCA 65.83 SMA 108.80 ECC .39716 INC 3.6173 V1 29.310
RP 108.89 LAP -3.30 LOP 332.84 VP 34.897 GAP -23.40 AZP 91.48 TAL 180.66 TAP 246.49 RCA 65.59 APO 152.01 V2 34.801
RC 42.956 GL -12.71 GP -1.57 ZAL 92.65 ZAP 11.51 ETS 172.41 ZAE 167.49 ETE 54.85 ZAC 101.17 ETC 14.32 CLP 11.40

PLANETOCENTRIC CONIC
C3 43.311 VHL 6.581 DLA -9.41 RAL 169.73 RAD 6568.6 VEL 12.833 PTH 2.34 VHP 14.054 DPA 7.88 RAP 166.22 ECC 1.7128

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 5 34	2110.36	-16.91	34.99	41.99	113.06	6 40 45	1510.4	-13.64	27.83
90.00	15 40 44	5346.53	27.66	243.70	48.40	83.68	17 9 51	4746.5	26.50	235.22
100.00	7 22 18	1862.82	-18.21	16.19	41.39	114.12	7 53 21	1262.8	-14.80	9.06
100.00	17 6 41	5069.31	29.07	223.12	48.21	82.70	18 31 11	4469.3	27.75	214.56
110.00	8 20 3	1681.99	-21.66	.71	39.63	117.12	8 48 5	1082.0	-17.85	353.65
110.00	18 25 26	4822.89	32.85	203.73	47.53	79.96	19 45 49	4222.9	31.12	194.94

DIFFERENTIAL CORRECTIONS
TOE .3957 TRA -.7797 TC3 .0857 BAU .0675
RDE -.4436 RRA -.1880 RC3 .0792 FAU .02011
FOE -.3122 FRA .2959 FC3 -.4020 BSP 2084
BDE .5944 BRA .8021 BC3 .1166 FSP -125

MID-COURSE EXECUTION ACCURACY
SGT 777.7 SGR 433.0 SG3 56.1
RRT -.0213 RRF .0232 RTF -.6591
SGB 890.2 R23 -.0029 R13 .6592
SG1 777.8 SG2 432.9 THA 179.02

ORBIT DETERMINATION ACCURACY
ST 401.6 SR 389.4 SS 344.0
CRT -.7850 CRS -.9157 CST .9655
LSA 630.2 MSA 184.2 SSA 15.5
EL1 528.5 EL2 183.3 ALF 136.13

LAUNCH DATE JUN 19 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 30 1967

DISTANCE 168.435

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 23.334 GAL -.54 AZL 93.58 HCA 69.00 SMA 110.43 ECC .37652 INC 3.5766 V1 29.310
RP 108.87 LAP -3.34 LOP 336.01 VP 35.159 GAP -22.10 AZP 91.28 TAL 180.89 TAP 249.89 RCA 68.85 APO 152.01 V2 34.806
RC 42.841 GL -13.56 GP -1.64 ZAL 93.24 ZAP 9.79 ETS 170.48 ZAE 165.77 ETE 46.29 ZAC 99.82 ETC 14.20 CLP 9.65

PLANETOCENTRIC CONIC
C3 38.515 VHL 6.206 DLA -9.96 RAL 168.83 RAD 6568.5 VEL 12.644 PTH 2.30 VHP 13.324 DPA 7.26 RAP 167.50 ECC 1.6339

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 6 22	2062.85	-15.62	32.10	39.10	113.92	6 40 45	1462.9	-12.26	25.04
90.00	15 32 44	5334.79	27.57	242.85	45.50	83.26	17 1 39	4734.8	26.35	234.39
100.00	7 22 48	1816.29	-16.89	13.37	38.49	115.03	7 53 4	1216.3	-13.38	6.34
100.00	16 59 0	5056.59	28.95	222.19	45.30	82.22	18 23 16	4456.6	27.58	213.66
110.00	8 19 52	1637.58	-20.26	358.03	36.72	118.14	8 47 10	1037.6	-16.34	351.10
110.00	18 18 25	4808.07	32.67	202.61	44.59	79.32	19 38 33	4208.1	30.85	193.87

DIFFERENTIAL CORRECTIONS
TOE .3958 TRA -.7553 TC3 .1208 BAU .0770
RDE -.4205 RRA -.1758 RC3 .0882 FAU .02110
FOE -.3310 FRA .2948 FC3 -.4742 BSP 2219
BDE .5775 BRA .7755 BC3 .1496 FSP -141

MID-COURSE EXECUTION ACCURACY
SGT 810.7 SGR 435.7 SG3 62.1
RRT -.0249 RRF .0277 RTF -.6791
SGB 920.3 R23 -.0039 R13 .6791
SG1 810.8 SG2 435.5 THA 178.92

ORBIT DETERMINATION ACCURACY
ST 422.7 SR 391.4 SS 365.1
CRT -.7940 CRS -.9224 CST .9650
LSA 656.3 MSA 184.6 SSA 15.9
EL1 545.8 EL2 184.2 ALF 137.77

LAUNCH DATE JUN 19 1967 FLIGHT TIME 74.00 ARRIVAL DATE SEP 1 1967

DISTANCE 175.062

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 23.693 GAL -.66 AZL 93.54 HCA 72.16 SMA 112.01 ECC .35723 INC 3.5376 V1 29.310
RP 108.86 LAP -3.37 LOP 339.18 VP 35.405 GAP -20.87 AZP 91.08 TAL 181.19 TAP 253.35 RCA 72.00 APO 152.02 V2 34.812
RC 42.900 GL -14.44 GP -1.73 ZAL 93.96 ZAP 8.08 ETS 167.70 ZAE 163.85 ETE 39.54 ZAC 98.48 ETC 14.09 CLP 7.89

PLANETOCENTRIC CONIC
C3 34.377 VHL 5.863 DLA -10.46 RAL 167.78 RAD 6568.4 VEL 12.480 PTH 2.26 VHP 12.626 DPA 6.64 RAP 168.77 ECC 1.5658

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 6 18	2017.58	-14.35	29.38	36.17	114.67	6 39 56	1417.6	-10.91	22.40
90.00	15 24 30	5322.63	27.47	241.97	42.50	82.83	16 53 12	4722.6	26.19	233.54
100.00	7 22 27	1771.94	-15.60	10.71	35.56	115.83	7 51 58	1171.9	-12.00	3.77
100.00	16 51 2	5043.51	28.83	221.24	42.30	81.74	18 15 6	4443.5	27.39	212.73
110.00	8 18 53	1595.20	-18.88	355.52	33.78	119.04	8 45 28	995.2	-14.86	348.70
110.00	18 11 5	4793.02	32.47	201.48	41.56	78.68	19 30 58	4193.0	30.57	192.78

DIFFERENTIAL CORRECTIONS
TOE .3988 TRA -.7295 TC3 .1651 BAU .0881
RDE -.3987 RRA -.1642 RC3 .0975 FAU .02228
FOE -.3520 FRA .2911 FC3 -.5610 BSP 2346
BDE .5640 BRA .7478 BC3 .1918 FSP -158

MID-COURSE EXECUTION ACCURACY
SGT 845.6 SGR 437.6 SG3 68.8
RRT -.0310 RRF .0334 RTF -.6994
SGB 952.1 R23 -.0038 R13 .6994
SG1 845.7 SG2 437.3 THA 178.75

ORBIT DETERMINATION ACCURACY
ST 446.4 SR 392.7 SS 387.6
CRT -.8055 CRS -.9296 CST .9651
LSA 685.3 MSA 183.7 SSA 16.4
EL1 565.4 EL2 183.7 ALF 139.53

LAUNCH DATE JUN 19 1967 FLIGHT TIME 76.00 ARRIVAL DATE SEP 3 1967

DISTANCE 181.716

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 24.024 GAL -.80 AZL 93.50 HCA 75.33 SMA 113.52 ECC .33923 INC 3.5000 V1 29.310
RP 108.84 LAP -3.39 LOP 342.35 VP 35.633 GAP -19.69 AZP 90.89 TAL 181.55 TAP 256.88 RCA 75.01 APO 152.03 V2 34.819
RC 43.135 GL -15.32 GP -1.82 ZAL 94.82 ZAP 6.37 ETS 163.36 ZAE 161.84 ETE 34.19 ZAC 97.16 ETC 13.99 CLP 6.11

PLANETOCENTRIC CONIC
C3 30.810 VHL 5.551 DLA -10.91 RAL 166.61 RAD 6568.2 VEL 12.336 PTH 2.22 VHP 11.959 DPA 6.01 RAP 170.02 ECC 1.5071

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 5 20	1974.92	-13.13	26.85	33.22	115.32	6 38 15	1374.9	-9.61	19.93
90.00	15 16 4	5310.12	27.36	241.07	39.44	82.40	16 44 34	4710.1	26.02	232.66
100.00	7 21 13	1730.13	-14.34	8.24	32.61	116.51	7 50 3	1130.1	-10.67	1.38
100.00	16 42 53	5030.15	28.70	220.26	39.22	81.24	18 6 43	4430.1	27.19	211.79
110.00	8 17 5	1555.20	-17.54	353.19	30.83	119.82	8 43 0	955.2	-13.44	346.48
110.00	18 3 31	4777.83	32.26	200.35	38.47	78.04	19 23 8	4177.8	30.28	191.70

DIFFERENTIAL CORRECTIONS
TOE .4014 TRA -.7030 TC3 .2153 BAU .0990
RDE -.3783 RRA -.1531 RC3 .1068 FAU .02356
FOE -.3748 FRA .2850 FC3 -.6620 BSP 2467
BDE .5515 BRA .7195 BC3 .2403 FSP -180

MID-COURSE EXECUTION ACCURACY
SGT 880.3 SGR 438.7 SG3 76.3
RRT -.0375 RRF .0406 RTF -.7171
SGB 983.5 R23 -.0049 R13 .7172
SG1 880.5 SG2 438.3 THA 178.58

ORBIT DETERMINATION ACCURACY
ST 469.9 SR 393.5 SS 411.1
CRT -.8168 CRS -.9369 CST .9648
LSA 714.9 MSA 182.3 SSA 16.9
EL1 585.2 EL2 182.3 ALF 141.17

LAUNCH DATE JUN 19 1967 FLIGHT TIME 78.00 ARRIVAL DATE SEP 5 1967

HELIOCENTRIC CONIC DISTANCE 188.394

RL 152.00 LAL -.00 LOL 267.05 VL 24.328 GAL -.94 AZL 93.46 HCA 78.50 SMA 114.97 ECC .32251 INC 3.4633 V1 29.310
RP 108.81 LAP -3.39 LOP 345.53 VP 35.846 GAP -18.57 AZP 90.69 TAL 181.98 TAP 260.48 RCA 77.89 APO 152.05 V2 34.826
RC 43.534 GL -16.20 GP -1.92 ZAL 95.80 ZAP 4.71 ETS 155.77 ZAE 159.80 ETE 29.89 ZAC 95.87 ETC 13.90 CLP 4.30

PLANETOCENTRIC CONIC

C3 27.738 VHL 5.267 DLA -11.32 RAL 165.31 RAD 6568.1 VEL 12.211 PTH 2.19 VHP 11.321 DPA 5.38 RAP 171.23 ECC 1.4565

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 3 29	1935.23	-11.96	24.52	30.26	115.86	6 35 44	1335.2	-8.38	17.66
90.00	15 7 33	5297.25	27.24	240.15	36.33	81.95	16 35 50	4697.3	25.84	231.76
100.00	7 19 7	1691.20	-13.14	5.97	29.65	117.09	7 47 18	1091.2	-9.41	359.17
100.00	16 34 35	5016.52	28.55	219.28	36.10	80.74	17 58 12	4416.5	26.98	210.83
110.00	8 14 27	1517.91	-16.26	351.05	27.88	120.49	8 39 45	917.9	-12.09	344.42
110.00	17 55 45	4762.57	32.04	199.21	35.32	77.40	19 15 7	4162.6	29.98	190.61

DIFFERENTIAL CORRECTIONS
TDE .4045 TRA -.6756 TC3 .2737 BAU .1102
RDE -.3592 RRA -.1427 RC3 .1158 FAU .02505
FDE -.3999 FRA .2770 FC3 -.7817 BSP 2603
BDE .5410 BRA .6905 BC3 .2972 FSP -203

MID-COURSE EXECUTION ACCURACY
SGT 915.8 SGR 438.9 SG3 84.7
RRT -.0451 RRF .0486 RTF -.7340
SGB 1015.5 R23 -.0057 R13 .7341
SG1 916.1 SG2 438.3 THA 178.40

ORBIT DETERMINATION ACCURACY
ST 494.3 SR 393.7 SS 435.7
CRT -.8287 CRS -.9441 CST .9648
LSA 745.8 MSA 180.3 SSA 17.5
EL1 605.8 EL2 179.8 ALF 142.74

LAUNCH DATE JUN 19 1967 FLIGHT TIME 80.00 ARRIVAL DATE SEP 7 1967

HELIOCENTRIC CONIC DISTANCE 195.090

RL 152.00 LAL -.00 LOL 267.05 VL 24.608 GAL -1.10 AZL 93.43 HCA 81.67 SMA 116.35 ECC .30700 INC 3.4276 V1 29.310
RP 108.79 LAP -3.39 LOP 348.70 VP 36.044 GAP -17.50 AZP 90.50 TAL 182.48 TAP 264.14 RCA 80.63 APO 152.07 V2 34.834
RC 44.099 GL -17.08 GP -2.04 ZAL 96.91 ZAP 3.19 ETS 140.15 ZAE 157.81 ETE 26.37 ZAC 94.61 ETC 13.83 CLP 2.46

PLANETOCENTRIC CONIC

C3 25.095 VHL 5.010 DLA -11.67 RAL 163.89 RAD 6568.0 VEL 12.103 PTH 2.17 VHP 10.710 DPA 4.74 RAP 172.41 ECC 1.4130

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 0 42	1898.82	-10.87	22.40	27.29	116.31	6 32 21	1298.8	-7.25	15.59
90.00	14 59 0	5284.04	27.11	239.21	33.18	81.49	16 27 4	4684.0	25.65	230.84
100.00	7 16 8	1655.45	-12.03	3.90	26.69	117.57	7 43 44	1055.5	-8.24	357.16
100.00	16 26 15	5002.64	28.39	218.28	32.95	80.24	17 49 38	4402.6	26.75	209.86
110.00	8 11 1	1483.59	-15.07	349.11	24.94	121.05	8 35 45	883.6	-10.84	342.55
110.00	17 47 52	4747.27	31.81	198.08	32.15	76.77	19 6 59	4147.3	29.66	189.53

DIFFERENTIAL CORRECTIONS
TDE .4079 TRA -.6468 TC3 .3409 BAU .1217
RDE -.3415 RRA -.1329 RC3 .1243 FAU .02670
FDE -.4276 FRA .2661 FC3 -.9213 BSP 2743
BDE .5320 BRA .6603 BC3 .3628 FSP -229

MID-COURSE EXECUTION ACCURACY
SGT 951.3 SGR 438.4 SG3 94.2
RRT -.0538 RRF .0583 RTF -.7506
SGB 1047.4 R23 -.0071 R13 .7507
SG1 951.7 SG2 437.6 THA 178.20

ORBIT DETERMINATION ACCURACY
ST 518.8 SR 393.4 SS 461.4
CRT -.8411 CRS -.9512 CST .9648
LSA 777.7 MSA 177.6 SSA 18.1
EL1 626.8 EL2 176.1 ALF 144.22

LAUNCH DATE JUN 19 1967 FLIGHT TIME 82.00 ARRIVAL DATE SEP 9 1967

HELIOCENTRIC CONIC DISTANCE 201.801

RL 152.00 LAL -.00 LOL 267.05 VL 24.864 GAL -1.25 AZL 93.39 HCA 84.84 SMA 117.66 ECC .29267 INC 3.3923 V1 29.310
RP 108.76 LAP -3.38 LOP 351.88 VP 36.228 GAP -16.47 AZP 90.31 TAL 183.03 TAP 267.87 RCA 83.22 APO 152.09 V2 34.842
RC 44.820 GL -17.93 GP -2.16 ZAL 98.12 ZAP 2.24 ETS 104.76 ZAE 155.91 ETE 23.44 ZAC 93.38 ETC 13.77 CLP .58

PLANETOCENTRIC CONIC

C3 22.825 VHL 4.778 DLA -11.95 RAL 162.37 RAD 6567.9 VEL 12.008 PTH 2.14 VHP 10.125 DPA 4.11 RAP 173.55 ECC 1.3756

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 57 3	1865.96	-9.87	20.50	24.34	116.68	6 28 9	1266.0	-6.21	13.73
90.00	14 50 32	5270.45	26.97	238.24	30.04	81.03	16 18 23	4670.5	25.45	229.90
100.00	7 12 19	1623.16	-11.00	2.05	23.74	117.97	7 39 22	1023.2	-7.18	355.35
100.00	16 17 58	4988.49	28.23	217.26	29.80	79.73	17 41 6	4388.5	26.52	208.87
110.00	8 6 48	1452.49	-13.97	347.37	22.01	121.52	8 31 1	852.5	-9.69	340.88
110.00	17 39 57	4731.92	31.56	196.95	28.97	76.14	18 58 49	4131.9	29.34	188.45

DIFFERENTIAL CORRECTIONS
TDE .4109 TRA -.6175 TC3 .4139 BAU .1326
RDE -.3252 RRA -.1238 RC3 .1318 FAU .02857
FDE -.4575 FRA .2531 FC3 -1.0836 BSP 2882
BDE .5240 BRA .6298 BC3 .4344 FSP -259

MID-COURSE EXECUTION ACCURACY
SGT 986.1 SGR 437.0 SG3 104.7
RRT -.0639 RRF .0688 RTF -.7653
SGB 1078.6 R23 -.0081 R13 .7656
SG1 986.6 SG2 435.9 THA 177.99

ORBIT DETERMINATION ACCURACY
ST 542.8 SR 392.6 SS 487.6
CRT -.8531 CRS -.9578 CST .9649
LSA 809.8 MSA 174.6 SSA 18.7
EL1 647.5 EL2 171.7 ALF 145.56

LAUNCH DATE JUN 19 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 11 1967

HELIOCENTRIC CONIC DISTANCE 208.521

RL 152.00 LAL -.00 LOL 267.05 VL 25.099 GAL -1.41 AZL 93.36 HCA 88.01 SMA 118.89 ECC .27947 INC 3.3574 V1 29.310
RP 108.74 LAP -3.36 LOP 355.06 VP 36.398 GAP -15.49 AZP 90.12 TAL 183.64 TAP 271.64 RCA 85.67 APO 152.12 V2 34.851
RC 45.690 GL -18.76 GP -2.30 ZAL 99.43 ZAP 2.66 ETS 59.39 ZAE 154.13 ETE 20.96 ZAC 92.21 ETC 13.72 CLP -1.34

PLANETOCENTRIC CONIC

C3 20.877 VHL 4.569 DLA -12.18 RAL 160.77 RAD 6567.8 VEL 11.927 PTH 2.12 VHP 9.566 DPA 3.48 RAP 174.64 ECC 1.3436

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 52 33	1836.86	-8.98	18.83	21.42	116.97	6 23 9	1236.9	-5.29	12.09
90.00	14 42 15	5256.45	26.82	237.24	26.90	80.55	16 9 52	4656.4	25.24	228.93
100.00	7 7 40	1594.49	-10.08	.42	20.83	118.29	7 34 14	994.5	-6.22	353.76
100.00	16 9 49	4974.04	28.05	216.22	26.66	79.21	17 32 43	4374.0	26.27	207.87
110.00	8 1 51	1424.77	-12.97	345.84	19.12	121.91	8 25 36	824.8	-8.67	339.39
110.00	17 32 7	4716.53	31.31	195.83	25.82	75.52	18 50 43	4116.5	29.00	187.38

DIFFERENTIAL CORRECTIONS
TDE .4150 TRA -.5874 TC3 .4975 BAU .1441
RDE -.3102 RRA -.1153 RC3 .1380 FAU .03069
FDE -.4907 FRA .2371 FC3 -1.2727 BSP 3035
BDE .5181 BRA .5986 BC3 .5162 FSP -294

MID-COURSE EXECUTION ACCURACY
SGT 1022.4 SGR 434.8 SG3 116.7
RRT -.0757 RRF .0813 RTF -.7808
SGB 1111.0 R23 -.0092 R13 .7811
SG1 1023.0 SG2 433.3 THA 177.75

ORBIT DETERMINATION ACCURACY
ST 567.5 SR 391.5 SS 515.0
CRT -.8656 CRS -.9641 CST .9653
LSA 843.1 MSA 171.1 SSA 19.3
EL1 669.1 EL2 166.3 ALF 146.84

LAUNCH DATE JUN 19 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 13 1967

HELIOCENTRIC CONIC DISTANCE 215.248

```
RL  152.00 LAL   -.00 LOL 267.05 VL  25.314 GAL  -1.56 AZL  93.32 HCA  91.18 SMA 120.06 ECC .26735 INC 3.3227 V1  29.310
RP  108.71 LAP  -3.32 LOP 358.24 VP  36.556 GAP -14.55 AZP  89.93 TAL 184.29 TAP 275.47 RCA  87.96 APO 152.16 V2  34.860
RC  46.700 GL  -19.55 GP  -2.46 ZAL 100.81 ZAP   4.12 ETS  36.04 ZAE 152.51 ETE  18.81 ZAC  91.08 ETC  13.69 CLP  -3.31
```

PLANETOCENTRIC CONIC

```
C3  19.208 VHL  4.383 DLA -12.33 RAL 159.10 RAD 6567.8 VEL 11.857 PTH   2.10 VHP  9.032 DPA   2.85 RAP 175.67 ECC 1.3161
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 47 14	1811.65	-8.19	17.39	18.54	117.20	6 17 26	1211.6	-4.48	10.67
90.00	14 34 15	5241.98	26.65	236.21	23.81	80.06	16 1 37	4642.0	25.01	227.93
100.00	7 2 15	1569.61	-9.28	359.01	17.96	118.54	7 28 25	969.6	-5.39	352.38
100.00	16 1 55	4959.26	27.85	215.16	23.56	78.69	17 24 34	4359.3	26.01	206.85
110.00	7 56 14	1400.55	-12.10	344.51	16.28	122.22	8 19 35	800.6	-7.76	338.10
110.00	17 24 26	4701.07	31.04	194.70	22.70	74.90	18 42 47	4101.1	28.66	186.31

DIFFERENTIAL CORRECTIONS

```
TDE  .4170 TRA -.5578 TC3  .5831 BAU  .1541
RDE -.2966 RRA -.1074 RC3  .1423 FAU .03306
FDE -.5272 FRA  .2181 FC3-1.4902 BSP   3138
BDE  .5117 BRA  .5680 BC3  .6002 FSP   -332
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1056.2 SGR  431.9 SG3  130.1
RRT -.0884 RRF  .0958 RTF -.7932
SGB 1141.1 R23 -.0118 R13  .7935
SG1 1057.0 SG2  429.9 THA 177.52
```

ORBIT DETERMINATION ACCURACY

```
ST   589.5 SR   390.1 SS   543.0
CRT -.8768 CRS -.9699 CST  .9651
LSA  875.2 MSA  167.9 SSA   19.9
EL1  688.4 EL2  160.7 ALF 147.92
```

LAUNCH DATE JUN 19 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 15 1967

HELIOCENTRIC CONIC DISTANCE 221.978

```
RL  152.00 LAL   -.00 LOL 267.05 VL  25.511 GAL  -1.71 AZL  93.29 HCA  94.36 SMA 121.15 ECC .25625 INC 3.2878 V1  29.310
RP  108.68 LAP  -3.28 LOP   1.42 VP  36.701 GAP -13.64 AZP  89.75 TAL 184.99 TAP 279.35 RCA  90.11 APO 152.20 V2  34.870
RC  47.841 GL  -20.29 GP  -2.63 ZAL 102.25 ZAP   5.96 ETS  25.57 ZAE 151.08 ETE  16.93 ZAC  90.02 ETC  13.67 CLP  -5.35
```

PLANETOCENTRIC CONIC

```
C3  17.780 VHL  4.217 DLA -12.43 RAL 157.39 RAD 6567.7 VEL 11.797 PTH   2.09 VHP  8.521 DPA   2.23 RAP 176.64 ECC 1.2926
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 41 12	1790.39	-7.53	16.18	15.73	117.38	6 11 2	1190.4	-3.80	9.48
90.00	14 26 38	5227.01	26.47	235.15	20.78	79.56	15 53 45	4627.0	24.76	226.90
100.00	6 56 10	1548.53	-8.59	357.83	15.16	118.74	7 21 58	948.5	-4.69	351.21
100.00	15 54 22	4944.10	27.65	214.09	20.52	78.15	17 16 46	4344.1	25.73	205.81
110.00	7 50 1	1379.88	-11.35	343.38	13.50	122.46	8 13 1	779.9	-6.98	337.00
110.00	17 17 0	4685.52	30.76	193.58	19.65	74.29	18 35 5	4085.5	28.30	185.24

DIFFERENTIAL CORRECTIONS

```
TDE  .4196 TRA -.5267 TC3  .6766 BAU  .1644
RDE -.2842 RRA -.1002 RC3  .1443 FAU .03578
FDE -.5676 FRA  .1947 FC3-1.7422 BSP   3285
BDE  .5068 BRA  .5361 BC3  .6918 FSP   -378
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1089.8 SGR  428.2 SG3  145.3
RRT -.1040 RRF  .1129 RTF -.8059
SGB 1170.9 R23 -.0140 R13  .8063
SG1 1090.9 SG2  425.5 THA 177.24
```

ORBIT DETERMINATION ACCURACY

```
ST   611.3 SR   388.4 SS   571.9
CRT -.8882 CRS -.9753 CST  .9653
LSA  907.8 MSA  164.5 SSA   20.5
EL1  707.7 EL2  154.2 ALF 148.92
```

LAUNCH DATE JUN 19 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 17 1967

HELIOCENTRIC CONIC DISTANCE 228.707

```
RL  152.00 LAL   -.00 LOL 267.05 VL  25.690 GAL  -1.86 AZL  93.25 HCA  97.54 SMA 122.18 ECC .24614 INC 3.2526 V1  29.310
RP  108.64 LAP  -3.22 LOP   4.60 VP  36.836 GAP -12.78 AZP  89.57 TAL 185.72 TAP 283.26 RCA  92.11 APO 152.25 V2  34.881
RC  49.103 GL  -20.98 GP  -2.83 ZAL 103.73 ZAP   7.97 ETS  20.04 ZAE 149.85 ETE  15.25 ZAC  89.03 ETC  13.66 CLP  -7.46
```

PLANETOCENTRIC CONIC

```
C3  16.559 VHL  4.069 DLA -12.45 RAL 155.65 RAD 6567.7 VEL 11.745 PTH   2.07 VHP  8.033 DPA   1.62 RAP 177.54 ECC 1.2725
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 34 31	1773.05	-8.99	15.20	13.00	117.51	6 4 4	1173.0	-3.25	8.51
90.00	14 19 30	5211.52	26.27	234.06	17.84	79.04	15 46 22	4611.5	24.50	225.84
100.00	6 49 28	1531.25	-8.02	356.86	12.44	118.89	7 14 59	931.2	-4.11	350.26
100.00	15 47 14	4928.56	27.42	212.98	17.57	77.61	17 9 23	4328.6	25.44	204.74
110.00	7 43 17	1362.71	-10.72	342.45	10.81	122.66	8 6 0	762.7	-6.34	336.09
110.00	17 9 55	4669.86	30.46	192.45	16.68	73.69	18-27 45	4069.9	27.93	184.17

DIFFERENTIAL CORRECTIONS

```
TDE  .4215 TRA -.4959 TC3  .7715 BAU  .1737
RDE -.2731 RRA -.0937 RC3  .1434 FAU .03884
FDE -.6126 FRA  .1672 FC3-2.0308 BSP   3412
BDE  .5022 BRA  .5047 BC3  .7847 FSP   -429
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1121.5 SGR  423.9 SG3  162.4
RRT -.1225 RRF  .1331 RTF -.8168
SGB 1199.0 R23 -.0168 R13  .8173
SG1 1122.9 SG2  420.2 THA 176.92
```

ORBIT DETERMINATION ACCURACY

```
ST   631.3 SR   386.6 SS   601.7
CRT -.8989 CRS -.9801 CST  .9653
LSA  940.0 MSA  161.4 SSA   21.0
EL1  725.5 EL2  147.4 ALF 149.79
```

LAUNCH DATE JUN 19 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 19 1967

HELIOCENTRIC CONIC DISTANCE 235.432

```
RL  152.00 LAL   -.00 LOL 267.05 VL  25.853 GAL  -2.00 AZL  93.22 HCA 100.72 SMA 123.13 ECC .23694 INC 3.2168 V1  29.310
RP  108.61 LAP  -3.16 LOP   7.78 VP  36.960 GAP -11.94 AZP  89.40 TAL 186.48 TAP 287.19 RCA  93.95 APO 152.30 V2  34.891
RC  50.476 GL  -21.60 GP  -3.05 ZAL 105.23 ZAP  10.11 ETS  16.70 ZAE 148.84 ETE  13.72 ZAC  88.13 ETC  13.67 CLP  -9.65
```

PLANETOCENTRIC CONIC

```
C3  15.517 VHL  3.939 DLA -12.42 RAL 153.93 RAD 6567.6 VEL 11.700 PTH   2.06 VHP  7.568 DPA   1.01 RAP 178.35 ECC 1.2554
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 27 19	1759.51	-6.56	14.43	10.37	117.61	5 56 39	1159.5	-2.81	7.75
90.00	14 12 55	5195.51	26.06	232.94	14.99	78.52	15 39 31	4595.5	24.22	224.76
100.00	6 42 17	1517.63	-7.57	356.10	9.82	119.00	7 7 35	917.6	-3.65	349.51
100.00	15 40 38	4912.62	27.19	211.86	14.72	77.07	17 2 31	4312.6	25.13	203.66
110.00	7 36 9	1348.94	-10.21	341.70	8.22	122.80	7 58 38	748.9	-5.82	335.37
110.00	17 3 16	4654.08	30.16	191.32	13.82	73.09	18 20 50	4054.1	27.55	183.10

DIFFERENTIAL CORRECTIONS

```
TDE  .4217 TRA -.4655 TC3  .8677 BAU  .1823
RDE -.2631 RRA -.0879 RC3  .1392 FAU .04234
FDE -.6617 FRA  .1358 FC3-2.3620 BSP   3520
BDE  .4970 BRA  .4737 BC3  .8788 FSP   -486
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1150.7 SGR  419.0 SG3  181.9
RRT -.1431 RRF  .1562 RTF -.8268
SGB 1224.6 R23 -.0205 R13  .8275
SG1 1152.5 SG2  414.1 THA 176.57
```

ORBIT DETERMINATION ACCURACY

```
ST   648.0 SR   384.7 SS   631.7
CRT -.9086 CRS -.9842 CST  .9651
LSA  970.2 MSA  158.8 SSA   21.5
EL1  740.3 EL2  140.7 ALF 150.49
```

```
LAUNCH DATE  JUN 19 1967                          FLIGHT TIME  94.00                          ARRIVAL DATE  SEP 21 1967

 HELIOCENTRIC CONIC                                DISTANCE 242.150
  RL  152.00 LAL   -.00 LOL 267.05 VL  26.001 GAL  -2.14 AZL  93.18 HCA 103.90 SMA 124.01 ECC .22862 INC 3.1803 V1  29.310
  RP  108.58 LAP  -3.09 LOP  10.97 VP  37.074 GAP -11.14 AZP  89.24 TAL 187.25 TAP 291.15 RCA  95.66 APO 152.36 V2  34.903
  RC  51.950 GL  -22.14 GP   -3.30 ZAL 106.73 ZAP  12.37 ETS  14.50 ZAE 148.07 ETE  12.31 ZAC  87.33 ETC  13.68 CLP -11.93
 PLANETOCENTRIC CONIC
  C3  14.628 VHL  3.825 DLA -12.32 RAL 152.23 RAD 6567.6 VEL 11.662 PTH   2.05 VHP  7.125 DPA    .42 RAP 179.07 ECC 1.2407
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT    INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     5 19 42   1749.59      -6.25      13.87       7.86      117.68    5 48 52     1149.6      -2.49       7.20
     90.00    14  6 57   5179.00      25.83     231.78      12.28       77.98   15 33 16     4579.0      23.92     223.64
    100.00     6 34 44   1507.52      -7.24     355.53       7.32      119.08    6 59 52      907.5      -3.31     348.95
    100.00    15 34 37   4896.30      26.93     210.71      12.00       76.52   16 56 13     4296.3      24.81     202.56
    110.00     7 28 44   1338.41      -9.82     341.13       5.75      122.91    7 51  2      738.4      -5.42     334.81
    110.00    16 57  6   4638.17      29.84     190.20      11.08       72.49   18 14 24     4038.2      27.15     182.04
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE  .4229 TRA -.4337 TC3  .9656 BAU  .1906      SGT 1178.7 SGR  413.8 SG3  204.0         ST   664.6 SR   382.8 SS   663.7
  RDE -.2543 RRA -.0828 RC3  .1311 FAU .04632      RRT -.1699 RRF  .1845 RTF -.8371         CRT -.9184 CRS -.9878 CST  .9653
  FDE -.7178 FRA  .0978 FC3-2.7413 BSP   3661      SGB 1249.2 R23 -.0234 R13  .8379         LSA 1001.9 MSA  156.1 SSA   21.9
  BDE  .4935 BRA  .4416 BC3  .9745 FSP   -554      SG1 1181.1 SG2  407.0 THA 176.13         EL1  755.3 EL2  133.3 ALF 151.14

LAUNCH DATE  JUN 19 1967                          FLIGHT TIME  96.00                          ARRIVAL DATE  SEP 23 1967

 HELIOCENTRIC CONIC                                DISTANCE 248.860
  RL  152.00 LAL   -.00 LOL 267.05 VL  26.134 GAL  -2.26 AZL  93.14 HCA 107.08 SMA 124.83 ECC .22111 INC 3.1427 V1  29.310
  RP  108.54 LAP  -3.00 LOP  14.16 VP  37.179 GAP -10.37 AZP  89.08 TAL 188.03 TAP 295.11 RCA  97.22 APO 152.43 V2  34.914
  RC  53.515 GL  -22.61 GP   -3.58 ZAL 108.21 ZAP  14.75 ETS  12.97 ZAE 147.54 ETE  10.97 ZAC  86.63 ETC  13.71 CLP -14.32
 PLANETOCENTRIC CONIC
  C3  13.869 VHL  3.724 DLA -12.17 RAL 150.57 RAD 6567.5 VEL 11.630 PTH   2.04 VHP  6.704 DPA   -.16 RAP 179.67 ECC 1.2282
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT    INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     5 11 49   1743.04      -6.04      13.50       5.48      117.72    5 40 52     1143.0      -2.28       6.83
     90.00    14  1 40   5162.02      25.59     230.60       9.70       77.44   15 27 42     4562.0      23.60     222.49
    100.00     6 26 56   1500.66      -7.01     355.15       4.95      119.13    6 51 57      900.7      -3.07     348.57
    100.00    15 29 14   4879.63      26.66     209.55       9.42       75.96   16 50 33     4279.6      24.47     201.43
    110.00     7 21  9   1330.89      -9.54     340.73       3.41      122.98    7 43 20      730.9      -5.13     334.42
    110.00    16 51 31   4622.16      29.50     189.07       8.49       71.90   18  8 33     4022.2      26.75     180.97
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE  .4207 TRA -.4041 TC3 1.0558 BAU  .1970      SGT 1200.8 SGR  408.3 SG3  229.0         ST   675.2 SR   380.9 SS   695.3
  RDE -.2464 RRA -.0784 RC3  .1186 FAU .05083      RRT -.1989 RRF  .2171 RTF -.8446         CRT -.9264 CRS -.9908 CST  .9648
  FDE -.7787 FRA  .0546 FC3-3.1727 BSP   3751      SGB 1268.4 R23 -.0288 R13  .8456         LSA 1029.6 MSA  154.7 SSA   22.2
  BDE  .4876 BRA  .4117 BC3 1.0625 FSP   -630      SG1 1203.9 SG2  399.2 THA 175.65         EL1  764.9 EL2  126.7 ALF 151.56

LAUNCH DATE  JUN 19 1967                          FLIGHT TIME  98.00                          ARRIVAL DATE  SEP 25 1967

 HELIOCENTRIC CONIC                                DISTANCE 255.558
  RL  152.00 LAL   -.00 LOL 267.05 VL  26.255 GAL  -2.38 AZL  93.10 HCA 110.27 SMA 125.57 ECC .21437 INC 3.1038 V1  29.310
  RP  108.50 LAP  -2.91 LOP  17.34 VP  37.275 GAP  -9.63 AZP  88.92 TAL 188.80 TAP 299.06 RCA  98.65 APO 152.49 V2  34.926
  RC  55.163 GL  -22.99 GP   -3.90 ZAL 109.65 ZAP  17.27 ETS  11.85 ZAE 147.27 ETE   9.68 ZAC  86.06 ETC  13.75 CLP -16.84
 PLANETOCENTRIC CONIC
  C3  13.221 VHL  3.636 DLA -11.96 RAL 148.99 RAD 6567.5 VEL 11.602 PTH   2.03 VHP  6.303 DPA   -.73 RAP 180.15 ECC 1.2176
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT    INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     5  3 46   1739.55      -5.93      13.30       3.26      117.74    5 32 45     1139.6      -2.17       6.64
     90.00    13 57  6   5144.64      25.32     229.40       7.27       76.89   15 22 50     4544.6      23.27     221.33
    100.00     6 19  1   1496.77      -6.88     354.93       2.74      119.16    6 43 58      896.8      -2.94     348.36
    100.00    15 24 32   4862.66      26.38     208.37       6.99       75.40   16 45 34     4262.7      24.11     200.30
    110.00     7 13 30   1326.13      -9.37     340.47       1.22      123.03    7 35 36      726.1      -4.95     334.17
    110.00    16 46 32   4606.05      29.16     187.94       6.05       71.31   18  3 18     4006.1      26.33     179.90
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE  .4162 TRA -.3761 TC3 1.1378 BAU  .2019      SGT 1217.3 SGR  402.9 SG3  257.3         ST   681.0 SR   379.2 SS   726.9
  RDE -.2395 RRA -.0746 RC3  .1011 FAU .05594      RRT -.2323 RRF  .2549 RTF -.8505         CRT -.9331 CRS -.9931 CST  .9641
  FDE -.8455 FRA  .0059 FC3-3.6632 BSP   3818      SGB 1282.2 R23 -.0356 R13  .8518         LSA 1054.4 MSA  154.1 SSA   22.4
  BDE  .4802 BRA  .3834 BC3 1.1423 FSP   -717      SG1 1221.3 SG2  390.6 THA 175.10         EL1  770.1 EL2  120.6 ALF 151.79

LAUNCH DATE  JUN 19 1967                          FLIGHT TIME 100.00                          ARRIVAL DATE  SEP 27 1967

 HELIOCENTRIC CONIC                                DISTANCE 262.243
  RL  152.00 LAL   -.00 LOL 267.05 VL  26.364 GAL  -2.49 AZL  93.06 HCA 113.45 SMA 126.25 ECC .20834 INC 3.0632 V1  29.310
  RP  108.46 LAP  -2.81 LOP  20.53 VP  37.363 GAP  -8.92 AZP  88.78 TAL 189.55 TAP 303.00 RCA  99.95 APO 152.56 V2  34.938
  RC  56.885 GL  -23.30 GP   -4.27 ZAL 111.04 ZAP  19.93 ETS  11.01 ZAE 147.27 ETE   8.41 ZAC  85.63 ETC  13.79 CLP -19.49
 PLANETOCENTRIC CONIC
  C3  12.665 VHL  3.559 DLA -11.71 RAL 147.50 RAD 6567.5 VEL 11.578 PTH   2.02 VHP  5.924 DPA  -1.28 RAP 180.49 ECC 1.2084
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT    INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     4 55 41   1738.83      -5.91      13.26       1.18      117.74    5 24 40     1138.8      -2.15       6.60
     90.00    13 53 16   5126.89      25.05     228.17       5.01       76.34   15 18 43     4526.9      22.92     220.15
    100.00     6 11  5   1495.54      -6.84     354.86        .67      119.17    6 36  1      895.5      -2.90     348.29
    100.00    15 20 32   4845.41      26.08     207.17       4.72       74.84   16 41 18     4245.4      23.74     199.15
    110.00     7  5 54   1323.86      -9.28     340.35     359.19      123.05    7 27 58      723.9      -4.87     334.05
    110.00    16 42 12   4589.86      28.80     186.82       3.77       70.73   17 58 42     3989.9      25.90     178.84
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE  .4102 TRA -.3490 TC3 1.2109 BAU  .2055      SGT 1228.1 SGR  398.0 SG3  289.5         ST   683.0 SR   377.7 SS   759.7
  RDE -.2336 RRA -.0716 RC3  .0781 FAU .06176      RRT -.2718 RRF  .2997 RTF -.8555         CRT -.9390 CRS -.9949 CST  .9631
  FDE -.9201 FRA -.0502 FC3-4.2218 BSP   3868      SGB 1291.0 R23 -.0441 R13  .8572         LSA 1078.0 MSA  154.1 SSA   22.4
  BDE  .4720 BRA  .3563 BC3 1.2134 FSP   -816      SG1 1233.4 SG2  381.4 THA 174.43         EL1  771.9 EL2  115.0 ALF 151.88
```

LAUNCH DATE JUN 19 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 29 1967

DISTANCE 268.913

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.461 GAL -2.59 AZL 93.02 HCA 116.64 SMA 126.87 ECC .20297 INC 3.0206 V1 29.310
RP 108.43 LAP -2.70 LOP 23.73 VP 37.443 GAP -8.23 AZP 88.64 TAL 190.28 TAP 306.92 RCA 101.12 APO 152.62 V2 34.951
RC 58.673 GL -23.52 GP -4.68 ZAL 112.36 ZAP 22.76 ETS 10.37 ZAE 147.54 ETE 7.11 ZAC 85.37 ETC 13.84 CLP -22.29

PLANETOCENTRIC CONIC
C3 12.188 VHL 3.491 DLA -11.41 RAL 146.11 RAD 6567.5 VEL 11.557 PTH 2.02 VHP 5.566 DPA -1.82 RAP 180.67 ECC 1.2006

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 47 40	1740.54	-5.96	13.36	359.28	117.73	5 16 41	1140.5	-2.20	6.69
90.00	13 50 11	5108.83	24.75	226.93	2.92	75.78	15 15 20	4508.8	22.55	218.95
100.00	6 3 15	1496.68	-6.88	354.93	358.78	119.16	6 28 12	896.7	-2.94	348.36
100.00	15 17 17	4827.91	25.76	205.97	2.63	74.28	16 37 45	4227.9	23.35	198.00
110.00	6 58 28	1323.78	-9.28	340.35	357.32	123.05	7 20 32	723.8	-4.86	334.04
110.00	16 38 33	4573.58	28.43	185.70	1.66	70.16	17 54 47	3973.6	25.46	177.78

DIFFERENTIAL CORRECTIONS
TDE .4012 TRA -.3246 TC3 1.2690 BAU .2069
RDE -.2285 RRA -.0694 RC3 .0489 FAU .06833
FDE-1.0016 FRA -.1123 FC3-4.8535 BSP 3886
BDE .4617 BRA .3320 BC3 1.2699 FSP -927

MID-COURSE EXECUTION ACCURACY
SGT 1230.4 SGR 394.0 SG3 325.8
RRT -.3166 RRF .3516 RTF -.8583
SGB 1292.0 R23 -.0554 R13 .8607
SG1 1237.4 SG2 371.7 THA 173.63

ORBIT DETERMINATION ACCURACY
ST 678.8 SR 376.6 SS 792.5
CRT -.9434 CRS -.9962 CST .9617
LSA 1098.2 MSA 155.0 SSA 22.3
EL1 768.4 EL2 110.3 ALF 151.74

LAUNCH DATE JUN 19 1967 FLIGHT TIME 104.00 ARRIVAL DATE OCT 1 1967

DISTANCE 275.566

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.547 GAL -2.68 AZL 92.98 HCA 119.84 SMA 127.43 ECC .19821 INC 2.9755 V1 29.310
RP 108.39 LAP -2.58 LOP 26.92 VP 37.516 GAP -7.57 AZP 88.52 TAL 190.97 TAP 310.81 RCA 102.17 APO 152.69 V2 34.964
RC 60.521 GL -23.65 GP -5.15 ZAL 113.59 ZAP 25.76 ETS 9.88 ZAE 148.11 ETE 5.74 ZAC 85.29 ETC 13.88 CLP -25.28

PLANETOCENTRIC CONIC
C3 11.775 VHL 3.431 DLA -11.08 RAL 144.83 RAD 6567.4 VEL 11.540 PTH 2.01 VHP 5.229 DPA -2.33 RAP 180.67 ECC 1.1938

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 39 50	1744.40	-6.08	13.58	357.55	117.71	5 8 54	1144.4	-2.33	6.91
90.00	13 47 52	5090.45	24.44	225.67	1.01	75.23	15 12 42	4490.4	22.17	217.74
100.00	5 55 36	1499.90	-6.99	355.11	357.06	119.14	6 20 36	899.9	-3.05	348.53
100.00	15 14 46	4810.17	25.43	204.76	.71	73.73	16 34 56	4210.2	22.95	196.83
110.00	6 51 15	1325.64	-9.35	340.45	355.62	123.03	7 13 21	725.6	-4.93	334.14
110.00	16 35 36	4557.20	28.04	184.58	359.74	69.60	17 51 34	3957.2	25.01	176.72

DIFFERENTIAL CORRECTIONS
TDE .3919 TRA -.3003 TC3 1.3171 BAU .2073
RDE -.2244 RRA -.0680 RC3 .0122 FAU .07587
FDE-1.0945 FRA -.1853 FC3-5.5781 BSP 3924
BDE .4516 BRA .3079 BC3 1.3172 FSP -1061

MID-COURSE EXECUTION ACCURACY
SGT 1227.3 SGR 392.2 SG3 367.5
RRT -.3707 RRF .4130 RTF -.8610
SGB 1288.4 R23 -.0684 R13 .8643
SG1 1236.7 SG2 361.5 THA 172.61

ORBIT DETERMINATION ACCURACY
ST 672.6 SR 376.3 SS 828.4
CRT -.9476 CRS -.9972 CST .9604
LSA 1120.4 MSA 156.0 SSA 22.1
EL1 763.3 EL2 105.9 ALF 151.47

LAUNCH DATE JUN 19 1967 FLIGHT TIME 106.00 ARRIVAL DATE OCT 3 1967

DISTANCE 282.201

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.624 GAL -2.76 AZL 92.93 HCA 123.03 SMA 127.93 ECC .19400 INC 2.9274 V1 29.310
RP 108.35 LAP -2.45 LOP 30.12 VP 37.582 GAP -6.93 AZP 88.40 TAL 191.62 TAP 314.65 RCA 103.11 APO 152.75 V2 34.977
RC 62.420 GL -23.70 GP -5.69 ZAL 114.74 ZAP 28.97 ETS 9.48 ZAE 148.97 ETE 4.25 ZAC 85.41 ETC 13.93 CLP -28.45

PLANETOCENTRIC CONIC
C3 11.414 VHL 3.379 DLA -10.71 RAL 143.69 RAD 6567.4 VEL 11.524 PTH 2.01 VHP 4.913 DPA -2.83 RAP 180.46 ECC 1.1879

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 32 14	1750.11	-6.26	13.90	355.99	117.67	5 1 24	1150.1	-2.51	7.23
90.00	13 46 19	5071.76	24.11	224.41	359.28	74.67	15 10 51	4471.8	21.77	216.51
100.00	5 48 14	1504.93	-7.15	355.39	355.51	119.10	6 13 19	904.9	-3.22	348.81
100.00	15 13 0	4792.18	25.08	203.53	358.97	73.17	16 32 52	4192.2	22.53	195.66
110.00	6 44 21	1329.19	-9.48	340.64	354.09	123.00	7 6 30	729.2	-5.07	334.33
110.00	16 33 22	4540.68	27.65	183.46	357.99	69.05	17 49 3	3940.7	24.55	175.66

DIFFERENTIAL CORRECTIONS
TDE .3774 TRA -.2807 TC3 1.3393 BAU .2044
RDE -.2211 RRA -.0674 RC3 -.0324 FAU .08425
FDE-1.1927 FRA -.2634 FC3-6.3897 BSP 3877
BDE .4374 BRA .2887 BC3 1.3397 FSP -1206

MID-COURSE EXECUTION ACCURACY
SGT 1209.7 SGR 393.2 SG3 413.8
RRT -.4276 RRF .4809 RTF -.8598
SGB 1272.0 R23 -.0876 R13 .8645
SG1 1222.4 SG2 351.7 THA 171.37

ORBIT DETERMINATION ACCURACY
ST 656.9 SR 376.5 SS 862.4
CRT -.9497 CRS -.9977 CST .9579
LSA 1136.4 MSA 158.1 SSA 21.7
EL1 750.1 EL2 103.3 ALF 150.83

LAUNCH DATE JUN 19 1967 FLIGHT TIME 108.00 ARRIVAL DATE OCT 5 1967

DISTANCE 288.818

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.692 GAL -2.83 AZL 92.88 HCA 126.23 SMA 128.38 ECC .19032 INC 2.8756 V1 29.310
RP 108.31 LAP -2.32 LOP 33.31 VP 37.642 GAP -6.31 AZP 88.30 TAL 192.21 TAP 318.43 RCA 103.95 APO 152.81 V2 34.990
RC 64.367 GL -23.67 GP -6.31 ZAL 115.80 ZAP 32.40 ETS 9.16 ZAE 150.13 ETE 2.55 ZAC 85.75 ETC 13.96 CLP -31.84

PLANETOCENTRIC CONIC
C3 11.096 VHL 3.331 DLA -10.31 RAL 142.68 RAD 6567.4 VEL 11.510 PTH 2.00 VHP 4.619 DPA -3.32 RAP 180.03 ECC 1.1826

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 24 56	1757.47	-6.50	14.31	354.61	117.62	4 54 14	1157.5	-2.75	7.64
90.00	13 45 33	5052.71	23.76	223.12	357.72	74.12	15 9 46	4452.7	21.35	215.27
100.00	5 41 10	1511.55	-7.37	355.76	354.13	119.05	6 6 22	911.5	-3.44	349.17
100.00	15 12 1	4773.86	24.71	202.30	357.41	72.62	16 31 35	4173.9	22.10	194.47
110.00	6 37 48	1334.22	-9.67	340.91	352.74	122.95	7 0 2	734.2	-5.26	334.59
110.00	16 31 53	4523.95	27.23	182.33	356.42	68.50	17 47 17	3923.9	24.07	174.59

DIFFERENTIAL CORRECTIONS
TDE .3595 TRA -.2645 TC3 1.3382 BAU .1989
RDE -.2187 RRA -.0677 RC3 -.0865 FAU .09362
FDE-1.2983 FRA -.3487 FC3-7.3042 BSP 3798
BDE .4208 BRA .2730 BC3 1.3410 FSP -1371

MID-COURSE EXECUTION ACCURACY
SGT 1179.4 SGR 398.5 SG3 465.6
RRT -.4878 RRF .5553 RTF -.8556
SGB 1244.9 R23 -.1137 R13 .8626
SG1 1196.8 SG2 342.8 THA 169.79

ORBIT DETERMINATION ACCURACY
ST 634.4 SR 377.8 SS 896.1
CRT -.9502 CRS -.9981 CST .9545
LSA 1149.7 MSA 160.7 SSA 21.2
EL1 731.3 EL2 102.1 ALF 149.84

LAUNCH DATE JUN 19 1967 FLIGHT TIME 110.00 ARRIVAL DATE OCT 7 1967

HELIOCENTRIC CONIC DISTANCE 295.415

RL	152.00	LAL	-.00	LOL	267.05	VL	26.751	GAL	-2.89	AZL	92.82	HCA	129.43	SMA	128.77	ECC	.18710	INC	2.8194	V1	29.310
RP	108.27	LAP	-2.18	LOP	36.51	VP	37.697	GAP	-5.71	AZP	88.21	TAL	192.74	TAP	322.16	RCA	104.68	APO	152.86	V2	35.003
RC	66.356	GL	-23.56	GP	-7.03	ZAL	116.75	ZAP	36.07	ETS	8.89	ZAE	151.60	ETE	.55	ZAC	86.35	ETC	13.97	CLP	-35.47

PLANETOCENTRIC CONIC

C3 10.810 VHL 3.288 DLA -9.88 RAL 141.81 RAD 6567.4 VEL 11.498 PTH 2.00 VHP 4.347 DPA -3.80 RAP 179.34 ECC 1.1779

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 17 59	1766.32	-6.78	14.81	353.40	117.56	4 47 25	1166.3	-3.03	8.14
90.00	13 45 36	5033.16	23.39	221.80	356.34	73.56	15 9 29	4433.2	20.91	214.01
100.00	5 34 27	1519.62	-7.64	356.21	352.94	118.99	5 59 47	919.6	-3.71	349.62
100.00	15 11 49	4755.10	24.32	201.04	356.02	72.07	16 31 4	4155.1	21.64	193.27
110.00	6 31 37	1340.60	-9.90	341.25	351.56	122.89	6 53 58	740.6	-5.50	334.93
110.00	16 31 8	4506.88	26.80	181.19	355.02	67.94	17 46 15	3906.9	23.57	173.52

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.3377	TRA	-.2526	TC3	1.3063	BAU	.1901	SGT	1133.0	SGR	409.9	SG3	522.3	ST	604.0	SR	380.3
RDE	-.2172	RRA	-.0688	RC3	-.1513	FAU	.10386	RRT	-.5467	RRF	.6328	RTF	-.8463	CRT	-.9487	CRS	-.9983
FDE	-1.4092	FRA	-.4384	FC3	-8.3174	BSP	3660	SGB	1204.9	R23	-.1496	R13	.8574	LSA	1159.5	MSA	163.7
BDE	.4015	BRA	.2618	BC3	1.3150	FSP	-1551	SG1	1157.0	SG2	336.1	THA	167.77	EL1	706.4	EL2	102.9

SS	928.6	CST	.9496	INJ 2 LAT	8.14
SSA	20.6	INJ 2 LONG	214.01	ALF	148.40

LAUNCH DATE JUN 19 1967 FLIGHT TIME 112.00 ARRIVAL DATE OCT 9 1967

HELIOCENTRIC CONIC DISTANCE 301.992

RL	152.00	LAL	-.00	LOL	267.05	VL	26.802	GAL	-2.94	AZL	92.76	HCA	132.63	SMA	129.11	ECC	.18431	INC	2.7577	V1	29.310
RP	108.22	LAP	-2.03	LOP	39.71	VP	37.745	GAP	-5.13	AZP	88.13	TAL	193.20	TAP	325.83	RCA	105.32	APO	152.91	V2	35.016
RC	68.382	GL	-23.36	GP	-7.85	ZAL	117.60	ZAP	40.01	ETS	8.64	ZAE	153.38	ETE	358.08	ZAC	87.21	ETC	13.96	CLP	-39.36

PLANETOCENTRIC CONIC

C3 10.550 VHL 3.248 DLA -9.41 RAL 141.09 RAD 6567.4 VEL 11.486 PTH 2.00 VHP 4.098 DPA -4.27 RAP 178.39 ECC 1.1736

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 11 21	1776.62	-7.10	15.40	352.37	117.48	4 40 58	1176.6	-3.36	8.71
90.00	13 46 29	5012.92	22.99	220.45	355.12	73.00	15 10 2	4412.9	20.44	212.71
100.00	5 28 5	1529.09	-7.95	356.74	351.91	118.91	5 53 34	929.1	-4.03	350.14
100.00	15 12 27	4735.69	23.91	199.74	354.80	71.50	16 31 23	4135.7	21.16	192.02
110.00	6 25 50	1348.27	-10.19	341.66	350.56	122.81	6 48 18	748.3	-5.79	335.33
110.00	16 31 12	4489.27	26.35	180.02	353.79	67.39	17 46 1	3889.3	23.05	172.41

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.3138	TRA	-.2430	TC3	1.2511	BAU	.1794	SGT	1075.1	SGR	430.3	SG3	586.0	ST	569.2	SR	384.8
RDE	-.2171	RRA	-.0710	RC3	-.2303	FAU	.11534	RRT	-.6018	RRF	.7110	RTF	-.8328	CRT	-.9455	CRS	-.9984
FDE	-1.5292	FRA	-.5377	FC3	-9.4652	BSP	3517	SGB	1158.0	R23	-.1955	R13	.8511	LSA	1170.9	MSA	166.6
BDE	.3816	BRA	.2532	BC3	1.2721	FSP	-1759	SG1	1109.0	SG2	333.1	THA	165.08	EL1	679.0	EL2	105.1

SS	962.8	CST	.9433	INJ 2 LAT	8.71
SSA	20.0	INJ 2 LONG	212.71	ALF	146.51

LAUNCH DATE JUN 19 1967 FLIGHT TIME 114.00 ARRIVAL DATE OCT 11 1967

HELIOCENTRIC CONIC DISTANCE 308.547

RL	152.00	LAL	-.00	LOL	267.05	VL	26.845	GAL	-2.97	AZL	92.69	HCA	135.83	SMA	129.41	ECC	.18191	INC	2.6892	V1	29.310
RP	108.18	LAP	-1.87	LOP	42.92	VP	37.788	GAP	-4.57	AZP	88.07	TAL	193.59	TAP	329.43	RCA	105.87	APO	152.95	V2	35.029
RC	70.443	GL	-23.07	GP	-8.80	ZAL	118.34	ZAP	44.21	ETS	8.39	ZAE	155.45	ETE	354.90	ZAC	88.36	ETC	13.90	CLP	-43.51

PLANETOCENTRIC CONIC

C3 10.306 VHL 3.210 DLA -8.90 RAL 140.53 RAD 6567.4 VEL 11.476 PTH 1.99 VHP 3.873 DPA -4.74 RAP 177.14 ECC 1.1696

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 5 3	1788.40	-7.47	16.07	351.51	117.39	4 34 52	1188.4	-3.74	9.37
90.00	13 48 17	4991.72	22.56	219.05	354.08	72.42	15 11 28	4391.7	19.94	211.35
100.00	5 22 4	1539.97	-8.31	357.35	351.05	118.82	5 47 44	940.0	-4.40	350.74
100.00	15 13 58	4715.38	23.46	198.40	353.75	70.93	16 32 33	4115.4	20.65	190.74
110.00	6 20 25	1357.23	-10.52	342.15	349.72	122.71	6 43 3	757.2	-6.13	335.80
110.00	16 32 5	4470.89	25.86	178.82	352.73	66.83	17 46 36	3870.9	22.50	171.27

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.2837	TRA	-.2401	TC3	1.1510	BAU	.1648	SGT	995.4	SGR	460.7	SG3	652.9	ST	523.3	SR	390.8
RDE	-.2178	RRA	-.0740	RC3	-.3241	FAU	.12735	RRT	-.6381	RRF	.7821	RTF	-.8065	CRT	-.9376	CRS	-.9985
FDE	-1.6440	FRA	-.6333	FC3	-10.6980	BSP	3282	SGB	1096.8	R23	-.2585	R13	.8392	LSA	1174.4	MSA	170.0
BDE	.3577	BRA	.2513	BC3	1.1958	FSP	-1975	SG1	1043.3	SG2	338.4	THA	161.54	EL1	643.7	EL2	110.5

SS	990.9	CST	.9329	INJ 2 LAT	8.14
SSA	19.3	INJ 2 LONG	214.01	ALF	143.77

LAUNCH DATE JUN 19 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 13 1967

HELIOCENTRIC CONIC DISTANCE 315.082

RL	152.00	LAL	-.00	LOL	267.05	VL	26.882	GAL	-3.00	AZL	92.61	HCA	139.04	SMA	129.66	ECC	.17986	INC	2.6124	V1	29.310
RP	108.14	LAP	-1.71	LOP	46.12	VP	37.827	GAP	-4.03	AZP	88.03	TAL	193.91	TAP	332.95	RCA	106.34	APO	152.98	V2	35.042
RC	72.534	GL	-22.68	GP	-9.89	ZAL	118.98	ZAP	48.71	ETS	8.11	ZAE	157.75	ETE	350.63	ZAC	89.81	ETC	13.78	CLP	-47.94

PLANETOCENTRIC CONIC

C3 10.073 VHL 3.174 DLA -8.34 RAL 140.12 RAD 6567.4 VEL 11.466 PTH 1.99 VHP 3.673 DPA -5.24 RAP 175.58 ECC 1.1658

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 59 1	1801.83	-7.89	16.83	350.81	117.28	4 29 3	1201.8	-4.17	10.12
90.00	13 51 3	4969.13	22.09	217.56	353.19	71.82	15 13 52	4369.1	19.40	209 92
100.00	5 16 19	1552.45	-8.72	358.05	350.37	118.71	5 42 12	952.4	-4.82	351.[illegible]
100.00	15 16 26	4693.75	22.98	196.98	352.86	70.33	16 34 40	4093.7	20.09	189.37
110.00	6 15 21	1367.62	-10.90	342.71	349.06	122.60	6 38 9	767.6	-6.52	336.35
110.00	16 33 54	4451.34	25.33	177.54	351.83	66.24	17 48 5	3851.3	21.90	170.07

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	.2497	TRA	-.2418	TC3	1.0116	BAU	.1484	SGT	900.1	SGR	504.3	SG3	723.6	ST	470.2	SR	398.9
RDE	-.2196	RRA	-.0779	RC3	-.4369	FAU	.14003	RRT	-.6479	RRF	.8435	RTF	-.7625	CRT	-.9237	CRS	-.9986
FDE	-1.7541	FRA	-.7265	FC3	-12.0348	BSP	3015	SGB	1031.8	R23	-.3334	R13	.8250	LSA	1175.0	MSA	173.5
BDE	.3326	BRA	.2541	BC3	1.1019	FSP	-2206	SG1	968.0	SG2	357.3	THA	156.69	EL1	605.1	EL2	118.7

SS	1015.3	CST	.9167	INJ 2 LAT	8.14
SSA	18.5	INJ 2 LONG	209 92	ALF	140.07

LAUNCH DATE JUN 19 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 15 1967

DISTANCE 321.595

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.913 GAL -3.01 AZL 92.52 HCA 142.25 SMA 129.87 ECC .17813 INC 2.5248 V1 29.310
RP 108.10 LAP -1.55 LOP 49.33 VP 37.861 GAP -3.51 AZP 88.00 TAL 194.15 TAP 336.40 RCA 106.74 APO 153.00 V2 35.056
RC 74.652 GL -22.17 GP -11.15 ZAL 119.53 ZAP 53.48 ETS 7.78 ZAE 160.20 ETE 344.67 ZAC 91.55 ETC 13.59 CLP -52.66

PLANETOCENTRIC CONIC
C3 9.845 VHL 3.138 DLA -7.72 RAL 139.87 RAD 6567.4 VEL 11.456 PTH 1.99 VHP 3.498 DPA -5.78 RAP 173.70 ECC 1.1620

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 53 9	1817.29	-8.37	17.71	350.29	117.15	4 23 27	1217.3	-4.66	10.99
90.00	13 54 57	4944.56	21.56	215.95	352.46	71.18	15 17 21	4344.6	18.79	208.37
100.00	5 10 47	1566.86	-9.19	358.86	349.85	118.57	5 36 54	966.9	-5.30	352.23
100.00	15 20 0	4670.23	22.43	195.44	352.12	69.70	16 37 51	4070.2	19.46	187.90
110.00	6 10 33	1379.74	-11.34	343.37	348.56	122.46	6 33 33	779.7	-6.98	336.99
110.00	16 36 44	4430.11	24.74	176.18	351.09	65.62	17 50 34	3830.1	21.24	168.78

DIFFERENTIAL CORRECTIONS
TDE .2126 TRA -.2475 TC3 .8297 BAU .1327
RDE -.2227 RRA -.0828 RC3 -.5727 FAU .15298
FDE-1.8525 FRA -.8147 FC-13.4521 BSP 2760
BDE .3079 BRA .2610 BC3 1.0081 FSP -2451

MID-COURSE EXECUTION ACCURACY
SGT 793.5 SGR 563.8 SG3 796.4
RRT -.6155 RRF .8926 RTF -.6868
SGB 973.4 R23 -.4041 R13 .8148
SG1 888.9 SG2 396.6 THA 149.76

ORBIT DETERMINATION ACCURACY
ST 411.9 SR 409.4 SS 1034.3
CRT -.9001 CRS -.9987 CST .8908
LSA 1172.8 MSA 176.6 SSA 17.7
EL1 566.0 EL2 129.8 ALF 135.19

LAUNCH DATE JUN 19 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 17 1967

DISTANCE 328.086

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.938 GAL -3.02 AZL 92.42 HCA 145.46 SMA 130.04 ECC .17670 INC 2.4234 V1 29.310
RP 108.06 LAP -1.37 LOP 52.53 VP 37.891 GAP -3.00 AZP 88.00 TAL 194.31 TAP 339.77 RCA 107.06 APO 153.02 V2 35.069
RC 76.795 GL -21.52 GP -12.60 ZAL 119.97 ZAP 58.52 ETS 7.36 ZAE 162.61 ETE 336.09 ZAC 93.60 ETC 13.28 CLP -57.65

PLANETOCENTRIC CONIC
C3 9.616 VHL 3.101 DLA -7.01 RAL 139.80 RAD 6567.3 VEL 11.446 PTH 1.99 VHP 3.352 DPA -6.40 RAP 171.51 ECC 1.1583

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 47 20	1835.36	-8.93	18.74	349.94	116.98	4 17 55	1235.4	-5.24	12.01
90.00	14 0 10	4917.18	20.95	214.18	351.88	70.50	15 22 7	4317.2	18.10	206.66
100.00	5 5 19	1583.76	-9.74	359.81	349.51	118.40	5 31 43	983.8	-5.87	353.16
100.00	15 24 52	4644.02	21.80	193.75	351.54	69.02	16 42 16	4044.0	18.75	186.28
110.00	6 5 54	1394.06	-11.86	344.15	348.24	122.30	6 29 9	794.1	-7.52	337.75
110.00	16 40 46	4406.48	24.07	174.67	350.49	64.96	17 54 12	3806.5	20.49	167.35

DIFFERENTIAL CORRECTIONS
TDE .1709 TRA -.2588 TC3 .5934 BAU .1213
RDE -.2263 RRA -.0880 RC3 -.7341 FAU .16530
FDE-1.9200 FRA -.8809 FC-14.8816 BSP 2524
BDE .2836 BRA .2734 BC3 .9439 FSP -2681

MID-COURSE EXECUTION ACCURACY
SGT 683.6 SGR 639.5 SG3 866.0
RRT -.5046 RRF .9289 RTF -.5439
SGB 936.1 R23 -.4342 R13 .8258
SG1 812.8 SG2 464.3 THA 138.76

ORBIT DETERMINATION ACCURACY
ST 347.4 SR 421.2 SS 1040.3
CRT -.8546 CRS -.9988 CST .8430
LSA 1160.9 MSA 180.0 SSA 17.0
EL1 526.6 EL2 144.3 ALF 128.61

LAUNCH DATE JUN 19 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 19 1967

DISTANCE 334.556

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.957 GAL -3.01 AZL 92.30 HCA 148.67 SMA 130.17 ECC .17552 INC 2.3040 V1 29.310
RP 108.02 LAP -1.20 LOP 55.74 VP 37.916 GAP -2.51 AZP 88.03 TAL 194.39 TAP 343.06 RCA 107.32 APO 153.02 V2 35.082
RC 78.958 GL -20.69 GP -14.29 ZAL 120.33 ZAP 63.79 ETS 6.81 ZAE 164.63 ETE 323.73 ZAC 95.90 ETC 12.83 CLP -62.89

PLANETOCENTRIC CONIC
C3 9.380 VHL 3.063 DLA -6.17 RAL 139.90 RAD 6567.3 VEL 11.435 PTH 1.98 VHP 3.235 DPA -7.14 RAP 169.01 ECC 1.1544

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 41 19	1857.05	-9.60	19.99	349.76	116.77	4 12 16	1257.0	-5.93	13.23
90.00	14 7 1	4885.75	20.22	212.16	351.44	69.74	15 28 27	4285.7	17.28	204.72
100.00	4 59 43	1604.08	-10.39	.97	349.34	118.19	5 26 27	1004.1	-6.54	354.29
100.00	15 31 17	4613.94	21.05	191.83	351.10	68.28	16 48 11	4013.9	17.92	184.44
110.00	6 1 16	1411.41	-12.49	345.10	348.10	122.08	6 24 47	811.4	-8.17	338.68
110.00	16 46 14	4379.38	23.28	172.96	350.05	64.23	17 59 14	3779.4	19.62	165.74

DIFFERENTIAL CORRECTIONS
TDE .1276 TRA -.2733 TC3 .3059 BAU .1225
RDE -.2304 RRA -.0936 RC3 -.9281 FAU .17656
FDE-1.9517 FRA -.9255 FC-16.2954 BSP 2453
BDE .2633 BRA .2889 BC3 .9772 FSP -2906

MID-COURSE EXECUTION ACCURACY
SGT 597.1 SGR 734.9 SG3 930.5
RRT -.2706 RRF .9546 RTF -.2870
SGB 946.9 R23 -.2846 R13 .9117
SG1 773.5 SG2 546.1 THA 116.46

ORBIT DETERMINATION ACCURACY
ST 284.2 SR 434.6 SS 1034.3
CRT -.7675 CRS -.9989 CST .7534
LSA 1142.7 MSA 183.0 SSA 16.2
EL1 493.9 EL2 160.3 ALF 120.16

LAUNCH DATE JUN 19 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 21 1967

DISTANCE 341.003

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.971 GAL -2.99 AZL 92.16 HCA 151.89 SMA 130.27 ECC .17459 INC 2.1602 V1 29.310
RP 107.98 LAP -1.02 LOP 58.96 VP 37.938 GAP -2.03 AZP 88.09 TAL 194.39 TAP 346.28 RCA 107.52 APO 153.01 V2 35.094
RC 81.139 GL -19.63 GP -16.26 ZAL 120.60 ZAP 69.24 ETS 6.09 ZAE 165.70 ETE 307.04 ZAC 98.44 ETC 12.19 CLP -68.34

PLANETOCENTRIC CONIC
C3 9.131 VHL 3.022 DLA -5.15 RAL 140.20 RAD 6567.3 VEL 11.425 PTH 1.98 VHP 3.150 DPA -8.08 RAP 166.22 ECC 1.1503

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 34 47	1883.87	-10.42	21.53	349.78	116.48	4 6 11	1283.9	-6.78	14.74
90.00	14 15 58	4848.47	19.32	209.79	351.17	68.89	15 36 47	4248.5	16.28	202.44
100.00	4 53 42	1629.30	-11.20	2.40	349.37	117.90	5 20 51	1029.3	-7.38	355.70
100.00	15 39 44	4578.27	20.14	189.57	350.82	67.43	16 56 3	3978.3	16.91	182.27
110.00	5 56 23	1433.07	-13.27	346.29	348.16	121.79	6 20 16	833.1	-8.97	339.83
110.00	16 53 33	4347.27	22.31	170.97	349.75	63.41	18 6 0	3747.3	18.56	163.84

DIFFERENTIAL CORRECTIONS
TDE .0828 TRA -.2915 TC3 -.0424 BAU .1415
RDE -.2332 RRA -.0982 RC3-1.1587 FAU .18540
FDE-1.9193 FRA -.9266 FC-17.5780 BSP 2616
BDE .2475 BRA .3076 BC3 1.1595 FSP -3076

MID-COURSE EXECUTION ACCURACY
SGT 577.3 SGR 849.0 SG3 982.1
RRT .1066 RRF .9717 RTF .1036
SGB 1026.7 R23 .0858 R13 .9679
SG1 853.1 SG2 571.3 THA 82.46

ORBIT DETERMINATION ACCURACY
ST 228.9 SR 446.3 SS 1004.6
CRT -.5884 CRS -.9991 CST .5719
LSA 1107.2 MSA 186.1 SSA 15.5
EL1 469.7 EL2 175.8 ALF 109.66

LAUNCH DATE JUN 19 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 23 1967

HELIOCENTRIC CONIC DISTANCE 347.430

RL 152.00 LAL -.00 LOL 267.05 VL 26.981 GAL -2.96 AZL 91.98 HCA 155.11 SMA 130.33 ECC .17388 INC 1.9824 V1 29.310
RP 107.94 LAP -.83 LOP 62.17 VP 37.957 GAP -1.56 AZP 88.20 TAL 194.31 TAP 349.42 RCA 107.67 APO 153.00 V2 35.107
RC 83.336 GL -18.25 GP -18.58 ZAL 120.80 ZAP 74.79 ETS 5.13 ZAE 165.18 ETE 288.19 ZAC 101.14 ETC 11.31 CLP -73.94

PLANETOCENTRIC CONIC

C3 8.863 VHL 2.977 DLA -3.87 RAL 140.74 RAD 6567.3 VEL 11.413 PTH 1.98 VHP 3.100 DPA -9.31 RAP 163.18 ECC 1.1459

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 27 14	1918.35	-11.45	23.53	350.03	116.07	3 59 12	1318.3	-7.86	16.70
90.00	14 27 46	4802.55	18.17	206.92	351.05	67.90	15 47 48	4202.5	15.01	199.66
100.00	4 46 46	1661.79	-12.23	4.27	349.64	117.49	5 14 28	1061.8	-8.45	357.52
100.00	15 50 55	4534.34	18.97	186.84	350.70	66.45	17 6 29	3934.3	15.62	179.64
110.00	5 50 51	1461.15	-14.27	347.85	348.45	121.39	6 15 13	861.1	-10.01	341.34
110.00	17 3 19	4307.74	21.09	168.56	349.62	62.45	18 15 7	3707.7	17.23	161.55

DIFFERENTIAL CORRECTIONS
TDE .0408 TRA -.3102 TC3 -.4495 BAU .1781
RDE -.2333 RRA -.1009 RC3-1.4346 FAU .19085
FDE-1.8084 FRA -.8796 FC-18.6409 BSP 3098
BOE .2368 BRA .3262 BC3 1.5034 FSP -3191

MID-COURSE EXECUTION ACCURACY
SGT 660.1 SGR 984.4 SG3 1015.7
RRT .4768 RRF .9829 RTF .4785
SGB 1185.3 R23 .2147 R13 .9592
SG1 1054.1 SG2 541.9 THA 65.36

ORBIT DETERMINATION ACCURACY
ST 196.1 SR 453.5 SS 946.2
CRT -.2763 CRS -.9992 CST .2587
LSA 1050.4 MSA 189.1 SSA 15.0
EL1 457.3 EL2 186.8 ALF 98.19

LAUNCH DATE JUN 19 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 25 1967

HELIOCENTRIC CONIC DISTANCE 353.834

RL 152.00 LAL -.00 LOL 267.05 VL 26.986 GAL -2.92 AZL 91.76 HCA 158.33 SMA 130.37 ECC .17336 INC 1.7552 V1 29.310
RP 107.91 LAP -.65 LOP 65.39 VP 37.972 GAP -1.11 AZP 88.37 TAL 194.16 TAP 352.48 RCA 107.77 APO 152.97 V2 35.119
RC 85.546 GL -16.38 GP -21.39 ZAL 120.94 ZAP 80.34 ETS 3.86 ZAE 162.82 ETE 271.62 ZAC 103.94 ETC 10.10 CLP -79.62

PLANETOCENTRIC CONIC

C3 8.572 VHL 2.928 DLA -2.17 RAL 141.54 RAD 6567.3 VEL 11.400 PTH 1.97 VHP 3.089 DPA -10.97 RAP 159.89 ECC 1.1411

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 17 49	1964.73	-12.83	26.25	350.58	115.46	3 50 34	1364.7	-9.30	19.35
90.00	14 43 38	4743.43	16.62	203.27	351.14	66.74	16 2 42	4143.4	13.33	196.14
100.00	4 38 9	1705.60	-13.59	6.81	350.20	116.88	5 6 34	1105.6	-9.88	359.99
100.00	16 5 59	4477.79	17.39	183.38	350.78	65.30	17 20 37	3877.8	13.92	176.31
110.00	5 44 4	1499.23	-15.61	349.99	349.04	120.80	6 9 3	899.2	-11.41	343.40
110.00	17 16 33	4256.93	19.46	165.52	349.69	61.32	18 27 30	3656.9	15.48	158.65

DIFFERENTIAL CORRECTIONS
TDE .0069 TRA -.3259 TC3 -.9129 BAU .2285
RDE -.2286 RRA -.1010 RC3-1.7725 FAU .19228
FDE-1.6111 FRA -.7869 FC-19.4197 BSP 3865
BOE .2287 BRA .3412 BC3 1.9938 FSP -3244

MID-COURSE EXECUTION ACCURACY
SGT 832.7 SGR 1147.4 SG3 1028.2
RRT .7066 RRF .9900 RTF .7084
SGB 1417.7 R23 .2255 R13 .9640
SG1 1322.3 SG2 511.3 THA 57.39

ORBIT DETERMINATION ACCURACY
ST 192.6 SR 452.3 SS 855.3
CRT .0670 CRS -.9992 CST -.0834
LSA 967.5 MSA 192.1 SSA 14.6
EL1 452.5 EL2 192.1 ALF 88.01

LAUNCH DATE JUN 19 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 27 1967

HELIOCENTRIC CONIC DISTANCE 360.218

RL 152.00 LAL -.00 LOL 267.05 VL 26.987 GAL -2.86 AZL 91.45 HCA 161.55 SMA 130.38 ECC .17303 INC 1.4533 V1 29.310
RP 107.87 LAP -.46 LOP 68.60 VP 37.984 GAP -.67 AZP 88.62 TAL 193.92 TAP 355.47 RCA 107.82 APO 152.94 V2 35.131
RC 87.767 GL -13.77 GP -24.87 ZAL 121.02 ZAP 85.75 ETS 2.17 ZAE 158.78 ETE 259.83 ZAC 106.74 ETC 8.45 CLP -85.31

PLANETOCENTRIC CONIC

C3 8.253 VHL 2.873 DLA .18 RAL 142.72 RAD 6567.3 VEL 11.386 PTH 1.97 VHP 3.127 DPA -13.29 RAP 156.36 ECC 1.1358

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 5 2	2030.64	-14.72	30.16	351.57	114.46	3 38 53	1430.6	-11.30	23.16
90.00	15 5 48	4663.25	14.40	198.43	351.52	65.35	16 23 31	4063.3	10.96	191.45
100.00	4 26 28	1767.99	-15.48	10.48	351.20	115.90	4 55 56	1168.0	-11.87	3.54
100.00	16 27 4	4401.14	15.15	178.79	351.15	63.92	17 40 25	3801.1	11.53	171.87
110.00	5 34 55	1553.75	-17.49	353.11	350.09	119.85	6 0 48	953.8	-13.39	346.40
110.00	17 35 6	4188.14	17.16	161.50	350.04	59.97	18 44 55	3588.1	13.04	154.82

DIFFERENTIAL CORRECTIONS
TDE -.0131 TRA -.3362 TC3-1.4415 BAU .2888
RDE -.2120 RRA -.0945 RC3-2.1851 FAU .18773
FDE-1.2892 FRA -.6255 FC-19.6928 BSP 4840
BOE .2124 BRA .3492 BC3 2.6177 FSP -3186

MID-COURSE EXECUTION ACCURACY
SGT 1066.0 SGR 1338.1 SG3 1008.3
RRT .8253 RRF .9944 RTF .8260
SGB 1710.8 R23 .2119 R13 .9716
SG1 1638.7 SG2 491.5 THA 52.76

ORBIT DETERMINATION ACCURACY
ST 204.4 SR 428.3 SS 708.0
CRT .2672 CRS -.9991 CST -.2821
LSA 829.4 MSA 195.9 SSA 14.9
EL1 432.7 EL2 195.0 ALF 80.86

LAUNCH DATE JUN 19 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 29 1967

HELIOCENTRIC CONIC DISTANCE 366.579

RL 152.00 LAL -.00 LOL 267.05 VL 26.985 GAL -2.80 AZL 91.03 HCA 164.77 SMA 130.36 ECC .17286 INC 1.0273 V1 29.310
RP 107.83 LAP -.27 LOP 71.82 VP 37.993 GAP -.24 AZP 89.01 TAL 193.62 TAP 358.39 RCA 107.83 APO 152.90 V2 35.143
RC 89.996 GL -9.90 GP -29.36 ZAL 121.03 ZAP 90.83 ETS 359.90 ZAE 153.27 ETE 252.51 ZAC 109.42 ETC 6.14 CLP -90.95

PLANETOCENTRIC CONIC

C3 7.915 VHL 2.813 DLA 3.68 RAL 144.44 RAD 6567.3 VEL 11.371 PTH 1.96 VHP 3.232 DPA -16.60 RAP 152.51 ECC 1.1303

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 45 56	2131.38	-17.47	36.28	353.32	112.65	3 21 27	1531.4	-14.25	29.08
90.00	15 38 38	4547.01	10.99	191.59	352.43	63.74	16 54 26	3947.0	7.38	184.78
100.00	4 9 0	1863.46	-18.23	16.23	352.97	114.11	4 40 3	1263.5	-14.82	9.10
100.00	16 58 16	4290.17	11.73	172.32	352.05	62.31	18 9 46	3690.2	7.94	165.59
110.00	5 21 11	1637.51	-20.25	358.03	351.92	118.14	5 48 29	1037.5	-16.33	351.10
110.00	18 2 34	4088.88	13.69	155.90	350.90	58.37	19 10 43	3488.9	9.41	149.42

DIFFERENTIAL CORRECTIONS
TDE -.0051 TRA -.3334 TC3-2.0269 BAU .3579
RDE -.1743 RRA -.0780 RC3-2.7074 FAU .17650
FDE -.8387 FRA -.4074 FC-19.3052 BSP 6004
BOE .1744 BRA .3424 BC3 3.3821 FSP -3023

MID-COURSE EXECUTION ACCURACY
SGT 1328.1 SGR 1572.3 SG3 952.8
RRT .8856 RRF .9970 RTF .8857
SGB 2058.1 R23 .1901 R13 .9788
SG1 2000.2 SG2 484.8 THA 50.42

ORBIT DETERMINATION ACCURACY
ST 207.3 SR 361.1 SS 490.6
CRT .2004 CRS -.9982 CST -.2193
LSA 610.7 MSA 202.0 SSA 16.8
EL1 364.6 EL2 201.1 ALF 80.53

LAUNCH DATE JUN 19 1967 FLIGHT TIME 134.00 ARRIVAL DATE OCT 31 1967

DISTANCE 372.919

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.979 GAL -2.73 AZL 90.38 HCA 168.00 SMA 130.32 ECC .17285 INC .3767 V1 29.310
RP 107.80 LAP -.08 LOP 75.05 VP 37.999 GAP .18 AZP 89.63 TAL 193.24 TAP 1.24 RCA 107.79 APO 152.85 V2 35.154
RC 92.232 GL -3.73 GP -35.46 ZAL 120.84 ZAP 95.29 ETS 356.77 ZAE 146.11 ETE 248.53 ZAC 111.80 ETC 2.84 CLP -96.50

PLANETOCENTRIC CONIC
C3 7.613 VHL 2.759 DLA 9.29 RAL 147.10 RAO 6567.2 VEL 11.358 PTH 1.96 VHP 3.450 DPA -21.47 RAP 148.10 ECC 1.1253

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 13 22	2302.41	-21.60	47.12	356.71	108.77	2 51 44	1702.4	-18.84	39.54
90.00	16 32 26	4361.73	5.24	181.02	354.57	62.13	17 45 8	3761.7	1.47	174.37
100.00	3 39 16	2025.38	-22.41	26.44	356.40	110.32	4 13 1	1425.4	-19.44	18.90
100.00	17 49 14	4113.99	5.99	162.40	354.16	60.66	18 57 48	3514.0	2.04	155.84
110.00	4 57 52	1779.41	-24.55	6.80	355.44	114.57	5 27 31	1179.4	-21.03	359.42
110.00	18 47 7	3932.72	7.97	147.43	352.94	56.65	19 52 40	3332.7	3.53	141.16

DIFFERENTIAL CORRECTIONS
TOE 10551 TRA -.3076 TC3-2.6568 BAU .4347
ROE -.0882 RRA -.0387 RC3-3.3448 FAU .15565
FOE -.2276 FRA -.1186 FC-17.7016 BSP 7306
BOE .1040 BRA .3101 BC3 4.2716 FSP -2680

MID-COURSE EXECUTION ACCURACY
SGT 1606.7 SGR 1856.6 SG3 845.2
RRT .9178 RRF .9986 RTF .9179
SGB 2455.3 R23 .1684 R13 .9843
SG1 2405.4 SG2 492.4 THA 49.49

ORBIT DETERMINATION ACCURACY
ST 229.7 SR 192.9 SS 167.3
CRT -.3110 CRS -.9666 CST .2070
LSA 274.1 MSA 204.8 SSA 29.7
EL1 246.6 EL2 170.8 ALF 149.72

LAUNCH DATE JUN 19 1967 FLIGHT TIME 136.00 ARRIVAL DATE NOV 2 1967

DISTANCE 379.235

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.970 GAL -2.64 AZL 89.27 HCA 171.22 SMA 130.26 ECC .17299 INC .7266 V1 29.310
RP 107.77 LAP .11 LOP 78.27 VP 38.003 GAP .59 AZP 90.72 TAL 192.79 TAP 4.01 RCA 107.73 APO 152.79 V2 35.165
RC 94.474 GL 7.16 GP -44.26 ZAL 119.82 ZAP 98.56 ETS 352.36 ZAE 136.56 ETE 246.85 ZAC 113.51 ETC 357.94 CLP-101.99

PLANETOCENTRIC CONIC
C3 7.625 VHL 2.761 DLA 19.24 RAL 151.77 RAO 6567.2 VEL 11.359 PTH 1.96 VHP 3.908 DPA -28.85 RAP 142.47 ECC 1.1255

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 1 29	2656.67	-27.27	71.44	4.49	97.93	1 45 45	2056.7	-25.89	63.05
90.00	18 21 35	4008.03	-6.12	161.23	.67	62.30	19 28 23	3408.0	-9.78	154.47
100.00	2 34 44	2355.94	-28.36	49.13	4.30	99.86	3 14 0	1755.9	-26.71	40.72
100.00	19 31 1	3784.00	-5.15	144.24	.14	60.51	20 34 5	3184.0	-9.04	137.61
110.00	4 8 45	2061.80	-31.12	26.09	3.60	104.91	4 43 7	1461.8	-28.76	17.69
110.00	20 13 29	3650.90	-2.75	132.65	358.64	55.91	21 14 20	3050.9	-7.20	126.40

DIFFERENTIAL CORRECTIONS
TOE .2309 TRA -.2327 TC3-3.1870 BAU .5195
ROE .1108 RRA .0496 RC3-3.9769 FAU .12257
FOE .5140 FRA .2141 FC-13.9170 BSP 8779
BOE .2561 BRA .2380 BC3 5.0963 FSP -2131

MID-COURSE EXECUTION ACCURACY
SGT 1894.4 SGR 2210.9 SG3 671.6
RRT .9359 RRF .9994 RTF .9369
SGB 2911.5 R23 .1460 R13 .9887
SG1 2865.6 SG2 515.0 THA 49.71

ORBIT DETERMINATION ACCURACY
ST 505.8 SR 241.3 SS 371.6
CRT .8894 CRS -.9978 CST -.9011
LSA 655.2 MSA 150.5 SSA 12.4
EL1 551.2 EL2 101.2 ALF 23.84

LAUNCH DATE JUN 19 1967 FLIGHT TIME 138.00 ARRIVAL DATE NOV 4 1967

DISTANCE 385.525

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.958 GAL -2.54 AZL 86.88 HCA 174.44 SMA 130.18 ECC .17325 INC 3.1216 V1 29.310
RP 107.73 LAP .30 LOP 81.50 VP 38.004 GAP .99 AZP 93.11 TAL 192.27 TAP 6.71 RCA 107.62 APO 152.73 V2 35.175
RC 96.719 GL 28.02 GP -57.73 ZAL 115.11 ZAP 99.49 ETS 345.95 ZAE 122.87 ETE 246.21 ZAC 113.62 ETC 350.34 CLP-107.98

PLANETOCENTRIC CONIC
C3 9.760 VHL 3.124 DLA 37.99 RAL 162.39 RAO 6567.4 VEL 11.452 PTH 1.99 VHP 5.080 DPA -40.30 RAP 133.57 ECC 1.1606

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.54	19 17 0	3960.49	-30.60	170.04	23.17	66.31	20 23 0	3360.5	-33.52	161.67
116.46	1 30 46	2797.92	-30.60	82.18	23.16	66.29	2 17 24	2197.9	-33.52	73.81
63.54	19 17 0	3960.49	-30.60	170.04	23.17	66.31	20 23 0	3360.5	-33.52	161.67
116.46	1 30 46	2797.92	-30.60	82.18	23.16	66.29	2 17 24	2197.9	-33.52	73.81
63.54	19 17 0	3960.49	-30.60	170.04	23.17	66.31	20 23 0	3360.5	-33.52	161.67
116.46	1 30 46	2797.92	-30.60	82.18	23.16	66.29	2 17 24	2197.9	-33.52	73.81

DIFFERENTIAL CORRECTIONS
TOE .7320 TRA -.0224 TC3-2.8699 BAU .6004
ROE .6091 RRA .2840 RC3-3.5970 FAU .07409
FOE 1.1910 FRA .5318 FC3-6.5713 BSP 10278
BOE .9523 BRA .2849 BC3 4.6016 FSP -1313

MID-COURSE EXECUTION ACCURACY
SGT 2240.7 SGR 2595.4 SG3 415.8
RRT .9450 RRF .9996 RTF .9487
SGB 3428.8 R23 .1285 R13 .9914
SG1 3382.4 SG2 562.3 THA 49.44

ORBIT DETERMINATION ACCURACY
ST 1343.6 SR 1136.6 SS 973.9
CRT .9824 CRS-1.0000 CST -.9838
LSA 2002.9 MSA 184.6 SSA 2.3
EL1 1752.3 EL2 162.9 ALF 40.14

LAUNCH DATE JUN 19 1967 FLIGHT TIME 140.00 ARRIVAL DATE NOV 6 1967

DISTANCE 391.755

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.943 GAL -2.42 AZL 78.04 HCA 177.62 SMA 130.08 ECC .17362 INC11.9603 V1 29.310
RP 107.70 LAP .49 LOP 84.72 VP 38.003 GAP 1.37 AZP 101.95 TAL 191.66 TAP 9.28 RCA 107.49 APO 152.66 V2 35.185
RC 98.967 GL 59.90 GP -79.74 ZAL 101.35 ZAP 96.08 ETS 330.88 ZAE 100.84 ETE 238.06 ZAC 110.25 ETC 332.36 CLP-126.52

PLANETOCENTRIC CONIC
C3 41.596 VHL 6.450 DLA 61.81 RAL 197.50 RAO 6568.6 VEL 12.766 PTH 2.32 VHP 10.195 DPA -57.15 RAP 110.40 ECC 1.6846

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
32.45	19 49 57	4561.92	-28.45	226.73	90.63	32.50	21 5 59	3961.9	-35.10	221.90
147.55	5 37 55	2874.60	-28.44	87.35	90.61	32.49	6 25 50	2274.6	-35.09	82.53
32.45	19 49 57	4561.92	-28.45	226.73	90.63	32.50	21 5 59	3961.9	-35.10	221.90
147.55	5 37 55	2874.60	-28.44	87.35	90.61	32.49	6 25 50	2274.6	-35.09	82.53
32.45	19 49 57	4561.92	-28.45	226.73	90.63	32.50	21 5 59	3961.9	-35.10	221.90
147.55	5 37 55	2874.60	-28.44	87.35	90.61	32.49	6 25 50	2274.6	-35.09	82.53

DIFFERENTIAL CORRECTIONS
TOE 2.4392 TRA 1.0810 TC3 -.6711 BAU .5224
ROE 1.1770 RRA 1.0966 RC3 -.6574 FAU .01913
FOE .9495 FRA .6999 FC3 -.3982 BSP 11000
BOE 2.7084 BRA 1.5398 BC3 .9394 FSP -424

MID-COURSE EXECUTION ACCURACY
SGT 3094.9 SGR 2462.9 SG3 142.2
RRT .9436 RRF .9949 RTF .9717
SGB 3955.3 R23 .1084 R13 .9939
SG1 3902.1 SG2 646.5 THA 38.14

ORBIT DETERMINATION ACCURACY
ST 2251.3 SR 1215.3 SS 820.5
CRT .9664 CRS -.9953 CST -.9867
LSA 2671.2 MSA 288.7 SSA .8
EL1 2543.4 EL2 276.6 ALF 27.91

LAUNCH DATE JUN 19 1967 FLIGHT TIME 142.00 ARRIVAL DATE NOV 8 1967

HELIOCENTRIC CONIC DISTANCE 398.318

```
RL  152.00 LAL   -.00 LOL 267.05 VL  26.926 GAL  -2.36 AZL 127.03 HCA 181.13 SMA 129.96 ECC .17438 INC37.0259 V1  29.310
RP  107.67 LAP    .68 LOP  87.95 VP  37.999 GAP   1.84 AZP  52.97 TAL 191.29 TAP  12.42 RCA 107.30 APO 152.62 V2  35.195
RC 101.218 GL  -63.93 GP   79.65 ZAL  93.94 ZAP  93.69 ETS 167.26 ZAE  77.73 ETE 256.81 ZAC  80.09 ETC 162.35 CLP 111.00
```

PLANETOCENTRIC CONIC

```
C3 325.426 VHL 18.040 DLA -51.99 RAL 134.29 RAD 6571.8 VEL 21.136 PTH   3.20 VHP 21.423 DPA  65.58 RAP 303.19 ECC 6.3557
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
44.39	4 12 3	2254.57	4.21	61.83	40.98	141.87	4 49 38	1654.6	10.48	57.24
135.61	12 51 30	697.75	4.22	298.14	40.99	141.87	13 3 7	97.8	10.49	293.54
44.39	4 12 3	2254.57	4.21	61.83	40.98	141.87	4 49 38	1654.6	10.48	57.24
135.61	12 51 30	697.75	4.22	298.14	40.99	141.87	13 3 7	97.8	10.49	293.54
44.39	4 12 3	2254.57	4.21	61.83	40.98	141.87	4 49 38	1654.6	10.48	57.24
135.61	12 51 30	697.75	4.22	298.14	40.99	141.87	13 3 7	97.8	10.49	293.54

DIFFERENTIAL CORRECTIONS

```
TDE 1.6157 TRA 1.2999 TC3 -.0414 BAU  .9101
RD-10.7055 RRA-2.4476 RC3  .2050 FAU-.01537
FDE-2.5165 FRA -.4722 FC3  .0409 BSP   4243
BDE10.8267 BRA 2.7713 BC3  .2092 FSP    -88
```

MID-COURSE EXECUTION ACCURACY

```
SGT  857.4 SGR 3701.6 SG3   73.3
RRT -.8512 RRF  .9979 RTF -.8185
SGB 3799.6 R23 -.0823 R13  .9963
SG1 3773.9 SG2  441.3 THA 101.31
```

ORBIT DETERMINATION ACCURACY

```
ST   551.2 SR  3421.3 SS  1485.7
CRT -.9657 CRS -.9998 CST  .9604
LSA 3767.6 MSA  145.8 SSA    1.2
EL1 3462.5 EL2  141.4 ALF  98.86
```

LAUNCH DATE JUN 19 1967 FLIGHT TIME 144.00 ARRIVAL DATE NOV 10 1967

HELIOCENTRIC CONIC DISTANCE 404.408

```
RL  152.00 LAL   -.00 LOL 267.05 VL  26.907 GAL  -2.20 AZL 101.87 HCA 184.23 SMA 129.83 ECC .17491 INC11.8640 V1  29.310
RP  107.65 LAP    .87 LOP  91.19 VP  37.994 GAP   2.17 AZP  78.17 TAL 190.47 TAP  14.70 RCA 107.12 APO 152.54 V2  35.204
RC 103.470 GL  -59.82 GP   63.36 ZAL 100.49 ZAP 104.61 ETS  34.15 ZAE 109.69 ETE 128.53 ZAC  89.27 ETC  34.34 CLP-124.24
```

PLANETOCENTRIC CONIC

```
C3  40.900 VHL  6.395 DLA -45.33 RAL 130.72 RAD 6568.6 VEL 12.738 PTH   2.32 VHP  6.317 DPA  69.03 RAP 205.20 ECC 1.6731
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
52.99	4 26 50	1777.65	22.79	35.31	16.17	130.31	4 56 28	1177.6	27.81	28.84
127.01	12 8 14	5650.35	22.80	263.48	16.18	130.31	13 42 24	5050.4	27.82	257.01
52.99	4 26 50	1777.65	22.79	35.31	16.17	130.31	4 56 28	1177.6	27.81	28.84
127.01	12 8 14	5650.35	22.80	263.48	16.18	130.31	13 42 24	5050.4	27.82	257.01
52.99	4 26 50	1777.65	22.79	35.31	16.17	130.31	4 56 28	1177.6	27.81	28.84
127.01	12 8 14	5650.35	22.80	263.48	16.18	130.31	13 42 24	5050.4	27.82	257.01

DIFFERENTIAL CORRECTIONS

```
TDE-2.6567 TRA-1.3875 TC3 -.8032 BAU  .5309
RDE 2.3397 RRA  .4931 RC3  .5454 FAU .04224
FDE-3.3702 FRA -.9136 FC3 -.8942 BSP  11613
BDE 3.5401 BRA 1.4725 BC3  .9709 FSP   -904
```

MID-COURSE EXECUTION ACCURACY

```
SGT 3138.0 SGR 2296.8 SG3  296.5
RRT -.9458 RRF -.9969 RTF  .9675
SGB 3888.8 R23  .1406 R13 -.9898
SG1 3840.7 SG2  609.3 THA 144.27
```

ORBIT DETERMINATION ACCURACY

```
ST  2438.7 SR  2104.7 SS  1659.0
CRT -.9916 CRS  .9997 CST -.9946
LSA 3616.9 MSA  218.5 SSA    1.2
EL1 3214.8 EL2  206.4 ALF 139.24
```

LAUNCH DATE JUN 19 1967 FLIGHT TIME 146.00 ARRIVAL DATE NOV 12 1967

HELIOCENTRIC CONIC DISTANCE 410.611

```
RL  152.00 LAL   -.00 LOL 267.05 VL  26.886 GAL  -2.05 AZL  98.15 HCA 187.44 SMA 129.69 ECC .17567 INC 8.1463 V1  29.310
RP  107.62 LAP   1.05 LOP  94.42 VP  37.987 GAP   2.54 AZP  81.92 TAL 189.72 TAP  17.16 RCA 106.90 APO 152.47 V2  35.212
RC 105.723 GL  -52.47 GP   45.28 ZAL 103.19 ZAP 113.85 ETS  28.00 ZAE 124.25 ETE 132.64 ZAC  97.16 ETC  30.10 CLP-125.07
```

PLANETOCENTRIC CONIC

```
C3  23.053 VHL  4.801 DLA -38.71 RAL 135.06 RAD 6567.9 VEL 12.018 PTH   2.15 VHP  4.517 DPA  55.67 RAP 177.82 ECC 1.3794
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.42	5 24 18	1524.17	25.12	15.04	9.24	120.48	5 49 42	924.2	28.97	7.57
117.58	11 45 25	5617.09	25.13	262.41	9.25	120.47	13 19 2	5017.1	28.98	254.94
62.42	5 24 18	1524.17	25.12	15.04	9.24	120.48	5 49 42	924.2	28.97	7.57
117.58	11 45 25	5617.09	25.13	262.41	9.25	120.47	13 19 2	5017.1	28.98	254.94
62.42	5 24 18	1524.17	25.12	15.04	9.24	120.48	5 49 42	924.2	28.97	7.57
117.58	11 45 25	5617.09	25.13	262.41	9.25	120.47	13 19 2	5017.1	28.98	254.94

DIFFERENTIAL CORRECTIONS

```
TDE-1.9585 TRA-1.0635 TC3-1.7033 BAU  .5961
RDE 1.3350 RRA  .2777 RC3  .9163 FAU .08667
FDE-4.2707 FRA-1.0538 FC3-3.2546 BSP  11719
BDE 2.3702 BRA 1.0992 BC3 1.9341 FSP  -1716
```

MID-COURSE EXECUTION ACCURACY

```
SGT 3283.7 SGR 1868.8 SG3  535.0
RRT -.9538 RRF -.9984 RTF  .9662
SGB 3778.2 R23  .1850 R13 -.9822
SG1 3746.0 SG2  492.1 THA 150.96
```

ORBIT DETERMINATION ACCURACY

```
ST  2388.0 SR  1598.3 SS  1998.3
CRT -.9921 CRS  .9999 CST -.9938
LSA 3494.1 MSA  205.0 SSA    1.8
EL1 2868.7 EL2  167.3 ALF 146.29
```

LAUNCH DATE JUN 19 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 14 1967

HELIOCENTRIC CONIC DISTANCE 416.813

```
RL  152.00 LAL   -.00 LOL 267.05 VL  26.863 GAL  -1.90 AZL  96.67 HCA 190.68 SMA 129.53 ECC .17654 INC 6.6676 V1  29.310
RP  107.60 LAP   1.23 LOP  97.66 VP  37.978 GAP   2.91 AZP  83.45 TAL 188.92 TAP  19.60 RCA 106.66 APO 152.40 V2  35.220
RC 107.975 GL  -47.73 GP   33.82 ZAL 104.04 ZAP 120.68 ETS  24.63 ZAE 131.61 ETE 140.60 ZAC 102.19 ETC  27.78 CLP-127.88
```

PLANETOCENTRIC CONIC

```
C3  17.749 VHL  4.213 DLA -34.73 RAL 138.34 RAD 6567.7 VEL 11.795 PTH   2.09 VHP  4.031 DPA  45.72 RAP 168.75 ECC 1.2921
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.00	6 12 22	1358.48	24.62	1.38	6.94	115.31	6 35 1	758.5	27.82	353.62
111.00	11 23 32	5658.13	24.63	265.42	6.95	115.29	12 57 50	5058.1	27.83	257.66
69.00	6 12 22	1358.48	24.62	1.38	6.94	115.31	6 35 1	758.5	27.82	353.62
111.00	11 23 32	5658.13	24.63	265.42	6.95	115.29	12 57 50	5058.1	27.83	257.66
69.00	6 12 22	1358.48	24.62	1.38	6.94	115.31	6 35 1	758.5	27.82	353.62
111.00	11 23 32	5658.13	24.63	265.42	6.95	115.29	12 57 50	5058.1	27.83	257.66

DIFFERENTIAL CORRECTIONS

```
TDE-1.7196 TRA -.8988 TC3-2.3688 BAU  .5985
RDE  .8359 RRA  .1321 RC3  .8665 FAU .10571
FDE-4.2943 FRA -.8351 FC3-5.1561 BSP  10948
BDE 1.9120 BRA  .9085 BC3 2.5223 FSP  -1947
```

MID-COURSE EXECUTION ACCURACY

```
SGT 3415.4 SGR 1368.7 SG3  640.1
RRT -.9500 RRF -.9973 RTF  .9636
SGB 3679.4 R23  .2214 R13 -.9738
SG1 3657.7 SG2  398.9 THA 158.89
```

ORBIT DETERMINATION ACCURACY

```
ST  2381.5 SR  1138.9 SS  2039.4
CRT -.9914 CRS  .9999 CST -.9931
LSA 3329.7 MSA  201.8 SSA    2.6
EL1 2636.4 EL2  134.4 ALF 154.56
```

LAUNCH DATE JUN 19 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 16 1967

DISTANCE 422.996

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.838 GAL -1.74 AZL 95.87 HCA 193.91 SMA 129.36 ECC .17754 INC 5.8709 V1 29.310
RP 107.58 LAP 1.41 LOP 100.89 VP 37.967 GAP 3.27 AZP 84.30 TAL 188.09 TAP 22.00 RCA 106.39 APO 152.33 V2 35.227
RC 110.226 GL -44.53 GP 26.33 ZAL 103.97 ZAP 125.91 ETS 22.09 ZAE 134.97 ETE 148.13 ZAC 105.24 ETC 25.87 CLP-130.87

PLANETOCENTRIC CONIC
C3 15.309 VHL 3.913 DLA -32.26 RAL 141.03 RAD 6567.6 VEL 11.692 PTH 2.06 VHP 3.894 DPA 38.92 RAP 164.49 ECC 1.2520

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.85	6 53 20	1231.74	23.87	351.21	6.50	112.38	7 13 51	631.7	26.69	343.34
106.15	11 4 1	5717.21	23.88	269.63	6.51	112.36	12 39 18	5117.2	26.70	261.76
73.85	6 53 20	1231.74	23.87	351.21	6.50	112.38	7 13 51	631.7	26.69	343.34
106.15	11 4 1	5717.21	23.88	269.63	6.51	112.36	12 39 18	5117.2	26.70	261.76
110.00	10 1 55	621.43	16.89	302.81	2.83	120.17	10 12 16	21.4	20.77	295.83
110.00	12 54 36	5375.52	31.27	246.11	9.29	104.58	14 24 12	4775.5	32.95	237.29

DIFFERENTIAL CORRECTIONS
TDE-1.6458 TRA -.8221 TC3-2.9797 BAU .6292
RDE .5910 RRA .0758 RC3 .7560 FAU .11609
FDE-4.1409 FRA -.6706 FC3-6.5646 BSP 11560
BDE 1.7487 BRA .8256 BC3 3.0741 FSP -2186

MID-COURSE EXECUTION ACCURACY
SGT 3643.1 SGR 1056.5 SG3 693.9
RRT -.9488 RRF -.9946 RTF .9653
SGB 3793.2 R23 .2261 R13 -.9709
SG1 3779.5 SG2 321.6 THA 164.50

ORBIT DETERMINATION ACCURACY
ST 2448.6 SR 866.5 SS 2044.1
CRT -.9915 CRS .9999 CST -.9930
LSA 3299.4 MSA 197.2 SSA 3.6
EL1 2595.2 EL2 106.1 ALF 160.63

LAUNCH DATE JUN 19 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 18 1967

DISTANCE 429.163

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.812 GAL -1.56 AZL 95.37 HCA 197.15 SMA 129.18 ECC .17866 INC 5.3702 V1 29.310
RP 107.56 LAP 1.58 LOP 104.13 VP 37.954 GAP 3.63 AZP 84.87 TAL 187.20 TAP 24.36 RCA 106.10 APO 152.26 V2 35.233
RC 112.475 GL -42.24 GP 21.21 ZAL 103.35 ZAP 130.15 ETS 20.13 ZAE 136.24 ETE 154.33 ZAC 107.02 ETC 24.26 CLP-133.76

PLANETOCENTRIC CONIC
C3 13.927 VHL 3.732 DLA -30.70 RAL 143.44 RAD 6567.5 VEL 11.632 PTH 2.04 VHP 3.889 DPA 34.12 RAP 162.24 ECC 1.2292

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.61	7 29 5	1128.61	23.28	343.15	6.98	110.60	7 47 54	528.6	25.87	335.25
102.39	10 47 30	5778.27	23.29	273.99	6.99	110.59	12 23 48	5178.3	25.88	266.08
77.61	7 29 5	1128.61	23.28	343.15	6.98	110.60	7 47 54	528.6	25.87	335.25
102.39	10 47 30	5778.27	23.29	273.99	6.99	110.59	12 23 48	5178.3	25.88	266.08
110.00	9 42 3	695.74	14.30	307.01	2.37	121.38	9 53 39	95.7	18.35	300.24
110.00	13 33 42	5259.14	32.94	237.45	9.95	99.71	15 1 22	4659.1	33.93	228.35

DIFFERENTIAL CORRECTIONS
TDE-1.6167 TRA -.7512 TC3-3.4769 BAU .6571
RDE .4436 RRA .0413 RC3 .6061 FAU .11702
FDE-3.8647 FRA -.4636 FC3-7.2745 BSP 12008
BDE 1.6765 BRA .7524 BC3 3.5293 FSP -2216

MID-COURSE EXECUTION ACCURACY
SGT 3833.4 SGR 820.9 SG3 698.6
RRT -.9417 RRF -.9881 RTF .9656
SGB 3920.3 R23 .2206 R13 -.9688
SG1 3910.9 SG2 270.8 THA 168.54

ORBIT DETERMINATION ACCURACY
ST 2515.8 SR 681.5 SS 1996.4
CRT -.9917 CRS .9999 CST -.9929
LSA 3277.5 MSA 193.8 SSA 4.6
EL1 2605.1 EL2 84.5 ALF 164.95

LAUNCH DATE JUN 19 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 20 1967

DISTANCE 435.313

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.784 GAL -1.37 AZL 95.02 HCA 200.39 SMA 129.00 ECC .17989 INC 5.0245 V1 29.310
RP 107.54 LAP 1.75 LOP 107.37 VP 37.940 GAP 3.98 AZP 85.29 TAL 186.28 TAP 26.68 RCA 105.79 APO 152.20 V2 35.239
RC 114.720 GL -40.49 GP 17.54 ZAL 102.37 ZAP 133.75 ETS 18.58 ZAE 136.45 ETE 159.18 ZAC 107.98 ETC 22.90 CLP-136.49

PLANETOCENTRIC CONIC
C3 13.047 VHL 3.612 DLA -29.71 RAL 145.74 RAD 6567.5 VEL 11.595 PTH 2.03 VHP 3.946 DPA 30.56 RAP 161.06 ECC 1.2147

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.60	8 0 36	1043.22	22.89	336.63	8.01	109.48	8 18 0	443.2	25.34	328.70
99.40	10 34 17	5835.24	22.90	278.09	8.01	109.47	12 11 33	5235.2	25.35	270.16
100.00	10 11 22	620.50	20.91	304.81	7.20	111.86	10 21 42	20.5	23.69	297.12
100.00	11 6 13	5733.19	24.91	271.23	8.73	107.08	12 41 47	5133.2	27.01	263.06
110.00	9 36 5	731.79	13.01	309.01	3.02	121.89	9 48 17	131.8	17.13	302.32
110.00	13 57 59	5194.67	33.57	232.53	10.84	96.86	15 24 34	4594.7	34.15	223.33

DIFFERENTIAL CORRECTIONS
TDE-1.6145 TRA -.6833 TC3-3.9012 BAU .6852
RDE .3513 RRA .0219 RC3 .4629 FAU .11374
FDE-3.5788 FRA -.2663 FC3-7.5474 BSP 12463
BDE 1.6523 BRA .6836 BC3 3.9286 FSP -2166

MID-COURSE EXECUTION ACCURACY
SGT 4007.4 SGR 651.1 SG3 681.4
RRT -.9273 RRF -.9749 RTF .9655
SGB 4059.9 R23 .2041 R13 -.9674
SG1 4052.7 SG2 241.0 THA 171.40

ORBIT DETERMINATION ACCURACY
ST 2589.7 SR 557.4 SS 1937.1
CRT -.9923 CRS .9999 CST -.9929
LSA 3276.1 MSA 190.5 SSA 5.7
EL1 2648.1 EL2 67.7 ALF 167.94

LAUNCH DATE JUN 19 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 22 1967

DISTANCE 441.446

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.755 GAL -1.17 AZL 94.77 HCA 203.64 SMA 128.80 ECC .18124 INC 4.7703 V1 29.310
RP 107.52 LAP 1.91 LOP 110.62 VP 37.924 GAP 4.33 AZP 85.63 TAL 185.32 TAP 28.96 RCA 105.46 APO 152.15 V2 35.244
RC 116.961 GL -39.09 GP 14.83 ZAL 101.12 ZAP 136.89 ETS 17.34 ZAE 136.12 ETE 162.93 ZAC 108.36 ETC 21.74 CLP-139.05

PLANETOCENTRIC CONIC
C3 12.448 VHL 3.528 DLA -29.11 RAL 148.00 RAD 6567.5 VEL 11.569 PTH 2.02 VHP 4.037 DPA 27.80 RAP 160.57 ECC 1.2049

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.95	8 28 9	973.74	22.67	331.41	9.40	108.77	8 44 23	373.7	25.02	323.46
97.05	10 24 48	5884.58	22.67	281.65	9.40	108.76	12 2 53	5284.6	25.03	273.71
100.00	9 50 25	706.95	18.63	310.22	7.72	113.81	10 2 12	106.9	21.69	302.76
100.00	11 45 13	5626.60	26.84	263.90	10.73	103.69	13 19 0	5026.6	28.45	255.47
110.00	9 36 43	750.05	12.35	310.01	4.26	122.13	9 49 14	150.1	16.51	303.37
110.00	14 15 24	5156.26	33.84	229.56	12.08	95.12	15 41 20	4556.3	34.18	220.33

DIFFERENTIAL CORRECTIONS
TDE-1.6315 TRA -.6163 TC3-4.2799 BAU .7145
RDE .2917 RRA .0120 RC3 .3389 FAU .10895
FDE-3.3203 FRA -.0935 FC3-7.5772 BSP 12975
BDE 1.6574 BRA .6165 BC3 4.2933 FSP -2092

MID-COURSE EXECUTION ACCURACY
SGT 4177.7 SGR 531.2 SG3 656.2
RRT -.9027 RRF -.9511 RTF .9654
SGB 4211.3 R23 .1791 R13 -.9665
SG1 4205.2 SG2 227.1 THA 173.43

ORBIT DETERMINATION ACCURACY
ST 2673.3 SR 473.9 SS 1881.5
CRT -.9932 CRS .9999 CST -.9929
LSA 3297.9 MSA 186.9 SSA 6.8
EL1 2714.4 EL2 54.2 ALF 170.01

LAUNCH DATE JUN 19 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 24 1967

HELIOCENTRIC CONIC DISTANCE 447.560

RL 152.00 LAL -.00 LOL 267.05 VL 26.725 GAL -.96 AZL 94.57 HCA 206.88 SMA 128.60 ECC .18271 INC 4.5742 V1 29.310
RP 107.51 LAP 2.07 LOP 113.86 VP 37.907 GAP 4.68 AZP 85.92 TAL 184.32 TAP 31.20 RCA 105.11 APO 152.10 V2 35.248
RC 119.197 GL -37.92 GP 12.75 ZAL 99.65 ZAP 139.70 ETS 16.32 ZAE 135.54 ETE 165.84 ZAC 108.31 ETC 20.74 CLP-141.44

PLANETOCENTRIC CONIC

C3 12.026 VHL 3.468 DLA -28.78 RAL 150.28 RAD 6567.5 VEL 11.550 PTH 2.02 VHP 4.147 DPA 25.56 RAP 160.54 ECC 1.1979

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.66	8 51 2	922.03	22.57	327.57	11.08	108.34	9 6 24	322.0	24.87	319.61
95.34	10 20 7	633.66	22.58	306.44	11.08	108.33	10 30 41	33.7	24.88	298.49
100.00	9 48 22	735.90	17.82	311.99	9.10	114.40	10 0 38	135.9	20.97	304.61
100.00	12 5 28	5583.06	27.50	260.84	12.56	102.20	13 38 31	4983.1	28.90	252.31
110.00	9 41 24	757.83	12.07	310.44	5.89	122.23	9 54 2	157.8	16.24	303.81
110.00	14 28 55	5133.90	33.97	227.83	13.64	94.10	15 54 29	4533.9	34.16	218.59

DIFFERENTIAL CORRECTIONS
TDE-1.6580 TRA -.5442 TC3-4.6063 BAU .7415
RDE .2517 RRA .0074 RC3 .2314 FAU .10303
FDE-3.0844 FRA .0633 FC3-7.4168 BSP 13444
BDE 1.6770 BRA .5443 BC3 4.6121 FSP -1999

MID-COURSE EXECUTION ACCURACY
SGT 4331.7 SGR 446.0 SG3 625.7
RRT -.8625 RRF -.9112 RTF .9650
SGB 4354.6 R23 .1515 R13 -.9657
SG1 4348.7 SG2 224.8 THA 174.91

ORBIT DETERMINATION ACCURACY
ST 2758.3 SR 416.0 SS 1826.9
CRT -.9946 CRS .9997 CST -.9929
LSA 3329.4 MSA 183.0 SSA 7.9
EL1 2789.1 EL2 42.8 ALF 171.47

LAUNCH DATE JUN 19 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 26 1967

HELIOCENTRIC CONIC DISTANCE 453.655

RL 152.00 LAL -.00 LOL 267.05 VL 26.694 GAL -.74 AZL 94.42 HCA 210.13 SMA 128.40 ECC .18430 INC 4.4175 V1 29.310
RP 107.50 LAP 2.22 LOP 117.10 VP 37.888 GAP 5.03 AZP 86.18 TAL 183.29 TAP 33.42 RCA 104.73 APO 152.06 V2 35.252
RC 121.426 GL -36.89 GP 11.12 ZAL 98.02 ZAP 142.25 ETS 15.48 ZAE 134.86 ETE 168.11 ZAC 107.93 ETC 19.86 CLP-143.69

PLANETOCENTRIC CONIC

C3 11.729 VHL 3.425 DLA -28.64 RAL 152.61 RAD 6567.4 VEL 11.538 PTH 2.01 VHP 4.271 DPA 23.68 RAP 160.86 ECC 1.1930

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.56	9 7 39	893.11	22.57	325.44	13.00	108.10	9 22 32	293.1	24.84	317.48
94.44	10 22 5	652.08	22.59	307.80	13.00	108.08	10 32 57	52.1	24.85	299.83
100.00	9 53 30	744.24	17.59	312.50	10.92	114.57	10 5 55	144.2	20.75	305.13
100.00	12 18 55	5564.22	27.76	259.50	14.52	101.55	13 51 39	4964.2	29.08	250.94
110.00	9 48 53	758.77	12.04	310.49	7.82	122.24	10 1 32	158.8	16.21	303.87
110.00	14 40 1	5122.45	34.02	226.94	15.48	93.58	16 5 24	4522.5	34.14	217.69

DIFFERENTIAL CORRECTIONS
TDE-1.6929 TRA -.4670 TC3-4.8956 BAU .7680
RDE .2248 RRA .0064 RC3 .1410 FAU .09699
FDE-2.8755 FRA .2029 FC3-7.1587 BSP 13932
BDE 1.7077 BRA .4670 BC3 4.8976 FSP -1908

MID-COURSE EXECUTION ACCURACY
SGT 4478.6 SGR 388.4 SG3 594.4
RRT -.8046 RRF -.8524 RTF .9646
SGB 4495.4 R23 .1249 R13 -.9651
SG1 4489.5 SG2 230.1 THA 176.00

ORBIT DETERMINATION ACCURACY
ST 2846.5 SR 376.1 SS 1776.7
CRT -.9961 CRS .9992 CST -.9930
LSA 3371.7 MSA 179.0 SSA 9.0
EL1 2871.0 EL2 33.0 ALF 172.50

LAUNCH DATE JUN 19 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 28 1967

HELIOCENTRIC CONIC DISTANCE 459.733

RL 152.00 LAL -.00 LOL 267.05 VL 26.662 GAL -.51 AZL 94.29 HCA 213.37 SMA 128.18 ECC .18602 INC 4.2888 V1 29.310
RP 107.49 LAP 2.36 LOP 120.35 VP 37.868 GAP 5.37 AZP 86.42 TAL 182.22 TAP 35.60 RCA 104.34 APO 152.03 V2 35.255
RC 123.648 GL -35.96 GP 9.81 ZAL 96.22 ZAP 144.59 ETS 14.79 ZAE 134.14 ETE 169.91 ZAC 107.29 ETC 19.07 CLP-145.80

PLANETOCENTRIC CONIC

C3 11.527 VHL 3.395 DLA -28.64 RAL 155.01 RAD 6567.4 VEL 11.529 PTH 2.01 VHP 4.405 DPA 22.05 RAP 161.45 ECC 1.1897

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.53	9 17 2	890.05	22.65	325.25	15.14	108.00	9 31 52	290.0	24.91	317.27
94.47	10 31 49	647.89	22.67	307.52	15.15	107.99	10 42 37	47.9	24.91	299.54
100.00	10 3 9	740.30	17.70	312.26	13.09	114.49	10 15 30	140.3	20.85	304.89
100.00	12 28 22	5560.90	27.81	259.26	16.64	101.43	14 1 3	4960.9	29.10	250.70
110.00	9 58 29	755.00	12.17	310.29	10.01	122.19	10 11 4	155.0	16.34	303.65
110.00	14 49 32	5118.97	34.03	226.67	17.58	93.42	16 14 51	4519.0	34.13	217.42

DIFFERENTIAL CORRECTIONS
TDE-1.7317 TRA -.3808 TC3-5.1395 BAU .7921
RDE .2065 RRA .0075 RC3 .0643 FAU .09075
FDE-2.6853 FRA .3329 FC3-6.8152 BSP 14326
BDE 1.7440 BRA .3809 BC3 5.1399 FSP -1800

MID-COURSE EXECUTION ACCURACY
SGT 4610.4 SGR 351.5 SG3 562.3
RRT -.7290 RRF -.7746 RTF .9639
SGB 4623.8 R23 .1023 R13 -.9642
SG1 4617.5 SG2 240.2 THA 176.81

ORBIT DETERMINATION ACCURACY
ST 2932.4 SR 348.5 SS 1727.1
CRT -.9975 CRS .9981 CST -.9931
LSA 3416.6 MSA 175.0 SSA 10.1
EL1 2953.0 EL2 24.3 ALF 173.24

LAUNCH DATE JUN 19 1967 FLIGHT TIME 164.00 ARRIVAL DATE NOV 30 1967

HELIOCENTRIC CONIC DISTANCE 465.790

RL 152.00 LAL -.00 LOL 267.05 VL 26.629 GAL -.26 AZL 94.18 HCA 216.62 SMA 127.97 ECC .18788 INC 4.1804 V1 29.310
RP 107.48 LAP 2.49 LOP 123.60 VP 37.847 GAP 5.72 AZP 86.64 TAL 181.13 TAP 37.75 RCA 103.92 APO 152.01 V2 35.257
RC 125.861 GL -35.09 GP 8.74 ZAL 94.30 ZAP 146.75 ETS 14.20 ZAE 133.43 ETE 171.36 ZAC 106.44 ETC 18.37 CLP-147.79

PLANETOCENTRIC CONIC

C3 11.404 VHL 3.377 DLA -28.75 RAL 157.48 RAD 6567.4 VEL 11.524 PTH 2.01 VHP 4.547 DPA 20.60 RAP 162.26 ECC 1.1877

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.83	9 21 8	906.42	22.78	326.49	17.49	108.02	9 36 15	306.4	25.04	318.51
95.17	10 47 26	627.04	22.80	306.03	17.49	108.00	10 57 54	27.0	25.04	298.05
100.00	10 16 13	727.64	18.05	311.49	15.54	114.24	10 28 20	127.6	21.17	304.08
100.00	12 35 3	5569.08	27.70	259.84	18.93	101.72	14 7 52	4969.1	29.03	251.30
110.00	10 9 45	747.99	12.43	309.90	12.42	122.10	10 22 13	148.0	16.58	303.25
110.00	14 58 1	5121.50	34.02	226.86	19.91	93.54	16 23 22	4521.5	34.14	217.62

DIFFERENTIAL CORRECTIONS
TDE-1.7777 TRA -.2924 TC3-5.3600 BAU .8172
RDE .1949 RRA .0106 RC3 .0020 FAU .08512
FDE-2.5214 FRA .4387 FC3-6.4622 BSP 14797
BDE 1.7883 BRA .2926 BC3 5.3600 FSP -1716

MID-COURSE EXECUTION ACCURACY
SGT 4745.7 SGR 331.3 SG3 533.1
RRT -.6448 RRF -.6864 RTF .9638
SGB 4757.3 R23 .0825 R13 -.9640
SG1 4750.6 SG2 253.0 THA 177.42

ORBIT DETERMINATION ACCURACY
ST 3022.8 SR 330.7 SS 1684.4
CRT -.9987 CRS .9965 CST -.9933
LSA 3472.0 MSA 170.2 SSA 11.2
EL1 3040.8 EL2 17.1 ALF 173.76

```
LAUNCH DATE  JUN 19 1967                          FLIGHT TIME 166.00                          ARRIVAL DATE  DEC  2 1967

 HELIOCENTRIC CONIC                                DISTANCE     .000
  RL  152.00 LAL   -.00 LOL 267.05 VL  26.596 GAL    .00 AZL  94.09 HCA 219.87 SMA 127.75 ECC .18988 INC 4.0874 V1  29.310
  RP  107.48 LAP   2.62 LOP 126.85 VP  37.825 GAP   6.06 AZP  86.86 TAL 180.00 TAP  39.87 RCA 103.49 APO 152.00 V2  35.258
  RC 128.066 GL  -34.24 GP    7.87 ZAL  92.24 ZAP 148.75 ETS  13.71 ZAE 132.75 ETE 172.53 ZAC 105.40 ETC  17.73 CLP-149.66
 PLANETOCENTRIC CONIC
  C3  11.350 VHL  3.369 DLA -28.94 RAL 160.05 RAD 6567.4 VEL 11.521 PTH   2.01 VHP  4.695 DPA  19.27 RAP 163.25 ECC 1.1868
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     83.79     9 22 53    932.84      22.95     328.50      20.04      108.12    9 38 26     332.8      25.21     320.51
     96.21    11  6 11   5886.68      22.96     281.91      20.04      108.11   12 44 17    5286.7      25.22     273.92
    100.00    10 32 25    707.21      18.62     310.23      18.26      113.82   10 44 12     107.2      21.68     302.77
    100.00    12 39 20   5587.54      27.44     261.15      21.39      102.36   14 12 27    4987.5      28.86     252.64
    110.00    10 22 27    738.55      12.77     309.38      15.05      121.98   10 34 46     138.6      16.90     302.71
    110.00    15  5 47   5128.96      33.99     227.44      22.47       93.88   16 31 16    4529.0      34.15     218.20
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE-1.8556 TRA -.1565 TC3-5.9596 BAU  .9043      SGT 5116.3 SGR  327.3 SG3  562.7            ST  3159.6 SR   326.7 SS  1707.6
  RDE  .1921 RRA  .0110 RC3 -.0007 FAU .09407      RRT -.6182 RRF -.6290 RTF  .9685            CRT -.9992 CRS  .9938 CST -.9933
  FDE-2.4646 FRA  .6246 FC3-7.1752 BSP  15873      SGB 5126.8 R23  .0366 R13 -.9686            LSA 3602.1 MSA  173.5 SSA   12.3
  BDE 1.8656 BRA  .1569 BC3 5.9596 FSP  -1847      SG1 5120.3 SG2  257.1 THA 177.73            EL1 3176.4 EL2   12.8 ALF 174.10

LAUNCH DATE  JUN 19 1967                          FLIGHT TIME 168.00                          ARRIVAL DATE  DEC  4 1967

 HELIOCENTRIC CONIC                                DISTANCE 477.848
  RL  152.00 LAL   -.00 LOL 267.05 VL  26.561 GAL    .27 AZL  94.01 HCA 223.12 SMA 127.52 ECC .19202 INC 4.0062 V1  29.310
  RP  107.48 LAP   2.74 LOP 130.10 VP  37.801 GAP   6.41 AZP  87.07 TAL 178.86 TAP  41.97 RCA 103.04 APO 152.01 V2  35.259
  RC 130.261 GL  -33.41 GP    7.13 ZAL  90.09 ZAP 150.62 ETS  13.30 ZAE 132.11 ETE 173.49 ZAC 104.21 ETC  17.15 CLP-151.43
 PLANETOCENTRIC CONIC
  C3  11.360 VHL  3.371 DLA -29.17 RAL 162.68 RAD 6567.4 VEL 11.522 PTH   2.01 VHP  4.849 DPA  18.03 RAP 164.38 ECC 1.1870
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     82.69     9 24 38    961.23      23.12     330.65      22.75      108.29    9 40 39     361.2      25.41     322.66
     97.31    11 25 27   5858.68      23.13     279.91      22.75      108.28   13  3  5    5258.7      25.42     271.91
    100.00    10 51 10    680.67      19.34     308.59      21.21      113.25   11  2 31      80.7      22.32     301.06
    100.00    12 41 36   5614.47      27.03     263.05      23.97      103.28   14 15 10    5014.5      28.59     254.60
    110.00    10 36  5    728.17      13.14     308.81      17.84      121.84   10 48 13     128.2      17.26     302.12
    110.00    15 13 11   5139.74      33.94     228.28      25.21       94.37   16 38 50    4539.7      34.17     219.04
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE-1.8755 TRA -.0812 TC3-5.6485 BAU  .8580      SGT 4968.7 SGR  321.8 SG3  475.0            ST  3190.6 SR   313.6 SS  1598.0
  RDE  .1844 RRA  .0186 RC3 -.0941 FAU .07353      RRT -.4774 RRF -.5111 RTF  .9621            CRT -.9989 CRS  .9905 CST -.9936
  FDE-2.2321 FRA  .6421 FC3-5.6037 BSP  15411      SGB 4979.1 R23  .0573 R13 -.9622            LSA 3578.4 MSA  162.5 SSA   13.3
  BDE 1.8845 BRA  .0833 BC3 5.6492 FSP  -1507      SG1 4971.0 SG2  282.7 THA 178.22            EL1 3205.9 EL2   14.4 ALF 174.39

LAUNCH DATE  JUN 19 1967                          FLIGHT TIME 170.00                          ARRIVAL DATE  DEC  6 1967

 HELIOCENTRIC CONIC                                DISTANCE 483.846
  RL  152.00 LAL   -.00 LOL 267.05 VL  26.526 GAL    .56 AZL  93.93 HCA 226.36 SMA 127.30 ECC .19432 INC 3.9343 V1  29.310
  RP  107.48 LAP   2.85 LOP 133.35 VP  37.777 GAP   6.76 AZP  87.28 TAL 177.68 TAP  44.04 RCA 102.56 APO 152.03 V2  35.259
  RC 132.447 GL  -32.56 GP    6.51 ZAL  87.84 ZAP 152.38 ETS  12.96 ZAE 131.53 ETE 174.28 ZAC 102.89 ETC  16.62 CLP-153.10
 PLANETOCENTRIC CONIC
  C3  11.435 VHL  3.382 DLA -29.44 RAL 165.41 RAD 6567.4 VEL 11.525 PTH   2.01 VHP  5.008 DPA  16.86 RAP 165.64 ECC 1.1882
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     81.59     9 26 49    990.51      23.30     332.88      25.64      108.52    9 43 19     390.5      25.61     324.88
     98.41    11 45  1   5832.10      23.31     278.01      25.65      108.50   13 22 13    5232.1      25.62     270.01
    100.00    11 13 33    644.88      20.29     306.35      24.43      112.44   11 24 18      44.9      23.15     298.73
    100.00    12 40 59   5652.97      26.40     265.74      26.66      104.56   14 15 11    5053.0      28.14     257.37
    110.00    10 50 40    716.96      13.54     308.19      20.83      121.69   11  2 37     117.0      17.64     301.47
    110.00    15 20 21   5153.65      33.86     229.36      28.14       95.01   16 46 14    4553.7      34.18     220.13
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE-1.9304 TRA  .0332 TC3-5.7548 BAU  .8799      SGT 5084.3 SGR  326.8 SG3  450.7            ST  3273.0 SR   312.4 SS  1560.6
  RDE  .1842 RRA  .0235 RC3 -.1263 FAU .06883      RRT -.4125 RRF -.4412 RTF  .9622            CRT -.9978 CRS  .9864 CST -.9938
  FDE-2.1132 FRA  .7212 FC3-5.2114 BSP  15856      SGB 5094.8 R23  .0471 R13 -.9623            LSA 3635.9 MSA  157.9 SSA   14.4
  BDE 1.9392 BRA  .0407 BC3 5.7562 FSP  -1445      SG1 5086.1 SG2  297.6 THA 178.48            EL1 3287.8 EL2   20.7 ALF 174.56

LAUNCH DATE  JUN 19 1967                          FLIGHT TIME 172.00                          ARRIVAL DATE  DEC  8 1967

 HELIOCENTRIC CONIC                                DISTANCE 489.822
  RL  152.00 LAL   -.00 LOL 267.05 VL  26.491 GAL    .86 AZL  93.87 HCA 229.61 SMA 127.07 ECC .19679 INC 3.8698 V1  29.310
  RP  107.48 LAP   2.95 LOP 136.60 VP  37.751 GAP   7.11 AZP  87.49 TAL 176.48 TAP  46.09 RCA 102.06 APO 152.07 V2  35.258
  RC 134.624 GL  -31.70 GP    5.97 ZAL  85.51 ZAP 154.04 ETS  12.68 ZAE 130.99 ETE 174.95 ZAC 101.46 ETC  16.13 CLP-154.70
 PLANETOCENTRIC CONIC
  C3  11.573 VHL  3.402 DLA -29.73 RAL 168.22 RAD 6567.4 VEL 11.531 PTH   2.01 VHP  5.172 DPA  15.73 RAP 167.01 ECC 1.1905
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     80.56     9 29 58   1018.80      23.47     335.04      28.71      108.79    9 46 56     418.8      25.81     327.04
     99.44    12  4 16   5808.82      23.48     276.34      28.71      108.78   13 41  5    5208.8      25.82     268.34
    100.00    11 41 57   5880.16      21.62     280.91      27.98      111.16   13 19 57    5280.2      24.30     273.14
    100.00    12 34 58   5710.74      25.35     269.71      29.36      106.40   14 10  9    5110.7      27.35     261.48
    110.00    11  5 55    705.80      13.94     307.57      23.99      121.53   11 17 41     105.8      18.01     300.82
    110.00    15 27 29   5169.82      33.76     230.61      31.25       95.74   16 53 39    4569.8      34.18     221.39
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE-1.9882 TRA  .1567 TC3-5.8174 BAU  .9004      SGT 5193.4 SGR  335.1 SG3  427.6            ST  3351.8 SR   314.5 SS  1524.7
  RDE  .1865 RRA  .0285 RC3 -.1511 FAU .06427      RRT -.3608 RRF -.3857 RTF  .9622            CRT -.9958 CRS  .9815 CST -.9941
  FDE-2.0062 FRA  .7949 FC3-4.8074 BSP  16252      SGB 5204.2 R23  .0399 R13 -.9622            LSA 3692.5 MSA  154.0 SSA   15.3
  BDE 1.9969 BRA  .1592 BC3 5.8193 FSP  -1379      SG1 5194.8 SG2  312.4 THA 178.66            EL1 3366.4 EL2   28.8 ALF 174.66
```

LAUNCH DATE JUN 19 1967 FLIGHT TIME 174.00 ARRIVAL DATE DEC 10 1967

HELIOCENTRIC CONIC DISTANCE 495.777

RL 152.00 LAL -.00 LOL 267.05 VL 26.455 GAL 1.18 AZL 93.81 HCA 232.86 SMA 126.84 ECC .19943 INC 3.8112 V1 29.310
RP 107.48 LAP 3.04 LOP 139.85 VP 37.724 GAP 7.47 AZP 87.70 TAL 175.27 TAP 48.12 RCA 101.54 APO 152.13 V2 35.256
RC 136.791 GL -30.81 GP 5.52 ZAL 83.11 ZAP 155.62 ETS 12.47 ZAE 130.49 ETE 175.50 ZAC 99.93 ETC 15.68 CLP-156.21

PLANETOCENTRIC CONIC

C3 11.779 VHL 3.432 DLA -30.01 RAL 171.09 RAD 6567.4 VEL 11.540 PTH 2.01 VHP 5.342 DPA 14.63 RAP 168.47 ECC 1.1938

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.61	9 34 12	1045.63	23.60	337.08	31.93	109.10	9 51 37	445.6	25.99	329.09
100.39	12 23 0	5789.35	23.62	274.95	31.93	109.08	13 59 30	5189.4	26.00	266.95
79.61	9 34 12	1045.63	23.60	337.08	31.93	109.10	9 51 37	445.6	25.99	329.09
100.39	12 23 0	5789.35	23.62	274.95	31.93	109.08	13 59 30	5189.4	26.00	266.95
110.00	11 21 38	695.33	14.31	306.99	27.30	121.38	11 33 13	95.3	18.36	300.21
110.00	15 34 44	5187.65	33.63	231.99	34.52	96.54	17 1 12	4587.7	34.17	222.79

DIFFERENTIAL CORRECTIONS
TDE-2.0444 TRA .2900 TC3-5.8337 BAU .9190
RDE .1907 RRA .0334 RC3 -.1691 FAU .05986
FDE-1.9032 FRA .8626 FC3-4.3996 BSP 16585
BDE 2.0533 BRA .2920 BC3 5.8362 FSP -1309

MID-COURSE EXECUTION ACCURACY
SGT 5291.1 SGR 345.0 SG3 405.1
RRT -.3210 RRF -.3425 RTF .9621
SGB 5302.3 R23 .0343 R13 -.9622
SG1 5292.3 SG2 326.7 THA 178.80

ORBIT DETERMINATION ACCURACY
ST 3419.2 SR 319.0 SS 1485.0
CRT -.9929 CRS .9759 CST -.9943
LSA 3738.4 MSA 150.6 SSA 16.2
EL1 3433.9 EL2 37.7 ALF 174.71

LAUNCH DATE JUN 19 1967 FLIGHT TIME 176.00 ARRIVAL DATE DEC 12 1967

HELIOCENTRIC CONIC DISTANCE 501.708

RL 152.00 LAL -.00 LOL 267.05 VL 26.419 GAL 1.51 AZL 93.76 HCA 236.11 SMA 126.61 ECC .20225 INC 3.7574 V1 29.310
RP 107.49 LAP 3.12 LOP 143.10 VP 37.697 GAP 7.82 AZP 87.90 TAL 174.03 TAP 50.14 RCA 102.21 V2 35.254
RC 138.949 GL -29.90 GP 5.12 ZAL 80.65 ZAP 157.11 ETS 12.31 ZAE 130.04 ETE 175.97 ZAC 98.30 ETC 15.27 CLP-157.66

PLANETOCENTRIC CONIC

C3 12.055 VHL 3.472 DLA -30.29 RAL 174.04 RAD 6567.5 VEL 11.552 PTH 2.02 VHP 5.517 DPA 13.57 RAP 170.00 ECC 1.1984

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.76	9 39 36	1070.64	23.70	338.98	35.29	109.44	9 57 27	470.6	26.14	331.00
101.24	12 41 4	5774.10	23.71	273.85	35.30	109.42	14 17 18	5174.1	26.14	265.86
78.76	9 39 36	1070.64	23.70	338.98	35.29	109.44	9 57 27	470.6	26.14	331.00
101.24	12 41 4	5774.10	23.71	273.85	35.30	109.42	14 17 18	5174.1	26.14	265.86
110.00	11 37 35	686.19	14.64	306.48	30.75	121.24	11 49 1	86.2	18.67	299.68
110.00	15 42 16	5206.55	33.47	233.44	37.94	97.39	17 9 2	4606.6	34.13	224.26

DIFFERENTIAL CORRECTIONS
TDE-2.1010 TRA .4343 TC3-5.8083 BAU .9366
RDE .1969 RRA .0380 RC3 -.1808 FAU .05568
FDE-1.8080 FRA .9280 FC3-3.9988 BSP 16899
BDE 2.1102 BRA .4359 BC3 5.8111 FSP -1244

MID-COURSE EXECUTION ACCURACY
SGT 5383.1 SGR 355.8 SG3 384.0
RRT -.2923 RRF -.3111 RTF .9619
SGB 5394.8 R23 .0301 R13 -.9619
SG1 5384.1 SG2 340.2 THA 178.89

ORBIT DETERMINATION ACCURACY
ST 3478.1 SR 325.7 SS 1445.2
CRT -.9893 CRS .9698 CST -.9945
LSA 3777.5 MSA 148.3 SSA 16.9
EL1 3493.0 EL2 47.2 ALF 174.71

LAUNCH DATE JUN 19 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 14 1967

HELIOCENTRIC CONIC DISTANCE 507.615

RL 152.00 LAL -.00 LOL 267.05 VL 26.383 GAL 1.86 AZL 93.71 HCA 239.35 SMA 126.37 ECC .20527 INC 3.7077 V1 29.310
RP 107.50 LAP 3.19 LOP 146.35 VP 37.668 GAP 8.19 AZP 88.11 TAL 172.78 TAP 52.13 RCA 100.43 APO 152.31 V2 35.251
RC 141.095 GL -28.95 GP 4.77 ZAL 78.15 ZAP 158.53 ETS 12.21 ZAE 129.63 ETE 176.37 ZAC 96.60 ETC 14.89 CLP-159.05

PLANETOCENTRIC CONIC

C3 12.408 VHL 3.523 DLA -30.55 RAL 177.03 RAD 6567.5 VEL 11.567 PTH 2.02 VHP 5.698 DPA 12.51 RAP 171.61 ECC 1.2042

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.03	9 46 8	1093.92	23.75	340.74	38.79	109.79	10 4 22	493.9	26.23	332.77
101.97	12 58 24	5763.05	23.77	273.04	38.79	109.78	14 34 27	5163.0	26.24	265.06
78.03	9 46 8	1093.92	23.75	340.74	38.79	109.79	10 4 22	493.9	26.23	332.77
101.97	12 58 24	5763.05	23.77	273.04	38.79	109.78	14 34 27	5163.0	26.24	265.06
110.00	11 53 32	679.01	14.89	306.07	34.32	121.13	12 4 51	79.0	18.90	299.26
110.00	15 50 11	5225.96	33.29	234.93	41.49	98.25	17 17 17	4626.0	34.07	225.77

DIFFERENTIAL CORRECTIONS
TDE-2.1577 TRA .5869 TC3-5.7454 BAU .9536
RDE .2048 RRA .0422 RC3 -.1868 FAU .05181
FDE-1.7193 FRA .9857 FC3-3.6151 BSP 17217
BDE 2.1674 BRA .5884 BC3 5.7484 FSP -1185

MID-COURSE EXECUTION ACCURACY
SGT 5470.8 SGR 367.0 SG3 364.2
RRT -.2732 RRF -.2897 RTF .9620
SGB 5483.1 R23 .0269 R13 -.9620
SG1 5471.7 SG2 352.9 THA 178.95

ORBIT DETERMINATION ACCURACY
ST 3527.4 SR 334.0 SS 1404.4
CRT -.9852 CRS .9634 CST -.9947
LSA 3808.5 MSA 146.5 SSA 17.6
EL1 3542.7 EL2 57.0 ALF 174.67

LAUNCH DATE JUN 19 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 16 1967

HELIOCENTRIC CONIC DISTANCE 513.496

RL 152.00 LAL -.00 LOL 267.05 VL 26.346 GAL 2.22 AZL 93.66 HCA 242.60 SMA 126.14 ECC .20851 INC 3.6611 V1 29.310
RP 107.51 LAP 3.25 LOP 149.60 VP 37.639 GAP 8.56 AZP 88.31 TAL 171.51 TAP 54.10 RCA 99.84 APO 152.44 V2 35.247
RC 143.232 GL -27.97 GP 4.47 ZAL 75.63 ZAP 159.90 ETS 12.17 ZAE 129.25 ETE 176.71 ZAC 94.84 ETC 14.54 CLP-160.38

PLANETOCENTRIC CONIC

C3 12.844 VHL 3.584 DLA -30.77 RAL 180.06 RAD 6567.5 VEL 11.586 PTH 2.03 VHP 5.885 DPA 11.47 RAP 173.27 ECC 1.2114

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.42	9 53 47	1115.35	23.75	342.35	42.40	110.17	10 12 22	515.3	26.28	334.39
102.58	13 14 55	5756.39	23.76	272.54	42.40	110.15	14 50 51	5156.4	26.29	264.58
77.42	9 53 47	1115.35	23.75	342.35	42.40	110.17	10 12 22	515.3	26.28	334.39
102.58	13 14 55	5756.39	23.76	272.54	42.40	110.15	14 50 51	5156.4	26.29	264.58
110.00	12 9 16	674.37	15.05	305.81	37.98	121.06	12 20 30	74.4	19.06	298.99
110.00	15 58 37	5245.35	33.09	236.41	45.17	99.11	17 26 2	4645.4	33.99	227.28

DIFFERENTIAL CORRECTIONS
TDE-2.2099 TRA .7541 TC3-5.6323 BAU .9677
RDE .2143 RRA .0457 RC3 -.1881 FAU .04799
FDE-1.6325 FRA 1.0443 FC3-3.2349 BSP 17444
BDE 2.2203 BRA .7555 BC3 5.6354 FSP -1124

MID-COURSE EXECUTION ACCURACY
SGT 5545.2 SGR 377.8 SG3 345.2
RRT -.2608 RRF -.2756 RTF .9617
SGB 5558.0 R23 .0245 R13 -.9618
SG1 5546.0 SG2 364.7 THA 178.98

ORBIT DETERMINATION ACCURACY
ST 3560.1 SR 343.5 SS 1360.2
CRT -.9804 CRS .9564 CST -.9949
LSA 3823.7 MSA 146.2 SSA 18.1
EL1 3576.0 EL2 67.4 ALF 174.59

LAUNCH DATE JUN 19 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 18 1967

DISTANCE 519.349

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.309 GAL 2.60 AZL 93.62 HCA 245.84 SMA 125.91 ECC .21197 INC 3.6172 V1 29.310
RP 107.53 LAP 3.30 LOP 152.85 VP 37.609 GAP 8.94 AZP 88.52 TAL 170.22 TAP 56.07 RCA 99.22 APO 152.60 V2 35.243
RC 145.356 GL -26.97 GP 4.20 ZAL 73.08 ZAP 161.20 ETS 12.18 ZAE 128.91 ETE 177.00 ZAC 93.01 ETC 14.23 CLP-161.66

PLANETOCENTRIC CONIC
C3 13.371 VHL 3.657 DLA -30.96 RAL 183.10 RAD 6567.5 VEL 11.609 PTH 2.03 VHP 6.079 DPA 10.44 RAP 174.99 ECC 1.2201

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.94	10 2 27	1135.07	23.68	343.80	46.11	110.55	10 21 22	535.1	26.26	335.86
103.06	13 30 34	5754.04	23.69	272.34	46.11	110.53	15 6 28	5154.0	26.27	264.40
76.94	10 2 27	1135.07	23.68	343.80	46.11	110.55	10 21 22	535.1	26.26	335.86
103.06	13 30 34	5754.04	23.69	272.34	46.11	110.53	15 6 28	5154.0	26.27	264.40
110.00	12 24 32	672.88	15.10	305.73	41.72	121.04	12 35 44	72.9	19.11	298.90
110.00	16 7 40	5264.22	32.88	237.84	48.95	99.93	17 35 24	4664.2	33.90	228.75

DIFFERENTIAL CORRECTIONS
TDE-2.2634 TRA .9289 TC3-5.4925 BAU .9824
RDE .2253 RRA .0487 RC3 -.1849 FAU .04456
FDE-1.5536 FRA 1.0960 FC3-2.8852 BSP 17712
BDE 2.2746 BRA .9302 BC3 5.4956 FSP -1070

MID-COURSE EXECUTION ACCURACY
SGT 5620.8 SGR 388.3 SG3 327.7
RRT -.2555 RRF -.2688 RTF .9619
SGB 5634.2 R23 .0226 R13 -.9619
SG1 5621.6 SG2 375.4 THA 178.98

ORBIT DETERMINATION ACCURACY
ST 3584.9 SR 354.0 SS 1317.3
CRT -.9753 CRS .9494 CST -.9950
LSA 3832.8 MSA 146.6 SSA 18.3
EL1 3601.4 EL2 77.8 ALF 174.50

LAUNCH DATE JUN 19 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 20 1967

DISTANCE 525.173

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.272 GAL 3.01 AZL 93.58 HCA 249.09 SMA 125.68 ECC .21568 INC 3.5756 V1 29.310
RP 107.54 LAP 3.34 LOP 156.10 VP 37.578 GAP 9.32 AZP 88.72 TAL 168.93 TAP 58.02 RCA 98.57 APO 152.78 V2 35.237
RC 147.469 GL -25.93 GP 3.97 ZAL 70.54 ZAP 162.46 ETS 12.27 ZAE 128.60 ETE 177.25 ZAC 91.13 ETC 13.94 CLP-162.90

PLANETOCENTRIC CONIC
C3 13.999 VHL 3.741 DLA -31.10 RAL 186.16 RAD 6567.6 VEL 11.635 PTH 2.04 VHP 6.280 DPA 9.41 RAP 176.74 ECC 1.2304

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.58	10 12 4	1153.16	23.54	345.11	49.90	110.93	10 31 18	553.2	26.17	337.20
103.42	13 45 19	5755.99	23.55	272.42	49.90	110.91	15 21 15	5156.0	26.18	264.51
76.58	10 12 4	1153.16	23.54	345.11	49.90	110.93	10 31 18	553.2	26.17	337.20
103.42	13 45 19	5755.99	23.55	272.42	49.90	110.91	15 21 15	5156.0	26.18	264.51
110.00	12 39 7	675.03	15.03	305.85	45.51	121.07	12 50 22	75.0	19.04	299.02
110.00	16 17 27	5282.12	32.66	239.19	52.82	100.70	17 45 29	4682.1	33.79	230.13

DIFFERENTIAL CORRECTIONS
TDE-2.3150 TRA 1.1145 TC3-5.3199 BAU .9962
RDE .2377 RRA .0508 RC3 -.1783 FAU .04132
FDE-1.4787 FRA 1.1444 FC3-2.5552 BSP 17979
BDE 2.3272 BRA 1.1156 BC3 5.3229 FSP -1022

MID-COURSE EXECUTION ACCURACY
SGT 5691.0 SGR 398.2 SG3 311.2
RRT -.2552 RRF -.2672 RTF .9620
SGB 5704.9 R23 .0213 R13 -.9620
SG1 5691.9 SG2 385.0 THA 178.97

ORBIT DETERMINATION ACCURACY
ST 3597.1 SR 365.1 SS 1273.4
CRT -.9699 CRS .9423 CST -.9952
LSA 3830.4 MSA 148.2 SSA 18.5
EL1 3614.5 EL2 88.4 ALF 174.37

LAUNCH DATE JUN 19 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 22 1967

DISTANCE 530.964

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.234 GAL 3.43 AZL 93.54 HCA 252.33 SMA 125.44 ECC .21966 INC 3.5356 V1 29.310
RP 107.56 LAP 3.37 LOP 159.35 VP 37.546 GAP 9.72 AZP 88.93 TAL 167.63 TAP 59.96 RCA 97.89 APO 153.00 V2 35.231
RC 149.570 GL -24.88 GP 3.76 ZAL 68.01 ZAP 163.67 ETS 12.42 ZAE 128.31 ETE 177.46 ZAC 89.21 ETC 13.68 CLP-164.10

PLANETOCENTRIC CONIC
C3 14.738 VHL 3.839 DLA -31.19 RAL 189.20 RAD 6567.6 VEL 11.667 PTH 2.05 VHP 6.489 DPA 8.38 RAP 178.54 ECC 1.2426

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.35	10 22 36	1169.63	23.32	346.26	53.76	111.31	10 42 6	569.6	26.01	338.38
103.65	13 59 4	5762.30	23.34	272.81	53.76	111.30	15 35 6	5162.3	26.02	264.93
76.35	10 22 36	1169.63	23.32	346.26	53.76	111.31	10 42 6	569.6	26.01	338.38
103.65	13 59 4	5762.30	23.34	272.81	53.76	111.30	15 35 6	5162.3	26.02	264.93
110.00	12 52 51	681.22	14.81	306.20	49.32	121.17	13 4 12	81.2	18.83	299.39
110.00	16 27 59	5298.70	32.44	240.43	56.78	101.41	17 56 18	4698.7	33.67	231.42

DIFFERENTIAL CORRECTIONS
TDE-2.3636 TRA 1.3123 TC3-5.1164 BAU 1.0086
RDE .2515 RRA .0521 RC3 -.1688 FAU .03825
FDE-1.4074 FRA 1.1910 FC3-2.2469 BSP 18219
BDE 2.3769 BRA 1.3133 BC3 5.1192 FSP -976

MID-COURSE EXECUTION ACCURACY
SGT 5754.7 SGR 407.4 SG3 295.6
RRT -.2589 RRF -.2698 RTF .9621
SGB 5769.2 R23 .0202 R13 -.9622
SG1 5755.7 SG2 393.4 THA 178.94

ORBIT DETERMINATION ACCURACY
ST 3595.7 SR 376.4 SS 1228.7
CRT -.9642 CRS .9350 CST -.9953
LSA 3815.4 MSA 151.1 SSA 18.4
EL1 3614.0 EL2 99.3 ALF 174.23

LAUNCH DATE JUN 19 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 24 1967

DISTANCE 536.722

HELIOCENTRIC CONIC
RL 152.00 LAL -.00 LOL 267.05 VL 26.197 GAL 3.87 AZL 93.50 HCA 255.57 SMA 125.21 ECC .22392 INC 3.4971 V1 29.310
RP 107.58 LAP 3.39 LOP 162.60 VP 37.514 GAP 10.13 AZP 89.13 TAL 166.31 TAP 61.89 RCA 97.17 APO 153.25 V2 35.225
RC 151.657 GL -23.81 GP 3.57 ZAL 65.50 ZAP 164.85 ETS 12.66 ZAE 128.05 ETE 177.65 ZAC 87.24 ETC 13.44 CLP-165.26

PLANETOCENTRIC CONIC
C3 15.602 VHL 3.950 DLA -31.23 RAL 192.22 RAD 6567.6 VEL 11.704 PTH 2.06 VHP 6.706 DPA 7.36 RAP 180.38 ECC 1.2568

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.25	10 33 56	1184.57	23.03	347.26	57.66	111.69	10 53 41	584.6	25.77	339.42
103.75	14 11 46	5772.91	23.05	273.49	57.67	111.67	15 47 59	5172.9	25.78	265.65
76.25	10 33 56	1184.57	23.03	347.26	57.66	111.69	10 53 41	584.6	25.77	339.42
103.75	14 11 46	5772.91	23.05	273.49	57.67	111.67	15 47 59	5172.9	25.78	265.65
110.00	13 5 34	691.72	14.44	306.79	53.14	121.32	13 17 6	91.7	18.48	300.00
110.00	16 39 19	5313.75	32.24	241.56	60.81	102.04	18 7 53	4713.7	33.56	232.57

DIFFERENTIAL CORRECTIONS
TDE-2.4063 TRA 1.5253 TC3-4.8786 BAU 1.0181
RDE .2665 RRA .0523 RC3 -.1575 FAU .03520
FDE-1.3367 FRA 1.2383 FC3-1.9534 BSP 18367
BDE 2.4210 BRA 1.5262 BC3 4.8811 FSP -926

MID-COURSE EXECUTION ACCURACY
SGT 5807.9 SGR 415.6 SG3 280.7
RRT -.2653 RRF -.2750 RTF .9620
SGB 5822.8 R23 .0192 R13 -.9620
SG1 5809.0 SG2 400.7 THA 178.91

ORBIT DETERMINATION ACCURACY
ST 3577.7 SR 387.5 SS 1181.6
CRT -.9581 CRS .9271 CST -.9954
LSA 3784.4 MSA 155.5 SSA 18.3
EL1 3596.9 EL2 110.4 ALF 174.07

LAUNCH DATE JUN 19 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 26 1967

HELIOCENTRIC CONIC DISTANCE 542.441

RL 152.00 LAL -.00 LOL 267.05 VL 26.160 GAL 4.34 AZL 93.46 HCA 258.81 SMA 124.98 ECC .22849 INC 3.4598 V1 29.310
RP 107.60 LAP 3.39 LOP 165.84 VP 37.481 GAP 10.55 AZP 89.53 TAL 164.99 TAP 63.81 RCA 96.42 APO 153.54 V2 35.217
RC 153.730 GL -22.73 GP 3.40 ZAL 63.02 ZAP 165.98 ETS 12.99 ZAE 127.80 ETE 177.80 ZAC 85.24 ETC 13.24 CLP-166.39

PLANETOCENTRIC CONIC

C3 16.605 VHL 4.075 DLA -31.21 RAL 195.19 RAD 6567.7 VEL 11.747 PTH 2.07 VHP 6.934 DPA 6.34 RAP 182.24 ECC 1.2733

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.29	10 46 3	1197.93	22.67	348.11	61.60	112.05	11 6 1	597.9	25.46	340.31
103.71	14 23 22	5787.89	22.68	274.46	61.61	112.04	15 59 50	5187.9	25.47	266.66
76.29	10 46 3	1197.93	22.67	348.11	61.60	112.05	11 6 1	597.9	25.46	340.31
103.71	14 23 22	5787.89	22.68	274.46	61.61	112.04	15 59 50	5187.9	25.47	266.66
110.00	13 17 11	706.67	13.91	307.62	56.95	121.54	13 28 58	106.7	17.98	300.87
110.00	16 51 24	5327.15	32.04	242.55	64.89	102.60	18 20 11	4727.2	33.44	233.60

DIFFERENTIAL CORRECTIONS
TDE-2.4500 TRA 1.7472 TC3-4.6299 BAU 1.0283
RDE .2827 RRA .0514 RC3 -.1444 FAU .03248
FDE-1.2730 FRA 1.2805 FC3-1.6937 BSP 18586
BDE 2.4662 BRA 1.7479 BC3 4.6321 FSP -885

MID-COURSE EXECUTION ACCURACY
SGT 5861.3 SGR 423.1 SG3 266.9
RRT -.2753 RRF -.2840 RTF .9622
SGB 5876.6 R23 .0185 R13 -.9623
SG1 5862.5 SG2 406.7 THA 178.86

ORBIT DETERMINATION ACCURACY
ST 3552.8 SR 398.4 SS 1137.4
CRT -.9519 CRS .9195 CST -.9955
LSA 3748.2 MSA 160.3 SSA 17.9
EL1 3573.0 EL2 121.4 ALF 173.90

LAUNCH DATE JUN 19 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 28 1967

HELIOCENTRIC CONIC DISTANCE 548.119

RL 152.00 LAL -.00 LOL 267.05 VL 26.123 GAL 4.83 AZL 93.42 HCA 262.05 SMA 124.75 ECC .23340 INC 3.4233 V1 29.310
RP 107.63 LAP 3.39 LOP 169.09 VP 37.448 GAP 10.99 AZP 89.53 TAL 163.67 TAP 65.72 RCA 95.63 APO 153.87 V2 35.210
RC 155.789 GL -21.64 GP 3.25 ZAL 60.59 ZAP 167.09 ETS 13.43 ZAE 127.58 ETE 177.93 ZAC 83.21 ETC 13.06 CLP-167.50

PLANETOCENTRIC CONIC

C3 17.764 VHL 4.215 DLA -31.15 RAL 198.10 RAD 6567.7 VEL 11.796 PTH 2.09 VHP 7.172 DPA 5.32 RAP 184.13 ECC 1.2924

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.45	10 58 48	1209.95	22.22	348.81	65.56	112.41	11 18 58	609.9	25.06	341.07
103.55	14 33 51	5807.05	22.23	275.70	65.56	112.40	16 10 39	5207.1	25.07	267.95
76.45	10 58 48	1209.95	22.22	348.81	65.56	112.41	11 18 58	609.9	25.06	341.07
103.55	14 33 51	5807.05	22.23	275.70	65.56	112.40	16 10 39	5207.1	25.07	267.95
110.00	13 27 40	726.01	13.22	308.69	60.73	121.81	13 39 46	126.0	17.33	301.99
110.00	17 4 11	5338.99	31.86	243.43	69.02	103.09	18 33 10	4739.0	33.33	234.51

DIFFERENTIAL CORRECTIONS
TDE-2.4908 TRA 1.9825 TC3-4.3639 BAU 1.0368
RDE .3001 RRA .0494 RC3 -.1304 FAU .02989
FDE-1.2127 FRA 1.3220 FC3-1.4566 BSP 18791
BDE 2.5089 BRA 1.9831 BC3 4.3658 FSP -847

MID-COURSE EXECUTION ACCURACY
SGT 5908.8 SGR 429.7 SG3 253.9
RRT -.2875 RRF -.2952 RTF .9625
SGB 5924.4 R23 .0179 R13 -.9625
SG1 5910.1 SG2 411.5 THA 178.80

ORBIT DETERMINATION ACCURACY
ST 3517.1 SR 408.7 SS 1093.8
CRT -.9454 CRS .9116 CST -.9956
LSA 3702.1 MSA 166.1 SSA 17.5
EL1 3538.3 EL2 132.4 ALF 173.72

LAUNCH DATE JUN 19 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 30 1967

HELIOCENTRIC CONIC DISTANCE 553.752

RL 152.00 LAL -.00 LOL 267.05 VL 26.085 GAL 5.35 AZL 93.39 HCA 265.29 SMA 124.52 ECC .23869 INC 3.3873 V1 29.310
RP 107.65 LAP 3.38 LOP 172.33 VP 37.414 GAP 11.44 AZP 89.72 TAL 162.35 TAP 67.64 RCA 94.80 APO 154.25 V2 35.201
RC 157.834 GL -20.56 GP 3.11 ZAL 58.22 ZAP 168.17 ETS 14.01 ZAE 127.36 ETE 178.05 ZAC 81.15 ETC 12.90 CLP-168.58

PLANETOCENTRIC CONIC

C3 19.101 VHL 4.370 DLA -31.03 RAL 200.94 RAD 6567.8 VEL 11.853 PTH 2.10 VHP 7.422 DPA 4.30 RAP 186.04 ECC 1.3144

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.74	11 12 13	1220.42	21.70	349.37	69.52	112.75	11 32 33	620.4	24.59	341.67
103.26	14 43 8	5830.57	21.71	277.24	69.52	112.74	16 20 18	5230.6	24.60	269.54
76.74	11 12 13	1220.42	21.70	349.37	69.52	112.75	11 32 33	620.4	24.59	341.67
103.26	14 43 8	5830.57	21.71	277.24	69.52	112.74	16 20 18	5230.6	24.60	269.54
110.00	13 37 0	749.56	12.37	309.99	64.46	122.12	13 49 29	149.6	16.52	303.34
110.00	17 17 31	5349.43	31.70	244.20	73.18	103.52	18 46 41	4749.4	33.23	235.31

DIFFERENTIAL CORRECTIONS
TDE-2.5281 TRA 2.2325 TC3-4.0847 BAU 1.0435
RDE .3185 RRA .0460 RC3 -.1161 FAU .02740
FDE-1.1549 FRA 1.3632 FC3-1.2417 BSP 18954
BDE 2.5481 BRA 2.2330 BC3 4.0864 FSP -809

MID-COURSE EXECUTION ACCURACY
SGT 5949.7 SGR 435.4 SG3 241.6
RRT -.3014 RRF -.3080 RTF .9627
SGB 5965.6 R23 .0173 R13 -.9627
SG1 5951.2 SG2 415.0 THA 178.73

ORBIT DETERMINATION ACCURACY
ST 3470.7 SR 418.0 SS 1050.7
CRT -.9385 CRS .9034 CST -.9957
LSA 3646.2 MSA 172.6 SSA 17.1
EL1 3492.8 EL2 143.4 ALF 173.54

LAUNCH DATE JUN 19 1967 FLIGHT TIME 196.00 ARRIVAL DATE JAN 1 1968

HELIOCENTRIC CONIC DISTANCE 559.334

RL 152.00 LAL -.00 LOL 267.05 VL 26.048 GAL 5.90 AZL 93.35 HCA 268.53 SMA 124.30 ECC .24438 INC 3.3518 V1 29.310
RP 107.68 LAP 3.35 LOP 175.58 VP 37.380 GAP 11.91 AZP 89.91 TAL 161.02 TAP 69.55 RCA 93.92 APO 154.67 V2 35.192
RC 159.863 GL -19.48 GP 2.99 ZAL 55.91 ZAP 169.22 ETS 14.76 ZAE 127.16 ETE 178.14 ZAC 79.07 ETC 12.78 CLP-169.64

PLANETOCENTRIC CONIC

C3 20.638 VHL 4.543 DLA -30.87 RAL 203.70 RAD 6567.8 VEL 11.917 PTH 2.12 VHP 7.685 DPA 3.29 RAP 187.97 ECC 1.3396

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.16	11 26 14	1229.35	21.10	349.77	73.47	113.07	11 46 43	629.3	24.04	342.13
102.84	14 51 9	5858.44	21.12	279.07	73.48	113.06	16 28 47	5258.4	24.06	271.42
77.16	11 26 14	1229.35	21.10	349.77	73.47	113.07	11 46 43	629.3	24.04	342.13
102.84	14 51 9	5858.44	21.12	279.07	73.48	113.06	16 28 47	5258.4	24.06	271.42
110.00	13 45 14	777.02	11.37	311.49	68.14	122.46	13 58 11	177.0	15.57	304.90
110.00	17 31 18	5358.77	31.55	244.89	77.36	103.90	19 0 37	4758.8	33.13	236.02

DIFFERENTIAL CORRECTIONS
TDE-2.5603 TRA 2.5000 TC3-3.7928 BAU 1.0469
RDE .3376 RRA .0412 RC3 -.1021 FAU .02495
FDE-1.0991 FRA 1.4052 FC3-1.0467 BSP 19043
BDE 2.5825 BRA 2.5003 BC3 3.7942 FSP -770

MID-COURSE EXECUTION ACCURACY
SGT 5983.0 SGR 440.0 SG3 230.0
RRT -.3164 RRF -.3218 RTF .9628
SGB 5999.2 R23 .0165 R13 -.9629
SG1 5984.6 SG2 417.3 THA 178.66

ORBIT DETERMINATION ACCURACY
ST 3413.5 SR 426.2 SS 1008.3
CRT -.9311 CRS .8945 CST -.9958
LSA 3580.2 MSA 179.9 SSA 16.6
EL1 3436.6 EL2 154.4 ALF 173.35

LAUNCH DATE JUN 19 1967 FLIGHT TIME 198.00 ARRIVAL DATE JAN 3 1968

HELIOCENTRIC CONIC DISTANCE 564.859

RL 152.00 LAL -.00 LOL 267.05 VL 26.011 GAL 6.48 AZL 93.32 HCA 271.76 SMA 124.08 ECC .25051 INC 3.3163 VI 29.310
RP 107.71 LAP 3.31 LOP 178.82 VP 37.345 GAP 12.41 AZP 90.10 TAL 159.70 TAP 71.47 RCA 92.99 APO 155.16 V2 35.183
RC 161.876 GL -18.41 GP 2.87 ZAL 53.67 ZAP 170.25 ETS 15.72 ZAE 126.97 ETE 178.22 ZAC 76.97 ETC 12.68 CLP-170.68

PLANETOCENTRIC CONIC

C3 22.403 VHL 4.733 DLA -30.66 RAL 206.37 RAD 6567.9 VEL 11.991 PTH 2.14 VHP 7.963 DPA 2.28 RAP 189.92 ECC 1.5687

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.71	11 40 52	1236.48	20.44	350.00	77.40	113.37	12 1 29	636.5	23.43	342.42
102.29	14 57 47	602.83	20.46	303.29	77.41	113.35	15 7 50	2.8	23.44	295.70
77.71	11 40 52	1236.48	20.44	350.00	77.40	113.37	12 1 29	636.5	23.43	342.42
102.29	14 57 47	602.83	20.46	303.29	77.41	113.35	15 7 50	2.8	23.44	295.70
110.00	13 52 28	808.04	10.23	313.17	71.77	122.79	14 5 56	208.0	14.48	306.65
110.00	17 45 23	5367.30	31.41	245.51	81.55	104.25	19 14 50	4767.3	33.04	236.67

DIFFERENTIAL CORRECTIONS
TDE-2.5937 TRA 2.7791 TC3-3.5053 BAU 1.0502
RDE .3577 RRA .0350 RC3 -.0883 FAU .02272
FDE-1.0487 FRA 1.4449 FC3 -.8780 BSP 19196
BDE 2.6183 BRA 2.7793 BC3 3.5064 FSP -737

MID-COURSE EXECUTION ACCURACY
SGT 6013.6 SGR 443.8 SG3 219.2
RRT -.3333 RRF -.3375 RTF .9632
SGB 6030.0 R23 .0158 R13 -.9632
SG1 6015.5 SG2 418.3 THA 178.58

ORBIT DETERMINATION ACCURACY
ST 3353.3 SR 433.3 SS 969.2
CRT -.9237 CRS .8858 CST -.9959
LSA 3512.3 MSA 187.2 SSA 16.1
EL1 3377.1 EL2 164.9 ALF 173.18

LAUNCH DATE JUN 19 1967 FLIGHT TIME 200.00 ARRIVAL DATE JAN 5 1968

HELIOCENTRIC CONIC DISTANCE 570.321

RL 152.00 LAL -.00 LOL 267.05 VL 25.974 GAL 7.09 AZL 93.28 HCA 274.99 SMA 123.85 ECC .25714 INC 3.2807 VI 29.310
RP 107.74 LAP 3.27 LOP 182.05 VP 37.310 GAP 12.93 AZP 90.29 TAL 158.39 TAP 73.39 RCA 92.01 APO 155.70 V2 35.172
RC 163.875 GL -17.36 GP 2.77 ZAL 51.51 ZAP 171.26 ETS 16.97 ZAE 126.78 ETE 178.29 ZAC 74.85 ETC 12.61 CLP-171.71

PLANETOCENTRIC CONIC

C3 24.429 VHL 4.943 DLA -30.42 RAL 208.94 RAD 6568.0 VEL 12.075 PTH 2.16 VHP 8.258 DPA 1.28 RAP 191.88 ECC 1.4020

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.40	11 56 12	1241.54	19.71	350.04	81.31	113.64	12 16 53	641.5	22.74	342.52
101.60	15 2 58	640.05	19.73	305.74	81.31	113.63	15 13 38	40.0	22.75	298.21
78.40	11 56 12	1241.54	19.71	350.04	81.31	113.64	12 16 53	641.5	22.74	342.52
101.60	15 2 58	640.05	19.73	305.74	81.31	113.63	15 13 38	40.0	22.75	298.21
110.00	13 58 46	842.24	8.97	315.01	75.33	123.13	14 12 48	242.2	13.26	308.55
110.00	17 59 35	5375.38	31.27	246.10	85.73	104.57	19 29 10	4775.4	32.95	237.28

DIFFERENTIAL CORRECTIONS
TDE-2.6258 TRA 3.0747 TC3-3.2182 BAU 1.0513
RDE .3786 RRA .0273 RC3 -.0753 FAU .02059
FDE-1.0018 FRA 1.4846 FC3 -.7298 BSP 19341
BDE 2.6530 BRA 3.0748 BC3 3.2191 FSP -706

MID-COURSE EXECUTION ACCURACY
SGT 6038.9 SGR 446.6 SG3 209.0
RRT -.3513 RRF -.3543 RTF .9637
SGB 6055.4 R23 .0151 R13 -.9637
SG1 6041.0 SG2 418.0 THA 178.50

ORBIT DETERMINATION ACCURACY
ST 3288.2 SR 439.0 SS 932.4
CRT -.9158 CRS .8769 CST -.9960
LSA 3440.4 MSA 194.5 SSA 15.6
EL1 3312.7 EL2 175.0 ALF 173.01

LAUNCH DATE JUN 19 1967 FLIGHT TIME 202.00 ARRIVAL DATE JAN 7 1968

HELIOCENTRIC CONIC DISTANCE 575.710

RL 152.00 LAL -.00 LOL 267.05 VL 25.938 GAL 7.75 AZL 93.24 HCA 278.23 SMA 123.63 ECC .26431 INC 3.2449 VI 29.310
RP 107.78 LAP 3.21 LOP 185.29 VP 37.274 GAP 13.47 AZP 90.46 TAL 157.09 TAP 75.31 RCA 90.96 APO 156.31 V2 35.162
RC 165.860 GL -16.34 GP 2.68 ZAL 49.43 ZAP 172.25 ETS 18.61 ZAE 126.60 ETE 178.34 ZAC 72.73 ETC 12.56 CLP-172.72

PLANETOCENTRIC CONIC

C3 26.755 VHL 5.173 DLA -30.13 RAL 211.41 RAD 6568.1 VEL 12.171 PTH 2.18 VHP 8.571 DPA .28 RAP 193.86 ECC 1.4403

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.24	12 12 15	1244.18	18.93	349.87	85.17	113.89	12 32 59	644.2	22.00	342.40
100.76	15 6 34	682.31	18.94	308.53	85.18	113.88	15 17 57	82.3	22.01	301.06
79.24	12 12 15	1244.18	18.93	349.87	85.17	113.89	12 32 59	644.2	22.00	342.40
100.76	15 6 34	682.31	18.94	308.53	85.18	113.88	15 17 57	82.3	22.01	301.06
110.00	14 4 13	879.21	7.58	316.98	78.82	123.43	14 18 52	279.2	11.93	310.58
110.00	18 13 47	5383.32	31.13	246.68	89.90	104.89	19 43 30	4783.3	32.86	237.88

DIFFERENTIAL CORRECTIONS
TDE-2.6562 TRA 3.3882 TC3-2.9344 BAU 1.0499
RDE .4000 RRA .0179 RC3 -.0633 FAU .01855
FDE -.9580 FRA 1.5252 FC3 -.6004 BSP 19461
BDE 2.6862 BRA 3.3882 BC3 2.9351 FSP -676

MID-COURSE EXECUTION ACCURACY
SGT 6058.4 SGR 448.5 SG3 199.4
RRT -.3701 RRF -.3717 RTF .9643
SGB 6074.9 R23 .0141 R13 -.9643
SG1 6060.6 SG2 416.5 THA 178.42

ORBIT DETERMINATION ACCURACY
ST 3218.7 SR 443.2 SS 897.9
CRT -.9076 CRS .8676 CST -.9960
LSA 3364.8 MSA 201.8 SSA 15.1
EL1 3243.9 EL2 184.6 ALF 172.85

LAUNCH DATE JUN 19 1967 FLIGHT TIME 204.00 ARRIVAL DATE JAN 9 1968

HELIOCENTRIC CONIC DISTANCE 581.019

RL 152.00 LAL -.00 LOL 267.05 VL 25.901 GAL 8.44 AZL 93.21 HCA 281.45 SMA 123.42 ECC .27208 INC 3.2084 VI 29.310
RP 107.81 LAP 3.14 LOP 188.52 VP 37.239 GAP 14.05 AZP 90.64 TAL 155.80 TAP 77.25 RCA 89.84 APO 157.00 V2 35.151
RC 167.829 GL -15.33 GP 2.60 ZAL 47.43 ZAP 173.22 ETS 20.79 ZAE 126.41 ETE 178.39 ZAC 70.60 ETC 12.55 CLP-173.73

PLANETOCENTRIC CONIC

C3 29.426 VHL 5.425 DLA -29.82 RAL 213.76 RAD 6568.2 VEL 12.280 PTH 2.21 VHP 8.906 DPA -.71 RAP 195.85 ECC 1.4843

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.25	12 29 17	1243.54	18.09	349.43	89.00	114.12	12 50 0	643.5	21.19	342.02
99.75	15 8 19	730.41	18.10	311.71	89.01	114.10	15 20 30	130.4	21.21	304.30
100.00	14 52 15	781.78	16.51	314.76	88.24	115.28	15 5 16	181.8	19.78	307.50
100.00	15 28 3	667.40	19.69	307.77	89.74	112.95	15 39 10	67.4	22.63	300.20
110.00	14 8 55	918.58	6.10	319.06	82.25	123.70	14 24 14	318.6	10.49	312.72
110.00	18 27 52	5391.40	30.99	247.27	94.05	105.21	19 57 43	4791.4	32.76	238.49

DIFFERENTIAL CORRECTIONS
TDE-2.6828 TRA 3.7244 TC3-2.6525 BAU 1.0437
RDE .4219 RRA .0066 RC3 -.0526 FAU .01652
FDE -.9159 FRA 1.5683 FC3 -.4859 BSP 19477
BDE 2.7158 BRA 3.7244 BC3 2.6531 FSP -644

MID-COURSE EXECUTION ACCURACY
SGT 6071.9 SGR 449.3 SG3 190.5
RRT -.3892 RRF -.3893 RTF .9649
SGB 6088.5 R23 .0130 R13 -.9650
SG1 6074.5 SG2 413.7 THA 178.34

ORBIT DETERMINATION ACCURACY
ST 3144.4 SR 445.6 SS 865.1
CRT -.8987 CRS .8576 CST -.9961
LSA 3284.9 MSA 209.1 SSA 14.6
EL1 3169.9 EL2 193.9 ALF 172.71

LAUNCH DATE JUN 19 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 11 1968

HELIOCENTRIC CONIC DISTANCE 586.233
RL 152.00 LAL -.00 LOL 267.05 VL 25.865 GAL 9.18 AZL 93.17 HCA 284.68 SMA 123.20 ECC .28052 INC 3.1711 V1 29.310
RP 107.84 LAP 3.07 LOP 191.75 VP 37.203 GAP 14.67 AZP 90.80 TAL 154.53 TAP 79.21 RCA 88.64 APO 157.76 V2 35.139
RC 169.783 GL -14.35 GP 2.52 ZAL 45.53 ZAP 174.17 ETS 23.78 ZAE 126.22 ETE 178.43 ZAC 68.47 ETC 12.57 CLP-174.74
PLANETOCENTRIC CONIC
C3 32.497 VHL 5.701 DLA -29.47 RAL 216.00 RAD 6568.3 VEL 12.404 PTH 2.24 VHP 9.263 DPA -1.69 RAP 197.84 ECC 1.5348

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.47	12 47 40	1238.26	17.20	348.62	92.77	114.31	13 8 18	638.3	20.34	341.27
98.53	15 7 49	785.56	17.21	315.38	92.78	114.30	15 20 55	185.6	20.35	308.03
100.00	14 36 59	884.31	13.43	320.82	90.90	116.96	14 51 43	284.3	16.94	313.79
100.00	16 1 11	614.74	21.06	304.45	94.51	111.72	16 11 26	14.7	23.82	296.74
110.00	14 12 57	960.03	4.53	321.25	85.61	123.92	14 28 57	360.0	8.95	314.95
110.00	18 41 42	5399.82	30.84	247.88	98.17	105.54	20 11 42	4799.8	32.66	239.13

DIFFERENTIAL CORRECTIONS
TOE-2.7136 TRA 4.0765 TC3-2.3853 BAU 1.0365
RDE .4443 RRA -.0062 RC3 -.0429 FAU .01466
FDE -.8794 FRA 1.6106 FC3 -.3905 BSP 19581
BDE 2.7498 BRA 4.0765 BC3 2.3857 FSP -617

MID-COURSE EXECUTION ACCURACY
SGT 6081.4 SGR 449.3 SG3 182.0
RRT -.4095 RRF -.4082 RTF .9659
SGB 6097.9 R23 .0120 R13 -.9659
SG1 6084.2 SG2 409.7 THA 178.26

ORBIT DETERMINATION ACCURACY
ST 3072.3 SR 446.5 SS 836.6
CRT -.8899 CRS .8481 CST -.9963
LSA 3208.0 MSA 215.5 SSA 14.2
EL1 3098.0 EL2 202.0 ALF 172.60

LAUNCH DATE JUN 19 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 13 1968

HELIOCENTRIC CONIC DISTANCE 591.339
RL 152.00 LAL -.00 LOL 267.05 VL 25.830 GAL 9.97 AZL 93.13 HCA 287.91 SMA 122.99 ECC .28970 INC 3.1327 V1 29.310
RP 107.88 LAP 2.98 LOP 194.98 VP 37.167 GAP 15.33 AZP 90.96 TAL 153.28 TAP 81.18 RCA 87.36 APO 158.62 V2 35.128
RC 171.722 GL -13.39 GP 2.45 ZAL 43.71 ZAP 175.09 ETS 28.03 ZAE 126.02 ETE 178.46 ZAC 66.34 ETC 12.62 CLP-175.74
PLANETOCENTRIC CONIC
C3 36.035 VHL 6.003 DLA -29.10 RAL 218.13 RAD 6568.4 VEL 12.546 PTH 2.27 VHP 9.647 DPA -2.65 RAP 199.84 ECC 1.5931

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.99	13 8 8	1225.80	16.27	347.26	96.49	114.47	13 28 34	625.8	19.43	339.96
97.01	15 4 18	850.18	16.28	319.72	96.50	114.46	15 18 28	250.2	19.45	312.41
100.00	14 29 53	960.69	11.03	325.22	93.84	117.96	14 45 54	360.7	14.69	318.34
100.00	16 25 14	5878.56	21.66	280.81	98.89	111.12	18 3 12	5278.6	24.34	273.03
110.00	14 16 22	1003.25	2.89	323.51	88.91	124.08	14 33 5	403.2	7.34	317.25
110.00	18 55 15	5408.77	30.67	248.52	102.24	105.89	20 25 23	4808.8	32.54	239.80

DIFFERENTIAL CORRECTIONS
TOE-2.7451 TRA 4.4513 TC3-2.1279 BAU 1.0253
RDE .4670 RRA -.0210 RC3 -.0346 FAU .01285
FDE -.8462 FRA 1.6548 FC3 -.3088 BSP 19660
BDE 2.7846 BRA 4.4514 BC3 2.1282 FSP -592

MID-COURSE EXECUTION ACCURACY
SGT 6085.7 SGR 448.3 SG3 174.0
RRT -.4302 RRF -.4276 RTF .9669
SGB 6102.2 R23 .0108 R13 -.9670
SG1 6088.7 SG2 404.5 THA 178.18

ORBIT DETERMINATION ACCURACY
ST 2999.8 SR 445.8 SS 810.9
CRT -.8808 CRS .8386 CST -.9964
LSA 3131.5 MSA 221.3 SSA 13.7
EL1 3025.5 EL2 209.3 ALF 172.51

LAUNCH DATE JUN 19 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 15 1968

HELIOCENTRIC CONIC DISTANCE 596.319
RL 152.00 LAL -.00 LOL 267.05 VL 25.794 GAL 10.81 AZL 93.09 HCA 291.13 SMA 122.79 ECC .29973 INC 3.0930 V1 29.310
RP 107.92 LAP 2.88 LOP 198.21 VP 37.131 GAP 16.03 AZP 91.12 TAL 152.06 TAP 83.19 RCA 85.98 APO 159.59 V2 35.116
RC 173.647 GL -12.46 GP 2.38 ZAL 41.98 ZAP 175.97 ETS 34.33 ZAE 125.82 ETE 178.48 ZAC 64.22 ETC 12.70 CLP-176.76
PLANETOCENTRIC CONIC
C3 40.121 VHL 6.334 DLA -28.71 RAL 220.13 RAD 6568.5 VEL 12.708 PTH 2.31 VHP 10.062 DPA -3.61 RAP 201.84 ECC 1.6603

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.05	13 32 51	1199.04	15.30	344.83	100.15	114.59	13 52 50	599.0	18.49	337.58
94.95	14 55 35	931.20	15.31	325.22	100.16	114.59	15 11 6	331.2	18.51	317.97
100.00	14 25 5	1029.49	8.81	329.12	96.82	118.68	14 42 15	429.5	12.57	322.35
100.00	16 46 2	5864.03	22.01	279.87	103.11	110.75	18 23 46	5264.0	24.64	272.06
110.00	14 19 13	1047.95	1.18	325.84	92.15	124.17	14 36 41	447.9	5.65	319.62
110.00	19 8 24	5418.34	30.49	249.21	106.27	106.26	20 38 42	4818.3	32.41	240.52

DIFFERENTIAL CORRECTIONS
TOE-2.7781 TRA 4.8502 TC3-1.8826 BAU 1.0099
RDE .4900 RRA -.0377 RC3 -.0274 FAU .01111
FDE -.8161 FRA 1.7013 FC3 -.2397 BSP 19727
BDE 2.8210 BRA 4.8504 BC3 1.8828 FSP -567

MID-COURSE EXECUTION ACCURACY
SGT 6084.9 SGR 446.3 SG3 166.6
RRT -.4512 RRF -.4473 RTF .9682
SGB 6101.3 R23 .0096 R13 -.9682
SG1 6088.3 SG2 398.1 THA 178.10

ORBIT DETERMINATION ACCURACY
ST 2927.9 SR 443.4 SS 788.2
CRT -.8714 CRS .8291 CST -.9966
LSA 3056.0 MSA 226.3 SSA 13.2
EL1 2953.4 EL2 215.6 ALF 172.44

LAUNCH DATE JUN 19 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 17 1968

HELIOCENTRIC CONIC DISTANCE 601.152
RL 152.00 LAL -.00 LOL 267.05 VL 25.760 GAL 11.73 AZL 93.05 HCA 294.35 SMA 122.58 ECC .31069 INC 3.0515 V1 29.310
RP 107.96 LAP 2.78 LOP 201.43 VP 37.095 GAP 16.79 AZP 91.26 TAL 150.87 TAP 85.22 RCA 84.50 APO 160.67 V2 35.103
RC 175.555 GL -11.57 GP 2.33 ZAL 40.36 ZAP 176.78 ETS 44.19 ZAE 125.60 ETE 178.50 ZAC 62.11 ETC 12.82 CLP-177.77
PLANETOCENTRIC CONIC
C3 44.851 VHL 6.697 DLA -28.30 RAL 222.02 RAD 6568.7 VEL 12.892 PTH 2.35 VHP 10.511 DPA -4.54 RAP 203.83 ECC 1.7381

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	14 13 28	1120.09	13.55	338.21	103.38	115.10	14 32 8	520.1	16.82	331.07
90.00	14 30 2	1066.34	15.08	335.01	104.10	114.26	14 47 49	466.3	18.23	327.75
100.00	14 21 21	1094.55	6.67	332.76	99.80	119.21	14 39 35	494.5	10.51	326.08
100.00	17 4 50	5855.16	22.23	279.30	107.21	110.52	18 42 26	5255.2	24.82	271.46
110.00	14 21 33	1093.89	-.58	328.24	95.32	124.18	14 39 47	493.9	3.91	322.03
110.00	19 21 7	5428.58	30.29	249.94	110.23	106.65	20 51 36	4828.6	32.27	241.28

DIFFERENTIAL CORRECTIONS
TOE-2.8101 TRA 5.2796 TC3-1.6466 BAU .9874
RDE .5131 RRA -.0565 RC3 -.0217 FAU .00934
FDE -.7879 FRA 1.7519 FC3 -.1803 BSP 19688
BDE 2.8566 BRA 5.2799 BC3 1.6468 FSP -541

MID-COURSE EXECUTION ACCURACY
SGT 6079.6 SGR 443.3 SG3 159.6
RRT -.4723 RRF -.4670 RTF .9696
SGB 6095.7 R23 .0082 R13 -.9696
SG1 6083.2 SG2 390.5 THA 178.02

ORBIT DETERMINATION ACCURACY
ST 2855.3 SR 439.2 SS 768.0
CRT -.8616 CRS .8191 CST -.9968
LSA 2980.3 MSA 230.6 SSA 12.8
EL1 2880.4 EL2 221.0 ALF 172.41

LAUNCH DATE JUN 19 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 19 1968

HELIOCENTRIC CONIC DISTANCE 605.811

RL 152.00 LAL -.00 LOL 267.05 VL 25.725 GAL 12.71 AZL 93.01 HCA 297.57 SMA 122.38 ECC .32271 INC 3.0079 V1 29.310
RP 107.99 LAP 2.67 LOP 204.65 VP 37.059 GAP 17.62 AZP 91.39 TAL 149.73 TAP 87.30 RCA 82.89 APO 161.88 V2 35.091
RC 177.448 GL -10.70 GP 2.27 ZAL 38.83 ZAP 177.43 ETS 60.13 ZAE 125.35 ETE 178.52 ZAC 60.01 ETC 12.97 CLP-178.81

PLANETOCENTRIC CONIC

C3 50.347 VHL 7.096 DLA -27.87 RAL 223.79 RAD 6568.9 VEL 13.104 PTH 2.39 VHP 10.998 DPA -5.46 RAP 205.83 ECC 1.8286

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 44 53	1264.91	9.22	346.65	105.25	116.89	14 5 58	664.9	12.75	339.75
90.00	15 12 43	979.40	17.43	329.72	109.15	112.67	15 29 2	379.4	20.36	322.26
100.00	14 18 9	1157.36	4.57	336.24	102.74	119.57	14 37 26	557.4	8.47	329.63
100.00	17 22 8	5850.23	22.34	278.98	111.21	110.39	18 59 38	5250.2	24.92	271.13
110.00	14 23 24	1140.86	-2.37	330.69	98.43	124.11	14 42 25	540.9	2.12	324.49
110.00	19 33 22	5439.49	30.08	250.72	114.13	107.06	21 4 2	4839.5	32.12	242.10

DIFFERENTIAL CORRECTIONS
TDE-2.8499 TRA 5.7335 TC3-1.4282 BAU .9614
RDE .5364 RRA -.0772 RC3 -.0170 FAU .00769
FDE -.7649 FRA 1.8041 FC3 -.1322 BSP 19738
BDE 2.8999 BRA 5.7340 BC3 1.4283 FSP -519

MID-COURSE EXECUTION ACCURACY
SGT 6069.0 SGR 439.5 SG3 152.9
RRT -.4939 RRF -.4876 RTF .9712
SGB 6084.9 R23 .0069 R13 -.9713
SG1 6072.9 SG2 381.9 THA 177.94

ORBIT DETERMINATION ACCURACY
ST 2787.1 SR 433.6 SS 751.8
CRT -.8522 CRS .8103 CST -.9970
LSA 2909.8 MSA 233.4 SSA 12.3
EL1 2811.7 EL2 224.9 ALF 172.40

LAUNCH DATE JUN 19 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 21 1968

HELIOCENTRIC CONIC DISTANCE 610.265

RL 152.00 LAL -.00 LOL 267.05 VL 25.692 GAL 13.77 AZL 92.96 HCA 300.78 SMA 122.19 ECC .33593 INC 2.9616 V1 29.310
RP 108.03 LAP 2.54 LOP 207.87 VP 37.024 GAP 18.51 AZP 91.52 TAL 148.64 TAP 89.42 RCA 81.14 APO 163.24 V2 35.078
RC 179.325 GL -9.85 GP 2.22 ZAL 37.40 ZAP 177.77 ETS 84.08 ZAE 125.08 ETE 178.53 ZAC 57.94 ETC 13.16 CLP-179.86

PLANETOCENTRIC CONIC

C3 56.759 VHL 7.534 DLA -27.43 RAL 225.43 RAD 6569.0 VEL 13.346 PTH 2.44 VHP 11.531 DPA -6.35 RAP 207.81 ECC 1.9341

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 33 20	1354.02	6.44	351.72	107.80	117.64	13 55 54	754.0	10.09	344.94
90.00	15 37 24	949.61	18.21	327.87	113.36	112.07	15 53 14	349.6	21.04	320.34
100.00	14 15 13	1218.66	2.50	339.62	105.64	119.80	14 35 32	618.7	6.45	333.06
100.00	17 38 12	5848.24	22.39	278.85	115.09	110.34	19 15 40	5248.2	24.96	270.99
110.00	14 24 46	1188.64	-4.19	333.19	101.48	123.96	14 44 35	588.6	.29	326.98
110.00	19 45 8	5451.02	29.85	251.53	117.94	107.50	21 15 59	4851.0	31.95	242.95

DIFFERENTIAL CORRECTIONS
TDE-2.8946 TRA 6.2208 TC3-1.2242 BAU .9290
RDE .5597 RRA -.1001 RC3 -.0133 FAU .00604
FDE -.7452 FRA 1.8606 FC3 -.0922 BSP 19786
BDE 2.9482 BRA 6.2216 BC3 1.2242 FSP -498

MID-COURSE EXECUTION ACCURACY
SGT 6054.9 SGR 434.7 SG3 146.7
RRT -.5157 RRF -.5085 RTF .9730
SGB 6070.5 R23 .0056 R13 -.9730
SG1 6059.1 SG2 372.2 THA 177.87

ORBIT DETERMINATION ACCURACY
ST 2721.5 SR 426.4 SS 738.9
CRT -.8429 CRS .8018 CST -.9973
LSA 2842.3 MSA 235.1 SSA 11.9
EL1 2745.3 EL2 227.5 ALF 172.42

LAUNCH DATE JUN 19 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 23 1968

HELIOCENTRIC CONIC DISTANCE 614.471

RL 152.00 LAL -.00 LOL 267.05 VL 25.659 GAL 14.93 AZL 92.91 HCA 304.00 SMA 122.00 ECC .35052 INC 2.9122 V1 29.310
RP 108.07 LAP 2.41 LOP 211.08 VP 36.989 GAP 19.49 AZP 91.63 TAL 147.62 TAP 91.61 RCA 79.24 APO 164.76 V2 35.065
RC 181.185 GL -9.04 GP 2.18 ZAL 36.07 ZAP 177.63 ETS 110.86 ZAE 124.79 ETE 178.54 ZAC 55.89 ETC 13.39 CLP 179.07

PLANETOCENTRIC CONIC

C3 64.272 VHL 8.017 DLA -26.98 RAL 226.95 RAD 6569.2 VEL 13.624 PTH 2.49 VHP 12.116 DPA -7.22 RAP 209.77 ECC 2.0577

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 25 7	1431.44	3.97	356.07	110.42	118.06	13 48 59	831.4	7.70	349.37
90.00	15 57 44	932.63	18.64	326.81	117.33	111.71	16 13 17	332.6	21.42	319.24
100.00	14 12 22	1278.83	.46	342.92	108.48	119.89	14 33 41	678.8	4.43	336.39
100.00	17 53 11	5848.52	22.38	278.87	118.87	110.35	19 30 39	5248.5	24.95	271.01
110.00	14 25 41	1237.04	-6.03	335.74	104.45	123.71	14 46 18	637.0	-1.56	329.50
110.00	19 56 21	5463.07	29.60	252.38	121.65	107.94	21 27 24	4863.1	31.76	243.84

DIFFERENTIAL CORRECTIONS
TDE-2.9451 TRA 6.7438 TC3-1.0321 BAU .8869
RDE .5831 RRA -.1252 RC3 -.0107 FAU .00439
FDE -.7289 FRA 1.9220 FC3 -.0592 BSP 19786
BDE 3.0023 BRA 6.7450 BC3 1.0322 FSP -478

MID-COURSE EXECUTION ACCURACY
SGT 6034.7 SGR 429.0 SG3 140.8
RRT -.5376 RRF -.5295 RTF .9750
SGB 6050.0 R23 .0041 R13 -.9750
SG1 6039.2 SG2 361.4 THA 177.80

ORBIT DETERMINATION ACCURACY
ST 2658.0 SR 417.8 SS 729.2
CRT -.8338 CRS .7938 CST -.9975
LSA 2777.7 MSA 235.5 SSA 11.4
EL1 2680.9 EL2 228.7 ALF 172.48

LAUNCH DATE JUN 19 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 25 1968

HELIOCENTRIC CONIC DISTANCE 618.379

RL 152.00 LAL -.00 LOL 267.05 VL 25.627 GAL 16.20 AZL 92.86 HCA 307.21 SMA 121.81 ECC .36667 INC 2.8589 V1 29.310
RP 108.11 LAP 2.28 LOP 214.29 VP 36.954 GAP 20.56 AZP 91.73 TAL 146.67 TAP 93.87 RCA 77.15 APO 166.48 V2 35.052
RC 183.028 GL -8.25 GP 2.14 ZAL 34.86 ZAP 177.04 ETS 131.29 ZAE 124.45 ETE 178.54 ZAC 53.88 ETC 13.65 CLP 177.96

PLANETOCENTRIC CONIC

C3 73.121 VHL 8.551 DLA -26.51 RAL 228.35 RAD 6569.4 VEL 13.945 PTH 2.55 VHP 12.760 DPA -8.06 RAP 211.71 ECC 2.2034

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 18 24	1503.03	1.67	.07	113.04	118.27	13 43 27	903.0	5.44	353.42
90.00	16 15 34	922.31	18.90	326.16	121.11	111.49	16 30 57	322.3	21.65	318.57
100.00	14 9 29	1338.08	-1.55	346.17	111.25	119.86	14 31 47	738.1	2.44	339.65
100.00	18 7 11	5850.53	22.34	279.00	122.52	110.40	19 44 42	5250.5	24.91	271.15
110.00	14 26 6	1285.88	-7.87	338.32	107.35	123.37	14 47 32	685.9	-3.42	332.05
110.00	20 7 2	5475.50	29.33	253.25	125.25	108.40	21 38 18	4875.5	31.56	244.76

DIFFERENTIAL CORRECTIONS
TDE-2.9983 TRA 7.3125 TC3 -.8517 BAU .8326
RDE .6061 RRA -.1527 RC3 -.0091 FAU .00264
FDE -.7148 FRA 1.9908 FC3 -.0313 BSP 19666
BDE 3.0589 BRA 7.3141 BC3 .8517 FSP -456

MID-COURSE EXECUTION ACCURACY
SGT 6011.5 SGR 422.2 SG3 135.4
RRT -.5593 RRF -.5505 RTF .9771
SGB 6026.4 R23 .0027 R13 -.9771
SG1 6016.2 SG2 349.7 THA 177.74

ORBIT DETERMINATION ACCURACY
ST 2595.4 SR 407.6 SS 722.4
CRT -.8246 CRS .7858 CST -.9977
LSA 2714.6 MSA 234.8 SSA 10.9
EL1 2617.2 EL2 228.7 ALF 172.56

LAUNCH DATE JUN 20 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 29 1967

HELIOCENTRIC CONIC DISTANCE 162.696

RL	152.01	LAL	-.00	LOL	268.01	VL	23.098	GAL	-.85	AZL	93.62	HCA	66.46	SMA	109.45	ECC	.38915	INC	3.6223
RP	108.88	LAP	-3.32	LOP	334.43	VP	35.003	GAP	-22.90	AZP	91.45	TAL	181.34	TAP	247.80	RCA	66.86	APO	152.04
RC	42.876	GL	-13.09	GP	-1.74	ZAL	94.16	ZAP	10.87	ETS	170.95	ZAE	166.64	ETE	49.29	ZAC	100.34	ETC	14.22

V1	29.308	V2	34.804	CLP	10.73														

PLANETOCENTRIC CONIC

C3	41.517	VHL	6.443	DLA	-9.52	RAL	169.03	RAD	6568.6	VEL	12.763	PTH	2.32	VHP	13.773	DPA	7.36	RAP	166.99

ECC	1.6833																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 59 48	2095.87	-16.52	34.10	40.58	113.33	6 34 44	1495.9	-13.23	26.98
90.00	15 33 5	5339.69	27.61	243.20	46.94	83.44	17 2 5	4739.7	26.41	234.74
100.00	7 16 28	1848.54	-17.81	15.32	39.98	114.41	7 47 17	1248.5	-14.37	8.22
100.00	16 59 7	5062.25	29.01	222.60	46.75	82.44	18 23 29	4462.3	27.66	214.06
110.00	8 14 4	1668.16	-21.23	359.87	38.22	117.44	8 41 52	1068.2	-17.38	352.85
110.00	18 18 0	4815.39	32.76	203.17	46.06	79.64	19 38 15	4215.4	30.98	194.40

DIFFERENTIAL CORRECTIONS

TOE	.3901	TRA	-.7546	TC3	.1031	BAU	.0728
RDE	-.4342	RRA	-.1818	RC3	.0812	FAU	.02048
FDE	-.3114	FRA	.2807	FC3	-.4272	BSP	2082
BDE	.5837	BRA	.7762	BC3	.1312	FSP	-128

MID-COURSE EXECUTION ACCURACY

SGT	775.2	SGR	432.3	SG3	57.6		
RRT	-.0254	RRF	.0273	RTF	-.6611		
SGB	887.6	R23	-.0029	R13	.6612		
SG1	775.3	SG2	432.1	THA	178.82		

ORBIT DETERMINATION ACCURACY

ST	402.5	SR	389.2	SS	342.3
CRT	-.7907	CRS	-.9212	CST	.9642
LSA	630.4	MSA	181.6	SSA	15.7
EL1	529.8	EL2	181.0	ALF	136.21

LAUNCH DATE JUN 20 1967 FLIGHT TIME 72.00 ARRIVAL DATE AUG 31 1967

HELIOCENTRIC CONIC DISTANCE 169.305

RL	152.01	LAL	-.00	LOL	268.01	VL	23.479	GAL	-.95	AZL	93.58	HCA	69.63	SMA	111.07	ECC	.36891	INC	3.5784
RP	108.87	LAP	-3.35	LOP	337.60	VP	35.260	GAP	-21.62	AZP	91.25	TAL	181.62	TAP	251.25	RCA	70.10	APO	152.05
RC	42.849	GL	-13.95	GP	-1.83	ZAL	94.83	ZAP	9.14	ETS	168.55	ZAE	164.79	ETE	41.84	ZAC	99.00	ETC	14.10

V1	29.308	V2	34.809	CLP	8.96														

PLANETOCENTRIC CONIC

C3	36.961	VHL	6.080	DLA	-10.03	RAL	168.04	RAD	6568.4	VEL	12.583	PTH	2.28	VHP	13.052	DPA	6.74	RAP	168.26

ECC	1.6083																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 59 56	2049.88	-15.26	31.32	37.63	114.14	6 34 6	1449.9	-11.87	24.28
90.00	15 25 3	5326.95	27.50	242.28	43.96	82.99	16 53 50	4726.9	26.25	233.84
100.00	7 16 19	1803.46	-16.52	12.59	37.03	115.27	7 46 23	1203.5	-12.98	5.59
100.00	16 51 21	5048.60	28.88	221.61	43.75	81.93	18 15 29	4448.6	27.46	213.09
110.00	8 13 18	1625.05	-19.85	357.28	35.26	118.42	8 40 23	1025.1	-15.90	350.39
110.00	18 10 52	4799.77	32.56	201.99	43.03	78.97	19 30 51	4199.8	30.70	193.27

DIFFERENTIAL CORRECTIONS

TOE	.3916	TRA	-.7292	TC3	.1425	BAU	.0833
RDE	-.4119	RRA	-.1700	RC3	.0901	FAU	.02156
FDE	-.3307	FRA	.2768	FC3	-.5051	BSP	2214
BDE	.5684	BRA	.7488	BC3	.1686	FSP	-145

MID-COURSE EXECUTION ACCURACY

SGT	808.3	SGR	434.9	SG3	63.8		
RRT	-.0305	RRF	.0331	RTF	-.6813		
SGB	917.9	R23	-.0038	R13	.6814		
SG1	808.5	SG2	434.6	THA	178.68		

ORBIT DETERMINATION ACCURACY

ST	424.4	SR	391.2	SS	363.3
CRT	-.8012	CRS	-.9285	CST	.9638
LSA	657.2	MSA	181.4	SSA	16.1
EL1	548.0	EL2	181.3	ALF	137.90

LAUNCH DATE JUN 20 1967 FLIGHT TIME 74.00 ARRIVAL DATE SEP 2 1967

HELIOCENTRIC CONIC DISTANCE 175.945

RL	152.01	LAL	-.00	LOL	268.01	VL	23.829	GAL	-1.06	AZL	93.54	HCA	72.79	SMA	112.64	ECC	.35003	INC	3.5363
RP	108.85	LAP	-3.38	LOP	340.77	VP	35.501	GAP	-20.40	AZP	91.05	TAL	181.97	TAP	254.77	RCA	73.21	APO	152.06
RC	42.995	GL	-14.81	GP	-1.92	ZAL	95.65	ZAP	7.43	ETS	164.98	ZAE	162.80	ETE	35.97	ZAC	97.68	ETC	14.00

V1	29.308	V2	34.815	CLP	7.18														

PLANETOCENTRIC CONIC

C3	33.037	VHL	5.748	DLA	-10.49	RAL	166.91	RAD	6568.3	VEL	12.426	PTH	2.25	VHP	12.362	DPA	6.11	RAP	169.50

ECC	1.5437																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 59 10	2006.42	-14.03	28.71	34.66	114.85	6 32 37	1406.4	-10.57	21.75
90.00	15 16 48	5313.75	27.39	241.33	40.89	82.52	16 45 22	4713.8	26.07	232.92
100.00	7 15 18	1760.83	-15.27	10.05	34.05	116.02	7 44 39	1160.8	-11.64	3.13
100.00	16 43 22	5034.57	28.74	220.59	40.67	81.41	18 7 16	4434.6	27.25	212.10
110.00	8 11 41	1584.23	-18.51	354.88	32.28	119.26	8 38 6	984.2	-14.47	348.09
110.00	18 3 28	4783.93	32.35	200.80	39.92	78.30	19 23 11	4183.9	30.40	192.13

DIFFERENTIAL CORRECTIONS

TOE	.3931	TRA	-.7035	TC3	.1881	BAU	.0939
RDE	-.3909	RRA	-.1588	RC3	.0991	FAU	.02279
FDE	-.3512	FRA	.2717	FC3	-.5971	BSP	2332
BDE	.5544	BRA	.7212	BC3	.2126	FSP	-163

MID-COURSE EXECUTION ACCURACY

SGT	842.0	SGR	436.7	SG3	70.7		
RRT	-.0360	RRF	.0389	RTF	-.6996		
SGB	948.5	R23	-.0045	R13	.6998		
SG1	842.2	SG2	436.3	THA	178.54		

ORBIT DETERMINATION ACCURACY

ST	446.5	SR	392.7	SS	384.8
CRT	-.8118	CRS	-.9356	CST	.9634
LSA	684.6	MSA	180.7	SSA	16.7
EL1	566.5	EL2	180.7	ALF	139.51

LAUNCH DATE JUN 20 1967 FLIGHT TIME 76.00 ARRIVAL DATE SEP 4 1967

HELIOCENTRIC CONIC DISTANCE 182.611

RL	152.01	LAL	-.00	LOL	268.01	VL	24.152	GAL	-1.19	AZL	93.50	HCA	75.96	SMA	114.14	ECC	.33245	INC	3.4956
RP	108.83	LAP	-3.39	LOP	343.94	VP	35.725	GAP	-19.24	AZP	90.85	TAL	182.39	TAP	258.35	RCA	76.19	APO	152.08
RC	43.312	GL	-15.68	GP	-2.03	ZAL	96.59	ZAP	5.74	ETS	159.21	ZAE	160.76	ETE	31.28	ZAC	96.39	ETC	13.92

V1	29.308	V2	34.822	CLP	5.37														

PLANETOCENTRIC CONIC

C3	29.662	VHL	5.446	DLA	-10.90	RAL	165.65	RAD	6568.2	VEL	12.290	PTH	2.21	VHP	11.703	DPA	5.48	RAP	170.72

ECC	1.4882																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 57 29	1965.84	-12.86	26.31	31.66	115.45	6 30 15	1365.8	-9.33	19.41
90.00	15 8 26	5300.15	27.27	240.36	37.75	82.05	16 36 46	4700.1	25.89	231.96
100.00	7 13 22	1721.02	-14.06	7.71	31.06	116.65	7 42 3	1121.0	-10.37	.86
100.00	16 35 14	5020.21	28.59	219.54	37.53	80.88	17 58 54	4420.2	27.03	211.09
110.00	8 9 15	1546.04	-17.23	352.66	29.29	119.99	8 35 1	946.0	-13.11	345.97
110.00	17 55 51	4767.94	32.12	199.61	36.75	77.62	19 15 19	4167.9	30.08	190.99

DIFFERENTIAL CORRECTIONS

TOE	.3965	TRA	-.6759	TC3	.2433	BAU	.1056
RDE	-.3713	RRA	-.1482	RC3	.1079	FAU	.02418
FDE	-.3748	FRA	.2633	FC3	-.7058	BSP	2486
BDE	.5432	BRA	.6919	BC3	.2662	FSP	-186

MID-COURSE EXECUTION ACCURACY

SGT	876.6	SGR	437.8	SG3	78.5		
RRT	-.0438	RRF	.0473	RTF	-.7185		
SGB	979.9	R23	-.0055	R13	.7187		
SG1	876.9	SG2	437.2	THA	178.33		

ORBIT DETERMINATION ACCURACY

ST	470.3	SR	393.5	SS	408.4
CRT	-.8242	CRS	-.9430	CST	.9634
LSA	714.6	MSA	178.9	SSA	17.3
EL1	586.7	EL2	178.7	ALF	141.13

LAUNCH DATE JUN 20 1967 FLIGHT TIME 78.00 ARRIVAL DATE SEP 6 1967

HELIOCENTRIC CONIC DISTANCE 189.298

```
RL  152.01 LAL   -.00 LOL 268.01 VL  24.448 GAL  -1.33 AZL  93.46 HCA  79.13 SMA 115.57 ECC .31614 INC 3.4559 V1  29.308
RP  108.80 LAP  -3.39 LOP 347.11 VP  35.938 GAP -18.13 AZP  90.65 TAL 182.87 TAP 262.00 RCA  79.03 APO 152.10 V2  34.830
RC  43.796 GL  -16.55 GP   -2.14 ZAL  97.66 ZAP   4.14 ETS 148.59 ZAE 158.74 ETE  27.47 ZAC  95.12 ETC  13.84 CLP   3.54
```

PLANETOCENTRIC CONIC

```
C3  26.761 VHL  5.173 DLA -11.25 RAL 164.27 RAD 6568.1 VEL 12.171 PTH   2.18 VHP 11.072 DPA   4.85 RAP 171.90 ECC 1.4404
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 54 52	1928.50	-11.76	24.12	28.66	115.95	6 27 1	1328.5	-8.17	17.28
90.00	15 0 1	5286.15	27.13	239.36	34.59	81.56	16 28 7	4686.2	25.68	230.99
100.00	7 10 33	1684.34	-12.93	5.57	28.06	117.19	7 38 37	1084.3	-9.19	358.78
100.00	16 27 2	5005.54	28.43	218.48	34.35	80.34	17 50 27	4405.5	26.80	210.06
110.00	8 5 58	1510.78	-16.02	350.65	26.30	120.61	8 31 9	910.8	-11.83	344.03
110.00	17 48 6	4751.86	31.88	198.42	33.55	76.96	19 7 18	4151.9	29.76	189.85

DIFFERENTIAL CORRECTIONS

```
TOE  .3994 TRA -.6477 TC3  .3046 BAU  .1167
ROE -.3531 RRA -.1382 RC3  .1164 FAU .02573
FOE -.3998 FRA  .2530 FC3 -.8323 BSP   2614
BOE  .5331 BRA  .6623 BC3  .3261 FSP   -210
```

MID-COURSE EXECUTION ACCURACY

```
SGT  911.0 SGR  438.0 SG3   87.2
RRT -.0523 RRF  .0563 RTF -.7352
SGB 1010.8 R23 -.0063 R13  .7354
SG1  911.4 SG2  437.2 THA 178.13
```

ORBIT DETERMINATION ACCURACY

```
ST   493.9 SR   393.9 SS   432.2
CRT -.8363 CRS -.9501 CST  .9633
LSA  744.6 MSA  176.6 SSA   17.8
EL1  606.8 EL2  175.8 ALF 142.63
```

LAUNCH DATE JUN 20 1967 FLIGHT TIME 80.00 ARRIVAL DATE SEP 8 1967

HELIOCENTRIC CONIC DISTANCE 196.002

```
RL  152.01 LAL   -.00 LOL 268.01 VL  24.720 GAL  -1.47 AZL  93.42 HCA  82.30 SMA 116.93 ECC .30105 INC 3.4171 V1  29.308
RP  108.78 LAP  -3.39 LOP 350.29 VP  36.127 GAP -17.07 AZP  90.46 TAL 183.42 TAP 265.72 RCA  81.73 APO 152.13 V2  34.838
RC  44.440 GL  -17.40 GP   -2.27 ZAL  98.85 ZAP   2.82 ETS 126.05 ZAE 156.79 ETE  24.32 ZAC  93.89 ETC  13.78 CLP   1.67
```

PLANETOCENTRIC CONIC

```
C3  24.270 VHL  4.926 DLA -11.54 RAL 162.78 RAD 6568.0 VEL 12.068 PTH   2.16 VHP 10.469 DPA   4.21 RAP 173.05 ECC 1.3994
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 51 20	1894.68	-10.74	22.16	25.67	116.36	6 22 55	1294.7	-7.12	15.36
90.00	14 51 40	5271.74	26.98	238.33	31.40	81.07	16 19 32	4671.7	25.47	229.99
100.00	7 6 51	1651.08	-11.89	3.65	25.08	117.63	7 34 22	1051.1	-8.10	356.92
100.00	16 18 51	4990.58	28.25	217.41	31.16	79.80	17 42 1	4390.6	26.55	209.02
110.00	8 1 53	1478.71	-14.89	348.84	23.34	121.13	8 26 32	878.7	-10.66	342.29
110.00	17 40 18	4735.71	31.63	197.23	30.34	76.29	18 59 13	4135.7	29.42	188.72

DIFFERENTIAL CORRECTIONS

```
TOE  .4025 TRA -.6189 TC3  .3744 BAU  .1280
ROE -.3363 RRA -.1289 RC3  .1240 FAU .02747
FOE -.4275 FRA  .2406 FC3 -.9799 BSP   2745
BOE  .5245 BRA  .6322 BC3  .3945 FSP   -238
```

MID-COURSE EXECUTION ACCURACY

```
SGT  946.1 SGR  437.4 SG3   97.0
RRT -.0619 RRF  .0667 RTF -.7519
SGB 1042.3 R23 -.0076 R13  .7521
SG1  946.5 SG2  436.3 THA 177.92
```

ORBIT DETERMINATION ACCURACY

```
ST   517.5 SR   393.8 SS   457.0
CRT -.8485 CRS -.9568 CST  .9634
LSA  775.4 MSA  173.9 SSA   18.5
EL1  627.2 EL2  172.0 ALF 144.03
```

LAUNCH DATE JUN 20 1967 FLIGHT TIME 82.00 ARRIVAL DATE SEP 10 1967

HELIOCENTRIC CONIC DISTANCE 202.719

```
RL  152.01 LAL   -.00 LOL 268.01 VL  24.970 GAL  -1.62 AZL  93.38 HCA  85.47 SMA 118.22 ECC .28714 INC 3.3788 V1  29.308
RP  108.75 LAP  -3.37 LOP 353.47 VP  36.306 GAP -16.06 AZP  90.27 TAL 184.02 TAP 269.49 RCA  84.27 APO 152.16 V2  34.846
RC  45.237 GL  -18.22 GP   -2.42 ZAL 100.13 ZAP   2.43 ETS  84.04 ZAE 154.95 ETE  21.67 ZAC  92.70 ETC  13.73 CLP   -.24
```

PLANETOCENTRIC CONIC

```
C3  22.135 VHL  4.705 DLA -11.77 RAL 161.20 RAD 6567.9 VEL 11.980 PTH   2.14 VHP  9.892 DPA   3.57 RAP 174.15 ECC 1.3643
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 46 56	1864.62	-9.83	20.42	22.70	116.69	6 18 0	1264.6	-6.17	13.66
90.00	14 43 27	5256.90	26.82	237.27	28.23	80.56	16 11 4	4656.9	25.24	228.96
100.00	7 2 18	1621.46	-10.95	1.96	22.12	117.99	7 29 19	1021.5	-7.12	355.26
100.00	16 10 46	4975.29	28.06	216.31	27.98	79.25	17 33 42	4375.3	26.29	207.96
110.00	7 57 2	1450.03	-13.88	347.23	20.40	121.56	8 21 12	850.0	-9.60	340.74
110.00	17 32 32	4719.48	31.36	196.04	27.13	75.64	18 51 11	4119.5	29.07	187.58

DIFFERENTIAL CORRECTIONS

```
TOE  .4028 TRA -.5898 TC3  .4493 BAU  .1384
ROE -.3208 RRA -.1202 RC3  .1304 FAU .02947
FOE -.4575 FRA  .2252 FC3-1.1525 BSP   2855
BOE  .5149 BRA  .6019 BC3  .4678 FSP   -269
```

MID-COURSE EXECUTION ACCURACY

```
SGT  978.6 SGR  436.0 SG3  108.1
RRT -.0705 RRF  .0784 RTF -.7656
SGB 1071.3 R23 -.0112 R13  .7660
SG1  979.2 SG2  434.6 THA 177.76
```

ORBIT DETERMINATION ACCURACY

```
ST   537.8 SR   393.3 SS   482.4
CRT -.8592 CRS -.9632 CST  .9627
LSA  804.3 MSA  171.3 SSA   19.1
EL1  644.8 EL2  167.8 ALF 145.16
```

LAUNCH DATE JUN 20 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 12 1967

HELIOCENTRIC CONIC DISTANCE 209.444

```
RL  152.01 LAL   -.00 LOL 268.01 VL  25.198 GAL  -1.76 AZL  93.34 HCA  88.64 SMA 119.44 ECC .27435 INC 3.3409 V1  29.308
RP  108.72 LAP  -3.34 LOP 356.65 VP  36.472 GAP -15.09 AZP  90.08 TAL 184.67 TAP 273.32 RCA  86.67 APO 152.20 V2  34.856
RC  46.178 GL  -19.01 GP   -2.58 ZAL 101.50 ZAP   3.38 ETS  49.09 ZAE 153.25 ETE  19.39 ZAC  91.56 ETC  13.70 CLP  -2.19
```

PLANETOCENTRIC CONIC

```
C3  20.307 VHL  4.506 DLA -11.93 RAL 159.54 RAD 6567.8 VEL 11.903 PTH   2.11 VHP  9.341 DPA   2.93 RAP 175.20 ECC 1.3342
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 41 41	1838.47	-9.03	18.92	19.78	116.95	6 12 19	1238.5	-5.34	12.18
90.00	14 35 30	5241.58	26.65	236.18	25.08	80.05	16 2 52	4641.6	25.00	227.90
100.00	6 56 57	1595.62	-10.12	.49	19.20	118.28	7 23 32	995.6	-6.26	353.82
100.00	16 2 55	4959.66	27.86	215.19	24.83	78.70	17 25 35	4359.7	26.02	206.88
110.00	7 51 28	1424.87	-12.98	345.84	17.51	121.90	8 15 13	824.9	-8.67	339.40
110.00	17 24 53	4703.18	31.08	194.85	23.96	74.99	18 43 16	4103.2	28.70	186.46

DIFFERENTIAL CORRECTIONS

```
TOE  .4085 TRA -.5596 TC3  .5350 BAU  .1498
ROE -.3067 RRA -.1122 RC3  .1352 FAU .03170
FOE -.4911 FRA  .2059 FC3-1.3514 BSP   3016
BOE  .5108 BRA  .5708 BC3  .5518 FSP   -305
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1015.4 SGR  433.8 SG3  120.5
RRT -.0858 RRF  .0928 RTF -.7811
SGB 1104.2 R23 -.0110 R13  .7815
SG1 1016.3 SG2  431.8 THA 177.44
```

ORBIT DETERMINATION ACCURACY

```
ST   563.5 SR   392.5 SS   508.9
CRT -.8725 CRS -.9692 CST  .9634
LSA  837.9 MSA  167.6 SSA   19.7
EL1  667.4 EL2  161.9 ALF 146.48
```

LAUNCH DATE JUN 20 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 14 1967

HELIOCENTRIC CONIC DISTANCE 216.174

RL 152.01 LAL -.00 LOL 268.01 VL 25.406 GAL -1.91 AZL 93.30 HCA 91.82 SMA 120.58 ECC .26263 INC 3.3030 VI 29.308
RP 108.69 LAP -3.30 LOP 359.83 VP 36.626 GAP -14.16 AZP 89.90 TAL 185.38 TAP 277.19 RCA 88.91 APO 152.25 V2 34.865
RC 47.255 GL -19.75 GP -2.75 ZAL 102.94 ZAP 5.03 ETS 32.60 ZAE 151.73 ETE 17.40 ZAC 90.48 ETC 13.68 CLP -4.21

PLANETOCENTRIC CONIC

C3 18.743 VHL 4.329 DLA -12.03 RAL 157.84 RAD 6567.8 VEL 11.837 PTH 2.10 VHP 8.814 DPA 2.30 RAP 176.19 ECC 1.3085

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 35 40	1816.33	-8.34	17.66	16.91	117.16	6 5 56	1216.3	-4.63	10.94
90.00	14 27 54	5225.76	26.46	235.07	21.99	79.52	15 55 0	4625.8	24.74	226.82
100.00	6 50 52	1573.67	-9.41	359.24	16.34	118.50	7 17 6	973.7	-5.53	352.60
100.00	15 55 23	4943.65	27.64	214.05	21.73	78.14	17 17 46	4343.7	25.73	205.78
110.00	7 45 16	1403.31	-12.20	344.66	14.68	122.18	8 8 39	803.3	-7.86	338.25
110.00	17 17 28	4686.78	30.78	193.67	20.85	74.34	18 35 35	4086.8	28.33	185.33

DIFFERENTIAL CORRECTIONS
TDE .4109 TRA -.5292 TC3 .6238 BAU .1601
RDE -.2940 RRA -.1048 RC3 .1378 FAU .03424
FDE -.5278 FRA .1833 FC3-1.5816 BSP 3147
BDE .5052 BRA .5394 BC3 .6388 FSP -346

MID-COURSE EXECUTION ACCURACY
SGT 1048.8 SGR 430.9 SG3 134.5
RRT -.1009 RRF .1091 RTF -.7942
SGB 1133.9 R23 -.0131 R13 .7946
SG1 1049.9 SG2 428.3 THA 177.15

ORBIT DETERMINATION ACCURACY
ST 584.9 SR 391.4 SS 535.9
CRT -.8840 CRS -.9747 CST .9634
LSA 868.9 MSA 164.3 SSA 20.4
EL1 686.2 EL2 155.9 ALF 147.51

LAUNCH DATE JUN 20 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 16 1967

HELIOCENTRIC CONIC DISTANCE 222.906

RL 152.01 LAL -.00 LOL 268.01 VL 25.597 GAL -2.05 AZL 93.27 HCA 94.99 SMA 121.66 ECC .25193 INC 3.2650 VI 29.308
RP 108.66 LAP -3.25 LOP 3.01 VP 36.768 GAP -13.27 AZP 89.72 TAL 186.11 TAP 281.11 RCA 91.01 APO 152.30 V2 34.875
RC 48.498 GL -20.44 GP -2.95 ZAL 104.43 ZAP 6.94 ETS 24.45 ZAE 150.40 ETE 15.63 ZAC 89.47 ETC 13.67 CLP -6.29

PLANETOCENTRIC CONIC

C3 17.408 VHL 4.172 DLA -12.05 RAL 156.10 RAD 6567.7 VEL 11.781 PTH 2.08 VHP 8.311 DPA 1.68 RAP 177.11 ECC 1.2865

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 28 58	1798.18	-7.77	16.62	14.12	117.31	5 58 56	1198.2	-4.05	9.92
90.00	14 20 45	5209.42	26.25	233.91	18.98	78.97	15 47 35	4609.4	24.46	225.70
100.00	6 44 9	1555.57	-8.82	358.22	13.56	118.68	7 10 5	955.6	-4.92	351.60
100.00	15 48 15	4927.26	27.41	212.89	18.71	77.57	17 10 22	4327.3	25.42	204.66
110.00	7 38 31	1385.32	-11.55	343.67	11.93	122.40	8 1 36	785.3	-7.19	337.29
110.00	17 10 22	4670.27	30.47	192.48	17.81	73.70	18 28 13	4070.3	27.94	184.20

DIFFERENTIAL CORRECTIONS
TDE .4122 TRA -.4989 TC3 .7157 BAU .1696
RDE -.2824 RRA -.0981 RC3 .1377 FAU .03711
FDE -.5680 FRA .1570 FC3-1.8453 BSP 3263
BDE .4997 BRA .5085 BC3 .7288 FSP -392

MID-COURSE EXECUTION ACCURACY
SGT 1080.7 SGR 427.3 SG3 150.3
RRT -.1178 RRF .1280 RTF -.8059
SGB 1162.2 R23 -.0159 R13 .8065
SG1 1082.1 SG2 423.8 THA 176.85

ORBIT DETERMINATION ACCURACY
ST 604.1 SR 390.1 SS 563.1
CRT -.8946 CRS -.9796 CST .9632
LSA 898.7 MSA 161.4 SSA 21.0
EL1 703.3 EL2 149.7 ALF 148.39

LAUNCH DATE JUN 20 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 18 1967

HELIOCENTRIC CONIC DISTANCE 229.635

RL 152.01 LAL -.00 LOL 268.01 VL 25.770 GAL -2.19 AZL 93.23 HCA 98.17 SMA 122.66 ECC .24220 INC 3.2266 VI 29.308
RP 108.63 LAP -3.19 LOP 6.19 VP 36.898 GAP -12.41 AZP 89.54 TAL 186.88 TAP 285.06 RCA 92.95 APO 152.36 V2 34.886
RC 49.776 GL -21.06 GP -3.18 ZAL 105.94 ZAP 9.02 ETS 19.80 ZAE 149.29 ETE 14.04 ZAC 88.54 ETC 13.67 CLP -8.44

PLANETOCENTRIC CONIC

C3 16.269 VHL 4.034 DLA -12.01 RAL 154.36 RAD 6567.7 VEL 11.733 PTH 2.07 VHP 7.832 DPA 1.06 RAP 177.95 ECC 1.2677

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 21 41	1783.93	-7.33	15.81	11.43	117.43	5 51 25	1183.9	-3.60	9.12
90.00	14 14 8	5192.57	26.02	232.73	16.07	78.42	15 40 41	4592.6	24.16	224.56
100.00	6 36 55	1541.24	-8.35	357.42	10.88	118.81	7 2 36	941.2	-4.44	350.81
100.00	15 41 36	4910.48	27.15	211.71	15.79	77.00	17 3 27	4310.5	25.09	203.51
110.00	7 31 19	1370.84	-11.02	342.89	9.28	122.57	7 54 10	770.8	-6.64	336.52
110.00	17 3 41	4653.66	30.15	191.29	14.88	73.07	18 21 14	4053.7	27.54	183.08

DIFFERENTIAL CORRECTIONS
TDE .4126 TRA -.4686 TC3 .8095 BAU .1785
RDE -.2721 RRA -.0921 RC3 .1345 FAU .04036
FDE -.6124 FRA .1259 FC3-2.1479 BSP 3376
BDE .4943 BRA .4776 BC3 .8206 FSP -445

MID-COURSE EXECUTION ACCURACY
SGT 1110.5 SGR 423.2 SG3 168.3
RRT -.1376 RRF .1502 RTF -.8165
SGB 1188.4 R23 -.0195 R13 .8172
SG1 1112.3 SG2 418.5 THA 176.50

ORBIT DETERMINATION ACCURACY
ST 621.0 SR 388.6 SS 590.9
CRT -.9046 CRS -.9839 CST .9629
LSA 927.4 MSA 158.7 SSA 21.6
EL1 718.4 EL2 143.2 ALF 149.13

LAUNCH DATE JUN 20 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 20 1967

HELIOCENTRIC CONIC DISTANCE 236.359

RL 152.01 LAL -.00 LOL 268.01 VL 25.927 GAL -2.32 AZL 93.19 HCA 101.35 SMA 123.59 ECC .23338 INC 3.1875 VI 29.308
RP 108.59 LAP -3.13 LOP 9.38 VP 37.019 GAP -11.59 AZP 89.37 TAL 187.67 TAP 289.02 RCA 94.74 APO 152.43 V2 34.897
RC 51.201 GL -21.61 GP -3.43 ZAL 107.46 ZAP 11.22 ETS 16.85 ZAE 148.40 ETE 12.57 ZAC 87.69 ETC 13.69 CLP -10.69

PLANETOCENTRIC CONIC

C3 15.298 VHL 3.911 DLA -11.91 RAL 152.64 RAD 6567.6 VEL 11.691 PTH 2.06 VHP 7.374 DPA .45 RAP 178.70 ECC 1.2518

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 13 58	1773.41	-7.00	15.22	8.85	117.51	5 43 31	1173.4	-3.26	8.53
90.00	14 8 7	5175.21	25.78	231.52	13.27	77.86	15 34 22	4575.2	23.85	223.38
100.00	6 29 15	1530.52	-8.00	356.82	8.31	118.90	6 54 45	930.5	-4.08	350.22
100.00	15 35 31	4893.33	26.89	210.50	12.99	76.42	16 57 5	4293.3	24.75	202.36
110.00	7 23 48	1359.69	-10.61	342.28	6.74	122.69	7 46 27	759.7	-6.22	335.93
110.00	16 57 28	4636.93	29.81	190.11	12.07	72.44	18 14 45	4036.9	27.12	181.95

DIFFERENTIAL CORRECTIONS
TDE .4121 TRA -.4386 TC3 .9026 BAU .1864
RDE -.2629 RRA -.0869 RC3 .1275 FAU .04407
FDE -.6617 FRA .0896 FC3-2.4938 BSP 3482
BDE .4888 BRA .4471 BC3 .9116 FSP -505

MID-COURSE EXECUTION ACCURACY
SGT 1137.6 SGR 418.6 SG3 188.6
RRT -.1610 RRF .1765 RTF -.8260
SGB 1212.2 R23 -.0237 R13 .8268
SG1 1139.9 SG2 412.3 THA 176.10

ORBIT DETERMINATION ACCURACY
ST 635.4 SR 387.1 SS 619.2
CRT -.9138 CRS -.9876 CST .9625
LSA 955.0 MSA 156.5 SSA 22.1
EL1 731.4 EL2 136.6 ALF 149.73

LAUNCH DATE JUN 20 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 22 1967

DISTANCE 243.076

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.070 GAL -2.45 AZL 93.15 HCA 104.54 SMA 124.44 ECC .22541 INC 3.1476 VI 29.308
RP 108.56 LAP -3.05 LOP 12.56 VP 37.130 GAP -10.80 AZP 89.21 TAL 188.47 TAP 293.00 RCA 96.39 APO 152.50 V2 34.908
RC 52.722 GL -22.08 GP -3.71 ZAL 108.97 ZAP 13.54 ETS 14.85 ZAE 147.75 ETE 11.18 ZAC 86.96 ETC 13.71 CLP -13.03

PLANETOCENTRIC CONIC
C3 14.471 VHL 3.804 DLA -11.75 RAL 150.96 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 6.939 DPA -.16 RAP 179.34 ECC 1.2381

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 5 55	1766.38	-6.78	14.82	6.41	117.56	5 35 21	1166.4	-3.03	8.14
90.00	14 2 45	5157.40	25.52	230.28	10.62	77.29	15 28 43	4557.4	23.52	222.18
100.00	6 21 18	1523.18	-7.76	356.41	5.88	118.96	6 46 41	923.2	-3.83	349.81
100.00	15 30 4	4875.83	26.60	209.28	10.33	75.83	16 51 20	4275.8	24.39	201.18
110.00	7 16 3	1351.68	-10.31	341.85	4.33	122.77	7 38 35	751.7	-5.92	335.51
110.00	16 51 47	4620.10	29.46	188.92	9.39	71.82	18 8 47	4020.1	26.69	180.83

DIFFERENTIAL CORRECTIONS
TDE .4102 TRA -.4090 TC3 .9932 BAU .1935
RDE -.2548 RRA -.0823 RC3 .1164 FAU .04828
FDE -.7162 FRA .0477 FC3-2.8884 BSP 3577
BDE .4829 BRA .4172 BC3 1.0000 FSP -575

MID-COURSE EXECUTION ACCURACY
SGT 1161.3 SGR 413.7 SG3 211.6
RRT -.1883 RRF .2073 RTF -.8344
SGB 1232.8 R23 -.0289 R13 .8355
SG1 1164.3 SG2 405.2 THA 175.63

ORBIT DETERMINATION ACCURACY
ST 646.5 SR 385.6 SS 648.1
CRT -.9221 CRS -.9906 CST .9619
LSA 980.9 MSA 155.0 SSA 22.5
EL1 741.4 EL2 130.1 ALF 150.18

LAUNCH DATE JUN 20 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 24 1967

DISTANCE 249.782

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.199 GAL -2.56 AZL 93.11 HCA 107.72 SMA 125.23 ECC .21825 INC 3.1064 VI 29.308
RP 108.52 LAP -2.96 LOP 15.75 VP 37.231 GAP -10.04 AZP 89.05 TAL 189.27 TAP 296.99 RCA 97.90 APO 152.57 V2 34.920
RC 54.330 GL -22.48 GP -4.03 ZAL 110.44 ZAP 16.00 ETS 13.42 ZAE 147.36 ETE 9.86 ZAC 86.34 ETC 13.75 CLP -15.49

PLANETOCENTRIC CONIC
C3 13.765 VHL 3.710 DLA -11.54 RAL 149.34 RAD 6567.5 VEL 11.625 PTH 2.04 VHP 6.526 DPA -.74 RAP 179.87 ECC 1.2265

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 57 40	1762.55	-6.66	14.60	4.11	117.59	5 27 2	1162.6	-2.91	7.92
90.00	13 58 6	5139.19	25.24	229.02	8.11	76.72	15 23 45	4539.2	23.16	220.96
100.00	6 13 10	1518.94	-7.62	356.17	3.59	118.99	6 38 29	918.9	-3.69	349.58
100.00	15 25 16	4858.04	26.30	208.05	7.82	75.25	16 46 14	4258.0	24.01	199.99
110.00	7 8 13	1346.55	-10.12	341.57	2.07	122.83	7 30 40	746.5	-5.73	335.24
110.00	16 46 43	4603.19	29.09	187.74	6.86	71.21	18 3 26	4003.2	26.25	179.71

DIFFERENTIAL CORRECTIONS
TDE .4064 TRA -.3808 TC3 1.0764 BAU .1989
RDE -.2476 RRA -.0785 RC3 .1005 FAU .05304
FDE -.7760 FRA .0000 FC3-3.3358 BSP 3648
BDE .4759 BRA .3888 BC3 1.0811 FSP -654

MID-COURSE EXECUTION ACCURACY
SGT 1179.8 SGR 408.7 SG3 237.6
RRT -.2200 RRF .2433 RTF -.8411
SGB 1248.6 R23 -.0354 R13 .8425
SG1 1183.7 SG2 397.4 THA 175.09

ORBIT DETERMINATION ACCURACY
ST 653.4 SR 384.2 SS 677.0
CRT -.9292 CRS -.9930 CST .9610
LSA 1004.2 MSA 154.1 SSA 22.8
EL1 747.7 EL2 124.0 ALF 150.46

LAUNCH DATE JUN 20 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 26 1967

DISTANCE 256.476

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.314 GAL -2.67 AZL 93.06 HCA 110.91 SMA 125.96 ECC .21184 INC 3.0637 VI 29.308
RP 108.48 LAP -2.86 LOP 18.94 VP 37.324 GAP -9.30 AZP 88.91 TAL 190.05 TAP 300.96 RCA 99.28 APO 152.64 V2 34.932
RC 56.016 GL -22.78 GP -4.39 ZAL 111.87 ZAP 18.59 ETS 12.36 ZAE 147.23 ETE 8.55 ZAC 85.85 ETC 13.79 CLP -18.08

PLANETOCENTRIC CONIC
C3 13.161 VHL 3.628 DLA -11.27 RAL 147.80 RAD 6567.5 VEL 11.599 PTH 2.03 VHP 6.134 DPA -1.32 RAP 180.27 ECC 1.2166

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 49 20	1761.62	-6.63	14.55	1.96	117.59	5 18 42	1161.6	-2.88	7.87
90.00	13 54 9	5120.62	24.94	227.74	5.77	76.14	15 19 30	4520.6	22.79	219.73
100.00	6 5 0	1517.50	-7.57	356.09	1.45	119.00	6 30 18	917.5	-3.64	349.50
100.00	15 21 10	4839.97	25.98	206.80	5.47	74.67	16 41 50	4240.0	23.62	198.79
110.00	7 0 24	1344.03	-10.03	341.44	359.96	122.85	7 22 48	744.0	-5.63	335.11
110.00	16 42 16	4586.21	28.72	186.57	4.50	70.61	17 58 42	3986.2	25.80	178.60

DIFFERENTIAL CORRECTIONS
TDE .4031 TRA -.3515 TC3 1.1581 BAU .2043
RDE -.2415 RRA -.0756 RC3 .0790 FAU .05857
FDE -.8448 FRA -.0571 FC3-3.8528 BSP 3762
BDE .4699 BRA .3595 BC3 1.1608 FSP -749

MID-COURSE EXECUTION ACCURACY
SGT 1196.6 SGR 404.4 SG3 267.7
RRT -.2599 RRF .2871 RTF -.8485
SGB 1263.1 R23 -.0420 R13 .8503
SG1 1201.7 SG2 388.8 THA 174.39

ORBIT DETERMINATION ACCURACY
ST 659.4 SR 383.1 SS 708.6
CRT -.9364 CRS -.9950 CST .9605
LSA 1029.4 MSA 153.4 SSA 22.9
EL1 753.5 EL2 117.6 ALF 150.67

LAUNCH DATE JUN 20 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 28 1967

DISTANCE 263.155

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.418 GAL -2.78 AZL 93.02 HCA 114.10 SMA 126.62 ECC .20612 INC 3.0191 VI 29.308
RP 108.45 LAP -2.76 LOP 22.13 VP 37.409 GAP -8.60 AZP 88.77 TAL 190.81 TAP 304.91 RCA 100.52 APO 152.71 V2 34.945
RC 57.772 GL -23.01 GP -4.81 ZAL 113.24 ZAP 21.34 ETS 11.55 ZAE 147.37 ETE 7.23 ZAC 85.52 ETC 13.84 CLP -20.82

PLANETOCENTRIC CONIC
C3 12.644 VHL 3.556 DLA -10.96 RAL 146.36 RAD 6567.5 VEL 11.577 PTH 2.02 VHP 5.763 DPA -1.88 RAP 180.51 ECC 1.2081

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 41 4	1763.24	-6.68	14.64	359.99	117.58	5 10 27	1163.2	-2.93	7.96
90.00	13 50 58	5101.75	24.63	226.45	3.59	75.57	15 16 0	4501.8	22.41	218.48
100.00	5 56 55	1518.53	-7.60	356.15	359.49	119.00	6 22 13	918.5	-3.68	349.56
100.00	15 17 48	4821.69	25.64	205.54	3.29	74.09	16 38 10	4221.7	23.21	197.59
110.00	6 52 42	1343.81	-10.02	341.42	358.02	122.85	7 15 6	743.8	-5.62	335.10
110.00	16 38 30	4569.17	28.33	185.39	2.32	70.01	17 54 39	3969.2	25.34	177.49

DIFFERENTIAL CORRECTIONS
TDE .3950 TRA -.3264 TC3 1.2215 BAU .2067
RDE -.2361 RRA -.0733 RC3 .0518 FAU .06471
FDE -.9174 FRA -.1187 FC3-4.4310 BSP 3792
BDE .4602 BRA .3345 BC3 1.2226 FSP -852

MID-COURSE EXECUTION ACCURACY
SGT 1202.8 SGR 400.7 SG3 301.2
RRT -.3024 RRF .3363 RTF -.8523
SGB 1267.8 R23 -.0525 R13 .8547
SG1 1209.6 SG2 379.8 THA 173.62

ORBIT DETERMINATION ACCURACY
ST 657.0 SR 382.1 SS 738.1
CRT -.9413 CRS -.9963 CST .9590
LSA 1048.0 MSA 154.2 SSA 22.9
EL1 751.6 EL2 112.8 ALF 150.57

LAUNCH DATE JUN 20 1967 FLIGHT TIME 102.00 ARRIVAL DATE SEP 30 1967

HELIOCENTRIC CONIC DISTANCE 269.819

```
RL  152.01 LAL   -.00 LOL 268.01 VL  26.511 GAL  -2.87 AZL  92.97 HCA 117.29 SMA 127.21 ECC .20104 INC 2.9723 V1  29.308
RP  108.41 LAP  -2.64 LOP  25.32 VP  37.486 GAP  -7.92 AZP  88.64 TAL 191.54 TAP 308.83 RCA 101.64 APO 152.79 V2  34.957
RC  59.590 GL  -23.15 GP   -5.28 ZAL 114.53 ZAP  24.27 ETS  10.93 ZAE 147.79 ETE   5.85 ZAC  85.36 ETC  13.89 CLP -23.72
```

PLANETOCENTRIC CONIC

```
C3  12.198 VHL  3.493 DLA -10.62 RAL 145.04 RAD 6567.5 VEL 11.558 PTH   2.02 VHP  5.414 DPA  -2.43 RAP 180.57 ECC 1.2007
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 32 56	1767.09	-6.80	14.86	358.18	117.55	5 2 23	1167.1	-3.06	8.18
90.00	13 48 32	5082.61	24.30	225.14	1.60	74.99	15 13 14	4482.6	22.00	217.22
100.00	5 48 59	1521.74	-7.71	356.33	357.69	118.97	6 14 21	921.7	-3.79	349.74
100.00	15 15 10	4803.20	25.29	204.28	1.29	73.51	16 35 13	4203.2	22.79	196.38
110.00	6 45 13	1345.63	-10.09	341.52	356.25	122.83	7 7 39	745.6	-5.69	335.19
110.00	16 35 25	4552.07	27.92	184.23	.30	69.43	17 51 17	3952.1	24.87	176.39

DIFFERENTIAL CORRECTIONS

```
TDE  .3853 TRA -.3030 TC3 1.2717 BAU  .2074
RDE -.2316 RRA -.0718 RC3  .0175 FAU .07172
FDE -.9986 FRA -.1890 FC3-5.0907 BSP   3806
BDE  .4495 BRA  .3114 BC3 1.2718 FSP   -970
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1201.8 SGR  398.6 SG3  339.4
RRT -.3520 RRF  .3939 RTF -.8547
SGB 1266.2 R23 -.0656 R13  .8580
SG1 1210.8 SG2  370.3 THA 172.65
```

ORBIT DETERMINATION ACCURACY

```
ST   650.5 SR   381.7 SS   769.2
CRT -.9452 CRS -.9972 CST  .9571
LSA 1065.8 MSA  155.5 SSA   22.8
EL1  746.4 EL2  108.6 ALF 150.30
```

LAUNCH DATE JUN 20 1967 FLIGHT TIME 104.00 ARRIVAL DATE OCT 2 1967

HELIOCENTRIC CONIC DISTANCE 276.465

```
RL  152.01 LAL   -.00 LOL 268.01 VL  26.594 GAL  -2.95 AZL  92.92 HCA 120.48 SMA 127.75 ECC .19655 INC 2.9225 V1  29.308
RP  108.37 LAP  -2.52 LOP  28.52 VP  37.556 GAP  -7.26 AZP  88.52 TAL 192.23 TAP 312.71 RCA 102.64 APO 152.86 V2  34.970
RC  61.464 GL  -23.21 GP   -5.82 ZAL 115.73 ZAP  27.39 ETS  10.44 ZAE 148.51 ETE   4.36 ZAC  85.40 ETC  13.94 CLP -26.81
```

PLANETOCENTRIC CONIC

```
C3  11.810 VHL  3.437 DLA -10.23 RAL 143.84 RAD 6567.5 VEL 11.541 PTH   2.01 VHP  5.086 DPA  -2.96 RAP 180.45 ECC 1.1944
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 25 1	1772.90	-6.98	15.19	356.55	117.51	4 54 34	1172.9	-3.24	8.50
90.00	13 46 52	5063.19	23.95	223.83	359.78	74.42	15 11 15	4463.2	21.58	215.95
100.00	5 41 18	1526.84	-7.88	356.61	356.07	118.93	6 6 44	926.8	-3.96	350.02
100.00	15 13 17	4784.48	24.92	203.01	359.47	72.94	16 33 1	4184.5	22.35	195.16
110.00	6 38 1	1349.22	-10.22	341.72	354.65	122.80	7 0 30	749.2	-5.83	335.38
110.00	16 33 3	4534.86	27.50	183.06	358.47	68.85	17 48 38	3934.9	24.38	175.29

DIFFERENTIAL CORRECTIONS

```
TDE  .3738 TRA -.2809 TC3 1.3083 BAU  .2066
RDE -.2281 RRA -.0714 RC3 -.0247 FAU .07969
FDE-1.0883 FRA -.2692 FC3-5.8418 BSP   3825
BDE  .4379 BRA  .2898 BC3 1.3085 FSP  -1110
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1193.1 SGR  399.4 SG3  382.7
RRT -.4087 RRF  .4597 RTF -.8561
SGB 1258.2 R23 -.0817 R13  .8606
SG1 1205.3 SG2  360.8 THA 171.44
```

ORBIT DETERMINATION ACCURACY

```
ST   640.0 SR   382.0 SS   801.4
CRT -.9484 CRS -.9977 CST  .9551
LSA 1082.9 MSA  157.1 SSA   22.5
EL1  737.9 EL2  105.1 ALF 149.81
```

LAUNCH DATE JUN 20 1967 FLIGHT TIME 106.00 ARRIVAL DATE OCT 4 1967

HELIOCENTRIC CONIC DISTANCE 283.094

```
RL  152.01 LAL   -.00 LOL 268.01 VL  26.666 GAL  -3.02 AZL  92.87 HCA 123.68 SMA 128.23 ECC .19260 INC 2.8694 V1  29.308
RP  108.33 LAP  -2.39 LOP  31.71 VP  37.620 GAP  -6.63 AZP  88.41 TAL 192.86 TAP 316.53 RCA 103.53 APO 152.92 V2  34.983
RC  63.388 GL  -23.18 GP   -6.43 ZAL 116.84 ZAP  30.72 ETS  10.04 ZAE 149.52 ETE   2.69 ZAC  85.64 ETC  13.98 CLP -30.10
```

PLANETOCENTRIC CONIC

```
C3  11.469 VHL  3.387 DLA  -9.82 RAL 142.77 RAD 6567.4 VEL 11.526 PTH   2.01 VHP  4.780 DPA  -3.48 RAP 180.11 ECC 1.1888
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 17 25	1780.41	-7.22	15.61	355.10	117.46	4 47 5	1180.4	-3.48	8.92
90.00	13 45 58	5043.46	23.58	222.50	358.15	73.85	15 10 1	4443.5	21.14	214.67
100.00	5 33 55	1533.60	-8.10	356.99	354.63	118.87	5 59 29	933.6	-4.19	350.39
100.00	15 12 9	4765.50	24.54	201.73	357.83	72.37	16 31 34	4165.5	21.90	193.93
110.00	6 31 9	1354.36	-10.41	341.99	353.23	122.74	6 53 44	754.4	-6.02	335.65
110.00	16 31 24	4517.51	27.07	181.90	356.82	68.29	17 46 41	3917.5	23.88	174.19

DIFFERENTIAL CORRECTIONS

```
TDE  .3576 TRA -.2638 TC3 1.3175 BAU  .2024
RDE -.2253 RRA -.0717 RC3 -.0757 FAU .08851
FDE-1.1828 FRA -.3547 FC3-6.6809 BSP   3764
BDE  .4226 BRA  .2734 BC3 1.3197 FSP  -1262
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1169.4 SGR  403.8 SG3  430.7
RRT -.4670 RRF  .5314 RTF -.8530
SGB 1237.2 R23 -.1053 R13  .8597
SG1 1186.0 SG2  352.1 THA 169.94
```

ORBIT DETERMINATION ACCURACY

```
ST   620.6 SR   382.9 SS   831.8
CRT -.9493 CRS -.9980 CST  .9516
LSA 1094.4 MSA  159.8 SSA   22.1
EL1  721.9 EL2  103.5 ALF 148.93
```

LAUNCH DATE JUN 20 1967 FLIGHT TIME 108.00 ARRIVAL DATE OCT 6 1967

HELIOCENTRIC CONIC DISTANCE 289.702

```
RL  152.01 LAL   -.00 LOL 268.01 VL  26.730 GAL  -3.08 AZL  92.81 HCA 126.87 SMA 128.65 ECC .18915 INC 2.8122 V1  29.308
RP  108.29 LAP  -2.25 LOP  34.91 VP  37.678 GAP  -6.02 AZP  88.31 TAL 193.43 TAP 320.31 RCA 104.32 APO 152.98 V2  34.996
RC  65.357 GL  -23.07 GP   -7.13 ZAL 117.85 ZAP  34.28 ETS   9.71 ZAE 150.84 ETE    .75 ZAC  86.13 ETC  14.00 CLP -33.62
```

PLANETOCENTRIC CONIC

```
C3  11.166 VHL  3.342 DLA  -9.37 RAL 141.85 RAD 6567.4 VEL 11.513 PTH   2.01 VHP  4.496 DPA  -4.00 RAP 179.53 ECC 1.1838
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 10 8	1789.44	-7.50	16.13	353.83	117.39	4 39 57	1189.4	-3.77	9.43
90.00	13 45 52	5023.32	23.20	221.15	356.69	73.29	15 9 35	4423.3	20.69	213.37
100.00	5 26 53	1541.84	-8.37	357.45	353.36	118.80	5 52 35	941.8	-4.46	350.84
100.00	15 11 48	4746.16	24.13	200.44	356.37	71.80	16 30 54	4146.2	21.42	192.69
110.00	6 24 40	1360.88	-10.65	342.35	351.99	122.68	6 47 21	760.9	-6.27	336.00
110.00	16 30 30	4499.88	26.62	180.72	355.35	67.72	17 45 30	3899.9	23.37	173.08

DIFFERENTIAL CORRECTIONS

```
TDE  .3382 TRA -.2507 TC3 1.3009 BAU  .1953
RDE -.2234 RRA -.0730 RC3 -.1371 FAU .09828
FDE-1.2836 FRA -.4464 FC3-7.6202 BSP   3654
BDE  .4053 BRA  .2611 BC3 1.3081 FSP  -1430
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1132.2 SGR  413.8 SG3  484.0
RRT -.5262 RRF  .6074 RTF -.8460
SGB 1205.4 R23 -.1370 R13  .8564
SG1 1155.0 SG2  344.9 THA 168.03
```

ORBIT DETERMINATION ACCURACY

```
ST   594.9 SR   385.0 SS   861.8
CRT -.9484 CRS -.9981 CST  .9469
LSA 1103.6 MSA  162.9 SSA   21.6
EL1  701.0 EL2  103.6 ALF 147.67
```

LAUNCH DATE JUN 20 1967 FLIGHT TIME 110.00 ARRIVAL DATE OCT 8 1967

DISTANCE 296.291

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.786 GAL -3.13 AZL 92.75 HCA 130.07 SMA 129.02 ECC .18615 INC 2.7498 V1 29.308
RP 108.25 LAP -2.10 LOP 38.11 VP 37.729 GAP -5.43 AZP 88.23 TAL 193.94 TAP 324.02 RCA 105.00 APO 153.04 V2 35.009
RC 67.365 GL -22.88 GP -7.94 ZAL 118.75 ZAP 38.10 ETS 9.41 ZAE 152.45 ETE 358.39 ZAC 86.88 ETC 14.00 CLP -37.38

PLANETOCENTRIC CONIC
C3 10.891 VHL 3.300 DLA -8.89 RAL 141.07 RAD 6567.4 VEL 11.501 PTH 2.00 VHP 4.235 DPA -4.50 RAP 178.69 ECC 1.1792

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 3 12	1799.90	-7.83	16.72	352.73	117.30	4 33 12	1199.9	-4.11	10.02
90.00	13 46 34	5002.61	22.78	219.77	355.40	72.71	15 9 57	4402.6	20.20	212.05
100.00	5 20 13	1551.46	-8.68	357.99	352.27	118.72	5 46 4	951.5	-4.79	351.38
100.00	15 12 15	4726.29	23.70	199.12	355.07	71.24	16 31 1	4126.3	20.92	191.43
110.00	6 18 35	1368.68	-10.94	342.77	350.91	122.59	6 41 24	768.7	-6.56	336.41
110.00	16 30 22	4481.83	26.15	179.53	354.05	67.16	17 45 4	3881.8	22.83	171.95

DIFFERENTIAL CORRECTIONS
TDE .3151 TRA -.2413 TC3 1.2559 BAU .1854
RDE -.2225 RRA -.0753 RC3 -.2109 FAU .10903
FDE-1.3885 FRA -.5451 FC3-8.6669 BSP 3511
BDE .3857 BRA .2528 BC3 1.2734 FSP -1619

MID-COURSE EXECUTION ACCURACY
SGT 1079.9 SGR 431.4 SG3 542.7
RRT -.5808 RRF .6843 RTF -.8336
SGB 1162.9 R23 -.1794 R13 .8504
SG1 1111.7 SG2 341.1 THA 165.55

ORBIT DETERMINATION ACCURAC
ST 562.2 SR 388.4 SS 890.6
CRT -.9452 CRS -.9981 CST .9402
LSA 1110.0 MSA 166.3 SSA 21.0
EL1 675.1 EL2 105.6 ALF 145.91

LAUNCH DATE JUN 20 1967 FLIGHT TIME 112.00 ARRIVAL DATE OCT 10 1967

DISTANCE 302.858

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.833 GAL -3.17 AZL 92.68 HCA 133.28 SMA 129.34 ECC .18356 INC 2.6813 V1 29.308
RP 108.20 LAP -1.95 LOP 41.31 VP 37.775 GAP -4.86 AZP 88.16 TAL 194.38 TAP 327.65 RCA 105.60 APO 153.08 V2 35.023
RC 69.409 GL -22.60 GP -8.87 ZAL 119.56 ZAP 42.18 ETS 9.12 ZAE 154.36 ETE 355.42 ZAC 87.90 ETC 13.96 CLP -41.41

PLANETOCENTRIC CONIC
C3 10.637 VHL 3.261 DLA -8.37 RAL 140.44 RAD 6567.4 VEL 11.490 PTH 2.00 VHP 3.998 DPA -5.01 RAP 177.56 ECC 1.1751

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 56 36	1811.80	-8.20	17.40	351.80	117.20	4 26 48	1211.8	-4.49	10.68
90.00	13 48 9	4981.08	22.34	218.35	354.28	72.13	15 11 10	4381.1	19.69	210.68
100.00	5 13 53	1562.47	-9.04	358.61	351.35	118.61	5 39 56	962.5	-5.15	351.98
100.00	15 13 33	4705.64	23.25	197.76	353.95	70.66	16 31 59	4105.6	20.39	190.12
110.00	6 12 53	1377.76	-11.27	343.26	350.02	122.49	6 35 50	777.8	-6.90	336.89
110.00	16 31 3	4463.12	25.65	178.31	352.92	66.59	17 45 26	3863.1	22.26	170.79

DIFFERENTIAL CORRECTIONS
TDE .2895 TRA -.2355 TC3 1.1822 BAU .1734
RDE -.2227 RRA -.0788 RC3 -.3000 FAU .12079
FDE-1.4977 FRA -.6497 FC3-9.8317 BSP 3348
BDE .3653 BRA .2483 BC3 1.2197 FSP -1831

MID-COURSE EXECUTION ACCURACY
SGT 1013.9 SGR 459.4 SG3 607.1
RRT -.6256 RRF .7578 RTF -.8141
SGB 1113.2 R23 -.2328 R13 .8427
SG1 1058.9 SG2 343.2 THA 162.25

ORBIT DETERMINATION ACCURACY
ST 524.3 SR 393.6 SS 919.1
CRT -.9394 CRS -.9981 CST .9312
LSA 1116.0 MSA 169.6 SSA 20.4
EL1 646.4 EL2 109.4 ALF 143.60

LAUNCH DATE JUN 20 1967 FLIGHT TIME 114.00 ARRIVAL DATE OCT 12 1967

DISTANCE 309.405

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.874 GAL -3.20 AZL 92.61 HCA 136.48 SMA 129.62 ECC .18134 INC 2.6051 V1 29.308
RP 108.16 LAP -1.79 LOP 44.52 VP 37.816 GAP -4.31 AZP 88.11 TAL 194.74 TAP 331.22 RCA 106.11 APO 153.12 V2 35.036
RC 71.485 GL -22.23 GP -9.93 ZAL 120.26 ZAP 46.54 ETS 8.82 ZAE 156.52 ETE 351.52 ZAC 89.22 ETC 13.86 CLP -45.71

PLANETOCENTRIC CONIC
C3 10.396 VHL 3.224 DLA -7.81 RAL 139.96 RAD 6567.4 VEL 11.480 PTH 2.00 VHP 3.785 DPA -5.54 RAP 176.13 ECC 1.1711

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 50 18	1825.22	-8.62	18.16	351.04	117.08	4 20 43	1225.2	-4.92	11.44
90.00	13 50 40	4958.39	21.86	216.86	353.33	71.54	15 13 18	4358.4	19.13	209.24
100.00	5 7 53	1574.94	-9.45	359.32	350.60	118.49	5 34 8	974.9	-5.57	352.67
100.00	15 15 46	4683.90	22.75	196.33	352.99	70.07	16 33 50	4083.9	19.83	188.76
110.00	6 7 32	1388.16	-11.65	343.83	349.29	122.37	6 30 40	788.2	-7.29	337.44
110.00	16 32 36	4443.45	25.11	177.03	351.95	66.01	17 46 39	3843.4	21.66	169.59

DIFFERENTIAL CORRECTIONS
TDE .2582 TRA -.2364 TC3 1.0637 BAU .1582
RDE -.2238 RRA -.0831 RC3 -.4058 FAU .13304
FDE-1.5990 FRA -.7487 FC-11.0790 BSP 3102
BDE .3417 BRA .2506 BC3 1.1385 FSP -2048

MID-COURSE EXECUTION ACCURACY
SGT 927.8 SGR 498.8 SG3 674.4
RRT -.6455 RRF .8218 RTF -.7781
SGB 1053.4 R23 -.3011 R13 .8306
SG1 991.2 SG2 356.6 THA 157.84

ORBIT DETERMINATION ACCURACY
ST 476.6 SR 400.2 SS 941.1
CRT -.9276 CRS -.9981 CST .9164
LSA 1114.7 MSA 173.4 SSA 19.7
EL1 611.4 EL2 116.6 ALF 140.36

LAUNCH DATE JUN 20 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 14 1967

DISTANCE 315.929

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.908 GAL -3.22 AZL 92.52 HCA 139.69 SMA 129.85 ECC .17945 INC 2.5192 V1 29.308
RP 108.12 LAP -1.63 LOP 47.72 VP 37.853 GAP -3.77 AZP 88.08 TAL 195.02 TAP 334.71 RCA 106.55 APO 153.15 V2 35.049
RC 73.590 GL -21.74 GP -11.16 ZAL 120.86 ZAP 51.19 ETS 8.47 ZAE 158.85 ETE 346.21 ZAC 90.83 ETC 13.68 CLP -50.30

PLANETOCENTRIC CONIC
C3 10.162 VHL 3.188 DLA -7.19 RAL 139.65 RAD 6567.4 VEL 11.470 PTH 1.99 VHP 3.598 DPA -6.09 RAP 174.38 ECC 1.1672

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 44 13	1840.47	-9.09	19.04	350.46	116.93	4 14 54	1240.5	-5.40	12.29
90.00	13 54 13	4934.02	21.32	215.27	352.53	70.92	15 16 27	4334.0	18.53	207.71
100.00	5 2 7	1589.16	-9.91	.12	350.02	118.35	5 28 37	989.2	-6.05	353.46
100.00	15 19 0	4660.55	22.20	194.82	352.19	69.45	16 36 41	4060.6	19.20	187.30
110.00	6 2 30	1400.13	-12.08	344.48	348.73	122.22	6 25 50	800.1	-7.74	338.08
110.00	16 35 7	4422.35	24.52	175.68	351.14	65.40	17 48 49	3822.4	21.00	168.31

DIFFERENTIAL CORRECTIONS
TDE .2247 TRA -.2407 TC3 .9092 BAU .1432
RDE -.2260 RRA -.0887 RC3 -.5333 FAU .14588
FDE-1.6944 FRA -.8474 FC-12.4271 BSP 2876
BDE .3187 BRA .2565 BC3 1.0540 FSP -2288

MID-COURSE EXECUTION ACCURACY
SGT 830.2 SGR 553.6 SG3 745.3
RRT -.6334 RRF .8749 RTF -.7196
SGB 997.8 R23 -.3692 R13 .8215
SG1 919.9 SG2 386.6 THA 151.66

ORBIT DETERMINATION ACCURACY
ST 424.8 SR 409.2 SS 960.3
CRT -.9084 CRS -.9981 CST .8943
LSA 1112.9 MSA 176.8 SSA 19.0
EL1 576.2 EL2 126.2 ALF 136.18

LAUNCH DATE JUN 20 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 16 1967

HELIOCENTRIC CONIC DISTANCE 322.432

RL 152.01 LAL -.00 LOL 268.01 VL 26.935 GAL -3.23 AZL 92.42 HCA 142.90 SMA 130.04 ECC .17788 INC 2.4211 V1 29.308
RP 108.08 LAP -1.46 LOP 50.93 VP 37.884 GAP -3.26 AZP 88.07 TAL 195.22 TAP 338.12 RCA 106.91 APO 153.17 V2 35.062
RC 75.721 GL -21.13 GP -12.56 ZAL 121.36 ZAP 56.11 ETS 8.05 ZAE 161.22 ETE 338.75 ZAC 92.74 ETC 13.41 CLP -55.16

PLANETOCENTRIC CONIC

C3 9.931 VHL 3.151 DLA -6.49 RAL 139.50 RAD 6567.4 VEL 11.459 PTH 1.99 VHP 3.438 DPA -6.71 RAP 172.32 ECC 1.1634

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 38 15	1857.98	-9.63	20.04	350.04	116.76	4 9 13	1258.0	-5.96	13.28
90.00	13 58 59	4907.29	20.72	213.54	351.89	70.26	15 20 46	4307.3	17.84	206.05
100.00	4 56 30	1605.53	-10.44	1.05	349.61	118.17	5 23 16	1005.5	-6.59	354.37
100.00	15 23 25	4634.96	21.58	193.17	351.54	68.80	16 40 40	4035.0	18.50	185.72
110.00	5 57 41	1414.02	-12.59	345.24	348.34	122.05	6 21 15	814.0	-8.26	338.82
110.00	16 38 44	4399.25	23.86	174.21	350.48	64.76	17 52 3	3799.2	20.26	166.92

DIFFERENTIAL CORRECTIONS
TDE .1861 TRA -.2517 TC3 .7016 BAU .1301
RDE -.2286 RRA -.0946 RC3 -.6840 FAU .15829
FDE-1.7629 FRA -.9261 FC-13.7995 BSP 2629
BDE .2947 BRA .2689 BC3 .9798 FSP -2513

MID-COURSE EXECUTION ACCURACY
SGT 722.6 SGR 623.3 SG3 814.1
RRT -.5583 RRF .9151 RTF -.6094
SGB 954.3 R23 -.4159 R13 .8237
SG1 845.9 SG2 441.7 THA 142.44

ORBIT DETERMINATION ACCURACY
ST 365.7 SR 419.0 SS 967.3
CRT -.8718 CRS -.9982 CST .8547
LSA 1100.9 MSA 180.6 SSA 18.2
EL1 538.4 EL2 139.4 ALF 130.55

LAUNCH DATE JUN 20 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 18 1967

HELIOCENTRIC CONIC DISTANCE 328.913

RL 152.01 LAL -.00 LOL 268.01 VL 26.957 GAL -3.22 AZL 92.31 HCA 146.11 SMA 130.19 ECC .17657 INC 2.3073 V1 29.308
RP 108.04 LAP -1.29 LOP 54.14 VP 37.912 GAP -2.75 AZP 88.08 TAL 195.35 TAP 341.46 RCA 107.20 APO 153.18 V2 35.075
RC 77.874 GL -20.37 GP -14.17 ZAL 121.77 ZAP 61.27 ETS 7.51 ZAE 163.35 ETE 328.16 ZAC 94.93 ETC 13.00 CLP -60.28

PLANETOCENTRIC CONIC

C3 9.695 VHL 3.114 DLA -5.69 RAL 139.52 RAD 6567.3 VEL 11.449 PTH 1.99 VHP 3.308 DPA -7.43 RAP 169.95 ECC 1.1595

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 32 13	1878.55	-10.25	21.23	349.80	116.54	4 3 32	1278.5	-6.61	14.44
90.00	14 5 12	4877.19	20.02	211.62	351.39	69.54	15 26 29	4277.2	17.05	204.19
100.00	4 50 52	1624.83	-11.06	2.15	349.38	117.95	5 17 57	1024.8	-7.23	355.45
100.00	15 29 14	4606.14	20.86	191.33	351.04	68.09	16 46 0	4006.1	17.70	183.96
110.00	5 52 57	1430.48	-13.18	346.15	348.13	121.83	6 16 47	830.5	-8.88	339.69
110.00	16 43 39	4373.26	23.10	172.58	349.97	64.07	17 56 32	3773.3	19.42	165.37

DIFFERENTIAL CORRECTIONS
TDE .1449 TRA -.2671 TC3 .4420 BAU .1256
RDE -.2313 RRA -.1009 RC3 -.8626 FAU .16974
FDE-1.7979 FRA -.9825 FC-15.1578 BSP 2482
BDE .2729 BRA .2855 BC3 .9692 FSP -2725

MID-COURSE EXECUTION ACCURACY
SGT 625.2 SGR 710.2 SG3 878.3
RRT -.3810 RRF .9442 RTF -.4064
SGB 946.2 R23 -.3571 R13 .8755
SG1 791.2 SG2 518.9 THA 125.72

ORBIT DETERMINATION ACCURACY
ST 305.2 SR 429.5 SS 961.7
CRT -.8035 CRS -.9984 CST .7827
LSA 1080.8 MSA 184.2 SSA 17.6
EL1 503.6 EL2 155.0 ALF 123.28

LAUNCH DATE JUN 20 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 20 1967

HELIOCENTRIC CONIC DISTANCE 335.372

RL 152.01 LAL -.00 LOL 268.01 VL 26.974 GAL -3.21 AZL 92.17 HCA 149.33 SMA 130.30 ECC .17552 INC 2.1725 V1 29.308
RP 108.00 LAP -1.11 LOP 57.35 VP 37.936 GAP -2.27 AZP 88.13 TAL 195.39 TAP 344.71 RCA 107.43 APO 153.17 V2 35.088
RC 80.046 GL -19.40 GP -16.04 ZAL 122.10 ZAP 66.64 ETS 6.81 ZAE 164.79 ETE 313.63 ZAC 97.36 ETC 12.43 CLP -65.63

PLANETOCENTRIC CONIC

C3 9.449 VHL 3.074 DLA -4.74 RAL 139.73 RAD 6567.3 VEL 11.438 PTH 1.98 VHP 3.208 DPA -8.30 RAP 167.28 ECC 1.1555

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 25 52	1903.38	-11.01	22.66	349.74	116.26	3 57 35	1303.4	-7.39	15.85
90.00	14 13 14	4842.28	19.17	209.40	351.05	68.75	15 33 56	4242.3	16.11	202.06
100.00	4 44 58	1648.18	-11.80	3.49	349.33	117.67	5 12 26	1048.2	-8.00	356.75
100.00	15 36 48	4572.72	19.99	189.23	350.70	67.30	16 53 1	3972.7	16.75	181.94
110.00	5 48 6	1450.53	-13.90	347.26	348.11	121.55	6 12 17	850.5	-9.62	340.77
110.00	16 50 10	4343.14	22.19	170.72	349.62	63.30	18 2 33	3743.1	18.42	163.60

DIFFERENTIAL CORRECTIONS
TDE .1038 TRA -.2850 TC3 .1330 BAU .1370
RDE -.2337 RRA -.1073 RC3-1.0767 FAU .17979
FDE-1.7915 FRA-1.0123 FC-16.4720 BSP 2566
BDE .2557 BRA .3046 BC3 1.0849 FSP -2927

MID-COURSE EXECUTION ACCURACY
SGT 572.9 SGR 817.4 SG3 935.7
RRT -.0670 RRF .9644 RTF -.0749
SGB 998.2 R23 -.0510 R13 .9631
SG1 819.2 SG2 570.4 THA 95.23

ORBIT DETERMINATION ACCURACY
ST 251.0 SR 440.2 SS 942.5
CRT -.6759 CRS -.9985 CST .6511
LSA 1053.4 MSA 187.6 SSA 16.9
EL1 477.1 EL2 170.7 ALF 114.39

LAUNCH DATE JUN 20 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 22 1967

HELIOCENTRIC CONIC DISTANCE 341.810

RL 152.01 LAL -.00 LOL 268.01 VL 26.985 GAL -3.18 AZL 92.01 HCA 152.54 SMA 130.38 ECC .17470 INC 2.0094 V1 29.308
RP 107.96 LAP -.93 LOP 60.56 VP 37.956 GAP -1.79 AZP 88.22 TAL 195.34 TAP 347.89 RCA 107.61 APO 153.16 V2 35.101
RC 82.236 GL -18.16 GP -18.20 ZAL 122.34 ZAP 72.14 ETS 5.90 ZAE 164.94 ETE 296.03 ZAC 99.98 ETC 11.63 CLP -71.16

PLANETOCENTRIC CONIC

C3 9.189 VHL 3.031 DLA -3.58 RAL 140.15 RAD 6567.3 VEL 11.427 PTH 1.98 VHP 3.142 DPA -9.40 RAP 164.36 ECC 1.1512

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 18 47	1934.37	-11.93	24.47	349.90	115.87	3 51 1	1334.4	-8.36	17.61
90.00	14 23 40	4800.42	18.12	206.78	350.87	67.86	15 43 40	4200.4	14.95	199.53
100.00	4 38 27	1677.37	-12.71	5.17	349.50	117.28	5 6 24	1077.4	-8.96	358.39
100.00	15 46 41	4532.66	18.92	186.73	350.51	66.42	17 2 13	3932.7	15.57	179.54
110.00	5 42 51	1475.74	-14.79	348.67	348.31	121.17	6 7 27	875.7	-10.55	342.13
110.00	16 58 45	4307.06	21.07	168.51	349.42	62.44	18 10 32	3707.1	17.21	161.51

DIFFERENTIAL CORRECTIONS
TDE .0628 TRA -.3059 TC3 -.2376 BAU .1657
RDE -.2334 RRA -.1120 RC3-1.3274 FAU .18664
FDE-1.7126 FRA -.9909 FC-17.5841 BSP 2906
BDE .2417 BRA .3258 BC3 1.3485 FSP -3062

MID-COURSE EXECUTION ACCURACY
SGT 608.7 SGR 942.0 SG3 976.2
RRT .3251 RRF .9777 RTF .3255
SGB 1121.5 R23 .1698 R13 .9629
SG1 973.4 SG2 557.0 THA 72.10

ORBIT DETERMINATION ACCURACY
ST 210.6 SR 446.4 SS 896.0
CRT -.4388 CRS -.9987 CST .4104
LSA 1004.8 MSA 191.1 SSA 16.3
EL1 457.8 EL2 184.5 ALF 104.01

LAUNCH DATE JUN 20 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 24 1967

DISTANCE 348.225

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.993 GAL -3.14 AZL 91.81 HCA 155.76 SMA 130.43 ECC .17408 INC 1.8067 V1 29.308
RP 107.92 LAP -.74 LOP 63.78 VP 37.972 GAP -1.33 AZP 88.35 TAL 195.22 TAP 350.99 RCA 107.73 APO 153.14 V2 35.113
RC 84.440 GL -16.54 GP -20.75 ZAL 122.51 ZAP 77.68 ETS 4.71 ZAE 163.40 ETE 278.79 ZAC 102.72 ETC 10.56 CLP -76.81

PLANETOCENTRIC CONIC
C3 8.910 VHL 2.985 DLA -2.09 RAL 140.81 RAD 6567.3 VEL 11.415 PTH 1.98 VHP 3.112 DPA -10.83 RAP 161.19 ECC 1.1466

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 10 21	1974.63	-13.12	26.83	350.32	115.32	3 43 15	1374.6	-9.60	19.92
90.00	14 37 23	4748.25	16.75	203.57	350.87	66.83	15 56 31	4148.3	13.47	196.42
100.00	4 30 43	1715.38	-13.89	7.38	349.93	116.74	4 59 18	1115.4	-10.19	.54
100.00	15 59 42	4482.74	17.53	183.68	350.51	65.40	17 14 25	3882.7	14.07	176.60
110.00	5 36 44	1508.74	-15.94	350.53	348.77	120.64	6 1 52	908.7	-11.76	343.92
110.00	17 10 11	4262.15	19.63	165.82	349.40	61.44	18 21 13	3662.1	15.66	158.95

DIFFERENTIAL CORRECTIONS
TDE .0272 TRA -.3260 TC3 -.6646 BAU .2093
RDE -.2288 RRA -.1143 RC3-1.6271 FAU .18983
FDE-1.5550 FRA -.9198 FC-18.4451 BSP 3537
BDE .2304 BRA .3455 BC3 1.7575 FSP -3139

MID-COURSE EXECUTION ACCURACY
SGT 743.2 SGR 1088.3 SG3 997.5
RRT .6180 RRF .9864 RTF .6200
SGB 1317.9 R23 .2173 R13 .9623
SG1 1208.2 SG2 526.3 THA 61.15

ORBIT DETERMINATION ACCURACY
ST 195.4 SR 445.0 SS 820.0
CRT -.1178 CRS -.9987 CST .0881
LSA 933.0 MSA 194.8 SSA 16.0
EL1 445.8 EL2 193.7 ALF 93.65

LAUNCH DATE JUN 20 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 26 1967

DISTANCE 354.619

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.996 GAL -3.10 AZL 91.55 HCA 158.98 SMA 130.45 ECC .17365 INC 1.5458 V1 29.308
RP 107.89 LAP -.55 LOP 67.00 VP 37.986 GAP -.89 AZP 88.56 TAL 195.03 TAP 354.01 RCA 107.80 APO 153.11 V2 35.125
RC 86.655 GL -14.35 GP -23.83 ZAL 122.63 ZAP 83.15 ETS 3.16 ZAE 160.19 ETE 265.20 ZAC 105.50 ETC 9.11 CLP -82.50

PLANETOCENTRIC CONIC
C3 8.608 VHL 2.934 DLA -.11 RAL 141.78 RAD 6567.3 VEL 11.402 PTH 1.97 VHP 3.126 DPA -12.76 RAP 157.81 ECC 1.1417

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 59 31	2029.48	-14.69	30.09	351.09	114.48	3 33 21	1429.5	-11.26	23.09
90.00	14 55 57	4680.24	14.88	199.45	351.12	65.63	16 13 57	4080.2	11.47	192.43
100.00	4 20 49	1767.26	-15.46	10.43	350.72	115.91	4 50 16	1167.3	-11.85	3.50
100.00	16 17 20	4417.70	15.65	179.77	350.75	64.20	17 30 58	3817.7	12.05	172.82
110.00	5 28 56	1554.01	-17.50	353.12	349.60	119.84	5 54 50	954.0	-13.40	346.41
110.00	17 25 42	4203.72	17.69	162.40	349.63	60.26	18 35 45	3603.7	13.60	155.68

DIFFERENTIAL CORRECTIONS
TDE .0028 TRA -.3418 TC3-1.1471 BAU .2644
RDE -.2166 RRA -.1128 RC3-1.9909 FAU .18849
FDE-1.3087 FRA -.7981 FC-18.9577 BSP 4406
BDE .2166 BRA .3600 BC3 2.2977 FSP -3146

MID-COURSE EXECUTION ACCURACY
SGT 948.0 SGR 1261.8 SG3 995.3
RRT .7783 RRF .9920 RTF .7796
SGB 1578.3 R23 .2135 R13 .9688
SG1 1496.3 SG2 502.0 THA 55.21

ORBIT DETERMINATION ACCURACY
ST 201.4 SR 429.6 SS 707.6
CRT .1345 CRS -.9986 CST -.1639
LSA 828.2 MSA 199.1 SSA 16.0
EL1 430.6 EL2 199.0 ALF 85.41

LAUNCH DATE JUN 20 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 28 1967

DISTANCE 360.991

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.995 GAL -3.04 AZL 91.20 HCA 162.21 SMA 130.45 ECC .17339 INC 1.1948 V1 29.308
RP 107.85 LAP -.37 LOP 70.21 VP 37.996 GAP -.45 AZP 88.86 TAL 194.75 TAP 356.96 RCA 107.83 APO 153.06 V2 35.137
RC 88.880 GL -11.27 GP -27.65 ZAL 122.67 ZAP 88.38 ETS 1.13 ZAE 155.54 ETE 256.00 ZAC 108.21 ETC 7.16 CLP -88.17

PLANETOCENTRIC CONIC
C3 8.285 VHL 2.878 DLA 2.68 RAL 143.17 RAD 6567.3 VEL 11.388 PTH 1.97 VHP 3.196 DPA -15.42 RAP 154.19 ECC 1.1364

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 44 23	2108.71	-16.87	34.89	352.43	113.09	3 19 32	1508.7	-13.60	27.74
90.00	15 22 9	4586.65	12.18	193.90	351.76	64.24	16 38 36	3986.7	8.61	187.04
100.00	4 6 59	1842.31	-17.64	14.94	352.07	114.53	4 37 41	1242.3	-14.18	7.86
100.00	16 42 15	4328.28	12.93	174.52	351.37	62.81	17 54 23	3728.3	9.18	167.73
110.00	5 18 5	1619.75	-19.68	356.97	351.00	118.53	5 45 5	1019.7	-15.72	350.09
110.00	17 47 38	4123.61	14.93	157.84	350.23	58.88	18 56 21	3523.6	10.69	151.29

DIFFERENTIAL CORRECTIONS
TDE -.0023 TRA -.3493 TC3-1.6886 BAU .3276
RDE -.1878 RRA -.1027 RC3-2.4277 FAU .18063
FDE -.9409 FRA -.6070 FC-18.8736 BSP 5433
BDE .1879 BRA .3641 BC3 2.9572 FSP -3033

MID-COURSE EXECUTION ACCURACY
SGT 1195.6 SGR 1461.2 SG3 958.3
RRT .8602 RRF .9955 RTF .8606
SGB 1888.0 R23 .1985 R13 .9755
SG1 1823.7 SG2 488.5 THA 51.60

ORBIT DETERMINATION ACCURACY
ST 210.9 SR 381.2 SS 534.4
CRT .1961 CRS -.9979 CST -.2300
LSA 657.9 MSA 205.5 SSA 17.2
EL1 384.4 EL2 205.1 ALF 81.32

LAUNCH DATE JUN 20 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 30 1967

DISTANCE 367.342

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.990 GAL -2.97 AZL 90.70 HCA 165.43 SMA 130.42 ECC .17329 INC .6941 V1 29.308
RP 107.82 LAP -.17 LOP 73.44 VP 38.003 GAP -.02 AZP 89.33 TAL 194.41 TAP 359.84 RCA 107.82 APO 153.02 V2 35.149
RC 91.113 GL -6.65 GP -32.58 ZAL 122.59 ZAP 93.17 ETS 358.43 ZAE 149.52 ETE 250.38 ZAC 110.71 ETC 4.47 CLP -93.76

PLANETOCENTRIC CONIC
C3 7.968 VHL 2.823 DLA 6.86 RAL 145.20 RAD 6567.3 VEL 11.374 PTH 1.96 VHP 3.345 DPA -19.18 RAP 150.21 ECC 1.1311

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 20 55	2232.59	-20.00	42.62	354.80	110.47	2 58 8	1632.6	-17.04	35.20
90.00	16 1 52	4448.25	7.96	185.92	353.15	62.74	17 16 0	3848.2	4.25	179.21
100.00	3 45 32	1959.67	-20.79	22.22	354.47	111.97	4 18 12	1359.7	-17.63	14.86
100.00	17 19 56	4196.40	8.71	167.00	352.75	61.29	18 29 52	3596.4	4.82	160.38
110.00	5 1 16	1722.66	-22.90	3.22	353.46	116.10	5 29 59	1122.7	-19.20	356.03
110.00	18 20 41	4006.17	10.70	151.37	351.55	57.34	19 27 27	3406.2	6.32	145.02

DIFFERENTIAL CORRECTIONS
TDE .0277 TRA -.3411 TC3-2.2807 BAU .3989
RDE -.1308 RRA -.0802 RC3-2.9700 FAU .16594
FDE -.4606 FRA -.3644 FC-18.0301 BSP 6646
BDE .1337 BRA .3504 BC3 3.7447 FSP -2817

MID-COURSE EXECUTION ACCURACY
SGT 1465.3 SGR 1705.5 SG3 885.5
RRT .9036 RRF .9976 RTF .9038
SGB 2248.5 R23 .1788 R13 .9815
SG1 2195.0 SG2 487.7 THA 49.78

ORBIT DETERMINATION ACCURACY
ST 220.0 SR 274.7 SS 291.5
CRT -.0448 CRS -.9912 CST -.0268
LSA 399.7 MSA 220.5 SSA 22.4
EL1 275.2 EL2 219.4 ALF 95.66

LAUNCH DATE JUN 20 1967 FLIGHT TIME 134.00 ARRIVAL DATE NOV 1 1967

HELIOCENTRIC CONIC DISTANCE 373.670

```
RL  152.01 LAL   -.00 LOL 268.01 VL  26.982 GAL  -2.88 AZL  89.92 HCA 168.65 SMA 130.36 ECC .17334 INC  .0564 VI  29.308
RP  107.78 LAP    .02 LOP  76.66 VP  38.008 GAP    .39 AZP  90.08 TAL 193.99 TAP   2.64 RCA 107.76 APO 152.96 V2  35.160
RC  93.352 GL     .80 GP  -39.30 ZAL 122.11 ZAP  97.14 ETS 354.77 ZAE 141.83 ETE 247.39 ZAC 112.78 ETC    .69 CLP -99.25
```

PLANETOCENTRIC CONIC

```
C3   7.763 VHL  2.786 DLA  13.64 RAL 148.42 RAD 6567.3 VEL 11.365 PTH   1.96 VHP  3.637 DPA -24.64 RAP 145.56 ECC 1.1278
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 38 24	2451.58	-24.52	57.07	359.51	104.62	2 19 16	1851.6	-22.28	49.12
90.00	17 10 1	4219.69	.67	173.08	356.44	61.69	18 20 21	3619.7	-3.12	166.45
100.00	3 6 55	2166.13	-25.43	35.80	359.23	106.27	3 43 1	1566.1	-22.95	27.88
100.00	18 24 11	3980.38	1.49	155.03	355.99	60.14	19 30 32	3380.4	-2.49	148.51
110.00	4 31 16	1902.22	-27.78	14.88	358.35	110.77	5 2 58	1302.2	-24.70	7.06
110.00	19 16 20	3817.06	3.60	141.32	354.67	55.98	20 19 57	3217.1	-.89	135.12

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .1272 TRA -.3019 TC3-2.8729 BAU  .4755   SGT 1743.5 SGR 1989.4 SG3  757.4     ST   327.9 SR    63.6 SS   134.7
 RDE -.0070 RRA -.0264 RC3-3.5686 FAU .14094   RRT  .9271 RRF  .9988 RTF  .9276     CRT  .1097 CRS -.4145 CST -.7596
 FDE  .1640 FRA -.0484 FC-15.7175 BSP   7921   SGB 2645.3 R23  .1605 R13  .9859     LSA  344.7 MSA   92.2 SSA    49.1
 BDE  .1274 BRA  .3031 BC3 4.5813 FSP  -2401   SG1 2597.5 SG2  500.6 THA  49.06     EL1  328.0 EL2   63.2 ALF    1.27
```

LAUNCH DATE JUN 20 1967 FLIGHT TIME 136.00 ARRIVAL DATE NOV 3 1967

HELIOCENTRIC CONIC DISTANCE 379.974

```
RL  152.01 LAL   -.00 LOL 268.01 VL  26.972 GAL  -2.79 AZL  88.53 HCA 171.88 SMA 130.29 ECC .17353 INC 1.4648 VI  29.308
RP  107.75 LAP    .21 LOP  79.88 VP  38.010 GAP    .79 AZP  91.45 TAL 193.50 TAP   5.38 RCA 107.68 APO 152.90 V2  35.170
RC  95.596 GL   13.95 GP  -48.94 ZAL 120.13 ZAP  99.64 ETS 349.70 ZAE 131.59 ETE 246.12 ZAC 113.95 ETC 355.18 CLP-104.77
```

PLANETOCENTRIC CONIC

```
C3   8.190 VHL  2.862 DLA  25.61 RAL 154.31 RAD 6567.3 VEL 11.383 PTH   1.97 VHP  4.253 DPA -32.79 RAP 139.39 ECC 1.1348
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	23 34 11	2988.19	-28.05	95.57	10.09	85.93	24 23 59	2388.2	-28.32	86.92
90.00	19 57 20	3702.83	-15.29	143.51	6.65	65.87	20 59 3	3102.8	-18.42	136.23
100.00	1 24 41	2644.60	-29.87	70.39	10.19	88.82	2 8 46	2044.6	-29.72	61.59
100.00	20 53 26	3521.66	-13.64	129.39	5.84	63.14	21 52 8	2921.7	-17.13	122.34
110.00	3 19 13	2286.26	-33.82	43.01	10.02	95.26	3 57 19	1686.3	-32.73	33.94
110.00	21 15 24	3452.76	-10.21	122.16	3.83	57.20	22 12 56	2852.8	-14.46	115.64

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE  .3818 TRA -.1984 TC3-3.2123 BAU  .5577   SGT 2039.3 SGR 2332.0 SG3  568.0     ST   777.7 SR   533.5 SS   626.8
 RDE  .2625 RRA  .0915 RC3-3.9536 FAU .10452   RRT  .9405 RRF  .9994 RTF  .9424     CRT  .9580 CRS -.9999 CST -.9597
 FDE  .8414 FRA  .2846 FC-11.0485 BSP   9378   SGB 3097.8 R23  .1415 R13  .9894     LSA 1120.7 MSA  161.9 SSA     6.3
 BDE  .4633 BRA  .2185 BC3 5.0941 FSP  -1808   SG1 3052.3 SG2  529.4 THA  49.07     EL1  934.4 EL2  127.3 ALF   34.03
```

LAUNCH DATE JUN 20 1967 FLIGHT TIME 138.00 ARRIVAL DATE NOV 5 1967

HELIOCENTRIC CONIC DISTANCE 386.246

```
RL  152.01 LAL   -.00 LOL 268.01 VL  26.958 GAL  -2.68 AZL  85.35 HCA 175.09 SMA 130.19 ECC .17383 INC 4.6517 VI  29.308
RP  107.72 LAP    .40 LOP  83.11 VP  38.010 GAP   1.19 AZP  94.64 TAL 192.94 TAP   8.03 RCA 107.56 APO 152.83 V2  35.180
RC  97.843 GL   37.66 GP  -63.55 ZAL 112.80 ZAP  99.38 ETS 342.35 ZAE 116.93 ETE 244.96 ZAC 113.19 ETC 346.61 CLP-111.46
```

PLANETOCENTRIC CONIC

```
C3  12.784 VHL  3.575 DLA  46.40 RAL 168.77 RAD 6567.5 VEL 11.583 PTH   2.03 VHP  5.913 DPA -45.03 RAP 128.81 ECC 1.2104
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
51.56	18 47 36	4155.67	-34.81	189.78	37.33	57.12	19 56 52	3555.7	-38.85	181.56
128.44	2 43 12	2714.04	-34.80	77.55	37.33	57.11	3 28 26	2114.0	-38.84	69.34
51.56	18 47 36	4155.67	-34.81	189.78	37.33	57.12	19 56 52	3555.7	-38.85	181.56
128.44	2 43 12	2714.04	-34.80	77.55	37.33	57.11	3 28 26	2114.0	-38.84	69.34
51.56	18 47 36	4155.67	-34.81	189.78	37.33	57.12	19 56 52	3555.7	-38.85	181.56
128.44	2 43 12	2714.04	-34.80	77.55	37.33	57.11	3 28 26	2114.0	-38.84	69.34

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE 1.1007 TRA  .1055 TC3-2.3269 BAU  .6219   SGT 2437.2 SGR 2630.8 SG3  315.0     ST  1766.0 SR  1448.6 SS  1075.3
 RDE  .8854 RRA  .4096 RC3-2.7975 FAU .05584   RRT  .9459 RRF  .9994 RTF  .9526     CRT  .9876 CRS -.9999 CST -.9893
 FDE 1.2895 FRA  .5631 FC3-3.7816 BSP  10771   SGB 3586.2 R23  .1295 R13  .9913     LSA 2517.2 MSA  193.7 SSA     1.8
 BDE 1.4126 BRA  .4230 BC3 3.6388 FSP  -1004   SG1 3537.7 SG2  588.2 THA  47.31     EL1 2277.3 EL2  176.1 ALF   39.29
```

LAUNCH DATE JUN 20 1967 FLIGHT TIME 140.00 ARRIVAL DATE NOV 7 1967

HELIOCENTRIC CONIC DISTANCE 392.422

```
RL  152.01 LAL   -.00 LOL 268.01 VL  26.942 GAL  -2.55 AZL  70.58 HCA 178.23 SMA 130.08 ECC .17421 INC19.4220 VI  29.308
RP  107.69 LAP    .59 LOP  86.34 VP  38.008 GAP   1.55 AZP 109.42 TAL 192.25 TAP  10.48 RCA 107.42 APO 152.74 V2  35.190
RC 100.092 GL   65.17 GP  -85.31 ZAL  97.71 ZAP  94.65 ETS 297.70 ZAE  92.02 ETE 206.56 ZAC 108.88 ETC 298.53 CLP 172.67
```

PLANETOCENTRIC CONIC

```
C3  97.273 VHL  9.863 DLA  63.06 RAL 209.84 RAD 6569.9 VEL 14.786 PTH   2.67 VHP 14.748 DPA -61.06 RAP  94.95 ECC 2.6009
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
30.97	20 31 42	4770.72	-16.80	234.81	111.03	28.24	21 51 12	4170.7	-23.80	231.10
149.03	6 26 46	3071.29	-16.79	93.70	111.01	28.24	7 17 57	2471.3	-23.79	89.99
30.97	20 31 42	4770.72	-16.80	234.81	111.03	28.24	21 51 12	4170.7	-23.80	231.10
149.03	6 26 46	3071.29	-16.79	93.70	111.01	28.24	7 17 57	2471.3	-23.79	89.99
30.97	20 31 42	4770.72	-16.80	234.81	111.03	28.24	21 51 12	4170.7	-23.80	231.10
149.03	6 26 46	3071.29	-16.79	93.70	111.01	28.24	7 17 57	2471.3	-23.79	89.99

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
 TDE 3.2837 TRA 2.6772 TC3 -.2011 BAU  .2738   SGT 3947.4 SGR  705.9 SG3   95.2     ST  2167.9 SR   450.6 SS   668.3
 RDE -.7208 RRA  .4327 RC3 -.0623 FAU .00658   RRT  .4144 RRF  .5070 RTF  .9945     CRT -.6422 CRS  .5459 CST -.9928
 FDE  .7374 FRA  .7864 FC3 -.0586 BSP  10341   SGB 4010.0 R23  .0920 R13  .9957     LSA 2285.7 MSA  354.0 SSA      .5
 BDE 3.3619 BRA 2.7120 BC3  .2105 FSP   -263   SG1 3958.5 SG2  640.6 THA   4.35     EL1 2187.6 EL2  342.3 ALF 172.20
```

LAUNCH DATE JUN 20 1967 FLIGHT TIME 142.00 ARRIVAL DATE NOV 9 1967

HELIOCENTRIC CONIC DISTANCE 398.977
RL 152.01 LAL -.00 LOL 268.01 VL 26.923 GAL -2.48 AZL 116.35 HCA 181.75 SMA 129.96 ECC .17502 INC26.3481 V1 29.308
RP 107.66 LAP .78 LOP 89.57 VP 38.003 GAP 2.01 AZP 63.66 TAL 191.85 TAP 13.59 RCA 107.21 APO 152.70 V2 35.199
RC 102.344 GL -65.82 GP 84.19 ZAL 95.66 ZAP 95.73 ETS 130.74 ZAE 86.60 ETE 220.12 ZAC 81.56 ETC 126.39 CLP 170.61

PLANETOCENTRIC CONIC
C3 171.309 VHL 13.088 DLA -52.40 RAL 130.21 RAD 6570.9 VEL 17.107 PTH 2.93 VHP 14.939 DPA 71.03 RAP 283.25 ECC 3.8193

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
43.88	3 50 19	2168.05	9.07	58.82	33.14	141.84	4 26 27	1568.0	15.31	54.12
136.12	12 32 50	604.31	9.08	294.38	33.15	141.83	12 42 54	4.3	15.32	289.69
43.88	3 50 19	2168.05	9.07	58.82	33.14	141.84	4 26 27	1568.0	15.31	54.12
136.12	12 32 50	604.31	9.08	294.38	33.15	141.83	12 42 54	4.3	15.32	289.69
43.88	3 50 19	2168.05	9.07	58.82	33.14	141.84	4 26 27	1568.0	15.31	54.12
136.12	12 32 50	604.31	9.08	294.38	33.15	141.83	12 42 54	4.3	15.32	289.69

DIFFERENTIAL CORRECTIONS
TDE-3.3455 TRA -.5919 TC3 .0028 BAU .1261
RDE-7.0728 RRA-2.4910 RC3 .0550 FAU-.00101
FDE-2.3353 FRA -.5805 FC3 .0051 BSP 8657
BDE 7.8241 BRA 2.5604 BC3 .0551 FSP -218

MID-COURSE EXECUTION ACCURACY
SGT 1524.9 SGR 3577.8 SG3 95.4
RRT .9704 RRF .9903 RTF .9945
SGB 3889.2 R23 -.1024 R13 .9947
SG1 3874.3 SG2 339.9 THA 67.35

ORBIT DETERMINATION ACCURACY
ST 1470.1 SR 3142.2 SS 1329.3
CRT .9964 CRS -.9988 CST -.9994
LSA 3713.1 MSA 120.6 SSA .5
EL1 3467.3 EL2 112.7 ALF 64.98

LAUNCH DATE JUN 20 1967 FLIGHT TIME 144.00 ARRIVAL DATE NOV 11 1967

HELIOCENTRIC CONIC DISTANCE 405.113
RL 152.01 LAL -.00 LOL 268.01 VL 26.903 GAL -2.33 AZL 101.33 HCA 184.89 SMA 129.81 ECC .17563 INC11.3330 V1 29.308
RP 107.63 LAP .96 LOP 92.80 VP 37.996 GAP 2.36 AZP 78.71 TAL 191.04 TAP 15.94 RCA 107.02 APO 152.61 V2 35.208
RC 104.596 GL -58.85 GP 61.06 ZAL 101.37 ZAP 106.41 ETS 34.75 ZAE 111.40 ETE 129.69 ZAC 90.41 ETC 33.96 CLP-125.71

PLANETOCENTRIC CONIC
C3 38.094 VHL 6.172 DLA -44.45 RAL 131.28 RAD 6568.5 VEL 12.628 PTH 2.29 VHP 6.065 DPA 67.80 RAP 199.90 ECC 1.6269

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
54.19	4 29 42	1747.85	23.19	32.94	15.37	129.05	4 58 50	1147.8	28.07	26.32
125.81	12 2 1	5644.25	23.20	263.28	15.39	129.04	13 36 6	5044.2	28.08	256.66
54.19	4 29 42	1747.85	23.19	32.94	15.37	129.05	4 58 50	1147.8	28.07	26.32
125.81	12 2 1	5644.25	23.20	263.28	15.39	129.04	13 36 6	5044.2	28.08	256.66
54.19	4 29 42	1747.85	23.19	32.94	15.37	129.05	4 58 50	1147.8	28.07	26.32
125.81	12 2 1	5644.25	23.20	263.28	15.39	129.04	13 36 6	5044.2	28.08	256.66

DIFFERENTIAL CORRECTIONS
TDE-2.6068 TRA-1.4117 TC3 -.9300 BAU .5609
RDE 2.1309 RRA .4738 RC3 .5898 FAU .04740
FDE-3.4168 FRA -.9702 FC3-1.0772 BSP 12127
BDE 3.3669 BRA 1.4891 BC3 1.1013 FSP -999

MID-COURSE EXECUTION ACCURACY
SGT 3247.1 SGR 2196.0 SG3 316.5
RRT -.9471 RRF -.9969 RTF .9683
SGB 3920.0 R23 .1502 R13 -.9884
SG1 3875.3 SG2 590.5 THA 146.48

ORBIT DETERMINATION ACCURACY
ST 2482.1 SR 1986.9 SS 1674.1
CRT -.9915 CRS .9997 CST -.9945
LSA 3586.6 MSA 217.7 SSA 1.3
EL1 3172.9 EL2 202.4 ALF 141.38

LAUNCH DATE JUN 20 1967 FLIGHT TIME 146.00 ARRIVAL DATE NOV 13 1967

HELIOCENTRIC CONIC DISTANCE 411.307
RL 152.01 LAL -.00 LOL 268.01 VL 26.880 GAL -2.18 AZL 98.12 HCA 188.11 SMA 129.66 ECC .17641 INC 8.1235 V1 29.308
RP 107.61 LAP 1.14 LOP 96.04 VP 37.988 GAP 2.73 AZP 81.96 TAL 190.26 TAP 18.37 RCA 106.79 APO 152.53 V2 35.216
RC 106.849 GL -52.17 GP 44.69 ZAL 103.78 ZAP 115.23 ETS 29.29 ZAE 124.21 ETE 134.22 ZAC 97.54 ETC 30.15 CLP-126.85

PLANETOCENTRIC CONIC
C3 23.098 VHL 4.806 DLA -38.47 RAL 135.31 RAD 6567.9 VEL 12.020 PTH 2.15 VHP 4.559 DPA 55.26 RAP 177.06 ECC 1.3801

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.80	5 23 11	1519.43	24.96	14.54	9.43	120.27	5 48 30	919.4	28.78	7.08
117.20	11 40 40	5622.78	24.98	262.77	9.43	120.26	13 14 22	5022.8	28.80	255.31
62.80	5 23 11	1519.43	24.96	14.54	9.43	120.27	5 48 30	919.4	28.78	7.08
117.20	11 40 40	5622.78	24.98	262.77	9.43	120.26	13 14 22	5022.8	28.80	255.31
62.80	5 23 11	1519.43	24.96	14.54	9.43	120.27	5 48 30	919.4	28.78	7.08
117.20	11 40 40	5622.78	24.98	262.77	9.43	120.26	13 14 22	5022.8	28.80	255.31

DIFFERENTIAL CORRECTIONS
TDE-1.9964 TRA-1.1141 TC3-1.7660 BAU .6096
RDE 1.2697 RRA .2733 RC3 .8819 FAU .08599
FDE-4.1314 FRA-1.0676 FC3-3.2231 BSP 11933
BDE 2.3660 BRA 1.1471 BC3 1.9739 FSP -1687

MID-COURSE EXECUTION ACCURACY
SGT 3379.9 SGR 1784.1 SG3 522.0
RRT -.9532 RRF -.9981 RTF .9667
SGB 3821.9 R23 .1902 R13 -.9811
SG1 3791.5 SG2 481.1 THA 152.82

ORBIT DETERMINATION ACCURACY
ST 2434.4 SR 1519.1 SS 1949.8
CRT -.9918 CRS .9999 CST -.9937
LSA 3463.1 MSA 205.8 SSA 2.0
EL1 2864.7 EL2 165.3 ALF 148.13

LAUNCH DATE JUN 20 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 15 1967

HELIOCENTRIC CONIC DISTANCE 417.500
RL 152.01 LAL -.00 LOL 268.01 VL 26.856 GAL -2.02 AZL 96.73 HCA 191.35 SMA 129.49 ECC .17732 INC 6.7322 V1 29.308
RP 107.59 LAP 1.32 LOP 99.27 VP 37.977 GAP 3.09 AZP 83.40 TAL 189.43 TAP 20.77 RCA 106.53 APO 152.46 V2 35.223
RC 109.101 GL -47.72 GP 33.98 ZAL 104.55 ZAP 121.86 ETS 25.99 ZAE 130.89 ETE 141.67 ZAC 102.14 ETC 27.84 CLP-129.54

PLANETOCENTRIC CONIC
C3 18.084 VHL 4.252 DLA -34.77 RAL 138.47 RAD 6567.7 VEL 11.810 PTH 2.09 VHP 4.112 DPA 45.89 RAP 168.83 ECC 1.2976

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.92	6 8 30	1364.15	24.52	1.77	7.37	115.46	6 31 14	764.2	27.74	354.03
111.08	11 20 32	5661.15	24.53	265.61	7.38	115.45	12 54 54	5061.2	27.75	257.86
68.92	6 8 30	1364.15	24.52	1.77	7.37	115.46	6 31 14	764.2	27.74	354.03
111.08	11 20 32	5661.15	24.53	265.61	7.38	115.45	12 54 54	5061.2	27.75	257.86
68.92	6 8 30	1364.15	24.52	1.77	7.37	115.46	6 31 14	764.2	27.74	354.03
111.08	11 20 32	5661.15	24.53	265.61	7.38	115.45	12 54 54	5061.2	27.75	257.86

DIFFERENTIAL CORRECTIONS
TDE-1.7642 TRA -.9502 TC3-2.3961 BAU .6126
RDE .8167 RRA .1350 RC3 .8249 FAU .10216
FDE-4.1161 FRA -.8495 FC3-4.8909 BSP 11175
BDE 1.9441 BRA .9597 BC3 2.5341 FSP -1865

MID-COURSE EXECUTION ACCURACY
SGT 3497.4 SGR 1323.7 SG3 610.9
RRT -.9484 RRF -.9968 RTF .9636
SGB 3739.5 R23 .2240 R13 -.9730
SG1 3718.6 SG2 394.9 THA 160.02

ORBIT DETERMINATION ACCURACY
ST 2423.3 SR 1102.6 SS 1976.4
CRT -.9910 CRS .9999 CST -.9929
LSA 3309.5 MSA 203.1 SSA 2.8
EL1 2658.9 EL2 134.3 ALF 155.66

LAUNCH DATE JUN 20 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 17 1967

HELIOCENTRIC CONIC DISTANCE 423.672

RL 152.01 LAL -.00 LOL 268.01 VL 26.830 GAL -1.85 AZL 95.95 HCA 194.58 SMA 129.32 ECC .17834 INC 5.9520 V1 29.308
RP 107.57 LAP 1.50 LOP 102.51 VP 37.965 GAP 3.45 AZP 84.24 TAL 188.56 TAP 23.14 RCA 106.26 APO 152.38 V2 35.230
RC 111.351 GL -44.64 GP 26.80 ZAL 104.46 ZAP 127.00 ETS 23.46 ZAE 134.06 ETE 148.71 ZAC 104.96 ETC 25.92 CLP-132.39

PLANETOCENTRIC CONIC

C3 15.660 VHL 3.957 DLA -32.43 RAL 141.13 RAD 6567.6 VEL 11.707 PTH 2.06 VHP 3.981 DPA 39.31 RAP 164.85 ECC 1.2577

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.50	6 47 28	1244.09	23.85	352.14	7.00	112.65	7 8 12	644.1	26.71	344.29
106.50	11 2 48	5715.08	23.86	269.46	7.01	112.63	12 38 3	5115.1	26.72	261.61
73.50	6 47 28	1244.09	23.85	352.14	7.00	112.65	7 8 12	644.1	26.71	344.29
106.50	11 2 48	5715.08	23.86	269.46	7.01	112.63	12 38 3	5115.1	26.72	261.61
110.00	10 2 5	614.76	17.12	302.43	3.45	120.05	10 12 19	14.8	20.98	295.43
110.00	12 47 22	5392.40	30.97	247.34	9.76	105.25	14 17 14	4792.4	32.75	238.57

DIFFERENTIAL CORRECTIONS
TOE-1.6871 TRA -.8703 TC3-2.9869 BAU .6434
ROE .5873 RRA .0795 RC3 .7238 FAU .11158
FOE-3.9677 FRA -.6891 FC3-6.1682 BSP 11763
BOE 1.7864 BRA .8739 BC3 3.0734 FSP -2080

MID-COURSE EXECUTION ACCURACY
SGT 3712.6 SGR 1034.4 SG3 659.3
RRT -.9465 RRF -.9936 RTF .9649
SGB 3854.0 R23 .2273 R13 -.9703
SG1 3840.5 SG2 322.5 THA 165.12

ORBIT DETERMINATION ACCURACY
ST 2484.4 SR 851.6 SS 1980.1
CRT -.9911 CRS .9999 CST -.9928
LSA 3283.1 MSA 198.5 SSA 3.8
EL1 2624.1 EL2 107.3 ALF 161.20

LAUNCH DATE JUN 20 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 19 1967

HELIOCENTRIC CONIC DISTANCE 429.829

RL 152.01 LAL -.00 LOL 268.01 VL 26.802 GAL -1.66 AZL 95.45 HCA 197.82 SMA 129.13 ECC .17948 INC 5.4504 V1 29.308
RP 107.55 LAP 1.67 LOP 105.75 VP 37.951 GAP 3.80 AZP 84.81 TAL 187.65 TAP 25.47 RCA 105.96 APO 152.31 V2 35.236
RC 113.598 GL -42.39 GP 21.78 ZAL 103.83 ZAP 131.17 ETS 21.47 ZAE 135.34 ETE 154.56 ZAC 106.60 ETC 24.30 CLP-135.15

PLANETOCENTRIC CONIC

C3 14.249 VHL 3.775 DLA -30.92 RAL 143.55 RAD 6567.6 VEL 11.646 PTH 2.04 VHP 3.975 DPA 34.56 RAP 162.75 ECC 1.2345

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.04	7 21 28	1146.70	23.31	344.53	7.51	110.90	7 40 35	546.7	25.95	336.63
102.96	10 48 8	5770.26	23.33	273.41	7.51	110.89	12 24 19	5170.3	25.96	265.51
77.04	7 21 28	1146.70	23.31	344.53	7.51	110.90	7 40 35	546.7	25.95	336.63
102.96	10 48 8	5770.26	23.33	273.41	7.51	110.89	12 24 19	5170.3	25.96	265.51
110.00	9 42 9	689.02	14.54	306.64	2.97	121.28	9 53 38	89.0	18.57	299.84
110.00	13 26 38	5275.93	32.74	238.72	10.50	100.44	14 54 34	4675.9	33.83	229.66

DIFFERENTIAL CORRECTIONS
TOE-1.6534 TRA -.7961 TC3-3.4726 BAU .6708
ROE .4459 RRA .0445 RC3 .5843 FAU .11239
FOE-3.7080 FRA -.4871 FC3-6.8283 BSP 12179
BOE 1.7125 BRA .7974 BC3 3.5214 FSP -2104

MID-COURSE EXECUTION ACCURACY
SGT 3893.0 SGR 811.7 SG3 663.6
RRT -.9386 RRF -.9866 RTF .9650
SGB 3976.7 R23 .2213 R13 -.9681
SG1 3967.2 SG2 274.8 THA 168.87

ORBIT DETERMINATION ACCURACY
ST 2546.2 SR 677.4 SS 1935.7
CRT -.9913 CRS .9999 CST -.9927
LSA 3263.6 MSA 195.0 SSA 4.8
EL1 2633.3 EL2 86.4 ALF 165.21

LAUNCH DATE JUN 20 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 21 1967

HELIOCENTRIC CONIC DISTANCE 435.969

RL 152.01 LAL -.00 LOL 268.01 VL 26.773 GAL -1.47 AZL 95.10 HCA 201.07 SMA 128.94 ECC .18073 INC 5.0990 V1 29.308
RP 107.53 LAP 1.83 LOP 108.99 VP 37.936 GAP 4.15 AZP 85.24 TAL 186.70 TAP 27.76 RCA 105.64 APO 152.24 V2 35.241
RC 115.842 GL -40.65 GP 18.14 ZAL 102.84 ZAP 134.72 ETS 19.88 ZAE 135.62 ETE 159.19 ZAC 107.45 ETC 22.92 CLP-137.76

PLANETOCENTRIC CONIC

C3 13.335 VHL 3.652 DLA -29.95 RAL 145.88 RAD 6567.5 VEL 11.607 PTH 2.03 VHP 4.030 DPA 30.99 RAP 161.68 ECC 1.2195

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.81	7 51 12	1067.22	22.96	338.44	8.54	109.79	8 8 59	467.2	25.44	330.52
100.19	10 36 57	5820.70	22.97	277.03	8.55	109.77	12 13 58	5220.7	25.45	269.11
79.81	7 51 12	1067.22	22.96	338.44	8.54	109.79	8 8 59	467.2	25.44	330.52
100.19	10 36 57	5820.70	22.97	277.03	8.55	109.77	12 13 58	5220.7	25.45	269.11
110.00	9 36 10	724.95	13.26	308.63	3.62	121.80	9 48 15	124.9	17.37	301.93
110.00	13 51 10	5210.97	33.43	233.78	11.43	97.59	15 18 1	4611.0	34.12	224.61

DIFFERENTIAL CORRECTIONS
TOE-1.6477 TRA -.7257 TC3-3.8954 BAU .6991
ROE .3561 RRA .0245 RC3 .4505 FAU .10954
FOE-3.4399 FRA -.2946 FC3-7.1114 BSP 12652
BOE 1.6858 BRA .7261 BC3 3.9214 FSP -2066

MID-COURSE EXECUTION ACCURACY
SGT 4062.6 SGR 650.0 SG3 648.8
RRT -.9236 RRF -.9729 RTF .9647
SGB 4114.3 R23 .2049 R13 -.9666
SG1 4106.9 SG2 246.4 THA 171.56

ORBIT DETERMINATION ACCURACY
ST 2616.6 SR 559.0 SS 1880.9
CRT -.9918 CRS .9999 CST -.9926
LSA 3265.0 MSA 191.7 SSA 5.9
EL1 2674.7 EL2 70.0 ALF 168.03

LAUNCH DATE JUN 20 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 23 1967

HELIOCENTRIC CONIC DISTANCE 442.092

RL 152.01 LAL -.00 LOL 268.01 VL 26.743 GAL -1.27 AZL 94.84 HCA 204.31 SMA 128.74 ECC .18210 INC 4.8376 V1 29.308
RP 107.52 LAP 1.99 LOP 112.24 VP 37.919 GAP 4.50 AZP 85.59 TAL 185.71 TAP 30.02 RCA 105.29 APO 152.18 V2 35.246
RC 118.080 GL -39.24 GP 15.41 ZAL 101.58 ZAP 137.81 ETS 18.59 ZAE 135.39 ETE 162.81 ZAC 107.75 ETC 21.73 CLP-140.22

PLANETOCENTRIC CONIC

C3 12.705 VHL 3.564 DLA -29.36 RAL 148.18 RAD 6567.5 VEL 11.580 PTH 2.03 VHP 4.119 DPA 28.18 RAP 161.27 ECC 1.2091

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.92	8 16 42	1004.57	22.75	333.71	9.95	109.07	8 33 26	404.6	25.14	325.78
98.08	10 29 49	5862.48	22.76	280.05	9.95	109.05	12 7 32	5262.5	25.15	272.11
100.00	9 57 3	679.47	19.37	308.52	8.55	113.22	10 8 23	79.5	22.35	300.99
100.00	11 32 9	5662.81	26.23	266.42	11.11	104.88	13 6 32	5062.8	28.01	258.07
110.00	9 36 51	743.07	12.60	309.63	4.87	122.04	9 49 14	143.1	16.75	302.97
110.00	14 8 50	5171.97	33.74	230.78	12.70	95.84	15 35 2	4572.0	34.18	221.56

DIFFERENTIAL CORRECTIONS
TOE-1.6601 TRA -.6548 TC3-4.2667 BAU .7269
ROE .2974 RRA .0137 RC3 .3313 FAU .10488
FOE-3.1937 FRA -.1214 FC3-7.1468 BSP 13123
BOE 1.6865 BRA .6549 BC3 4.2796 FSP -1996

MID-COURSE EXECUTION ACCURACY
SGT 4222.7 SGR 533.8 SG3 625.2
RRT -.8982 RRF -.9483 RTF .9643
SGB 4256.3 R23 .1809 R13 -.9655
SG1 4249.9 SG2 233.2 THA 173.50

ORBIT DETERMINATION ACCURACY
ST 2694.6 SR 478.2 SS 1827.8
CRT -.9927 CRS .9999 CST -.9926
LSA 3285.6 MSA 188.1 SSA 7.0
EL1 2736.1 EL2 56.6 ALF 170.00

LAUNCH DATE JUN 20 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 25 1967

DISTANCE 448.196

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.712 GAL -1.05 AZL 94.63 HCA 207.55 SMA 128.53 ECC .18360 INC 4.6344 V1 29.308
RP 107.50 LAP 2.14 LOP 115.48 VP 37.901 GAP 4.85 AZP 85.89 TAL 184.69 TAP 32.24 RCA 104.93 APO 152.13 V2 35.250
RC 120.312 GL -38.05 GP 13.31 ZAL 100.10 ZAP 140.57 ETS 17.54 ZAE 134.90 ETE 165.64 ZAC 107.63 ETC 20.70 CLP-142.53

PLANETOCENTRIC CONIC
C3 12.256 VHL 3.501 DLA -29.02 RAL 150.50 RAD 6567.5 VEL 11.560 PTH 2.02 VHP 4.228 DPA 25.88 RAP 161.31 ECC 1.2017

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.35	8 37 23	960.21	22.67	330.41	11.65	108.62	8 53 23	360.2	25.01	322.46
96.65	10 27 41	603.47	22.68	304.26	11.65	108.61	10 37 44	3.5	25.01	296.31
100.00	9 53 25	713.59	18.44	310.62	9.89	113.95	10 5 18	113.6	21.52	303.18
100.00	11 54 20	5613.37	27.05	262.97	13.02	103.24	13 27 53	5013.4	28.60	254.52
110.00	9 41 38	750.67	12.33	310.05	6.51	122.14	9 54 8	150.7	16.49	303.41
110.00	14 22 36	5149.05	33.89	229.00	14.28	94.80	15 48 26	4549.1	34.18	219.77

DIFFERENTIAL CORRECTIONS
TDE-1.6833 TRA -.5797 TC3-4.5925 BAU .7534
RDE .2578 RRA .0086 RC3 .2280 FAU .09935
FDE-2.9702 FRA .0342 FC3-7.0182 BSP 13579
BDE 1.7029 BRA .5797 BC3 4.5982 FSP -1911

MID-COURSE EXECUTION ACCURACY
SGT 4371.1 SGR 451.4 SG3 597.2
RRT -.8581 RRF -.9084 RTF .9639
SGB 4394.3 R23 .1538 R13 -.9646
SG1 4388.2 SG2 230.9 THA 174.92

ORBIT DETERMINATION ACCURACY
ST 2775.7 SR 421.9 SS 1776.5
CRT -.9941 CRS .9997 CST -.9926
LSA 3317.3 MSA 184.2 SSA 8.1
EL1 2807.2 EL2 45.3 ALF 171.40

LAUNCH DATE JUN 20 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 27 1967

DISTANCE 454.282

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.680 GAL -.82 AZL 94.47 HCA 210.80 SMA 128.32 ECC .18521 INC 4.4711 V1 29.308
RP 107.49 LAP 2.29 LOP 118.73 VP 37.881 GAP 5.19 AZP 86.16 TAL 183.63 TAP 34.43 RCA 104.55 APO 152.08 V2 35.253
RC 122.538 GL -37.01 GP 11.64 ZAL 98.44 ZAP 143.07 ETS 16.66 ZAE 134.30 ETE 167.87 ZAC 107.19 ETC 19.80 CLP-144.70

PLANETOCENTRIC CONIC
C3 11.936 VHL 3.455 DLA -28.88 RAL 152.88 RAD 6567.5 VEL 11.547 PTH 2.02 VHP 4.351 DPA 23.95 RAP 161.69 ECC 1.1964

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.05	8 52 30	936.45	22.69	328.67	13.59	108.37	9 8 6	336.5	24.99	320.71
95.95	10 31 31	616.04	22.70	305.19	13.60	108.36	10 41 47	16.0	25.00	297.23
100.00	9 58 13	723.16	18.18	311.21	11.72	114.15	10 10 17	123.2	21.29	303.80
100.00	12 8 29	5592.60	27.36	261.51	15.02	102.53	13 41 41	4992.6	28.81	253.01
110.00	9 49 15	751.37	12.30	310.09	8.47	122.15	10 1 47	151.4	16.46	303.45
110.00	14 33 56	5137.16	33.95	228.08	16.15	94.25	15 59 33	4537.2	34.17	218.84

DIFFERENTIAL CORRECTIONS
TDE-1.7160 TRA -.5004 TC3-4.8838 BAU .7796
RDE .2310 RRA .0072 RC3 .1407 FAU .09370
FDE-2.7731 FRA .1714 FC3-6.7965 BSP 14043
BDE 1.7315 BRA .5004 BC3 4.8859 FSP -1823

MID-COURSE EXECUTION ACCURACY
SGT 4515.0 SGR 395.4 SG3 568.6
RRT -.8016 RRF -.8506 RTF .9635
SGB 4532.2 R23 .1275 R13 -.9640
SG1 4526.1 SG2 235.9 THA 175.97

ORBIT DETERMINATION ACCURACY
ST 2861.9 SR 383.1 SS 1730.0
CRT -.9957 CRS .9992 CST -.9927
LSA 3361.2 MSA 180.0 SSA 9.2
EL1 2887.2 EL2 35.3 ALF 172.41

LAUNCH DATE JUN 20 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 29 1967

DISTANCE 460.350

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.647 GAL -.58 AZL 94.34 HCA 214.05 SMA 128.10 ECC .18695 INC 4.3361 V1 29.308
RP 107.49 LAP 2.43 LOP 121.98 VP 37.860 GAP 5.53 AZP 86.41 TAL 182.54 TAP 36.58 RCA 104.15 APO 152.05 V2 35.256
RC 124.755 GL -36.06 GP 10.31 ZAL 96.63 ZAP 145.35 ETS 15.93 ZAE 133.66 ETE 169.65 ZAC 106.49 ETC 18.99 CLP-146.74

PLANETOCENTRIC CONIC
C3 11.713 VHL 3.422 DLA -28.89 RAL 155.32 RAD 6567.4 VEL 11.537 PTH 2.01 VHP 4.484 DPA 22.26 RAP 162.33 ECC 1.1928

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.04	9 2 8	932.87	22.77	328.44	15.76	108.27	9 17 41	332.9	25.06	320.46
95.96	10 41 23	611.74	22.78	304.90	15.76	108.25	10 51 34	11.7	25.07	296.93
100.00	10 8 4	718.92	18.30	310.95	13.91	114.06	10 20 3	118.9	21.39	303.52
100.00	12 18 8	5588.97	27.41	261.25	17.17	102.41	13 51 17	4989.0	28.85	252.74
110.00	9 59 3	747.30	12.45	309.86	10.68	122.09	10 11 30	147.3	16.60	303.21
110.00	14 43 39	5133.35	33.97	227.78	18.27	94.08	16 9 12	4533.4	34.16	218.54

DIFFERENTIAL CORRECTIONS
TDE-1.7526 TRA -.4118 TC3-5.1261 BAU .8028
RDE .2127 RRA .0080 RC3 .0656 FAU .08770
FDE-2.5935 FRA .2995 FC3-6.4821 BSP 14436
BDE 1.7655 BRA .4118 BC3 5.1265 FSP -1728

MID-COURSE EXECUTION ACCURACY
SGT 4641.1 SGR 359.3 SG3 538.6
RRT -.7284 RRF -.7754 RTF .9628
SGB 4655.0 R23 .1053 R13 -.9631
SG1 4648.5 SG2 245.8 THA 176.76

ORBIT DETERMINATION ACCURACY
ST 2945.4 SR 356.2 SS 1684.0
CRT -.9972 CRS .9983 CST -.9928
LSA 3407.0 MSA 175.7 SSA 10.3
EL1 2966.8 EL2 26.4 ALF 173.12

LAUNCH DATE JUN 20 1967 FLIGHT TIME 164.00 ARRIVAL DATE DEC 1 1967

DISTANCE 466.398

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.613 GAL -.33 AZL 94.22 HCA 217.29 SMA 127.88 ECC .18883 INC 4.2220 V1 29.308
RP 107.48 LAP 2.56 LOP 125.22 VP 37.838 GAP 5.88 AZP 86.64 TAL 181.42 TAP 38.71 RCA 103.73 APO 152.02 V2 35.258
RC 126.964 GL -35.17 GP 9.21 ZAL 94.67 ZAP 147.46 ETS 15.32 ZAE 133.02 ETE 171.09 ZAC 105.59 ETC 18.27 CLP-148.66

PLANETOCENTRIC CONIC
C3 11.573 VHL 3.402 DLA -29.00 RAL 157.85 RAD 6567.4 VEL 11.531 PTH 2.01 VHP 4.624 DPA 20.75 RAP 163.19 ECC 1.1905

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.49	9 7 47	944.61	22.91	329.35	18.14	108.28	9 23 32	344.6	25.19	321.37
96.51	10 55 52	5883.01	22.92	281.62	18.14	108.26	12 33 55	5283.0	25.20	273.64
100.00	10 21 43	704.76	18.69	310.08	16.40	113.77	10 33 28	104.8	21.74	302.62
100.00	12 24 37	5598.09	27.28	261.90	19.48	102.72	13 57 55	4998.1	28.76	253.41
110.00	10 10 32	739.92	12.72	309.46	13.12	122.00	10 22 52	139.9	16.86	302.79
110.00	14 52 17	5135.69	33.96	227.97	20.63	94.19	16 17 53	4535.7	34.16	218.73

DIFFERENTIAL CORRECTIONS
TDE-1.7973 TRA -.3187 TC3-5.3471 BAU .8273
RDE .2011 RRA .0106 RC3 .0047 FAU .08236
FDE-2.4380 FRA .4105 FC3-6.1614 BSP 14858
BDE 1.8085 BRA .3189 BC3 5.3471 FSP -1641

MID-COURSE EXECUTION ACCURACY
SGT 4772.3 SGR 339.3 SG3 511.6
RRT -.6481 RRF -.6909 RTF .9624
SGB 4784.3 R23 .0857 R13 -.9626
SG1 4777.4 SG2 258.1 THA 177.35

ORBIT DETERMINATION ACCURACY
ST 3034.5 SR 338.7 SS 1644.1
CRT -.9985 CRS .9967 CST -.9930
LSA 3463.6 MSA 171.2 SSA 11.4
EL1 3053.3 EL2 18.7 ALF 173.64

LAUNCH DATE JUN 20 1967 FLIGHT TIME 166.00 ARRIVAL DATE DEC 3 1967

HELIOCENTRIC CONIC DISTANCE 472.427

RL 152.01 LAL -.00 LOL 268.01 VL 26.579 GAL -.06 AZL 94.12 HCA 220.54 SMA 127.65 ECC .19085 INC 4.1237 V1 29.308
RP 107.48 LAP 2.68 LOP 128.47 VP 37.815 GAP 6.22 AZP 86.86 TAL 180.27 TAP 40.82 RCA 103.29 APO 152.01 V2 35.259
RC 129.165 GL -34.30 GP 8.30 ZAL 92.60 ZAP 149.43 ETS 14.81 ZAE 132.40 ETE 172.26 ZAC 104.51 ETC 17.62 CLP-150.47

PLANETOCENTRIC CONIC

C3 11.505 VHL 3.392 DLA -29.18 RAL 160.46 RAD 6567.4 VEL 11.528 PTH 2.01 VHP 4.772 DPA 19.37 RAP 164.21 ECC 1.1893

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.65	9 11 28	965.01	23.08	330.91	20.71	108.37	9 27 33	365.0	25.37	322.92
97.35	11 13 0	5860.14	23.09	280.00	20.71	108.36	12 50 40	5260.1	25.38	272.01
100.00	10 38 46	682.00	19.30	308.67	19.17	113.28	10 50 8	82.0	22.29	301.15
100.00	12 28 23	5618.38	26.97	263.33	21.93	103.41	14 2 2	5018.4	28.54	254.88
110.00	10 23 25	730.31	13.06	308.93	15.78	121.87	10 35 35	130.3	17.18	302.24
110.00	15 0 14	5142.84	33.92	228.52	23.20	94.51	16 25 56	4542.8	34.17	219.28

DIFFERENTIAL CORRECTIONS
TDE-1.8522 TRA -.2293 TC3-5.5470 BAU .8532
RDE .1948 RRA .0156 RC3 -.0435 FAU .07779
FDE-2.3137 FRA .4831 FC3-5.8539 BSP 15610
BDE 1.8624 BRA .2298 BC3 5.5471 FSP -1633

MID-COURSE EXECUTION ACCURACY
SGT 4913.7 SGR 331.7 SG3 488.1
RRT -.5716 RRF -.6086 RTF .9638
SGB 4924.9 R23 .0682 R13 -.9640
SG1 4917.4 SG2 272.0 THA 177.78

ORBIT DETERMINATION ACCURACY
ST 3133.6 SR 329.1 SS 1616.2
CRT -.9991 CRS .9945 CST -.9935
LSA 3537.3 MSA 163.9 SSA 12.4
EL1 3150.8 EL2 13.6 ALF 174.01

LAUNCH DATE JUN 20 1967 FLIGHT TIME 168.00 ARRIVAL DATE DEC 5 1967

HELIOCENTRIC CONIC DISTANCE 478.436

RL 152.01 LAL -.00 LOL 268.01 VL 26.544 GAL .21 AZL 94.04 HCA 223.79 SMA 127.42 ECC .19302 INC 4.0376 V1 29.308
RP 107.48 LAP 2.79 LOP 131.72 VP 37.791 GAP 6.57 AZP 87.08 TAL 179.10 TAP 42.89 RCA 102.83 APO 152.02 V2 35.259
RC 131.355 GL -33.44 GP 7.54 ZAL 90.41 ZAP 151.26 ETS 14.38 ZAE 131.82 ETE 173.22 ZAC 103.27 ETC 17.02 CLP-152.19

PLANETOCENTRIC CONIC

C3 11.504 VHL 3.392 DLA -29.42 RAL 163.15 RAD 6567.4 VEL 11.528 PTH 2.01 VHP 4.925 DPA 18.08 RAP 165.38 ECC 1.1893

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.68	9 14 34	989.61	23.26	332.80	23.47	108.54	9 31 3	389.6	25.57	324.80
98.32	11 31 26	5835.51	23.27	278.24	23.48	108.52	13 8 41	5235.5	25.58	270.25
100.00	10 59 34	649.55	20.16	306.65	22.23	112.55	11 10 23	49.5	23.05	299.04
100.00	12 29 7	5650.80	26.44	265.59	24.51	104.49	14 3 18	5050.8	28.17	257.21
110.00	10 37 26	719.25	13.46	308.32	18.64	121.72	10 49 25	119.3	17.56	301.60
110.00	15 7 44	5153.86	33.86	229.38	25.98	95.01	16 33 38	4553.9	34.18	220.15

DIFFERENTIAL CORRECTIONS
TDE-1.8933 TRA -.1037 TC3-5.6514 BAU .8693
RDE .1905 RRA .0182 RC3 -.0889 FAU .07157
FDE-2.1657 FRA .6110 FC3-5.3860 BSP 15565
BDE 1.9029 BRA .1053 BC3 5.6521 FSP -1466

MID-COURSE EXECUTION ACCURACY
SGT 4996.6 SGR 329.3 SG3 458.3
RRT -.4893 RRF -.5238 RTF .9609
SGB 5007.5 R23 .0597 R13 -.9611
SG1 4999.2 SG2 287.0 THA 178.15

ORBIT DETERMINATION ACCURACY
ST 3201.0 SR 322.0 SS 1564.8
CRT -.9990 CRS .9910 CST -.9933
LSA 3573.8 MSA 163.0 SSA 13.5
EL1 3217.1 EL2 14.1 ALF 174.26

LAUNCH DATE JUN 20 1967 FLIGHT TIME 170.00 ARRIVAL DATE DEC 7 1967

HELIOCENTRIC CONIC DISTANCE 484.424

RL 152.01 LAL -.00 LOL 268.01 VL 26.508 GAL .51 AZL 93.96 HCA 227.04 SMA 127.19 ECC .19534 INC 3.9611 V1 29.308
RP 107.48 LAP 2.90 LOP 134.97 VP 37.765 GAP 6.91 AZP 87.30 TAL 177.91 TAP 44.94 RCA 102.35 APO 152.04 V2 35.259
RC 133.537 GL -32.57 GP 6.90 ZAL 88.13 ZAP 152.98 ETS 14.03 ZAE 131.27 ETE 174.02 ZAC 101.91 ETC 16.48 CLP-153.81

PLANETOCENTRIC CONIC

C3 11.569 VHL 3.401 DLA -29.69 RAL 165.94 RAD 6567.4 VEL 11.531 PTH 2.01 VHP 5.084 DPA 16.86 RAP 166.67 ECC 1.1904

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.69	9 17 59	1015.35	23.44	334.77	26.41	108.76	9 34 55	415.4	25.78	326.77
99.31	11 50 12	5812.10	23.45	276.58	26.42	108.75	13 27 4	5212.1	25.79	268.58
100.00	11 26 0	601.44	21.39	303.60	25.60	111.39	11 36 1	1.4	24.11	295.86
100.00	12 24 52	5701.25	25.53	269.06	27.13	106.10	13 59 54	5101.3	27.49	260.81
110.00	10 52 21	707.59	13.88	307.67	21.68	121.56	11 4 8	107.6	17.95	300.93
110.00	15 15 1	5167.86	33.77	230.46	28.95	95.65	16 41 9	4567.9	34.18	221.24

DIFFERENTIAL CORRECTIONS
TDE-1.9461 TRA .0141 TC3-5.7513 BAU .8897
RDE .1902 RRA .0230 RC3 -.1210 FAU .06692
FDE-2.0511 FRA .6914 FC3-5.0079 BSP 15910
BDE 1.9554 BRA .0270 BC3 5.7525 FSP -1392

MID-COURSE EXECUTION ACCURACY
SGT 5104.3 SGR 333.7 SG3 434.9
RRT -.4267 RRF -.4563 RTF .9610
SGB 5115.2 R23 .0495 R13 -.9610
SG1 5106.3 SG2 301.7 THA 178.40

ORBIT DETERMINATION ACCURACY
ST 3280.4 SR 320.6 SS 1528.5
CRT -.9981 CRS .9869 CST -.9936
LSA 3629.7 MSA 158.3 SSA 14.5
EL1 3295.9 EL2 19.8 ALF 174.43

LAUNCH DATE JUN 20 1967 FLIGHT TIME 172.00 ARRIVAL DATE DEC 9 1967

HELIOCENTRIC CONIC DISTANCE 490.391

RL 152.01 LAL -.00 LOL 268.01 VL 26.472 GAL .81 AZL 93.89 HCA 230.28 SMA 126.96 ECC .19783 INC 3.8924 V1 29.308
RP 107.48 LAP 2.99 LOP 138.22 VP 37.739 GAP 7.26 AZP 87.51 TAL 176.69 TAP 46.97 RCA 101.84 APO 152.08 V2 35.257
RC 135.709 GL -31.69 GP 6.34 ZAL 85.76 ZAP 154.61 ETS 13.76 ZAE 130.77 ETE 174.69 ZAC 100.44 ETC 15.99 CLP-155.36

PLANETOCENTRIC CONIC

C3 11.700 VHL 3.421 DLA -29.97 RAL 168.80 RAD 6567.4 VEL 11.536 PTH 2.01 VHP 5.248 DPA 15.70 RAP 168.07 ECC 1.1926

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.74	9 22 7	1041.01	23.60	336.74	29.52	109.03	9 39 28	441.0	25.98	328.74
100.26	12 8 55	5791.17	23.61	275.08	29.53	109.02	13 45 26	5191.2	25.99	267.08
79.74	9 22 7	1041.01	23.60	336.74	29.52	109.03	9 39 28	441.0	25.98	328.74
100.26	12 8 55	5791.17	23.61	275.08	29.53	109.02	13 45 26	5191.2	25.99	267.08
110.00	11 7 56	695.99	14.29	307.02	24.89	121.39	11 19 32	96.0	18.34	300.25
110.00	15 22 16	5184.19	33.65	231.72	32.10	96.39	16 48 40	4584.2	34.17	222.51

DIFFERENTIAL CORRECTIONS
TDE-2.0002 TRA .1413 TC3-5.8113 BAU .9093
RDE .1922 RRA .0278 RC3 -.1458 FAU .06243
FDE-1.9436 FRA .7672 FC3-4.6191 BSP 16283
BDE 2.0094 BRA .1440 BC3 5.8131 FSP -1327

MID-COURSE EXECUTION ACCURACY
SGT 5206.2 SGR 341.3 SG3 412.4
RRT -.3757 RRF -.4010 RTF .9607
SGB 5217.4 R23 .0418 R13 -.9608
SG1 5207.8 SG2 316.2 THA 178.58

ORBIT DETERMINATION ACCURACY
ST 3353.5 SR 322.4 SS 1490.4
CRT -.9962 CRS .9821 CST -.9938
LSA 3680.6 MSA 154.5 SSA 15.5
EL1 3368.8 EL2 27.9 ALF 174.53

LAUNCH DATE JUN 20 1967 FLIGHT TIME 174.00 ARRIVAL DATE DEC 11 1967

DISTANCE 496.336

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.435 GAL 1.14 AZL 93.83 HCA 233.53 SMA 126.73 ECC .20050 INC 3.8298 V1 29.308
RP 107.49 LAP 3.08 LOP 141.47 VP 37.711 GAP 7.62 AZP 87.72 TAL 175.46 TAP 48.99 RCA 101.32 APO 152.13 V2 35.255
RC 137.871 GL -30.78 GP 5.87 ZAL 83.32 ZAP 156.15 ETS 13.54 ZAE 130.32 ETE 175.26 ZAC 98.88 ETC 15.53 CLP-156.84

PLANETOCENTRIC CONIC
C3 11.901 VHL 3.450 DLA -30.26 RAL 171.73 RAD 6567.5 VEL 11.545 PTH 2.02 VHP 5.417 DPA 14.57 RAP 169.55 ECC 1.1959

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.86	9 27 12	1065.68	23.74	338.63	32.79	109.34	9 44 58	465.7	26.16	330.63
101.14	12 27 15	5773.63	23.75	273.83	32.79	109.32	14 3 28	5173.6	26.17	265.83
78.86	9 27 12	1065.68	23.74	338.63	32.79	109.34	9 44 58	465.7	26.16	330.63
101.14	12 27 15	5773.63	23.75	273.83	32.79	109.32	14 3 28	5173.6	26.17	265.83
110.00	11 23 58	685.12	14.67	306.42	28.26	121.22	11 35 24	85.1	18.70	299.62
110.00	15 29 39	5202.19	33.51	233.11	35.41	97.20	16 56 21	4602.2	34.14	223.92

DIFFERENTIAL CORRECTIONS
TDE-2.0559 TRA .2771 TC3-5.8279 BAU .9276
RDE .1964 RRA .0325 RC3 -.1636 FAU .05816
FDE-1.8459 FRA .8352 FC3-4.2311 BSP 16627
BDE 2.0653 BRA .2790 BC3 5.8302 FSP -1264

MID-COURSE EXECUTION ACCURACY
SGT 5302.0 SGR 350.8 SG3 391.2
RRT -.3371 RRF -.3591 RTF .9607
SGB 5313.6 R23 .0361 R13 -.9607
SG1 5303.3 SG2 330.2 THA 178.72

ORBIT DETERMINATION ACCURACY
ST 3420.4 SR 326.8 SS 1453.0
CRT -.9935 CRS .9766 CST -.9940
LSA 3727.5 MSA 151.0 SSA 16.3
EL1 3435.8 EL2 36.9 ALF 174.58

LAUNCH DATE JUN 20 1967 FLIGHT TIME 176.00 ARRIVAL DATE DEC 13 1967

DISTANCE 502.257

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.399 GAL 1.48 AZL 93.77 HCA 236.78 SMA 126.49 ECC .20335 INC 3.7723 V1 29.308
RP 107.50 LAP 3.16 LOP 144.73 VP 37.683 GAP 7.97 AZP 87.93 TAL 174.20 TAP 50.98 RCA 100.77 APO 152.21 V2 35.253
RC 140.023 GL -29.84 GP 5.45 ZAL 80.83 ZAP 157.61 ETS 13.40 ZAE 129.90 ETE 175.73 ZAC 97.23 ETC 15.12 CLP-158.26

PLANETOCENTRIC CONIC
C3 12.175 VHL 3.489 DLA -30.54 RAL 174.73 RAD 6567.5 VEL 11.557 PTH 2.02 VHP 5.592 DPA 13.46 RAP 171.11 ECC 1.2004

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.07	9 33 20	1088.98	23.84	340.41	36.20	109.67	9 51 29	489.0	26.30	332.42
101.93	12 45 2	5759.93	23.85	272.84	36.21	109.66	14 21 2	5159.9	26.31	264.85
78.07	9 33 20	1088.98	23.84	340.41	36.20	109.67	9 51 29	489.0	26.30	332.42
101.93	12 45 2	5759.93	23.85	272.84	36.21	109.66	14 21 2	5159.9	26.31	264.85
110.00	11 40 14	675.65	15.01	305.89	31.77	121.08	11 51 30	75.7	19.02	299.06
110.00	15 37 18	5221.26	33.34	234.57	38.87	98.05	17 4 19	4621.3	34.09	225.41

DIFFERENTIAL CORRECTIONS
TDE-2.1107 TRA .4240 TC3-5.8056 BAU .9454
RDE .2026 RRA .0369 RC3 -.1748 FAU .05424
FDE-1.7539 FRA .9002 FC3-3.8571 BSP 16938
BDE 2.1204 BRA .4256 BC3 5.8083 FSP -1204

MID-COURSE EXECUTION ACCURACY
SGT 5392.6 SGR 361.2 SG3 371.5
RRT -.3090 RRF -.3278 RTF .9607
SGB 5404.7 R23 .0313 R13 -.9608
SG1 5393.8 SG2 343.4 THA 178.81

ORBIT DETERMINATION ACCURACY
ST 3476.4 SR 333.3 SS 1414.0
CRT -.9901 CRS .9706 CST -.9943
LSA 3764.8 MSA 148.4 SSA 17.1
EL1 3492.1 EL2 46.6 ALF 174.58

LAUNCH DATE JUN 20 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 15 1967

DISTANCE 508.154

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.361 GAL 1.83 AZL 93.72 HCA 240.02 SMA 126.25 ECC .20641 INC 3.7189 V1 29.308
RP 107.51 LAP 3.22 LOP 147.98 VP 37.654 GAP 8.34 AZP 88.14 TAL 172.93 TAP 52.95 RCA 100.19 APO 152.31 V2 35.249
RC 142.165 GL -28.87 GP 5.09 ZAL 78.29 ZAP 159.01 ETS 13.31 ZAE 129.51 ETE 176.14 ZAC 95.50 ETC 14.74 CLP-159.61

PLANETOCENTRIC CONIC
C3 12.528 VHL 3.539 DLA -30.79 RAL 177.78 RAD 6567.5 VEL 11.572 PTH 2.02 VHP 5.773 DPA 12.38 RAP 172.73 ECC 1.2062

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.38	9 40 29	1110.90	23.89	342.07	39.75	110.03	9 59 0	510.9	26.39	334.09
102.62	13 2 11	5750.16	23.90	272.13	39.76	110.01	14 38 1	5150.2	26.40	264.15
77.38	9 40 29	1110.90	23.89	342.07	39.75	110.03	9 59 0	510.9	26.39	334.09
102.62	13 2 11	5750.16	23.90	272.13	39.76	110.01	14 38 1	5150.2	26.40	264.15
110.00	11 56 29	668.24	15.27	305.47	35.40	120.96	12 7 38	68.2	19.26	298.62
110.00	15 45 21	5240.81	33.14	236.06	42.46	98.91	17 12 42	4640.8	34.01	226.93

DIFFERENTIAL CORRECTIONS
TDE-2.1623 TRA .5842 TC3-5.7290 BAU .9600
RDE .2103 RRA .0407 RC3 -.1811 FAU .05029
FDE-1.6643 FRA .9643 FC3-3.4754 BSP 17157
BDE 2.1725 BRA .5856 BC3 5.7318 FSP -1140

MID-COURSE EXECUTION ACCURACY
SGT 5469.1 SGR 371.8 SG3 352.1
RRT -.2890 RRF -.3054 RTF .9604
SGB 5481.7 R23 .0278 R13 -.9604
SG1 5470.1 SG2 355.9 THA 178.87

ORBIT DETERMINATION ACCURACY
ST 3517.9 SR 341.3 SS 1371.4
CRT -.9859 CRS .9638 CST -.9944
LSA 3788.2 MSA 147.2 SSA 17.7
EL1 3533.9 EL2 56.8 ALF 174.53

LAUNCH DATE JUN 20 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 17 1967

DISTANCE 514.024

HELIOCENTRIC CONIC
RL 152.01 LAL -.00 LOL 268.01 VL 26.324 GAL 2.20 AZL 93.67 HCA 243.27 SMA 126.02 ECC .20967 INC 3.6689 V1 29.308
RP 107.52 LAP 3.28 LOP 151.23 VP 37.623 GAP 8.71 AZP 88.35 TAL 171.65 TAP 54.91 RCA 99.60 APO 152.44 V2 35.245
RC 144.295 GL -27.87 GP 4.77 ZAL 75.73 ZAP 160.35 ETS 13.29 ZAE 129.17 ETE 176.49 ZAC 93.71 ETC 14.39 CLP-160.92

PLANETOCENTRIC CONIC
C3 12.966 VHL 3.601 DLA -31.01 RAL 180.86 RAD 6567.5 VEL 11.591 PTH 2.03 VHP 5.960 DPA 11.31 RAP 174.41 ECC 1.2134

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.81	9 48 42	1131.15	23.87	343.59	43.41	110.39	10 7 34	531.2	26.43	335.63
103.19	13 18 34	5744.64	23.88	271.71	43.42	110.38	14 54 18	5144.6	26.44	263.75
76.81	9 48 42	1131.15	23.87	343.59	43.41	110.39	10 7 34	531.2	26.43	335.63
103.19	13 18 34	5744.64	23.88	271.71	43.42	110.38	14 54 18	5144.6	26.44	263.75
110.00	12 12 28	663.55	15.43	305.20	39.12	120.89	12 23 32	63.5	19.41	298.35
110.00	15 53 58	5260.25	32.92	237.54	46.18	99.76	17 21 39	4660.2	33.92	228.44

DIFFERENTIAL CORRECTIONS
TDE-2.2166 TRA .7504 TC3-5.6269 BAU .9759
RDE .2199 RRA .0441 RC3 -.1819 FAU .04680
FDE-1.5848 FRA 1.0190 FC3-3.1247 BSP 17463
BDE 2.2275 BRA .7517 BC3 5.6298 FSP -1089

MID-COURSE EXECUTION ACCURACY
SGT 5550.0 SGR 382.5 SG3 334.6
RRT -.2777 RRF -.2922 RTF .9606
SGB 5563.1 R23 .0253 R13 -.9606
SG1 5551.0 SG2 367.4 THA 178.90

ORBIT DETERMINATION ACCURACY
ST 3553.8 SR 350.8 SS 1331.4
CRT -.9814 CRS .9572 CST -.9946
LSA 3808.4 MSA 146.4 SSA 18.2
EL1 3570.4 EL2 67.1 ALF 174.47

LAUNCH DATE JUN 20 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 19 1967

HELIOCENTRIC CONIC DISTANCE 519.866

RL 152.01 LAL -.00 LOL 268.01 VL 26.287 GAL 2.59 AZL 93.62 HCA 246.51 SMA 125.78 ECC .21317 INC 3.6217 V1 29.308
RP 107.53 LAP 3.32 LOP 154.48 VP 37.593 GAP 9.08 AZP 88.56 TAL 170.35 TAP 56.86 RCA 98.97 APO 152.60 V2 35.240
RC 146.414 GL -26.84 GP 4.49 ZAL 73.15 ZAP 161.63 ETS 13.34 ZAE 128.85 ETE 176.78 ZAC 91.86 ETC 14.07 CLP-162.17

PLANETOCENTRIC CONIC

C3 13.498 VHL 3.674 DLA -31.18 RAL 183.96 RAD 6567.5 VEL 11.614 PTH 2.04 VHP 6.154 DPA 10.25 RAP 176.14 ECC 1.2221

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.36	9 57 54	1149.90	23.80	344.97	47.18	110.77	10 17 4	549.9	26.41	337.03
103.64	13 34 7	5743.31	23.81	271.57	47.18	110.76	15 9 51	5143.3	26.41	263.64
76.36	9 57 54	1149.90	23.80	344.97	47.18	110.77	10 17 4	549.9	26.41	337.03
103.64	13 34 7	5743.31	23.81	271.57	47.18	110.76	15 9 51	5143.3	26.41	263.64
110.00	12 27 56	662.16	15.48	305.13	42.91	120.86	12 38 58	62.2	19.46	298.26
110.00	16 3 15	5279.05	32.70	238.96	50.01	100.57	17 31 14	4679.0	33.81	229.90

DIFFERENTIAL CORRECTIONS
TOE-2.2683 TRA .9285 TC3-5.4856 BAU .9904
ROE .2310 RRA .0467 RC3 -.1786 FAU .04348
FDE-1.5082 FRA 1.0719 FC3-2.7884 BSP 17732
BDE 2.2800 BRA .9296 BC3 5.4885 FSP -1040

MID-COURSE EXECUTION ACCURACY
SGT 5623.6 SGR 392.7 SG3 318.0
RRT -.2721 RRF -.2849 RTF .9607
SGB 5637.3 R23 .0232 R13 -.9607
SG1 5624.6 SG2 377.8 THA 178.91

ORBIT DETERMINATION ACCURACY
ST 3575.7 SR 361.1 SS 1289.2
CRT -.9763 CRS .9501 CST -.9948
LSA 3815.2 MSA 147.0 SSA 18.5
EL1 3593.0 EL2 77.7 ALF 174.37

LAUNCH DATE JUN 20 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 21 1967

HELIOCENTRIC CONIC DISTANCE 525.679

RL 152.01 LAL -.00 LOL 268.01 VL 26.249 GAL 3.00 AZL 93.58 HCA 249.76 SMA 125.55 ECC .21692 INC 3.5767 V1 29.308
RP 107.55 LAP 3.36 LOP 157.73 VP 37.561 GAP 9.47 AZP 88.76 TAL 169.04 TAP 58.79 RCA 98.31 APO 152.78 V2 35.234
RC 148.521 GL -25.78 GP 4.24 ZAL 70.58 ZAP 162.87 ETS 13.46 ZAE 128.55 ETE 177.03 ZAC 89.97 ETC 13.79 CLP-163.39

PLANETOCENTRIC CONIC

C3 14.134 VHL 3.759 DLA -31.31 RAL 187.07 RAD 6567.6 VEL 11.641 PTH 2.04 VHP 6.355 DPA 9.20 RAP 177.91 ECC 1.2326

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.04	10 8 0	1167.18	23.64	346.21	51.02	111.15	10 27 27	567.2	26.31	338.30
103.96	13 48 48	5746.19	23.66	271.73	51.03	111.14	15 24 34	5146.2	26.32	263.82
76.04	10 8 0	1167.18	23.64	346.21	51.02	111.15	10 27 27	567.2	26.31	338.30
103.96	13 48 48	5746.19	23.66	271.73	51.03	111.14	15 24 34	5146.2	26.32	263.82
110.00	12 42 40	664.63	15.39	305.27	46.75	120.90	12 53 44	64.6	19.38	298.41
110.00	16 13 18	5296.73	32.47	240.29	53.93	101.32	17 41 35	4696.7	33.69	231.26

DIFFERENTIAL CORRECTIONS
TOE-2.3175 TRA 1.1176 TC3-5.3101 BAU 1.0039
ROE .2434 RRA .0486 RC3 -.1719 FAU .04033
FDE-1.4351 FRA 1.1214 FC3-2.4701 BSP 17989
BDE 2.3302 BRA 1.1186 BC3 5.3129 FSP -993

MID-COURSE EXECUTION ACCURACY
SGT 5691.2 SGR 402.3 SG3 302.2
RRT -.2713 RRF -.2827 RTF .9609
SGB 5705.4 R23 .0216 R13 -.9609
SG1 5692.3 SG2 387.1 THA 178.90

ORBIT DETERMINATION ACCURACY
ST 3584.2 SR 371.9 SS 1245.7
CRT -.9709 CRS .9429 CST -.9950
LSA 3809.7 MSA 148.7 SSA 18.6
EL1 3602.3 EL2 88.6 ALF 174.24

LAUNCH DATE JUN 20 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 23 1967

HELIOCENTRIC CONIC DISTANCE 531.460

RL 152.01 LAL -.00 LOL 268.01 VL 26.211 GAL 3.43 AZL 93.53 HCA 253.00 SMA 125.31 ECC .22094 INC 3.5336 V1 29.308
RP 107.57 LAP 3.38 LOP 160.97 VP 37.529 GAP 9.87 AZP 88.97 TAL 167.72 TAP 60.72 RCA 97.63 APO 153.00 V2 35.228
RC 150.615 GL -24.71 GP 4.02 ZAL 68.01 ZAP 164.06 ETS 13.66 ZAE 128.29 ETE 177.25 ZAC 88.02 ETC 13.53 CLP-164.56

PLANETOCENTRIC CONIC

C3 14.884 VHL 3.858 DLA -31.39 RAL 190.16 RAD 6567.6 VEL 11.673 PTH 2.05 VHP 6.564 DPA 8.15 RAP 179.72 ECC 1.2449

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.85	10 18 58	1182.93	23.42	347.30	54.93	111.53	10 38 41	582.9	26.13	339.43
104.15	14 2 29	5753.38	23.43	272.18	54.93	111.52	15 38 22	5153.4	26.14	264.30
75.85	10 18 58	1182.93	23.42	347.30	54.93	111.53	10 38 41	582.9	26.13	339.43
104.15	14 2 29	5753.38	23.43	272.18	54.93	111.52	15 38 22	5153.4	26.14	264.30
110.00	12 56 27	671.36	15.16	305.64	50.62	121.01	13 7 38	71.4	19.16	298.81
110.00	16 24 10	5312.95	32.25	241.50	57.93	102.01	17 52 43	4712.9	33.56	232.51

DIFFERENTIAL CORRECTIONS
TOE-2.3604 TRA 1.3225 TC3-5.0938 BAU 1.0141
ROE .2571 RRA .0494 RC3 -.1628 FAU .03720
FDE-1.3625 FRA 1.1721 FC3-2.1637 BSP 18133
BDE 2.3743 BRA 1.3234 BC3 5.0964 FSP -942

MID-COURSE EXECUTION ACCURACY
SGT 5747.2 SGR 411.1 SG3 287.1
RRT -.2738 RRF -.2837 RTF .9608
SGB 5761.9 R23 .0202 R13 -.9608
SG1 5748.3 SG2 395.3 THA 178.87

ORBIT DETERMINATION ACCURACY
ST 3574.7 SR 382.7 SS 1199.3
CRT -.9650 CRS .9350 CST -.9950
LSA 3786.8 MSA 152.2 SSA 18.5
EL1 3593.8 EL2 99.8 ALF 174.10

LAUNCH DATE JUN 20 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 25 1967

HELIOCENTRIC CONIC DISTANCE 537.205

RL 152.01 LAL -.00 LOL 268.01 VL 26.174 GAL 3.88 AZL 93.49 HCA 256.24 SMA 125.08 ECC .22525 INC 3.4920 V1 29.308
RP 107.59 LAP 3.39 LOP 164.22 VP 37.496 GAP 10.27 AZP 89.17 TAL 166.39 TAP 62.63 RCA 96.90 APO 153.25 V2 35.221
RC 152.696 GL -23.62 GP 3.82 ZAL 65.47 ZAP 165.21 ETS 13.95 ZAE 128.04 ETE 177.44 ZAC 86.04 ETC 13.30 CLP-165.71

PLANETOCENTRIC CONIC

C3 15.762 VHL 3.970 DLA -31.42 RAL 193.22 RAD 6567.6 VEL 11.711 PTH 2.06 VHP 6.783 DPA 7.11 RAP 181.56 ECC 1.2594

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.78	10 30 42	1197.28	23.11	348.25	58.88	111.90	10 50 39	597.3	25.88	340.42
104.22	14 15 9	5764.81	23.13	272.91	58.89	111.89	15 51 14	5164.8	25.89	265.07
75.78	10 30 42	1197.28	23.11	348.25	58.88	111.90	10 50 39	597.3	25.88	340.42
104.22	14 15 9	5764.81	23.13	272.91	58.89	111.89	15 51 14	5164.8	25.89	265.07
110.00	13 9 9	682.64	14.76	306.28	54.48	121.19	13 20 32	82.6	18.78	299.47
110.00	16 35 53	5327.44	32.04	242.58	62.01	102.62	18 4 40	4727.4	33.44	233.63

DIFFERENTIAL CORRECTIONS
TOE-2.4044 TRA 1.5351 TC3-4.8633 BAU 1.0253
ROE .2722 RRA .0494 RC3 -.1513 FAU .03439
FDE-1.2971 FRA 1.2170 FC3-1.8889 BSP 18363
BDE 2.4198 BRA 1.5358 BC3 4.8657 FSP -901

MID-COURSE EXECUTION ACCURACY
SGT 5804.5 SGR 419.2 SG3 273.1
RRT -.2805 RRF -.2894 RTF .9610
SGB 5819.6 R23 .0193 R13 -.9610
SG1 5805.7 SG2 402.3 THA 178.83

ORBIT DETERMINATION ACCURACY
ST 3558.2 SR 393.7 SS 1155.5
CRT -.9590 CRS .9273 CST -.9952
LSA 3758.5 MSA 156.2 SSA 18.3
EL1 3578.2 EL2 111.0 ALF 173.94

LAUNCH DATE JUN 20 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 27 1967

HELIOCENTRIC CONIC DISTANCE 542.912

RL 152.01 LAL -.00 LOL 268.01 VL 26.136 GAL 4.36 AZL 93.45 HCA 259.48 SMA 124.85 ECC .22988 INC 3.4516 V1 29.308
RP 107.62 LAP 3.39 LOP 167.47 VP 37.463 GAP 10.70 AZP 89.37 TAL 165.06 TAP 64.54 RCA 96.15 APO 153.55 V2 35.214
RC 154.762 GL -22.52 GP 3.65 ZAL 62.97 ZAP 166.33 ETS 14.35 ZAE 127.81 ETE 177.60 ZAC 84.02 ETC 13.10 CLP-166.82

PLANETOCENTRIC CONIC

C3 16.783 VHL 4.097 DLA -31.39 RAL 196.23 RAD 6567.7 VEL 11.754 PTH 2.07 VHP 7.011 DPA 6.07 RAP 183.43 ECC 1.2762

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.85	10 43 10	1210.18	22.73	349.06	62.87	112.26	11 3 20	610.2	25.54	341.27
104.15	14 26 43	5780.54	22.74	273.93	62.87	112.25	16 3 4	5180.5	25.56	266.14
75.85	10 43 10	1210.18	22.73	349.06	62.87	112.26	11 3 20	610.2	25.54	341.27
104.15	14 26 43	5780.54	22.74	273.93	62.87	112.25	16 3 4	5180.5	25.56	266.14
110.00	13 20 40	698.56	14.20	307.17	58.32	121.43	13 32 19	98.6	18.25	300.40
110.00	16 48 23	5340.16	31.84	243.52	66.14	103.14	18 17 23	4740.2	33.32	234.60

DIFFERENTIAL CORRECTIONS
TDE-2.4453 TRA 1.7608 TC3-4.6110 BAU 1.0350
RDE .2885 RRA .0481 RC3 -.1384 FAU .03173
FDE-1.2346 FRA 1.2608 FC3-1.6366 BSP 18572
BDE 2.4623 BRA 1.7615 BC3 4.6131 FSP -862

MID-COURSE EXECUTION ACCURACY
SGT 5856.0 SGR 426.5 SG3 259.9
RRT -.2899 RRF -.2976 RTF .9612
SGB 5871.5 R23 .0183 R13 -.9613
SG1 5857.3 SG2 408.1 THA 178.78

ORBIT DETERMINATION ACCURACY
ST 3529.6 SR 404.2 SS 1111.6
CRT -.9526 CRS .9194 CST -.9953
LSA 3719.0 MSA 161.4 SSA 18.0
EL1 3550.6 EL2 122.2 ALF 173.77

LAUNCH DATE JUN 20 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 29 1967

HELIOCENTRIC CONIC DISTANCE 548.576

RL 152.01 LAL -.00 LOL 268.01 VL 26.098 GAL 4.86 AZL 93.41 HCA 262.72 SMA 124.62 ECC .23485 INC 3.4120 V1 29.308
RP 107.64 LAP 3.38 LOP 170.71 VP 37.429 GAP 11.13 AZP 89.57 TAL 163.73 TAP 66.45 RCA 95.35 APO 153.88 V2 35.205
RC 156.813 GL -21.42 GP 3.49 ZAL 60.52 ZAP 167.42 ETS 14.88 ZAE 127.60 ETE 177.73 ZAC 81.98 ETC 12.92 CLP-167.91

PLANETOCENTRIC CONIC

C3 17.965 VHL 4.239 DLA -31.31 RAL 199.18 RAD 6567.7 VEL 11.805 PTH 2.09 VHP 7.251 DPA 5.04 RAP 185.33 ECC 1.2957

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.04	10 56 18	1221.64	22.26	349.72	66.87	112.61	11 16 40	621.6	25.13	341.98
103.96	14 37 7	5800.60	22.28	275.24	66.87	112.60	16 13 48	5200.6	25.14	267.49
76.04	10 56 18	1221.64	22.26	349.72	66.87	112.61	11 16 40	621.6	25.13	341.98
103.96	14 37 7	5800.60	22.28	275.24	66.87	112.60	16 13 48	5200.6	25.14	267.49
110.00	13 30 59	719.03	13.47	308.30	62.13	121.72	13 42 58	119.0	17.57	301.59
110.00	17 1 36	5351.20	31.67	244.33	70.31	103.59	18 30 48	4751.2	33.21	235.44

DIFFERENTIAL CORRECTIONS
TDE-2.4832 TRA 2.0001 TC3-4.3419 BAU 1.0433
RDE .3059 RRA .0457 RC3 -.1247 FAU .02919
FDE-1.1757 FRA 1.3033 FC3-1.4065 BSP 18762
BDE 2.5020 BRA 2.0006 BC3 4.3437 FSP -825

MID-COURSE EXECUTION ACCURACY
SGT 5901.8 SGR 432.9 SG3 247.4
RRT -.3015 RRF -.3082 RTF .9615
SGB 5917.6 R23 .0177 R13 -.9615
SG1 5903.2 SG2 412.6 THA 178.73

ORBIT DETERMINATION ACCURACY
ST 3490.2 SR 414.1 SS 1068.6
CRT -.9459 CRS .9112 CST -.9954
LSA 3669.7 MSA 167.3 SSA 17.6
EL1 3512.1 EL2 133.5 ALF 173.59

LAUNCH DATE JUN 20 1967 FLIGHT TIME 194.00 ARRIVAL DATE DEC 31 1967

HELIOCENTRIC CONIC DISTANCE 554.195

RL 152.01 LAL -.00 LOL 268.01 VL 26.060 GAL 5.38 AZL 93.37 HCA 265.96 SMA 124.39 ECC .24020 INC 3.3730 V1 29.308
RP 107.67 LAP 3.36 LOP 173.96 VP 37.394 GAP 11.59 AZP 89.76 TAL 162.39 TAP 68.35 RCA 94.51 APO 154.27 V2 35.197
RC 158.850 GL -20.32 GP 3.34 ZAL 58.13 ZAP 168.48 ETS 15.57 ZAE 127.39 ETE 177.85 ZAC 79.90 ETC 12.78 CLP-168.97

PLANETOCENTRIC CONIC

C3 19.329 VHL 4.396 DLA -31.18 RAL 202.06 RAD 6567.8 VEL 11.862 PTH 2.10 VHP 7.502 DPA 4.01 RAP 187.25 ECC 1.3181

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.36	11 10 2	1231.68	21.72	350.23	70.87	112.94	11 30 34	631.7	24.64	342.54
103.64	14 46 19	5824.92	21.74	276.83	70.87	112.93	16 23 24	5224.9	24.65	269.14
76.36	11 10 2	1231.68	21.72	350.23	70.87	112.94	11 30 34	631.7	24.64	342.54
103.64	14 46 19	5824.92	21.74	276.83	70.87	112.93	16 23 24	5224.9	24.65	269.14
110.00	13 40 7	743.82	12.58	309.67	65.89	122.05	13 52 31	143.8	16.72	303.01
110.00	17 15 25	5360.78	31.51	245.03	74.52	103.98	18 44 46	4760.8	33.11	236.17

DIFFERENTIAL CORRECTIONS
TDE-2.5181 TRA 2.2531 TC3-4.0609 BAU 1.0498
RDE .3243 RRA .0419 RC3 -.1106 FAU .02677
FDE-1.1196 FRA 1.3450 FC3-1.1988 BSP 18936
BDE 2.5389 BRA 2.2535 BC3 4.0624 FSP -790

MID-COURSE EXECUTION ACCURACY
SGT 5941.4 SGR 438.3 SG3 235.6
RRT -.3150 RRF -.3206 RTF .9618
SGB 5957.5 R23 .0170 R13 -.9618
SG1 5943.0 SG2 415.9 THA 178.66

ORBIT DETERMINATION ACCURACY
ST 3441.1 SR 423.1 SS 1026.4
CRT -.9389 CRS .9027 CST -.9955
LSA 3611.5 MSA 174.0 SSA 17.1
EL1 3464.0 EL2 144.6 ALF 173.40

LAUNCH DATE JUN 20 1967 FLIGHT TIME 196.00 ARRIVAL DATE JAN 2 1968

HELIOCENTRIC CONIC DISTANCE 559.762

RL 152.01 LAL -.00 LOL 268.01 VL 26.023 GAL 5.94 AZL 93.33 HCA 269.19 SMA 124.16 ECC .24597 INC 3.3344 V1 29.308
RP 107.70 LAP 3.33 LOP 177.20 VP 37.359 GAP 12.06 AZP 89.95 TAL 161.06 TAP 70.25 RCA 93.62 APO 154.70 V2 35.187
RC 160.871 GL -19.23 GP 3.21 ZAL 55.80 ZAP 169.52 ETS 16.45 ZAE 127.20 ETE 177.95 ZAC 77.81 ETC 12.66 CLP-170.02

PLANETOCENTRIC CONIC

C3 20.899 VHL 4.572 DLA -31.00 RAL 204.85 RAD 6567.8 VEL 11.928 PTH 2.12 VHP 7.767 DPA 2.98 RAP 189.19 ECC 1.3439

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.81	11 24 22	1240.18	21.11	350.59	74.85	113.25	11 45 2	640.2	24.07	342.96
103.19	14 54 14	5853.63	21.12	278.71	74.86	113.24	16 31 48	5253.6	24.09	271.07
76.81	11 24 22	1240.18	21.11	350.59	74.85	113.25	11 45 2	640.2	24.07	342.96
103.19	14 54 14	5853.63	21.12	278.71	74.86	113.24	16 31 48	5253.6	24.09	271.07
110.00	13 48 8	772.58	11.53	311.25	69.60	122.40	14 1 0	172.6	15.73	304.65
110.00	17 29 39	5369.24	31.37	245.65	78.74	104.33	18 59 8	4769.2	33.02	236.82

DIFFERENTIAL CORRECTIONS
TDE-2.5471 TRA 2.5244 TC3-3.7670 BAU 1.0529
RDE .3435 RRA .0366 RC3 -.0969 FAU .02438
FDE-1.0649 FRA 1.3881 FC3-1.0098 BSP 19018
BDE 2.5702 BRA 2.5247 BC3 3.7682 FSP -752

MID-COURSE EXECUTION ACCURACY
SGT 5973.2 SGR 442.7 SG3 224.5
RRT -.3294 RRF -.3337 RTF .9620
SGB 5989.6 R23 .0161 R13 -.9620
SG1 5975.0 SG2 417.9 THA 178.59

ORBIT DETERMINATION ACCURACY
ST 3380.5 SR 430.8 SS 984.7
CRT -.9312 CRS .8934 CST -.9955
LSA 3542.6 MSA 181.6 SSA 16.6
EL1 3404.3 EL2 155.9 ALF 173.22

LAUNCH DATE JUN 20 1967 FLIGHT TIME 198.00 ARRIVAL DATE JAN 4 1968

HELIOCENTRIC CONIC DISTANCE 565.271

RL 152.01 LAL -.00 LOL 268.01 VL 25.986 GAL 6.53 AZL 93.30 HCA 272.43 SMA 123.93 ECC .25218 INC 3.2958 V1 29.308
RP 107.73 LAP 3.29 LOP 180.44 VP 37.324 GAP 12.56 AZP 90.14 TAL 159.73 TAP 72.15 RCA 92.68 APO 155.19 V2 35.178
RC 162.878 GL -18.15 GP 3.09 ZAL 53.55 ZAP 170.53 ETS 17.58 ZAE 127.02 ETE 178.03 ZAC 75.70 ETC 12.57 CLP-171.05

PLANETOCENTRIC CONIC

C3 22.704 VHL 4.765 DLA -30.78 RAL 207.54 RAD 6567.9 VEL 12.003 PTH 2.14 VHP 8.047 DPA 1.96 RAP 191.15 ECC 1.3736

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.40	11 39 17	1247.01	20.43	350.79	78.82	113.54	12 0 4	647.0	23.44	343.21
102.60	15 0 48	5886.82	20.44	280.89	78.82	113.53	16 38 55	5286.8	23.45	273.31
77.40	11 39 17	1247.01	20.43	350.79	78.82	113.54	12 0 4	647.0	23.44	343.21
102.60	15 0 48	5886.82	20.44	280.89	78.82	113.53	16 38 55	5286.8	23.45	273.31
110.00	13 55 7	804.91	10.35	313.00	73.23	122.76	14 8 32	204.9	14.59	306.47
110.00	17 44 9	5376.92	31.24	246.21	82.97	104.63	19 13 46	4776.9	32.93	237.40

DIFFERENTIAL CORRECTIONS
TDE-2.5775 TRA 2.8076 TC3-3.4775 BAU 1.0558
RDE .3635 RRA .0300 RC3 -.0835 FAU .02220
FDE-1.0158 FRA 1.4287 FC3 -.8466 BSP 19171
BDE 2.6030 BRA 2.8077 BC3 3.4785 FSP -720

MID-COURSE EXECUTION ACCURACY
SGT 6002.5 SGR 446.3 SG3 214.1
RRT -.3457 RRF -.3488 RTF .9625
SGB 6019.1 R23 .0154 R13 -.9625
SG1 6004.5 SG2 418.6 THA 178.52

ORBIT DETERMINATION ACCURACY
ST 3317.5 SR 437.3 SS 946.3
CRT -.9235 CRS .8843 CST -.9956
LSA 3472.3 MSA 189.0 SSA 16.1
EL1 3342.1 EL2 166.6 ALF 173.04

LAUNCH DATE JUN 20 1967 FLIGHT TIME 200.00 ARRIVAL DATE JAN 6 1968

HELIOCENTRIC CONIC DISTANCE 570.715

RL 152.01 LAL -.00 LOL 268.01 VL 25.948 GAL 7.15 AZL 93.26 HCA 275.66 SMA 123.71 ECC .25890 INC 3.2570 V1 29.308
RP 107.76 LAP 3.24 LOP 183.67 VP 37.288 GAP 13.08 AZP 90.32 TAL 158.41 TAP 74.06 RCA 91.68 APO 155.74 V2 35.167
RC 164.869 GL -17.09 GP 2.99 ZAL 51.37 ZAP 171.52 ETS 19.04 ZAE 126.84 ETE 178.11 ZAC 73.58 ETC 12.50 CLP-172.06

PLANETOCENTRIC CONIC

C3 24.777 VHL 4.978 DLA -30.52 RAL 210.13 RAD 6568.0 VEL 12.089 PTH 2.16 VHP 8.344 DPA .95 RAP 193.12 ECC 1.4078

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.12	11 54 51	1251.76	19.68	350.79	82.75	113.81	12 15 43	651.8	22.73	343.28
101.88	15 5 53	636.78	19.70	305.48	82.76	113.79	15 16 30	36.8	22.74	297.96
78.12	11 54 51	1251.76	19.68	350.79	82.75	113.81	12 15 43	651.8	22.73	343.28
101.88	15 5 53	636.78	19.70	305.48	82.76	113.79	15 16 30	36.8	22.74	297.96
110.00	14 1 10	840.37	9.03	314.91	76.81	123.11	14 15 10	240.4	13.33	308.44
110.00	17 58 45	5384.20	31.12	246.74	87.19	104.92	19 28 29	4784.2	32.85	237.95

DIFFERENTIAL CORRECTIONS
TDE-2.6062 TRA 3.1075 TC3-3.1886 BAU 1.0565
RDE .3843 RRA .0217 RC3 -.0709 FAU .02011
FDE -.9699 FRA 1.4698 FC3 -.7026 BSP 19305
BDE 2.6344 BRA 3.1076 BC3 3.1894 FSP -690

MID-COURSE EXECUTION ACCURACY
SGT 6026.3 SGR 448.9 SG3 204.3
RRT -.3631 RRF -.3649 RTF .9630
SGB 6043.0 R23 .0146 R13 -.9630
SG1 6028.5 SG2 418.1 THA 178.44

ORBIT DETERMINATION ACCURACY
ST 3249.6 SR 442.5 SS 910.2
CRT -.9153 CRS .8748 CST -.9957
LSA 3397.9 MSA 196.5 SSA 15.6
EL1 3274.8 EL2 176.9 ALF 172.88

LAUNCH DATE JUN 20 1967 FLIGHT TIME 202.00 ARRIVAL DATE JAN 8 1968

HELIOCENTRIC CONIC DISTANCE 576.086

RL 152.01 LAL -.00 LOL 268.01 VL 25.912 GAL 7.82 AZL 93.22 HCA 278.89 SMA 123.49 ECC .26618 INC 3.2179 V1 29.308
RP 107.79 LAP 3.18 LOP 186.91 VP 37.252 GAP 13.64 AZP 90.50 TAL 157.09 TAP 75.98 RCA 90.62 APO 156.36 V2 35.156
RC 166.846 GL -16.05 GP 2.89 ZAL 49.28 ZAP 172.49 ETS 20.95 ZAE 126.66 ETE 178.17 ZAC 71.45 ETC 12.47 CLP-173.07

PLANETOCENTRIC CONIC

C3 27.159 VHL 5.211 DLA -30.22 RAL 212.61 RAD 6568.1 VEL 12.187 PTH 2.19 VHP 8.661 DPA -.05 RAP 195.10 ECC 1.4470

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.98	12 11 9	1254.12	18.87	350.59	86.64	114.05	12 32 3	654.1	21.96	343.13
101.02	15 9 23	679.81	18.89	308.32	86.65	114.03	15 20 42	79.8	21.98	300.86
78.98	12 11 9	1254.12	18.87	350.59	86.64	114.05	12 32 3	654.1	21.96	343.13
101.02	15 9 23	679.81	18.89	308.32	86.65	114.03	15 20 42	79.8	21.98	300.86
110.00	14 6 23	878.56	7.61	316.94	80.31	123.43	14 21 1	278.6	11.95	310.54
110.00	18 13 19	5391.41	30.99	247.27	91.39	105.21	19 43 11	4791.4	32.76	238.50

DIFFERENTIAL CORRECTIONS
TDE-2.6332 TRA 3.4255 TC3-2.9033 BAU 1.0544
RDE .4057 RRA .0119 RC3 -.0593 FAU .01811
FDE -.9271 FRA 1.5113 FC3 -.5772 BSP 19414
BDE 2.6643 BRA 3.4255 BC3 2.9039 FSP -661

MID-COURSE EXECUTION ACCURACY
SGT 6044.3 SGR 450.5 SG3 195.1
RRT -.3813 RRF -.3818 RTF .9637
SGB 6061.1 R23 .0136 R13 -.9637
SG1 6046.8 SG2 416.3 THA 178.36

ORBIT DETERMINATION ACCURACY
ST 3177.9 SR 446.0 SS 876.5
CRT -.9066 CRS .8651 CST -.9958
LSA 3320.3 MSA 204.0 SSA 15.1
EL1 3203.6 EL2 186.7 ALF 172.72

LAUNCH DATE JUN 20 1967 FLIGHT TIME 204.00 ARRIVAL DATE JAN 10 1968

HELIOCENTRIC CONIC DISTANCE 581.372

RL 152.01 LAL -.00 LOL 268.01 VL 25.875 GAL 8.52 AZL 93.18 HCA 282.12 SMA 123.27 ECC .27406 INC 3.1780 V1 29.308
RP 107.83 LAP 3.11 LOP 190.14 VP 37.216 GAP 14.22 AZP 90.67 TAL 155.80 TAP 77.91 RCA 89.49 APO 157.06 V2 35.145
RC 168.808 GL -15.04 GP 2.80 ZAL 47.27 ZAP 173.44 ETS 23.50 ZAE 126.48 ETE 178.21 ZAC 69.32 ETC 12.47 CLP-174.07

PLANETOCENTRIC CONIC

C3 29.896 VHL 5.468 DLA -29.89 RAL 214.97 RAD 6568.2 VEL 12.299 PTH 2.22 VHP 8.998 DPA -1.05 RAP 197.09 ECC 1.4920

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.02	12 28 24	1253.19	18.02	350.12	90.49	114.26	12 49 17	653.2	21.14	342.71
99.98	15 11 0	728.71	18.03	311.55	90.49	114.25	15 23 8	128.7	21.15	304.15
100.00	15 6 27	743.22	17.61	312.43	90.29	114.55	15 18 50	143.2	20.78	305.07
100.00	15 15 38	713.91	18.43	310.64	90.68	113.96	15 27 32	113.9	21.52	303.20
110.00	14 10 51	919.09	6.08	319.09	83.75	123.70	14 26 10	319.1	10.47	312.75
110.00	18 27 43	5398.84	30.85	247.80	95.57	105.50	19 57 42	4798.8	32.67	239.06

DIFFERENTIAL CORRECTIONS
TDE-2.6563 TRA 3.7659 TC3-2.6209 BAU 1.0477
RDE .4274 RRA .0001 RC3 -.0490 FAU .01611
FDE -.8860 FRA 1.5555 FC3 -.4665 BSP 19432
BDE 2.6905 BRA 3.7659 BC3 2.6214 FSP -630

MID-COURSE EXECUTION ACCURACY
SGT 6056.3 SGR 451.1 SG3 186.4
RRT -.3998 RRF -.3988 RTF .9644
SGB 6073.1 R23 .0124 R13 -.9644
SG1 6059.0 SG2 413.3 THA 178.29

ORBIT DETERMINATION ACCURACY
ST 3101.6 SR 447.9 SS 844.6
CRT -.8973 CRS .8545 CST -.9959
LSA 3238.7 MSA 211.4 SSA 14.6
EL1 3127.6 EL2 196.1 ALF 172.59

LAUNCH DATE JUN 20 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 12 1968

HELIOCENTRIC CONIC DISTANCE 586.563

RL 152.01 LAL -.00 LOL 268.01 VL 25.839 GAL 9.27 AZL 93.14 HCA 285.34 SMA 123.06 ECC .28263 INC 3.1373 V1 29.308
RP 107.86 LAP 3.03 LOP 193.37 VP 37.180 GAP 14.84 AZP 90.83 TAL 154.52 TAP 79.86 RCA 88.28 APO 157.84 V2 35.134
RC 170.755 GL -14.05 GP 2.72 ZAL 45.36 ZAP 174.37 ETS 27.00 ZAE 126.30 ETE 178.26 ZAC 67.18 ETC 12.50 CLP-175.07

PLANETOCENTRIC CONIC

C3 33.047 VHL 5.749 DLA -29.53 RAL 217.22 RAD 6568.3 VEL 12.427 PTH 2.25 VHP 9.360 DPA -2.03 RAP 199.09 ECC 1.5439

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.26	12 46 58	1247.68	17.11	349.28	94.28	114.44	13 7 46	647.7	20.27	341.93
98.74	15 10 22	784.60	17.12	315.27	94.28	114.43	15 23 27	184.6	20.28	307.92
100.00	14 40 49	879.17	13.59	320.52	92.53	116.88	14 55 28	279.2	17.09	313.48
100.00	15 59 12	628.34	20.71	305.31	95.91	112.05	16 9 40	28.3	23.52	297.64
110.00	14 14 40	961.60	4.47	321.33	87.12	123.92	14 30 41	361.6	8.90	315.03
110.00	18 41 51	5406.71	30.71	248.37	99.71	105.81	20 11 57	4806.7	32.57	239.65

DIFFERENTIAL CORRECTIONS
TOE-2.6839 TRA 4.1229 TC3-2.3533 BAU 1.0399
ROE .4497 RRA -.0133 RC3 -.0398 FAU .01428
FOE -.8506 FRA 1.5989 FC3 -.3742 BSP 19535
BOE 2.7213 BRA 4.1230 BC3 2.3536 FSP -605

MID-COURSE EXECUTION ACCURACY
SGT 6064.6 SGR 450.8 SG3 178.3
RRT -.4195 RRF -.4172 RTF .9654
SGB 6081.4 R23 .0114 R13 -.9654
SG1 6067.6 SG2 409.0 THA 178.21

ORBIT DETERMINATION ACCURACY
ST 3028.1 SR 448.2 SS 817.0
CRT -.8880 CRS .8445 CST -.9960
LSA 3160.7 MSA 217.9 SSA 14.1
EL1 3054.3 EL2 204.4 ALF 172.48

LAUNCH DATE JUN 20 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 14 1968

HELIOCENTRIC CONIC DISTANCE 591.642

RL 152.01 LAL -.00 LOL 268.01 VL 25.803 GAL 10.07 AZL 93.10 HCA 288.56 SMA 122.85 ECC .29196 INC 3.0952 V1 29.308
RP 107.90 LAP 2.93 LOP 196.60 VP 37.144 GAP 15.51 AZP 90.99 TAL 153.26 TAP 81.83 RCA 86.98 APO 158.71 V2 35.122
RC 172.686 GL -13.09 GP 2.64 ZAL 43.54 ZAP 175.26 ETS 31.97 ZAE 126.10 ETE 178.29 ZAC 65.05 ETC 12.56 CLP-176.07

PLANETOCENTRIC CONIC

C3 36.679 VHL 6.056 DLA -29.14 RAL 219.35 RAD 6568.4 VEL 12.572 PTH 2.28 VHP 9.749 DPA -3.00 RAP 201.09 ECC 1.6037

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.80	13 7 35	1235.08	16.16	347.89	98.01	114.59	13 28 10	635.1	19.35	340.60
97.20	15 6 44	849.85	16.18	319.64	98.02	114.58	15 20 54	249.8	19.36	312.35
100.00	14 32 23	960.11	11.05	325.19	95.42	117.95	14 48 23	360.1	14.71	318.31
100.00	16 24 37	600.05	21.42	303.51	100.37	111.36	16 34 37	.0	24.14	295.76
110.00	14 17 52	1005.79	2.79	323.64	90.42	124.08	14 34 38	405.8	7.24	317.39
110.00	18 55 37	5415.17	30.55	248.98	103.81	106.14	20 25 52	4815.2	32.46	240.28

DIFFERENTIAL CORRECTIONS
TOE-2.7120 TRA 4.5027 TC3-2.0963 BAU 1.0281
ROE .4723 RRA -.0285 RC3 -.0318 FAU .01251
FOE -.8181 FRA 1.6443 FC3 -.2954 BSP 19610
BOE 2.7528 BRA 4.5028 BC3 2.0965 FSP -580

MID-COURSE EXECUTION ACCURACY
SGT 6067.8 SGR 449.5 SG3 170.6
RRT -.4396 RRF -.4360 RTF .9665
SGB 6084.4 R23 .0102 R13 -.9666
SG1 6071.0 SG2 403.5 THA 178.13

ORBIT DETERMINATION ACCURACY
ST 2954.6 SR 446.9 SS 792.2
CRT -.8784 CRS .8344 CST -.9962
LSA 3083.3 MSA 223.8 SSA 13.6
EL1 2980.7 EL2 211.7 ALF 172.39

LAUNCH DATE JUN 20 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 16 1968

HELIOCENTRIC CONIC DISTANCE 596.591

RL 152.01 LAL -.00 LOL 268.01 VL 25.767 GAL 10.94 AZL 93.05 HCA 291.79 SMA 122.64 ECC .30215 INC 3.0516 V1 29.308
RP 107.94 LAP 2.83 LOP 199.82 VP 37.108 GAP 16.22 AZP 91.13 TAL 152.04 TAP 83.83 RCA 85.58 APO 159.70 V2 35.110
RC 174.603 GL -12.16 GP 2.58 ZAL 41.82 ZAP 176.10 ETS 39.31 ZAE 125.90 ETE 178.32 ZAC 62.92 ETC 12.65 CLP-177.07

PLANETOCENTRIC CONIC

C3 40.877 VHL 6.394 DLA -28.74 RAL 221.36 RAD 6568.6 VEL 12.738 PTH 2.32 VHP 10.169 DPA -3.95 RAP 203.10 ECC 1.6727

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.87	13 32 20	1208.52	15.18	345.47	101.68	114.70	13 52 29	608.5	18.39	338.23
95.13	14 58 0	931.16	15.20	325.16	101.69	114.69	15 13 32	331.2	18.40	317.92
100.00	14 26 54	1031.38	8.75	329.23	98.38	118.70	14 44 5	431.4	12.51	322.46
100.00	16 46 7	5871.57	21.83	280.36	104.63	110.94	18 23 59	5271.6	24.48	272.56
110.00	14 20 32	1051.38	1.05	326.02	93.66	124.17	14 38 4	451.4	5.52	319.80
110.00	19 8 58	5424.33	30.38	249.64	107.85	106.49	20 39 23	4824.3	32.33	240.97

DIFFERENTIAL CORRECTIONS
TOE-2.7413 TRA 4.9071 TC3-1.8512 BAU 1.0118
ROE .4951 RRA -.0457 RC3 -.0251 FAU .01079
FOE -.7888 FRA 1.6921 FC3 -.2286 BSP 19669
BOE 2.7857 BRA 4.9074 BC3 1.8514 FSP -556

MID-COURSE EXECUTION ACCURACY
SGT 6065.7 SGR 447.3 SG3 163.4
RRT -.4600 RRF -.4552 RTF .9679
SGB 6082.2 R23 .0090 R13 -.9679
SG1 6069.2 SG2 396.9 THA 178.05

ORBIT DETERMINATION ACCURACY
ST 2881.7 SR 443.9 SS 770.4
CRT -.8685 CRS .8244 CST -.9964
LSA 3007.0 MSA 228.8 SSA 13.2
EL1 2907.5 EL2 218.1 ALF 172.34

LAUNCH DATE JUN 20 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 18 1968

HELIOCENTRIC CONIC DISTANCE 601.389

RL 152.01 LAL -.00 LOL 268.01 VL 25.732 GAL 11.86 AZL 93.01 HCA 295.01 SMA 122.44 ECC .31330 INC 3.0060 V1 29.308
RP 107.97 LAP 2.72 LOP 203.04 VP 37.072 GAP 16.99 AZP 91.27 TAL 150.85 TAP 85.86 RCA 84.08 APO 160.80 V2 35.097
RC 176.504 GL -11.26 GP 2.51 ZAL 40.19 ZAP 176.84 ETS 50.62 ZAE 125.68 ETE 178.34 ZAC 60.81 ETC 12.78 CLP-178.09

PLANETOCENTRIC CONIC

C3 45.743 VHL 6.763 DLA -28.32 RAL 223.24 RAD 6568.7 VEL 12.927 PTH 2.36 VHP 10.624 DPA -4.88 RAP 205.10 ECC 1.7528

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
89.79	14 20 48	1104.33	14.17	337.36	105.28	114.78	14 39 12	504.3	17.39	330.17
90.21	14 24 36	1092.00	14.19	336.46	105.29	114.77	14 42 48	492.0	17.41	329.27
100.00	14 22 43	1098.10	6.55	332.96	101.34	119.23	14 41 1	498.1	10.40	326.28
100.00	17 5 22	5861.50	22.07	279.71	108.76	110.68	18 43 3	5261.5	24.69	271.89
110.00	14 22 42	1098.13	-.74	328.46	96.84	124.18	14 41 0	498.1	3.75	322.25
110.00	19 21 52	5434.23	30.18	250.34	111.83	106.87	20 52 26	4834.2	32.19	241.71

DIFFERENTIAL CORRECTIONS
TOE-2.7699 TRA 5.3425 TC3-1.6160 BAU .9883
ROE .5179 RRA -.0650 RC3 -.0198 FAU .00905
FOE -.7615 FRA 1.7441 FC3 -.1712 BSP 19622
BOE 2.8179 BRA 5.3429 BC3 1.6161 FSP -530

MID-COURSE EXECUTION ACCURACY
SGT 6059.4 SGR 444.0 SG3 156.6
RRT -.4805 RRF -.4744 RTF .9694
SGB 6075.6 R23 .0076 R13 -.9694
SG1 6063.1 SG2 389.1 THA 177.98

ORBIT DETERMINATION ACCURACY
ST 2808.8 SR 439.1 SS 751.2
CRT -.8581 CRS .8138 CST -.9966
LSA 2931.2 MSA 233.1 SSA 12.7
EL1 2834.1 EL2 223.5 ALF 172.31

LAUNCH DATE JUN 20 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 20 1968

HELIOCENTRIC CONIC DISTANCE 606.007

RL 152.01 LAL -.00 LOL 268.01 VL 25.698 GAL 12.87 AZL 92.96 HCA 298.22 SMA 122.24 ECC .32554 INC 2.9580 V1 29.308
RP 108.01 LAP 2.61 LOP 206.26 VP 37.036 GAP 17.83 AZP 91.40 TAL 149.71 TAP 87.93 RCA 82.44 APO 162.03 V2 35.084
RC 178.389 GL -10.39 GP 2.46 ZAL 38.66 ZAP 177.39 ETS 68.02 ZAE 125.44 ETE 178.36 ZAC 58.71 ETC 12.95 CLP-179.12

PLANETOCENTRIC CONIC

C3 51.401 VHL 7.169 DLA -27.88 RAL 225.01 RAD 6568.9 VEL 13.144 PTH 2.40 VHP 11.119 DPA -5.79 RAP 207.10 ECC 1.8459

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 46 3	1269.28	9.08	346.90	106.80	116.94	14 7 12	669.3	12.62	340.01
90.00	15 13 24	985.35	17.28	330.08	110.70	112.79	15 29 49	385.3	20.22	322.64
100.00	14 19 11	1162.15	4.41	336.51	104.27	119.60	14 38 33	562.2	8.31	329.90
100.00	17 22 57	5855.75	22.21	279.34	112.78	110.54	19 0 33	5255.7	24.81	271.50
110.00	14 24 23	1145.81	-2.56	330.95	99.95	124.10	14 43 29	545.8	1.93	324.74
110.00	19 34 14	5444.85	29.97	251.10	115.73	107.27	21 4 59	4844.9	32.04	242.49

DIFFERENTIAL CORRECTIONS
TOE-2.8061 TRA 5.8030 TC3-1.3985 BAU .9611
RDE .5409 RRA -.0862 RC3 -.0154 FAU .00741
FDE -.7392 FRA 1.7978 FC3 -.1248 BSP 19679
BDE 2.8578 BRA 5.8036 BC3 1.3986 FSP -510

MID-COURSE EXECUTION ACCURACY
SGT 6047.8 SGR 439.8 SG3 150.2
RRT -.5015 RRF -.4945 RTF .9711
SGB 6063.8 R23 .0063 R13 -.9711
SG1 6051.8 SG2 380.3 THA 177.90

ORBIT DETERMINATION ACCURACY
ST 2740.4 SR 432.9 SS 735.9
CRT -.8481 CRS .8044 CST -.9968
LSA 2860.6 MSA 235.9 SSA 12.2
EL1 2765.1 EL2 227.3 ALF 172.32

LAUNCH DATE JUN 20 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 22 1968

HELIOCENTRIC CONIC DISTANCE 610.412

RL 152.01 LAL -.00 LOL 268.01 VL 25.664 GAL 13.95 AZL 92.91 HCA 301.44 SMA 122.04 ECC .33901 INC 2.9070 V1 29.308
RP 108.05 LAP 2.48 LOP 209.47 VP 37.000 GAP 18.73 AZP 91.52 TAL 148.62 TAP 90.06 RCA 80.67 APO 163.41 V2 35.071
RC 180.257 GL -9.55 GP 2.40 ZAL 37.24 ZAP 177.59 ETS 91.64 ZAE 125.17 ETE 178.37 ZAC 56.64 ETC 13.16 CLP 179.83

PLANETOCENTRIC CONIC

C3 58.009 VHL 7.616 DLA -27.43 RAL 226.64 RAD 6569.1 VEL 13.393 PTH 2.45 VHP 11.661 DPA -6.68 RAP 209.08 ECC 1.9547

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 34 1	1360.04	6.25	352.06	109.32	117.68	13 56 41	760.0	9.90	345.29
90.00	15 38 30	954.27	18.09	328.16	114.94	112.17	15 54 24	354.3	20.94	320.65
100.00	14 15 59	1224.41	2.31	339.93	107.16	119.81	14 36 24	624.4	6.26	333.38
100.00	17 39 13	5853.17	22.27	279.17	116.68	110.47	19 16 46	5253.2	24.86	271.33
110.00	14 25 36	1194.22	-4.41	333.48	102.99	123.93	14 45 30	594.2	.08	327.27
110.00	19 46 6	5456.13	29.74	251.89	119.55	107.69	21 17 2	4856.1	31.87	243.33

DIFFERENTIAL CORRECTIONS
TOE-2.8463 TRA 6.2969 TC3-1.1943 BAU .9263
RDE .5640 RRA -.1095 RC3 -.0121 FAU .00578
FDE -.7201 FRA 1.8560 FC3 -.0862 BSP 19755
BDE 2.9017 BRA 6.2979 BC3 1.1944 FSP -489

MID-COURSE EXECUTION ACCURACY
SGT 6031.4 SGR 434.7 SG3 144.2
RRT -.5226 RRF -.5147 RTF .9730
SGB 6047.0 R23 .0050 R13 -.9730
SG1 6035.7 SG2 370.3 THA 177.83

ORBIT DETERMINATION ACCURACY
ST 2674.2 SR 425.2 SS 723.8
CRT -.8382 CRS .7954 CST -.9971
LSA 2792.7 MSA 237.5 SSA 11.8
EL1 2698.0 EL2 229.9 ALF 172.35

LAUNCH DATE JUN 20 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 24 1968

HELIOCENTRIC CONIC DISTANCE 614.561

RL 152.01 LAL -.00 LOL 268.01 VL 25.631 GAL 15.13 AZL 92.85 HCA 304.65 SMA 121.85 ECC .35388 INC 2.8525 V1 29.308
RP 108.09 LAP 2.35 LOP 212.69 VP 36.965 GAP 19.73 AZP 91.62 TAL 147.60 TAP 92.25 RCA 78.73 APO 164.97 V2 35.058
RC 182.108 GL -8.73 GP 2.36 ZAL 35.93 ZAP 177.33 ETS 115.42 ZAE 124.87 ETE 178.38 ZAC 54.60 ETC 13.40 CLP 178.76

PLANETOCENTRIC CONIC

C3 65.761 VHL 8.109 DLA -26.96 RAL 228.16 RAD 6569.3 VEL 13.679 PTH 2.50 VHP 12.255 DPA -7.55 RAP 211.05 ECC 2.0823

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 25 32	1438.44	3.75	356.46	111.93	118.09	13 49 31	838.4	7.48	349.77
90.00	15 59 3	936.64	18.54	327.06	118.91	111.80	16 14 39	336.6	21.33	319.50
100.00	14 12 56	1285.34	.24	343.28	109.99	119.89	14 34 21	685.3	4.22	336.75
100.00	17 54 20	5853.01	22.28	279.16	120.46	110.46	19 31 53	5253.0	24.86	271.32
110.00	14 26 22	1243.17	-6.26	336.06	105.96	123.67	14 47 5	643.2	-1.79	329.82
110.00	19 57 23	5467.95	29.49	252.73	123.26	108.12	21 28 31	4867.9	31.68	244.20

DIFFERENTIAL CORRECTIONS
TOE-2.8937 TRA 6.8285 TC3-1.0048 BAU .8834
RDE .5870 RRA -.1350 RC3 -.0098 FAU .00413
FDE -.7044 FRA 1.9192 FC3 -.0544 BSP 19713
BDE 2.9526 BRA 6.8298 BC3 1.0048 FSP -470

MID-COURSE EXECUTION ACCURACY
SGT 6011.4 SGR 428.6 SG3 138.5
RRT -.5439 RRF -.5353 RTF .9750
SGB 6026.6 R23 .0037 R13 -.9751
SG1 6015.9 SG2 359.4 THA 177.77

ORBIT DETERMINATION ACCURACY
ST 2611.4 SR 416.0 SS 715.1
CRT -.8285 CRS .7870 CST -.9974
LSA 2728.9 MSA 237.7 SSA 11.3
EL1 2634.2 EL2 230.9 ALF 172.42

LAUNCH DATE JUN 20 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 26 1968

HELIOCENTRIC CONIC DISTANCE 618.401

RL 152.01 LAL -.00 LOL 268.01 VL 25.599 GAL 16.42 AZL 92.79 HCA 307.86 SMA 121.67 ECC .37035 INC 2.7936 V1 29.308
RP 108.13 LAP 2.21 LOP 215.90 VP 36.930 GAP 20.82 AZP 91.72 TAL 146.66 TAP 94.52 RCA 76.61 APO 166.73 V2 35.045
RC 183.942 GL -7.95 GP 2.31 ZAL 34.72 ZAP 176.70 ETS 133.04 ZAE 124.52 ETE 178.39 ZAC 52.59 ETC 13.69 CLP 177.65

PLANETOCENTRIC CONIC

C3 74.904 VHL 8.655 DLA -26.49 RAL 229.54 RAD 6569.5 VEL 14.009 PTH 2.56 VHP 12.912 DPA -8.38 RAP 212.99 ECC 2.2327

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 18 36	1510.69	1.42	.50	114.53	118.28	13 43 47	910.7	5.19	353.85
90.00	16 16 59	925.89	18.81	326.39	122.69	111.57	16 32 25	325.9	21.57	318.81
100.00	14 9 51	1345.18	-1.79	346.56	112.75	119.84	14 32 16	745.2	2.19	340.04
100.00	18 8 26	5854.68	22.24	279.27	124.10	110.51	19 46 0	5254.7	24.83	271.43
110.00	14 26 39	1292.46	-8.11	338.67	108.85	123.32	14 48 11	692.5	-3.67	332.40
110.00	20 8 7	5480.16	29.23	253.58	126.86	108.56	21 39 28	4880.2	31.48	245.10

DIFFERENTIAL CORRECTIONS
TOE-2.9442 TRA 7.4058 TC3 -.8262 BAU .8274
RDE .6098 RRA -.1629 RC3 -.0084 FAU .00239
FDE -.6910 FRA 1.9898 FC3 -.0277 BSP 19602
BDE 3.0067 BRA 7.4076 BC3 .8263 FSP -449

MID-COURSE EXECUTION ACCURACY
SGT 5987.5 SGR 421.5 SG3 133.2
RRT -.5650 RRF -.5558 RTF .9772
SGB 6002.3 R23 .0022 R13 -.9772
SG1 5992.3 SG2 347.5 THA 177.71

ORBIT DETERMINATION ACCURACY
ST 2549.8 SR 405.3 SS 709.3
CRT -.8188 CRS .7786 CST -.9976
LSA 2666.9 MSA 236.9 SSA 10.8
EL1 2571.5 EL2 230.7 ALF 172.52

LAUNCH DATE JUN 21 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 30 1967

DISTANCE 163.559

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 23.252 GAL -1.27 AZL 93.62 HCA 67.09 SMA 110.11 ECC .38124 INC 3.6250 V1 29.306
RP 108.87 LAP -3.34 LOP 336.01 VP 35.109 GAP -22.40 AZP 91.41 TAL 182.06 TAP 249.15 RCA 68.13 APO 152.08 V2 34.806
RC 42.841 GL -13.47 GP -1.93 ZAL 95.74 ZAP 10.22 ETS 169.26 ZAE 165.70 ETE 44.42 ZAC 99.52 ETC 14.12 CLP 10.04

PLANETOCENTRIC CONIC
C3 39.842 VHL 6.312 DLA -9.61 RAL 168.27 RAD 6568.5 VEL 12.697 PTH 2.31 VHP 13.494 DPA 6.85 RAP 167.75 ECC 1.6557

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 53 30	2082.79	-16.17	33.31	39.13	113.57	6 28 12	1482.8	-12.84	26.21
90.00	15 25 28	5331.97	27.55	242.65	45.43	83.16	16 54 20	4732.0	26.31	234.20
100.00	7 10 7	1835.60	-17.44	14.53	38.53	114.67	7 40 42	1235.6	-13.97	7.46
100.00	16 51 31	5054.39	28.93	222.03	45.23	82.14	18 15 46	4454.4	27.54	213.50
110.00	8 7 37	1655.54	-20.83	359.11	36.77	117.74	8 35 12	1055.5	-16.95	352.13
110.00	18 10 31	4807.22	32.66	202.55	44.52	79.29	19 30 38	4207.2	30.83	193.80

DIFFERENTIAL CORRECTIONS
TDE .3848 TRA -.7294 TC3 .1215 BAU .0784
RDE -.4253 RRA -.1760 RC3 .0830 FAU .02089
FDE -.3102 FRA .2639 FC3 -.4538 BSP 2095
BDE .5735 BRA .7503 BC3 .1472 FSP -132

MID-COURSE EXECUTION ACCURACY
SGT 772.3 SGR 431.6 SG3 59.0
RRT -.0299 RRF .0316 RTF -.6623
SGB 884.7 R23 -.0029 R13 .6624
SG1 772.4 SG2 431.3 THA 178.61

ORBIT DETERMINATION ACCURACY
ST 403.2 SR 389.1 SS 339.7
CRT -.7969 CRS -.9271 CST .9627
LSA 630.2 MSA 178.8 SSA 15.9
EL1 531.2 EL2 178.4 ALF 136.28

LAUNCH DATE JUN 21 1967 FLIGHT TIME 72.00 ARRIVAL DATE SEP 1 1967

DISTANCE 170.183

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 23.623 GAL -1.36 AZL 93.58 HCA 70.26 SMA 111.72 ECC .36142 INC 3.5779 V1 29.306
RP 108.86 LAP -3.37 LOP 339.18 VP 35.362 GAP -21.14 AZP 91.21 TAL 182.40 TAP 252.66 RCA 71.34 APO 152.10 V2 34.812
RC 42.900 GL -14.32 GP -2.02 ZAL 96.50 ZAP 8.49 ETS 166.25 ZAE 163.75 ETE 37.95 ZAC 98.20 ETC 14.02 CLP 8.25

PLANETOCENTRIC CONIC
C3 35.518 VHL 5.960 DLA -10.07 RAL 167.19 RAD 6568.4 VEL 12.525 PTH 2.27 VHP 12.781 DPA 6.22 RAP 168.99 ECC 1.5845

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 52 56	2038.52	-14.94	30.63	36.13	114.33	6 26 55	1438.5	-11.53	23.61
90.00	15 17 24	5318.19	27.43	241.65	42.36	82.68	16 46 2	4718.2	26.13	233.23
100.00	7 9 18	1792.17	-16.19	11.92	35.53	115.48	7 39 10	1192.2	-12.63	4.94
100.00	16 43 43	5039.77	28.79	220.96	42.15	81.60	18 7 43	4439.8	27.33	212.47
110.00	8 6 13	1613.92	-19.49	356.62	33.76	118.65	8 33 7	1013.9	-15.51	349.76
110.00	18 3 17	4790.79	32.44	201.32	41.41	78.59	19 23 8	4190.8	30.53	192.62

DIFFERENTIAL CORRECTIONS
TDE .3850 TRA -.7054 TC3 .1620 BAU .0884
RDE -.4038 RRA -.1646 RC3 .0917 FAU .02203
FDE -.3297 FRA .2588 FC3 -.5371 BSP 2179
BDE .5579 BRA .7244 BC3 .1862 FSP -149

MID-COURSE EXECUTION ACCURACY
SGT 805.4 SGR 434.1 SG3 65.5
RRT -.0339 RRF .0379 RTF -.6800
SGB 915.0 R23 -.0055 R13 .6801
SG1 805.6 SG2 433.8 THA 178.52

ORBIT DETERMINATION ACCURACY
ST 423.9 SR 391.2 SS 360.5
CRT -.8062 CRS -.9343 CST .9616
LSA 656.0 MSA 179.0 SSA 16.4
EL1 548.4 EL2 178.9 ALF 137.85

LAUNCH DATE JUN 21 1967 FLIGHT TIME 74.00 ARRIVAL DATE SEP 3 1967

DISTANCE 176.835

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 23.965 GAL -1.46 AZL 93.53 HCA 73.42 SMA 113.27 ECC .34295 INC 3.5327 V1 29.306
RP 108.84 LAP -3.39 LOP 342.35 VP 35.597 GAP -19.94 AZP 91.01 TAL 182.80 TAP 256.23 RCA 74.43 APO 152.12 V2 34.819
RC 43.133 GL -15.18 GP -2.13 ZAL 97.40 ZAP 6.79 ETS 161.65 ZAE 161.73 ETE 32.82 ZAC 96.91 ETC 13.93 CLP 6.45

PLANETOCENTRIC CONIC
C3 31.801 VHL 5.639 DLA -10.49 RAL 165.98 RAD 6568.3 VEL 12.376 PTH 2.23 VHP 12.099 DPA 5.59 RAP 170.21 ECC 1.5234

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 51 27	1997.06	-13.77	28.16	33.11	114.99	6 24 44	1397.1	-10.28	21.21
90.00	15 9 12	5303.90	27.30	240.63	39.22	82.18	16 37 35	4703.9	25.94	232.23
100.00	7 7 34	1751.46	-14.98	9.50	32.51	116.17	7 36 46	1151.5	-11.35	2.60
100.00	16 35 45	5024.73	28.64	219.87	38.99	81.04	17 59 30	4424.7	27.10	211.41
110.00	8 3 58	1574.83	-18.20	354.33	30.74	119.45	8 30 13	974.8	-14.14	347.57
110.00	17 55 50	4774.13	32.21	200.07	38.22	77.88	19 15 24	4174.1	30.21	191.43

DIFFERENTIAL CORRECTIONS
TDE .3889 TRA -.6767 TC3 .2140 BAU .1005
RDE -.3836 RRA -.1538 RC3 .1003 FAU .02335
FDE -.3510 FRA .2508 FC3 -.6357 BSP 2356
BDE .5463 BRA .6940 BC3 .2363 FSP -170

MID-COURSE EXECUTION ACCURACY
SGT 838.6 SGR 435.9 SG3 72.7
RRT -.0426 RRF .0455 RTF -.7015
SGB 945.1 R23 -.0045 R13 .7017
SG1 838.9 SG2 435.3 THA 178.26

ORBIT DETERMINATION ACCURACY
ST 447.4 SR 392.7 SS 382.2
CRT -.8195 CRS -.9418 CST .9620
LSA 684.7 MSA 177.2 SSA 17.0
EL1 568.3 EL2 177.2 ALF 139.54

LAUNCH DATE JUN 21 1967 FLIGHT TIME 76.00 ARRIVAL DATE SEP 5 1967

DISTANCE 183.512

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 24.279 GAL -1.58 AZL 93.49 HCA 76.59 SMA 114.76 ECC .32580 INC 3.4889 V1 29.306
RP 108.81 LAP -3.39 LOP 345.53 VP 35.816 GAP -18.79 AZP 90.81 TAL 183.27 TAP 259.87 RCA 77.37 APO 152.14 V2 34.826
RC 43.534 GL -16.03 GP -2.25 ZAL 98.44 ZAP 5.13 ETS 153.88 ZAE 159.69 ETE 28.69 ZAC 95.64 ETC 13.86 CLP 4.62

PLANETOCENTRIC CONIC
C3 28.611 VHL 5.349 DLA -10.84 RAL 164.63 RAD 6568.1 VEL 12.247 PTH 2.20 VHP 11.448 DPA 4.95 RAP 171.39 ECC 1.4709

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 49 0	1958.76	-12.65	25.90	30.08	115.54	6 21 39	1358.8	-9.11	19.01
90.00	15 0 55	5289.17	27.16	239.57	36.03	81.67	16 29 4	4689.2	25.73	231.20
100.00	7 4 56	1713.83	-13.84	7.29	29.48	116.76	7 33 29	1113.8	-10.14	.45
100.00	16 27 41	5009.34	28.47	218.76	35.79	80.48	17 51 10	4409.3	26.86	210.33
110.00	8 0 53	1538.62	-16.97	352.23	27.72	120.13	8 26 31	938.6	-12.84	345.56
110.00	17 48 14	4757.31	31.96	198.82	35.00	77.18	19 7 31	4157.3	29.87	190.24

DIFFERENTIAL CORRECTIONS
TDE .3913 TRA -.6496 TC3 .2707 BAU .1116
RDE -.3649 RRA -.1436 RC3 .1087 FAU .02481
FDE -.3741 FRA .2413 FC3 -.7506 BSP 2473
BDE .5350 BRA .6653 BC3 .2917 FSP -191

MID-COURSE EXECUTION ACCURACY
SGT 872.6 SGR 436.8 SG3 80.8
RRT -.0503 RRF .0540 RTF -.7193
SGB 975.9 R23 -.0058 R13 .7195
SG1 873.0 SG2 436.1 THA 178.08

ORBIT DETERMINATION ACCURACY
ST 470.0 SR 393.7 SS 404.7
CRT -.8312 CRS -.9488 CST .9617
LSA 713.1 MSA 175.5 SSA 17.6
EL1 587.6 EL2 175.1 ALF 141.05

LAUNCH DATE JUN 21 1967 FLIGHT TIME 78.00 ARRIVAL DATE SEP 7 1967

HELIOCENTRIC CONIC DISTANCE 190.208

RL 152.02 LAL -.00 LOL 268.96 VL 24.568 GAL -1.71 AZL 93.45 HCA 79.76 SMA 116.17 ECC .30991 INC 3.4463 V1 29.306
RP 108.79 LAP -3.39 LOP 348.70 VP 36.020 GAP -17.69 AZP 90.61 TAL 183.81 TAP 263.57 RCA 80.17 APO 152.17 V2 34.834
RC 44.099 GL -16.87 GP -2.38 ZAL 99.59 ZAP 3.64 ETS 138.97 ZAE 157.69 ETE 25.29 ZAC 94.40 ETC 13.79 CLP 2.76

PLANETOCENTRIC CONIC

C3 25.874 VHL 5.087 DLA -11.14 RAL 163.18 RAO 6568.0 VEL 12.135 PTH 2.17 VHP 10.825 DPA 4.31 RAP 172.55 ECC 1.4258

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 45 38	1923.95	-11.62	23.86	27.05	116.00	6 17 42	1323.9	-8.03	17.02
90.00	14 52 40	5273.99	27.01	238.49	32.81	81.15	16 20 34	4674.0	25.51	230.14
100.00	7 1 23	1679.57	-12.78	5.30	26.45	117.25	7 29 22	1079.6	-9.03	358.52
100.00	16 19 37	4993.60	28.29	217.62	32.57	79.91	17 42 50	4393.6	26.60	209.23
110.00	7 56 57	1505.55	-15.83	350.35	24.71	120.70	8 22 2	905.6	-11.64	343.75
110.00	17 40 32	4740.39	31.70	197.57	31.75	76.49	18 59 32	4140.4	29.52	189.05

DIFFERENTIAL CORRECTIONS
TDE .3938 TRA -.6215 TC3 .3357 BAU .1229
RDE -.3476 RRA -.1341 RC3 .1163 FAU .02644
FDE -.3992 FRA .2292 FC3 -.8847 BSP 2601
BDE .5253 BRA .6358 BC3 .3552 FSP -217

MID-COURSE EXECUTION ACCURACY
SGT 906.9 SGR 437.0 SG3 89.9
RRT -.0591 RRF .0639 RTF -.7364
SGB 1006.7 R23 -.0072 R13 .7367
SG1 907.4 SG2 436.0 THA 177.88

ORBIT DETERMINATION ACCURACY
ST 492.7 SR 394.2 SS 427.8
CRT -.8431 CRS -.9557 CST .9616
LSA 742.1 MSA 173.2 SSA 18.2
EL1 607.1 EL2 172.0 ALF 142.46

LAUNCH DATE JUN 21 1967 FLIGHT TIME 80.00 ARRIVAL DATE SEP 9 1967

HELIOCENTRIC CONIC DISTANCE 196.920

RL 152.02 LAL -.00 LOL 268.96 VL 24.832 GAL -1.84 AZL 93.40 HCA 82.93 SMA 117.52 ECC .29525 INC 3.4045 V1 29.306
RP 108.76 LAP -3.38 LOP 351.88 VP 36.209 GAP -16.65 AZP 90.42 TAL 184.40 TAP 267.34 RCA 82.82 APO 152.21 V2 34.842
RC 44.820 GL -17.69 GP -2.52 ZAL 100.85 ZAP 2.66 ETS 108.48 ZAE 155.80 ETE 22.45 ZAC 93.20 ETC 13.74 CLP .86

PLANETOCENTRIC CONIC

C3 23.529 VHL 4.851 DLA -11.37 RAL 161.62 RAO 6568.0 VEL 12.038 PTH 2.15 VHP 10.230 DPA 3.67 RAP 173.66 ECC 1.3872

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 41 20	1892.88	-10.69	22.05	24.04	116.38	6 12 53	1292.9	-7.06	15.25
90.00	14 44 33	5258.35	26.84	237.37	29.59	80.61	16 12 11	4658.4	25.27	229.06
100.00	6 56 57	1648.94	-11.82	3.53	23.45	117.66	7 24 26	1048.9	-8.03	356.80
100.00	16 11 37	4977.52	28.09	216.47	29.34	79.33	17 34 35	4377.5	26.33	208.11
110.00	7 52 13	1475.87	-14.79	348.68	21.73	121.17	8 16 49	875.9	-10.56	342.14
110.00	17 32 51	4723.36	31.42	196.32	28.50	75.79	18 51 34	4123.4	29.15	187.85

DIFFERENTIAL CORRECTIONS
TDE .3966 TRA -.5920 TC3 .4084 BAU .1341
RDE -.3316 RRA -.1252 RC3 .1230 FAU .02831
FDE -.4270 FRA .2138 FC3-1.0415 BSP 2738
BDE .5170 BRA .6051 BC3 .4265 FSP -246

MID-COURSE EXECUTION ACCURACY
SGT 940.9 SGR 436.4 SG3 100.1
RRT -.0698 RRF .0755 RTF -.7527
SGB 1037.1 R23 -.0087 R13 .7530
SG1 941.5 SG2 435.0 THA 177.64

ORBIT DETERMINATION ACCURACY
ST 515.2 SR 394.3 SS 451.7
CRT -.8554 CRS -.9623 CST .9615
LSA 771.8 MSA 170.4 SSA 18.9
EL1 626.7 EL2 167.9 ALF 143.78

LAUNCH DATE JUN 21 1967 FLIGHT TIME 82.00 ARRIVAL DATE SEP 11 1967

HELIOCENTRIC CONIC DISTANCE 203.643

RL 152.02 LAL -.00 LOL 268.96 VL 25.074 GAL -1.98 AZL 93.36 HCA 86.10 SMA 118.79 ECC .28176 INC 3.3632 V1 29.306
RP 108.74 LAP -3.36 LOP 355.06 VP 36.384 GAP -15.65 AZP 90.23 TAL 185.06 TAP 271.16 RCA 85.32 APO 152.26 V2 34.851
RC 45.690 GL -18.47 GP -2.68 ZAL 102.20 ZAP 2.89 ETS 67.60 ZAE 154.03 ETE 20.03 ZAC 92.05 ETC 13.70 CLP -1.08

PLANETOCENTRIC CONIC

C3 21.523 VHL 4.639 DLA -11.53 RAL 159.98 RAO 6567.9 VEL 11.954 PTH 2.13 VHP 9.661 DPA 3.03 RAP 174.72 ECC 1.3542

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 36 11	1865.73	-9.86	20.49	21.06	116.68	6 7 17	1265.7	-6.20	13.72
90.00	14 36 39	5242.23	26.65	236.23	26.40	80.07	16 4 1	4642.2	25.01	227.95
100.00	6 51 42	1622.11	-10.97	1.99	20.48	117.98	7 18 44	1022.1	-7.14	355.30
100.00	16 3 49	4961.08	27.88	215.29	26.14	78.75	17 26 30	4361.1	26.04	206.97
110.00	7 46 45	1449.71	-13.87	347.22	18.79	121.56	8 10 54	849.7	-9.59	340.73
110.00	17 25 14	4706.25	31.13	195.08	25.28	75.11	18 43 41	4106.2	28.77	186.67

DIFFERENTIAL CORRECTIONS
TDE .3984 TRA -.5639 TC3 .4863 BAU .1447
RDE -.3170 RRA -.1170 RC3 .1281 FAU .03038
FDE -.4566 FRA .1961 FC3-1.2220 BSP 2852
BDE .5091 BRA .5759 BC3 .5028 FSP -278

MID-COURSE EXECUTION ACCURACY
SGT 975.1 SGR 435.0 SG3 111.5
RRT -.0806 RRF .0883 RTF -.7668
SGB 1067.7 R23 -.0113 R13 .7672
SG1 975.9 SG2 433.2 THA 177.43

ORBIT DETERMINATION ACCURACY
ST 536.4 SR 394.1 SS 475.6
CRT -.8665 CRS -.9682 CST .9610
LSA 800.4 MSA 167.8 SSA 19.6
EL1 645.2 EL2 163.5 ALF 144.94

LAUNCH DATE JUN 21 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 13 1967

HELIOCENTRIC CONIC DISTANCE 210.372

RL 152.02 LAL -.00 LOL 268.96 VL 25.296 GAL -2.11 AZL 93.32 HCA 89.28 SMA 119.98 ECC .26938 INC 3.3222 V1 29.306
RP 108.71 LAP -3.32 LOP 358.24 VP 36.546 GAP -14.69 AZP 90.04 TAL 185.76 TAP 275.04 RCA 87.66 APO 152.31 V2 34.860
RC 46.700 GL -19.22 GP -2.86 ZAL 103.63 ZAP 4.20 ETS 42.39 ZAE 152.42 ETE 17.93 ZAC 90.95 ETC 13.68 CLP -3.08

PLANETOCENTRIC CONIC

C3 19.809 VHL 4.451 DLA -11.63 RAL 158.28 RAO 6567.8 VEL 11.882 PTH 2.11 VHP 9.118 DPA 2.39 RAP 175.72 ECC 1.3260

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 30 13	1842.64	-9.15	19.16	18.14	116.91	6 0 55	1242.6	-5.47	12.42
90.00	14 29 4	5225.59	26.45	235.05	23.26	79.51	15 56 10	4625.6	24.74	226.81
100.00	6 45 40	1599.20	-10.23	.69	17.57	118.24	7 12 19	999.2	-6.38	354.02
100.00	15 56 18	4944.26	27.65	214.10	22.99	78.16	17 18 42	4344.3	25.74	205.82
110.00	7 40 35	1427.20	-13.06	345.97	15.90	121.87	8 4 22	827.2	-8.76	339.52
110.00	17 17 52	4689.02	30.82	193.83	22.10	74.43	18 36 1	4089.0	28.38	185.48

DIFFERENTIAL CORRECTIONS
TDE .4018 TRA -.5322 TC3 .5725 BAU .1555
RDE -.3038 RRA -.1095 RC3 .1313 FAU .03278
FDE -.4907 FRA .1735 FC3-1.4328 BSP 3002
BDE .5037 BRA .5433 BC3 .5873 FSP -317

MID-COURSE EXECUTION ACCURACY
SGT 1008.2 SGR 432.8 SG3 124.5
RRT -.0966 RRF .1047 RTF -.7818
SGB 1097.2 R23 -.0124 R13 .7823
SG1 1009.2 SG2 430.4 THA 177.10

ORBIT DETERMINATION ACCURACY
ST 558.4 SR 393.5 SS 501.5
CRT -.8792 CRS -.9740 CST .9613
LSA 831.1 MSA 164.2 SSA 20.3
EL1 664.7 EL2 157.5 ALF 146.05

LAUNCH DATE JUN 21 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 15 1967

HELIOCENTRIC CONIC DISTANCE 217.105

RL 152.02 LAL -.00 LOL 268.96 VL 25.498 GAL -2.25 AZL 93.28 HCA 92.45 SMA 121.11 ECC .25807 INC 3.2813 V1 29.306
RP 108.68 LAP -3.28 LOP 1.42 VP 36.696 GAP -13.77 AZP 89.86 TAL 186.50 TAP 278.96 RCA 89.85 APO 152.36 V2 34.870
RC 47.841 GL -19.91 GP -3.06 ZAL 105.12 ZAP 5.97 ETS 30.17 ZAE 151.00 ETE 16.07 ZAC 89.92 ETC 13.67 CLP -5.13

PLANETOCENTRIC CONIC

C3 18.346 VHL 4.283 DLA -11.66 RAL 156.55 RAD 6567.7 VEL 11.821 PTH 2.09 VHP 8.599 DPA 1.75 RAP 176.67 ECC 1.3019

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 23 31	1823.60	-8.57	18.07	15.30	117.09	5 53 55	1223.6	-4.87	11.35
90.00	14 21 54	5208.44	26.23	233.85	20.18	78.94	15 48 43	4608.4	24.44	225.63
100.00	6 38 57	1580.22	-9.62	359.61	14.74	118.44	7 5 18	980.2	-5.75	352.97
100.00	15 49 9	4927.05	27.40	212.88	19.91	77.56	17 11 16	4327.0	25.41	204.64
110.00	7 33 50	1408.33	-12.38	344.93	13.09	122.12	7 57 19	808.3	-8.05	338.51
110.00	17 10 45	4671.70	30.50	192.58	19.00	73.76	18 28 37	4071.7	27.97	184.30

DIFFERENTIAL CORRECTIONS
TDE .4035 TRA -.5019 TC3 .6621 BAU .1656
RDE -.2919 RRA -.1026 RC3 .1319 FAU .03548
FDE -.5273 FRA .1473 FC3-1.6745 BSP 3133
BDE .4980 BRA .5123 BC3 .6751 FSP -360

MID-COURSE EXECUTION ACCURACY
SGT 1040.6 SGR 430.0 SG3 139.2
RRT -.1129 RRF .1229 RTF -.7946
SGB 1126.0 R23 -.0151 R13 .7951
SG1 1042.0 SG2 426.7 THA 176.79

ORBIT DETERMINATION ACCURACY
ST 577.8 SR 392.8 SS 526.9
CRT -.8903 CRS -.9791 CST .9610
LSA 859.9 MSA 161.2 SSA 21.0
EL1 682.0 EL2 151.5 ALF 146.98

LAUNCH DATE JUN 21 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 17 1967

HELIOCENTRIC CONIC DISTANCE 223.837

RL 152.02 LAL -.00 LOL 268.96 VL 25.682 GAL -2.38 AZL 93.24 HCA 95.63 SMA 122.16 ECC .24777 INC 3.2401 V1 29.306
RP 108.64 LAP -3.22 LOP 4.60 VP 36.834 GAP -12.89 AZP 89.68 TAL 187.28 TAP 282.91 RCA 91.89 APO 152.43 V2 34.881
RC 49.103 GL -20.53 GP -3.29 ZAL 106.64 ZAP 7.97 ETS 23.59 ZAE 149.78 ETE 14.40 ZAC 88.96 ETC 13.67 CLP -7.26

PLANETOCENTRIC CONIC

C3 17.099 VHL 4.135 DLA -11.62 RAL 154.80 RAD 6567.7 VEL 11.768 PTH 2.08 VHP 8.104 DPA 1.12 RAP 177.53 ECC 1.2814

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 16 13	1808.54	-8.10	17.21	12.55	117.23	5 46 21	1208.5	-4.38	10.50
90.00	14 15 15	5190.77	26.00	232.61	17.20	78.36	15 41 46	4590.8	24.13	224.43
100.00	6 31 40	1565.09	-9.13	358.76	11.99	118.59	6 57 45	965.1	-5.24	352.13
100.00	15 42 28	4909.46	27.14	211.64	16.92	76.96	17 4 18	4309.5	25.07	203.45
110.00	7 26 36	1393.05	-11.83	344.10	10.38	122.31	7 49 50	793.0	-7.48	337.70
110.00	17 4 2	4654.27	30.16	191.34	16.00	73.09	18 21 36	4054.3	27.55	183.12

DIFFERENTIAL CORRECTIONS
TDE .4038 TRA -.4720 TC3 .7523 BAU .1745
RDE -.2812 RRA -.0965 RC3 .1297 FAU .03851
FDE -.5672 FRA .1171 FC3-1.9499 BSP 3238
BDE .4920 BRA .4817 BC3 .7634 FSP -408

MID-COURSE EXECUTION ACCURACY
SGT 1070.4 SGR 426.6 SG3 155.7
RRT -.1316 RRF .1439 RTF -.8056
SGB 1152.3 R23 -.0185 R13 .8063
SG1 1072.2 SG2 422.2 THA 176.45

ORBIT DETERMINATION ACCURACY
ST 594.5 SR 391.8 SS 552.4
CRT -.9004 CRS -.9835 CST .9605
LSA 886.8 MSA 158.6 SSA 21.6
EL1 697.0 EL2 145.4 ALF 147.74

LAUNCH DATE JUN 21 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 19 1967

HELIOCENTRIC CONIC DISTANCE 230.566

RL 152.02 LAL -.00 LOL 268.96 VL 25.850 GAL -2.51 AZL 93.20 HCA 98.81 SMA 123.14 ECC .23843 INC 3.1984 V1 29.306
RP 108.61 LAP -3.16 LOP 7.78 VP 36.961 GAP -12.04 AZP 89.51 TAL 188.09 TAP 286.90 RCA 93.78 APO 152.50 V2 34.891
RC 50.476 GL -21.09 GP -3.54 ZAL 108.18 ZAP 10.10 ETS 19.61 ZAE 148.79 ETE 12.87 ZAC 88.08 ETC 13.68 CLP -9.47

PLANETOCENTRIC CONIC

C3 16.037 VHL 4.005 DLA -11.52 RAL 153.06 RAD 6567.6 VEL 11.723 PTH 2.07 VHP 7.632 DPA .49 RAP 178.31 ECC 1.2639

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 8 24	1797.33	-7.75	16.57	9.90	117.32	5 38 22	1197.3	-4.03	9.87
90.00	14 9 10	5172.62	25.74	231.34	14.33	77.78	15 35 23	4572.6	23.80	223.21
100.00	6 23 56	1553.68	-8.76	358.12	9.36	118.70	6 49 49	953.7	-4.86	351.50
100.00	15 36 20	4891.50	26.86	210.38	14.05	76.35	16 57 52	4291.5	24.71	202.23
110.00	7 19 0	1381.20	-11.39	343.45	7.78	122.45	7 42 1	781.2	-7.03	337.07
110.00	16 57 45	4636.74	29.81	190.10	13.11	72.43	18 15 2	4036.7	27.12	181.94

DIFFERENTIAL CORRECTIONS
TDE .4035 TRA -.4420 TC3 .8439 BAU .1829
RDE -.2717 RRA -.0911 RC3 .1239 FAU .04197
FDE -.6117 FRA .0817 FC3-2.2659 BSP 3344
BDE .4864 BRA .4513 BC3 .8529 FSP -463

MID-COURSE EXECUTION ACCURACY
SGT 1098.4 SGR 422.6 SG3 174.4
RRT -.1539 RRF .1690 RTF -.8159
SGB 1176.9 R23 -.0225 R13 .8168
SG1 1100.7 SG2 416.7 THA 176.04

ORBIT DETERMINATION ACCURACY
ST 609.2 SR •390.7 SS 578.7
CRT -.9099 CRS -.9874 CST .9600
LSA 913.1 MSA 156.3 SSA 22.2
EL1 710.3 EL2 139.0 ALF 148.38

LAUNCH DATE JUN 21 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 21 1967

HELIOCENTRIC CONIC DISTANCE 237.289

RL 152.02 LAL -.00 LOL 268.96 VL 26.001 GAL -2.64 AZL 93.16 HCA 101.99 SMA 124.04 ECC .22998 INC 3.1560 V1 29.306
RP 108.58 LAP -3.09 LOP 10.97 VP 37.078 GAP -11.23 AZP 89.34 TAL 188.90 TAP 290.90 RCA 95.51 APO 152.57 V2 34.903
RC 51.950 GL -21.57 GP -3.82 ZAL 109.71 ZAP 12.37 ETS 16.99 ZAE 148.03 ETE 11.43 ZAC 87.30 ETC 13.71 CLP -11.77

PLANETOCENTRIC CONIC

C3 15.133 VHL 3.890 DLA -11.35 RAL 151.35 RAD 6567.6 VEL 11.684 PTH 2.05 VHP 7.183 DPA -.12 RAP 179.00 ECC 1.2490

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 0 14	1789.73	-7.51	16.14	7.39	117.38	5 30 3	1189.7	-3.78	9.45
90.00	14 3 44	5154.01	25.47	230.04	11.60	77.18	15 29 38	4554.0	23.45	221.96
100.00	6 15 51	1545.76	-8.50	357.67	6.86	118.77	6 41 36	945.8	-4.59	351.06
100.00	15 30 48	4873.21	26.56	209.10	11.30	75.75	16 52 1	4273.2	24.34	201.00
110.00	7 11 8	1372.61	-11.08	342.98	5.30	122.55	7 34 1	772.6	-6.71	336.62
110.00	16 52 0	4619.13	29.44	188.86	10.35	71.79	18 8 59	4019.1	26.67	180.77

DIFFERENTIAL CORRECTIONS
TDE .4018 TRA -.4126 TC3 .9340 BAU .1904
RDE -.2632 RRA -.0864 RC3 .1141 FAU .04592
FDE -.6605 FRA .0407 FC3-2.6273 BSP 3443
BDE .4803 BRA .4215 BC3 .9409 FSP -527

MID-COURSE EXECUTION ACCURACY
SGT 1123.6 SGR 418.4 SG3 195.7
RRT -.1796 RRF .1981 RTF -.8249
SGB 1198.9 R23 -.0276 R13 .8260
SG1 1126.5 SG2 410.5 THA 175.59

ORBIT DETERMINATION ACCURACY
ST 620.7 SR 389.6 SS 605.0
CRT -.9184 CRS -.9905 CST .9592
LSA 937.4 MSA 154.6 SSA 22.7
EL1 720.7 EL2 132.7 ALF 148.86

LAUNCH DATE JUN 21 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 23 1967

HELIOCENTRIC CONIC DISTANCE 244.003

RL 152.02 LAL -.00 LOL 268.96 VL 26.139 GAL -2.75 AZL 93.11 HCA 105.17 SMA 124.88 ECC .22238 INC 3.1126 V1 29.306
RP 108.54 LAP -3.00 LOP 14.16 VP 37.185 GAP -10.45 AZP 89.18 TAL 189.73 TAP 294.90 RCA 97.11 APO 152.65 V2 34.914
RC 53.515 GL -21.97 GP -4.14 ZAL 111.22 ZAP 14.76 ETS 15.16 ZAE 147.52 ETE 10.07 ZAC 86.64 ETC 13.75 CLP -14.18

PLANETOCENTRIC CONIC

C3 14.363 VHL 3.790 DLA -11.13 RAL 149.70 RAD 6567.6 VEL 11.651 PTH 2.05 VHP 6.756 DPA -.73 RAP 179.57 ECC 1.2364

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 51 48	1785.47	-7.38	15.90	5.02	117.42	5 21 34	1185.5	-3.65	9.21
90.00	13 58 58	5135.01	25.17	228.73	9.01	76.59	15 24 33	4535.0	23.08	220.69
100.00	6 7 33	1541.07	-8.34	357.41	4.50	118.81	6 33 14	941.1	-4.44	350.80
100.00	15 25 54	4854.63	26.24	207.81	8.71	75.14	16 46 49	4254.6	23.94	199.77
110.00	7 3 8	1367.03	-10.88	342.68	2.97	122.61	7 25 55	767.0	-6.50	336.32
110.00	16 46 49	4601.45	29.06	187.62	7.75	71.15	18 3 31	4001.4	26.21	179.60

DIFFERENTIAL CORRECTIONS
TOE .3989 TRA -.3838 TC3 1.0197 BAU .1967
RDE -.2558 RRA -.0825 RC3 .0998 FAU .05040
FDE -.7147 FRA -.0064 FC3-3.0380 BSP 3534
BDE .4739 BRA .3925 BC3 1.0246 FSP -600

MID-COURSE EXECUTION ACCURACY
SGT 1144.9 SGR 414.0 SG3 219.8
RRT -.2101 RRF .2326 RTF -.8329
SGB 1217.5 R23 -.0336 R13 .8343
SG1 1148.7 SG2 403.4 THA 175.04

ORBIT DETERMINATION ACCURACY
ST 629.1 SR 388.6 SS 632.0
CRT -.9262 CRS -.9930 CST .9583
LSA 960.3 MSA 153.5 SSA 23.1
EL1 728.5 EL2 126.5 ALF 149.20

LAUNCH DATE JUN 21 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 25 1967

HELIOCENTRIC CONIC DISTANCE 250.705

RL 152.02 LAL -.00 LOL 268.96 VL 26.262 GAL -2.86 AZL 93.07 HCA 108.36 SMA 125.64 ECC .21556 INC 3.0678 V1 29.306
RP 108.50 LAP -2.91 LOP 17.34 VP 37.283 GAP -9.70 AZP 89.03 TAL 190.54 TAP 298.90 RCA 98.56 APO 152.73 V2 34.926
RC 55.163 GL -22.28 GP -4.51 ZAL 112.68 ZAP 17.30 ETS 13.82 ZAE 147.26 ETE 8.73 ZAC 86.10 ETC 13.79 CLP -16.72

PLANETOCENTRIC CONIC

C3 13.706 VHL 3.702 DLA -10.86 RAL 148.12 RAD 6567.5 VEL 11.623 PTH 2.04 VHP 6.351 DPA -1.33 RAP 180.01 ECC 1.2256

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 43 17	1784.21	-7.34	15.83	2.80	117.43	5 13 1	1184.2	-3.61	9.14
90.00	13 54 56	5115.67	24.86	227.40	6.58	75.99	15 20 12	4515.7	22.69	219.40
100.00	5 59 11	1539.30	-8.29	357.31	2.29	118.82	6 24 51	939.3	-4.38	350.70
100.00	15 21 42	4835.81	25.90	206.51	6.28	74.53	16 42 18	4235.8	23.53	198.52
110.00	6 55 7	1364.16	-10.77	342.52	.79	122.64	7 17 51	764.2	-6.39	336.17
110.00	16 42 16	4583.72	28.66	186.39	5.31	70.52	17 58 40	3983.7	25.74	178.44

DIFFERENTIAL CORRECTIONS
TOE .3937 TRA -.3565 TC3 1.0969 BAU .2015
RDE -.2492 RRA -.0794 RC3 .0803 FAU .05547
FDE -.7736 FRA -.0600 FC3-3.5038 BSP 3596
BDE .4660 BRA .3652 BC3 1.0998 FSP -683

MID-COURSE EXECUTION ACCURACY
SGT 1160.3 SGR 409.8 SG3 247.0
RRT -.2448 RRF .2725 RTF -.8391
SGB 1230.6 R23 -.0413 R13 .8409
SG1 1165.2 SG2 395.7 THA 174.41

ORBIT DETERMINATION ACCURACY
ST 632.7 SR 387.5 SS 658.5
CRT -.9326 CRS -.9949 CST .9570
LSA 979.8 MSA 153.3 SSA 23.4
EL1 732.0 EL2 120.9 ALF 149.34

LAUNCH DATE JUN 21 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 27 1967

HELIOCENTRIC CONIC DISTANCE 257.394

RL 152.02 LAL -.00 LOL 268.96 VL 26.373 GAL -2.97 AZL 93.02 HCA 111.55 SMA 126.34 ECC .20947 INC 3.0213 V1 29.306
RP 108.46 LAP -2.81 LOP 20.53 VP 37.373 GAP -8.98 AZP 88.89 TAL 191.33 TAP 302.88 RCA 99.88 APO 152.81 V2 34.938
RC 56.885 GL -22.51 GP -4.92 ZAL 114.09 ZAP 19.98 ETS 12.82 ZAE 147.27 ETE 7.39 ZAC 85.70 ETC 13.84 CLP -19.39

PLANETOCENTRIC CONIC

C3 13.144 VHL 3.625 DLA -10.54 RAL 146.64 RAD 6567.5 VEL 11.599 PTH 2.03 VHP 5.968 DPA -1.91 RAP 180.31 ECC 1.2163

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 34 45	1785.64	-7.38	15.91	.75	117.42	5 4 31	1185.6	-3.65	9.22
90.00	13 51 37	5096.04	24.53	226.06	4.33	75.40	15 16 34	4496.0	22.29	218.10
100.00	5 50 51	1540.14	-8.31	357.36	.25	118.82	6 16 31	940.1	-4.41	350.75
100.00	15 18 13	4816.77	25.55	205.21	4.02	73.93	16 38 30	4216.8	23.10	197.27
110.00	6 47 11	1363.73	-10.75	342.50	358.78	122.64	7 9 55	763.7	-6.38	336.15
110.00	16 38 22	4565.95	28.25	185.17	3.03	69.90	17 54 28	3966.0	25.25	177.28

DIFFERENTIAL CORRECTIONS
TOE .3894 TRA -.3283 TC3 1.1719 BAU .2061
RDE -.2437 RRA -.0772 RC3 .0547 FAU .06137
FDE -.8420 FRA -.1239 FC3-4.0421 BSP 3701
BDE .4594 BRA .3372 BC3 1.1731 FSP -783

MID-COURSE EXECUTION ACCURACY
SGT 1174.4 SGR 406.6 SG3 278.6
RRT -.2886 RRF .3210 RTF -.8460
SGB 1242.8 R23 -.0491 R13 .8484
SG1 1180.9 SG2 387.1 THA 173.60

ORBIT DETERMINATION ACCURACY
ST 635.9 SR 387.0 SS 688.2
CRT -.9391 CRS -.9963 CST .9561
LSA 1001.9 MSA 153.2 SSA 23.5
EL1 735.5 EL2 115.0 ALF 149.42

LAUNCH DATE JUN 21 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 29 1967

HELIOCENTRIC CONIC DISTANCE 264.069

RL 152.02 LAL -.00 LOL 268.96 VL 26.473 GAL -3.06 AZL 92.97 HCA 114.74 SMA 126.98 ECC .20406 INC 2.9726 V1 29.306
RP 108.43 LAP -2.70 LOP 23.73 VP 37.455 GAP -8.28 AZP 88.76 TAL 192.10 TAP 306.84 RCA 101.07 APO 152.89 V2 34.951
RC 58.673 GL -22.66 GP -5.38 ZAL 115.43 ZAP 22.83 ETS 12.05 ZAE 147.56 ETE 6.00 ZAC 85.47 ETC 13.89 CLP -22.22

PLANETOCENTRIC CONIC

C3 12.661 VHL 3.558 DLA -10.18 RAL 145.27 RAD 6567.5 VEL 11.578 PTH 2.02 VHP 5.606 DPA -2.49 RAP 180.45 ECC 1.2084

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 26 22	1789.40	-7.50	16.12	358.88	117.39	4 56 11	1189.4	-3.77	9.43
90.00	13 49 4	5076.18	24.18	224.70	2.25	74.80	15 13 40	4476.2	21.86	216.80
100.00	5 42 39	1543.25	-8.42	357.53	358.39	118.79	6 8 23	943.2	-4.51	350.92
100.00	15 15 27	4797.56	25.18	203.90	1.94	73.34	16 35 25	4197.6	22.66	196.01
110.00	6 39 27	1365.42	-10.82	342.59	356.94	122.63	7 2 12	765.4	-6.44	336.24
110.00	16 35 9	4548.16	27.83	183.96	.94	69.30	17 50 57	3948.2	24.76	176.14

DIFFERENTIAL CORRECTIONS
TOE .3801 TRA -.3046 TC3 1.2263 BAU .2076
RDE -.2389 RRA -.0757 RC3 .0230 FAU .06791
FDE -.9137 FRA -.1928 FC3-4.6432 BSP 3720
BDE .4490 BRA .3139 BC3 1.2266 FSP -891

MID-COURSE EXECUTION ACCURACY
SGT 1176.7 SGR 404.5 SG3 313.7
RRT -.3350 RRF .3753 RTF -.8490
SGB 1244.3 R23 -.0615 R13 .8522
SG1 1185.3 SG2 378.4 THA 172.68

ORBIT DETERMINATION ACCURACY
ST 630.6 SR 386.5 SS 715.7
CRT -.9433 CRS -.9971 CST .9540
LSA 1017.2 MSA 154.5 SSA 23.5
EL1 731.3 EL2 110.7 ALF 149.18

LAUNCH DATE JUN 21 1967 FLIGHT TIME 102.00 ARRIVAL DATE OCT 1 1967

DISTANCE 270.726

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 26.561 GAL -3.14 AZL 92.92 HCA 117.93 SMA 127.55 ECC .19927 INC 2.9214 V1 29.306
RP 108.39 LAP -2.58 LOP 26.92 VP 37.529 GAP -7.61 AZP 88.63 TAL 192.82 TAP 310.75 RCA 102.13 APO 152.97 V2 34.964
RC 60.521 GL -22.72 GP -5.91 ZAL 116.68 ZAP 25.86 ETS 11.44 ZAE 148.13 ETE 4.52 ZAC 85.43 ETC 13.95 CLP -25.22

PLANETOCENTRIC CONIC
C3 12.243 VHL 3.499 DLA -9.79 RAL 144.02 RAD 6567.5 VEL 11.560 PTH 2.02 VHP 5.266 DPA -3.05 RAP 180.40 ECC 1.2015

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 18 10	1795.21	-7.68	16.45	357.18	117.34	4 48 5	1195.2	-3.96	9.75
90.00	13 47 16	5056.08	23.82	223.34	.36	74.22	15 11 32	4456.1	21.43	215.49
100.00	5 34 41	1548.34	-8.58	357.82	356.70	118.74	6 0 30	948.3	-4.68	351.20
100.00	15 13 26	4778.18	24.80	202.59	.04	72.75	16 33 4	4178.2	22.20	194.75
110.00	6 31 58	1368.97	-10.95	342.78	355.27	122.59	6 54 47	769.0	-6.57	336.42
110.00	16 32 38	4530.31	27.39	182.76	359.03	68.70	17 48 8	3930.3	24.25	175.00

DIFFERENTIAL CORRECTIONS
TDE .3682 TRA -.2835 TC3 1.2649 BAU .2071
RDE -.2350 RRA -.0752 RC3 -.0163 FAU .07530
FDE -.9918 FRA -.2697 FC3-5.3245 BSP 3711
BDE .4368 BRA .2932 BC3 1.2650 FSP -1014

MID-COURSE EXECUTION ACCURACY
SGT 1170.0 SGR 404.7 SG3 353.3
RRT -.3870 RRF .4371 RTF -.8499
SGB 1238.0 R23 -.0777 R13 .8544
SG1 1181.6 SG2 369.5 THA 171.54

ORBIT DETERMINATION ACCURACY
ST 619.8 SR 386.6 SS 743.2
CRT -.9461 CRS -.9976 CST .9513
LSA 1030.0 MSA 156.5 SSA 23.3
EL1 722.6 EL2 107.4 ALF 148.69

LAUNCH DATE JUN 21 1967 FLIGHT TIME 104.00 ARRIVAL DATE OCT 3 1967

DISTANCE 277.365

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 26.639 GAL -3.22 AZL 92.87 HCA 121.12 SMA 128.06 ECC .19505 INC 2.8669 V1 29.306
RP 108.35 LAP -2.45 LOP 30.12 VP 37.596 GAP -6.96 AZP 88.52 TAL 193.50 TAP 314.62 RCA 103.08 APO 153.04 V2 34.977
RC 62.420 GL -22.71 GP -6.52 ZAL 117.84 ZAP 29.09 ETS 10.96 ZAE 148.99 ETE 2.88 ZAC 85.59 ETC 13.99 CLP -28.42

PLANETOCENTRIC CONIC
C3 11.878 VHL 3.446 DLA -9.36 RAL 142.89 RAD 6567.5 VEL 11.544 PTH 2.01 VHP 4.948 DPA -3.60 RAP 180.15 ECC 1.1955

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 10 16	1802.79	-7.92	16.88	355.66	117.28	4 40 18	1202.8	-4.20	10.18
90.00	13 46 13	5035.72	23.44	221.98	358.64	73.63	15 10 9	4435.7	20.97	214.17
100.00	5 27 1	1555.16	-8.81	358.20	355.18	118.68	5 52 56	955.2	-4.91	351.58
100.00	15 12 9	4758.58	24.40	201.27	358.32	72.17	16 31 28	4158.6	21.73	193.49
110.00	6 24 50	1374.14	-11.14	343.07	353.78	122.53	6 47 44	774.1	-6.77	336.70
110.00	16 30 50	4512.36	26.94	181.55	357.30	68.12	17 46 2	3912.4	23.73	173.86

DIFFERENTIAL CORRECTIONS
TDE .3537 TRA -.2654 TC3 1.2838 BAU .2041
RDE -.2318 RRA -.0755 RC3 -.0639 FAU .08358
FDE-1.0763 FRA -.3547 FC3-6.0916 BSP 3673
BDE .4229 BRA .2759 BC3 1.2854 FSP -1154

MID-COURSE EXECUTION ACCURACY
SGT 1152.7 SGR 408.2 SG3 397.7
RRT -.4435 RRF .5059 RTF -.8482
SGB 1222.9 R23 -.0990 R13 .8547
SG1 1168.4 SG2 361.0 THA 170.12

ORBIT DETERMINATION ACCURACY
ST 603.7 SR 387.3 SS 770.6
CRT -.9475 CRS -.9978 CST .9478
LSA 1040.4 MSA 159.2 SSA 23.0
EL1 709.5 EL2 105.4 ALF 147.92

LAUNCH DATE JUN 21 1967 FLIGHT TIME 106.00 ARRIVAL DATE OCT 5 1967

DISTANCE 283.986

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 26.708 GAL -3.28 AZL 92.81 HCA 124.32 SMA 128.52 ECC .19135 INC 2.8087 V1 29.306
RP 108.31 LAP -2.32 LOP 33.31 VP 37.657 GAP -6.34 AZP 88.42 TAL 194.11 TAP 318.44 RCA 103.93 APO 153.11 V2 34.990
RC 64.367 GL -22.61 GP -7.21 ZAL 118.91 ZAP 32.55 ETS 10.55 ZAE 150.16 ETE .99 ZAC 85.97 ETC 14.02 CLP -31.83

PLANETOCENTRIC CONIC
C3 11.555 VHL 3.399 DLA -8.90 RAL 141.91 RAD 6567.4 VEL 11.530 PTH 2.01 VHP 4.652 DPA -4.14 RAP 179.67 ECC 1.1902

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 2 41	1811.94	-8.20	17.41	354.32	117.20	4 32 52	1211.9	-4.49	10.69
90.00	13 45 57	5015.02	23.03	220.59	357.11	73.06	15 9 32	4415.0	20.49	212.84
100.00	5 19 41	1563.51	-9.08	358.67	353.85	118.60	5 45 44	963.5	-5.19	352.04
100.00	15 11 38	4738.68	23.97	199.94	356.78	71.59	16 30 37	4138.7	21.24	192.22
110.00	6 18 3	1380.75	-11.38	343.42	352.47	122.45	6 41 4	780.8	-7.02	337.05
110.00	16 29 46	4494.21	26.48	180.35	355.75	67.54	17 44 40	3894.2	23.20	172.72

DIFFERENTIAL CORRECTIONS
TDE .3378 TRA -.2492 TC3 1.2855 BAU .1995
RDE -.2296 RRA -.0771 RC3 -.1220 FAU .09296
FDE-1.1695 FRA -.4507 FC3-6.9647 BSP 3636
BDE .4085 BRA .2608 BC3 1.2913 FSP -1318

MID-COURSE EXECUTION ACCURACY
SGT 1126.4 SGR 417.1 SG3 448.1
RRT -.5044 RRF .5810 RTF -.8446
SGB 1201.1 R23 -.1254 R13 .8543
SG1 1147.9 SG2 353.4 THA 168.30

ORBIT DETERMINATION ACCURACY
ST 584.1 SR 389.1 SS 799.7
CRT -.9479 CRS -.9978 CST .9437
LSA 1051.3 MSA 161.9 SSA 22.5
EL1 694.0 EL2 104.3 ALF 146.89

LAUNCH DATE JUN 21 1967 FLIGHT TIME 108.00 ARRIVAL DATE OCT 7 1967

DISTANCE 290.586

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 26.768 GAL -3.33 AZL 92.75 HCA 127.52 SMA 128.92 ECC .18812 INC 2.7457 V1 29.306
RP 108.27 LAP -2.18 LOP 36.51 VP 37.712 GAP -5.73 AZP 88.33 TAL 194.67 TAP 322.19 RCA 104.67 APO 153.17 V2 35.003
RC 66.356 GL -22.42 GP -8.00 ZAL 119.87 ZAP 36.25 ETS 10.20 ZAE 151.62 ETE 358.74 ZAC 86.60 ETC 14.03 CLP -35.48

PLANETOCENTRIC CONIC
C3 11.264 VHL 3.356 DLA -8.41 RAL 141.07 RAD 6567.4 VEL 11.517 PTH 2.01 VHP 4.379 DPA -4.68 RAP 178.93 ECC 1.1854

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 55 27	1822.52	-8.53	18.01	353.15	117.10	4 25 49	1222.5	-4.83	11.28
90.00	13 46 29	4993.87	22.60	219.19	355.75	72.48	15 9 43	4393.9	20.00	211.49
100.00	5 12 43	1573.24	-9.39	359.22	352.69	118.51	5 38 56	973.2	-5.52	352.58
100.00	15 11 54	4718.37	23.53	198.60	355.42	71.01	16 30 33	4118.4	20.72	190.93
110.00	6 11 40	1388.65	-11.67	343.86	351.34	122.36	6 34 49	788.6	-7.31	337.47
110.00	16 29 26	4475.73	25.99	179.13	354.38	66.97	17 44 2	3875.7	22.64	171.57

DIFFERENTIAL CORRECTIONS
TDE .3167 TRA -.2389 TC3 1.2547 BAU .1911
RDE -.2282 RRA -.0795 RC3 -.1912 FAU .10316
FDE-1.2637 FRA -.5502 FC3-7.9286 BSP 3515
BDE .3903 BRA .2518 BC3 1.2692 FSP -1493

MID-COURSE EXECUTION ACCURACY
SGT 1082.4 SGR 432.5 SG3 502.9
RRT -.5599 RRF .6569 RTF -.8344
SGB 1165.6 R23 -.1632 R13 .8498
SG1 1112.2 SG2 348.7 THA 165.99

ORBIT DETERMINATION ACCURACY
ST 555.2 SR 391.7 SS 825.5
CRT -.9454 CRS -.9977 CST .9371
LSA 1056.0 MSA 165.5 SSA 22.0
EL1 671.2 EL2 105.6 ALF 145.32

LAUNCH DATE JUN 21 1967 FLIGHT TIME 110.00 ARRIVAL DATE OCT 9 1967

HELIOCENTRIC CONIC DISTANCE 297.166

```
RL  152.02 LAL   -.00 LOL 268.96 VL  26.820 GAL  -3.38 AZL  92.68 HCA 130.72 SMA 129.27 ECC .18533 INC 2.6771 V1  29.306
RP  108.22 LAP  -2.03 LOP  39.71 VP  37.761 GAP  -5.15 AZP  88.25 TAL 195.15 TAP 329.87 RCA 105.31 APO 153.23 V2  35.016
RC  68.382 GL  -22.15 GP   -8.91 ZAL 120.73 ZAP  40.22 ETS   9.87 ZAE 153.37 ETE 355.96 ZAC  87.51 ETC  14.00 CLP -39.38
```

PLANETOCENTRIC CONIC

```
C3  10.997 VHL  3.316 DLA  -7.88 RAL 140.38 RAD 6567.4 VEL 11.506 PTH   2.00 VHP  4.129 DPA  -5.22 RAP 177.92 ECC 1.1810
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 48 34	1834.47	-8.90	18.69	352.16	116.99	4 19 8	1234.5	-5.21	11.96
90.00	13 47 51	4972.04	22.15	217.75	354.56	71.89	15 10 43	4372.0	19.47	210.10
100.00	5 6 7	1584.31	-9.75	359.85	351.71	118.40	5 32 31	984.3	-5.89	353.19
100.00	15 13 0	4697.43	23.06	197.22	354.23	70.43	16 31 17	4097.4	20.18	189.60
110.00	6 5 41	1397.78	-12.00	344.35	350.37	122.25	6 28 59	797.8	-7.66	337.95
110.00	16 29 54	4456.73	25.48	177.89	353.18	66.40	17 44 11	3856.7	22.07	170.40

DIFFERENTIAL CORRECTIONS

```
TDE  .2921 TRA -.2334 TC3 1.1934 BAU  .1800
RDE -.2276 RRA -.0831 RC3 -.2740 FAU .11428
FDE-1.3599 FRA -.6535 FC3-8.9964 BSP   3341
BDE  .3703 BRA  .2477 BC3 1.2245 FSP  -1682
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1023.2 SGR  456.8 SG3  562.7
RRT -.6063 RRF  .7306 RTF -.8170
SGB 1120.5 R23 -.2127 R13  .8425
SG1 1064.8 SG2  349.0 THA 162.97
```

ORBIT DETERMINATION ACCURACY

```
ST   519.8 SR   395.6 SS   849.4
CRT -.9398 CRS -.9975 CST  .9278
LSA 1057.9 MSA  169.4 SSA   21.5
EL1  644.1 EL2  109.1 ALF 143.20
```

LAUNCH DATE JUN 21 1967 FLIGHT TIME 112.00 ARRIVAL DATE OCT 11 1967

HELIOCENTRIC CONIC DISTANCE 303.724

```
RL  152.02 LAL   -.00 LOL 268.96 VL  26.864 GAL  -3.41 AZL  92.60 HCA 133.93 SMA 129.57 ECC .18293 INC 2.6015 V1  29.306
RP  108.18 LAP  -1.87 LOP  42.92 VP  37.805 GAP  -4.59 AZP  88.19 TAL 195.56 TAP 329.48 RCA 105.87 APO 153.27 V2  35.029
RC  70.443 GL  -21.79 GP   -9.95 ZAL 121.49 ZAP  44.45 ETS   9.53 ZAE 155.38 ETE 352.38 ZAC  88.70 ETC  13.92 CLP -43.56
```

PLANETOCENTRIC CONIC

```
C3  10.748 VHL  3.278 DLA  -7.31 RAL 139.84 RAD 6567.4 VEL 11.495 PTH   2.00 VHP  3.904 DPA  -5.77 RAP 176.62 ECC 1.1769
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 42 0	1847.89	-9.32	19.46	351.34	116.86	4 12 48	1247.9	-5.64	12.71
90.00	13 50 6	4949.22	21.66	216.26	353.54	71.30	15 12 36	4349.2	18.91	208.67
100.00	4 59 51	1596.78	-10.16	.55	350.90	118.27	5 26 27	996.8	-6.30	353.89
100.00	15 14 57	4675.56	22.55	195.79	353.20	69.84	16 32 53	4075.6	19.60	188.24
110.00	6 0 5	1408.19	-12.38	344.92	349.58	122.12	6 23 33	808.2	-8.05	338.50
110.00	16 31 13	4436.92	24.93	176.61	352.14	65.82	17 45 10	3836.9	21.45	169.19

DIFFERENTIAL CORRECTIONS

```
TDE  .2655 TRA -.2307 TC3 1.1036 BAU  .1674
RDE -.2281 RRA -.0880 RC3 -.3741 FAU .12639
FDE-1.4584 FRA -.7646 FC-10.1811 BSP   3178
BDE  .3501 BRA  .2470 BC3 1.1652 FSP  -1902
```

MID-COURSE EXECUTION ACCURACY

```
SGT  950.9 SGR  493.2 SG3  628.3
RRT -.6385 RRF  .7983 RTF -.7904
SGB 1071.2 R23 -.2711 R13  .8347
SG1 1009.8 SG2  357.4 THA 158.91
```

ORBIT DETERMINATION ACCURACY

```
ST   480.3 SR   401.5 SS   873.0
CRT -.9309 CRS -.9974 CST  .9152
LSA 1060.0 MSA  173.0 SSA   20.8
EL1  615.5 EL2  114.5 ALF 140.48
```

LAUNCH DATE JUN 21 1967 FLIGHT TIME 114.00 ARRIVAL DATE OCT 13 1967

HELIOCENTRIC CONIC DISTANCE 310.261

```
RL  152.02 LAL   -.00 LOL 268.96 VL  26.902 GAL  -3.43 AZL  92.52 HCA 137.13 SMA 129.82 ECC .18088 INC 2.5172 V1  29.306
RP  108.14 LAP  -1.71 LOP  46.12 VP  37.844 GAP  -4.04 AZP  88.15 TAL 195.88 TAP 333.02 RCA 106.34 APO 153.30 V2  35.042
RC  72.534 GL  -21.34 GP  -11.13 ZAL 122.15 ZAP  48.97 ETS   9.17 ZAE 157.59 ETE 347.61 ZAC  90.18 ETC  13.77 CLP -48.01
```

PLANETOCENTRIC CONIC

```
C3  10.508 VHL  3.242 DLA  -6.70 RAL 139.46 RAD 6567.4 VEL 11.485 PTH   2.00 VHP  3.704 DPA  -6.35 RAP 175.01 ECC 1.1729
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 35 43	1862.92	-9.78	20.32	350.69	116.71	4 6 46	1262.9	-6.11	13.56
90.00	13 53 20	4925.02	21.12	214.69	352.68	70.69	15 15 25	4325.0	18.30	207.15
100.00	4 53 52	1610.83	-10.61	1.35	350.26	118.11	5 20 43	1010.8	-6.77	354.67
100.00	15 17 53	4652.36	22.00	194.29	352.33	69.24	16 35 25	4052.4	18.98	186.80
110.00	5 54 49	1420.00	-12.80	345.57	348.96	121.97	6 18 29	820.0	-8.49	339.13
110.00	16 33 25	4415.94	24.34	175.27	351.26	65.22	17 47 1	3815.9	20.79	167.92

DIFFERENTIAL CORRECTIONS

```
TDE  .2333 TRA -.2358 TC3  .9660 BAU  .1523
RDE -.2292 RRA -.0937 RC3 -.4917 FAU .13867
FDE-1.5427 FRA -.8642 FC-11.4247 BSP   2931
BDE  .3270 BRA  .2537 BC3 1.0839 FSP  -2117
```

MID-COURSE EXECUTION ACCURACY

```
SGT  859.2 SGR  541.7 SG3  694.8
RRT -.6374 RRF  .8544 RTF -.7407
SGB 1015.8 R23 -.3394 R13  .8244
SG1  941.6 SG2  380.9 THA 153.43
```

ORBIT DETERMINATION ACCURACY

```
ST   431.5 SR   408.2 SS   887.9
CRT -.9133 CRS -.9974 CST  .8941
LSA 1053.3 MSA  177.2 SSA   20.2
EL1  581.0 EL2  123.5 ALF 136.74
```

LAUNCH DATE JUN 21 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 15 1967

HELIOCENTRIC CONIC DISTANCE 316.775

```
RL  152.02 LAL   -.00 LOL 268.96 VL  26.932 GAL  -3.44 AZL  92.42 HCA 140.34 SMA 130.03 ECC .17916 INC 2.4219 V1  29.306
RP  108.10 LAP  -1.55 LOP  49.33 VP  37.878 GAP  -3.52 AZP  88.13 TAL 196.13 TAP 336.47 RCA 106.74 APO 153.33 V2  35.056
RC  74.652 GL  -20.76 GP  -12.49 ZAL 122.71 ZAP  53.76 ETS   8.73 ZAE 159.89 ETE 341.05 ZAC  91.96 ETC  13.53 CLP -52.74
```

PLANETOCENTRIC CONIC

```
C3  10.272 VHL  3.205 DLA  -6.01 RAL 139.23 RAD 6567.4 VEL 11.474 PTH   1.99 VHP  3.531 DPA  -6.97 RAP 173.08 ECC 1.1691
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 29 36	1879.95	-10.30	21.31	350.21	116.52	4 0 56	1280.0	-6.65	14.52
90.00	13 57 41	4898.83	20.52	213.00	351.97	70.05	15 19 20	4298.8	17.62	205.53
100.00	4 48 6	1626.75	-11.12	2.26	349.78	117.93	5 15 12	1026.8	-7.30	355.55
100.00	15 21 53	4627.27	21.39	192.68	351.62	68.60	16 39 0	4027.3	18.29	185.25
110.00	5 49 49	1433.52	-13.29	346.32	348.51	121.79	6 13 42	833.5	-8.99	339.86
110.00	16 36 39	4393.26	23.69	173.84	350.54	64.60	17 49 52	3793.3	20.07	166.56

DIFFERENTIAL CORRECTIONS

```
TDE  .1977 TRA -.2457 TC3  .7853 BAU  .1384
RDE -.2307 RRA -.1002 RC3 -.6314 FAU .15100
FDE-1.6097 FRA -.9543 FC-12.7260 BSP   2692
BDE  .3038 BRA  .2654 BC3 1.0076 FSP  -2336
```

MID-COURSE EXECUTION ACCURACY

```
SGT  757.2 SGR  605.3 SG3  761.9
RRT -.5890 RRF  .8988 RTF -.6537
SGB  969.4 R23 -.3948 R13  .8220
SG1  871.2 SG2  425.2 THA 145.49
```

ORBIT DETERMINATION ACCURACY

```
ST   377.8 SR   416.1 SS   895.0
CRT -.8829 CRS -.9974 CST  .8596
LSA 1041.0 MSA  181.2 SSA   19.5
EL1  545.5 EL2  135.3 ALF 131.87
```

LAUNCH DATE JUN 21 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 17 1967

DISTANCE 323.268

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 26.957 GAL -3.44 AZL 92.31 HCA 143.55 SMA 130.20 ECC .17772 INC 2.3128 V1 29.306
RP 108.06 LAP -1.37 LOP 52.53 VP 37.908 GAP -3.00 AZP 88.14 TAL 196.29 TAP 339.85 RCA 107.06 APO 153.34 V2 35.069
RC 76.795 GL -20.05 GP -14.03 ZAL 123.17 ZAP 58.82 ETS 8.20 ZAE 162.07 ETE 331.89 ZAC 94.02 ETC 13.17 CLP -57.74

PLANETOCENTRIC CONIC
C3 10.035 VHL 3.168 DLA -5.24 RAL 139.18 RAD 6567.4 VEL 11.464 PTH 1.99 VHP 3.387 DPA -7.67 RAP 170.84 ECC 1.1652

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 23 31	1899.61	-10.89	22.44	349.90	116.30	3 55 10	1299.6	-7.27	15.64
90.00	14 3 20	4869.83	19.84	211.15	351.41	69.37	15 24 30	4269.8	16.86	203.74
100.00	4 42 23	1645.18	-11.70	3.31	349.48	117.70	5 9 48	1045.2	-7.90	356.58
100.00	15 27 9	4599.49	20.69	190.91	351.06	67.93	16 43 49	3999.5	17.51	183.56
110.00	5 44 58	1449.26	-13.85	347.19	348.23	121.57	6 9 7	849.3	-9.57	340.70
110.00	16 41 4	4368.18	22.94	172.27	349.97	63.94	17 53 52	3768.2	19.25	165.07

DIFFERENTIAL CORRECTIONS
TDE .1611 TRA -.2594 TC3 .5622 BAU .1311
RDE -.2330 RRA -.1078 RC3 -.7989 FAU .16312
FDE-1.6586 FRA-1.0326 FC-14.0722 BSP 2549
BDE .2832 BRA .2809 BC3 .9769 FSP -2565

MID-COURSE EXECUTION ACCURACY
SGT 658.6 SGR 687.1 SG3 828.7
RRT -.4660 RRF .9323 RTF -.5012
SGB 951.7 R23 -.3832 R13 .8532
SG1 815.2 SG2 491.1 THA 132.40

ORBIT DETERMINATION ACCURACY
ST 324.0 SR 425.7 SS 896.6
CRT -.8311 CRS -.9976 CST .8032
LSA 1027.3 MSA 185.1 SSA 18.8
EL1 513.7 EL2 149.3 ALF 125.80

LAUNCH DATE JUN 21 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 19 1967

DISTANCE 329.739

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 26.976 GAL -3.43 AZL 92.19 HCA 146.77 SMA 130.34 ECC .17654 INC 2.1855 V1 29.306
RP 108.02 LAP -1.20 LOP 55.74 VP 37.933 GAP -2.51 AZP 88.17 TAL 196.37 TAP 343.14 RCA 107.33 APO 153.35 V2 35.082
RC 78.958 GL -19.16 GP -15.80 ZAL 123.54 ZAP 64.09 ETS 7.52 ZAE 163.77 ETE 319.28 ZAC 96.34 ETC 12.65 CLP -62.99

PLANETOCENTRIC CONIC
C3 9.792 VHL 3.129 DLA -4.35 RAL 139.30 RAD 6567.4 VEL 11.453 PTH 1.99 VHP 3.273 DPA -8.49 RAP 168.30 ECC 1.1611

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 17 14	1922.80	-11.59	23.79	349.78	116.02	3 49 17	1322.8	-8.00	16.95
90.00	14 10 35	4836.87	19.04	209.06	351.01	68.63	15 31 12	4236.9	15.96	201.73
100.00	4 36 33	1666.98	-12.39	4.57	349.37	117.42	5 4 20	1067.0	-8.62	357.81
100.00	15 33 58	4567.93	19.87	188.93	350.65	67.19	16 50 6	3967.9	16.61	181.65
110.00	5 40 7	1467.97	-14.52	348.23	348.14	121.29	6 4 35	868.0	-10.27	341.71
110.00	16 46 53	4339.70	22.08	170.50	349.56	63.22	17 59 13	3739.7	18.31	163.40

DIFFERENTIAL CORRECTIONS
TDE .1213 TRA -.2786 TC3 .2811 BAU .1352
RDE -.2340 RRA -.1149 RC3 -.9938 FAU .17348
FDE-1.6577 FRA-1.0751 FC-15.3382 BSP 2526
BDE .2636 BRA .3014 BC3 1.0328 FSP -2757

MID-COURSE EXECUTION ACCURACY
SGT 584.9 SGR 784.2 SG3 886.4
RRT -.2107 RRF .9555 RTF -.2255
SGB 978.3 R23 -.1820 R13 .9384
SG1 803.5 SG2 558.0 THA 107.65

ORBIT DETERMINATION ACCURACY
ST 270.1 SR 433.5 SS 878.2
CRT -.7308 CRS -.9977 CST .6973
LSA 998.0 MSA 189.1 SSA 18.2
EL1 483.2 EL2 165.4 ALF 118.05

LAUNCH DATE JUN 21 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 21 1967

DISTANCE 336.187

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 26.990 GAL -3.41 AZL 92.03 HCA 149.98 SMA 130.43 ECC .17561 INC 2.0344 V1 29.306
RP 107.98 LAP -1.02 LOP 58.96 VP 37.955 GAP -2.03 AZP 88.24 TAL 196.37 TAP 346.35 RCA 107.53 APO 153.34 V2 35.094
RC 81.139 GL -18.04 GP -17.84 ZAL 123.83 ZAP 69.52 ETS 6.65 ZAE 164.47 ETE 303.28 ZAC 98.87 ETC 11.93 CLP -68.44

PLANETOCENTRIC CONIC
C3 9.537 VHL 3.088 DLA -3.27 RAL 139.62 RAD 6567.3 VEL 11.442 PTH 1.98 VHP 3.191 DPA -9.49 RAP 165.49 ECC 1.1569

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 10 28	1951.04	-12.43	25.44	349.85	115.65	3 43 0	1351.0	-8.87	18.56
90.00	14 19 53	4798.24	18.06	206.65	350.76	67.81	15 39 51	4198.2	14.89	199.40
100.00	4 30 17	1693.57	-13.22	6.11	349.45	117.06	4 58 31	1093.6	-9.49	359.31
100.00	15 42 45	4530.94	18.87	186.63	350.40	66.38	16 58 16	3930.9	15.52	179.44
110.00	5 55 1	1490.91	-15.32	349.52	348.24	120.94	5 59 52	890.9	-11.11	342.95
110.00	16 54 30	4306.36	21.04	168.47	349.29	62.42	18 6 17	3706.4	17.19	161.47

DIFFERENTIAL CORRECTIONS
TDE .0831 TRA -.2997 TC3 -.0487 BAU .1564
RDE -.2340 RRA -.1220 RC3-1.2260 FAU .18199
FDE-1.6129 FRA-1.0876 FC-16.5213 BSP 2768
BDE .2483 BRA .3236 BC3 1.2270 FSP -2929

MID-COURSE EXECUTION ACCURACY
SGT 578.6 SGR 901.8 SG3 935.2
RRT .1573 RRF .9716 RTF .1550
SGB 1071.5 R23 .0983 R13 .9666
SG1 909.4 SG2 566.7 THA 80.53

ORBIT DETERMINATION ACCURACY
ST 227.4 SR 440.0 SS 846.0
CRT -.5555 CRS -.9979 CST .5160
LSA 961.0 MSA 192.9 SSA 17.7
EL1 461.3 EL2 180.4 ALF 109.04

LAUNCH DATE JUN 21 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 23 1967

DISTANCE 342.614

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 27.000 GAL -3.37 AZL 91.85 HCA 153.20 SMA 130.50 ECC .17488 INC 1.8506 V1 29.306
RP 107.94 LAP -.83 LOP 62.17 VP 37.973 GAP -1.56 AZP 88.35 TAL 196.29 TAP 349.49 RCA 107.67 APO 153.32 V2 35.107
RC 83.336 GL -16.62 GP -20.19 ZAL 124.05 ZAP 75.04 ETS 5.53 ZAE 163.68 ETE 286.13 ZAC 101.55 ETC 10.97 CLP -74.04

PLANETOCENTRIC CONIC
C3 9.266 VHL 3.044 DLA -1.95 RAL 140.16 RAD 6567.3 VEL 11.430 PTH 1.98 VHP 3.144 DPA -10.75 RAP 162.44 ECC 1.1525

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 2 45	1986.61	-13.46	27.54	350.16	115.15	3 35 51	1386.6	-9.97	20.61
90.00	14 31 54	4751.42	16.83	203.76	350.69	66.89	15 51 5	4151.4	13.56	196.61
100.00	4 23 11	1727.14	-14.25	8.07	349.77	116.56	4 51 58	1127.1	-10.57	1.21
100.00	15 54 9	4486.12	17.63	183.88	350.32	65.46	17 8 55	3886.1	14.17	176.80
110.00	5 29 21	1520.03	-16.33	351.17	348.59	120.45	5 54 41	920.0	-12.17	344.54
110.00	17 4 28	4266.00	19.75	166.05	349.20	61.52	18 15 34	3666.0	15.80	159.17

DIFFERENTIAL CORRECTIONS
TDE .0474 TRA -.3227 TC3 -.4385 BAU .1931
RDE -.2298 RRA -.1266 RC3-1.4961 FAU .18687
FDE-1.4929 FRA-1.0430 FC-17.4601 BSP 3267
BDE .2346 BRA .3467 BC3 1.5591 FSP -3031

MID-COURSE EXECUTION ACCURACY
SGT 669.8 SGR 1036.1 SG3 965.0
RRT .5035 RRF .9821 RTF .5054
SGB 1233.8 R23 .1970 R13 .9623
SG1 1109.0 SG2 540.7 THA 65.90

ORBIT DETERMINATION ACCURACY
ST 203.1 SR 439.3 SS 784.8
CRT -.2835 CRS -.9979 CST .2394
LSA 900.5 MSA 197.1 SSA 17.3
EL1 443.9 EL2 192.7 ALF 99.22

LAUNCH DATE JUN 21 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 25 1967

HELIOCENTRIC CONIC DISTANCE 349.019

RL 152.02 LAL -.00 LOL 268.96 VL 27.004 GAL -3.33 AZL 91.62 HCA 156.42 SMA 130.53 ECC .17435 INC 1.6204 V1 29.306
RP 107.91 LAP -.65 LOP 65.39 VP 37.988 GAP -1.10 AZP 88.51 TAL 196.13 TAP 352.55 RCA 107.77 APO 153.29 V2 35.119
RC 85.546 GL -14.74 GP -22.96 ZAL 124.20 ZAP 80.54 ETS 4.10 ZAE 161.25 ETE 271.21 ZAC 104.29 ETC 9.69 CLP -79.71

PLANETOCENTRIC CONIC

C3 8.976 VHL 2.996 DLA -.24 RAL 140.96 RAD 6567.3 VEL 11.418 PTH 1.98 VHP 3.137 DPA -12.38 RAP 159.18 ECC 1.1477

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 53 18	2033.36	-14.80	30.32	350.77	114.42	3 27 11	1433.4	-11.38	23.31
90.00	14 47 44	4692.39	15.22	200.18	350.83	65.83	16 5 57	4092.4	11.83	193.14
100.00	4 14 31	1771.33	-15.58	10.68	350.39	115.84	4 44 3	1171.3	-11.98	3.74
100.00	16 9 12	4429.64	16.00	180.48	350.46	64.41	17 23 1	3829.6	12.43	173.51
110.00	5 22 31	1558.52	-17.65	353.38	349.25	119.76	5 48 29	958.5	-13.56	346.66
110.00	17 17 42	4215.22	18.08	163.07	349.32	60.48	18 27 57	3615.2	14.01	156.32

DIFFERENTIAL CORRECTIONS
TOE .0197 TRA -.3435 TC3 -.8822 BAU .2421
ROE -.2190 RRA -.1275 RC3-1.8144 FAU .18746
FOE-1.2909 FRA -.9426 FC-18.0801 BSP 4003
BOE .2199 BRA .3664 BC3 2.0175 FSP -3062

MID-COURSE EXECUTION ACCURACY
SGT 844.1 SGR 1190.3 SG3 972.6
RRT .7158 RRF .9890 RTF .7176
SGB 1459.2 R23 .2124 R13 .9660
SG1 1365.8 SG2 513.7 THA 58.05

ORBIT DETERMINATION ACCURACY
ST 201.3 SR 426.4 SS 690.7
CRT -.0096 CRS -.9978 CST -.0367
LSA 811.4 MSA 201.9 SSA 17.3
EL1 426.4 EL2 201.3 ALF 90.33

LAUNCH DATE JUN 21 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 27 1967

HELIOCENTRIC CONIC DISTANCE 355.401

RL 152.02 LAL -.00 LOL 268.96 VL 27.005 GAL -3.27 AZL 91.32 HCA 159.64 SMA 130.53 ECC .17400 INC 1.3223 V1 29.306
RP 107.87 LAP -.46 LOP 68.60 VP 37.999 GAP -.66 AZP 88.76 TAL 195.89 TAP 355.53 RCA 107.82 APO 153.25 V2 35.131
RC 87.767 GL -12.20 GP -26.29 ZAL 124.27 ZAP 85.88 ETS 2.25 ZAE 157.37 ETE 260.24 ZAC 107.01 ETC 7.99 CLP -85.40

PLANETOCENTRIC CONIC

C3 8.668 VHL 2.944 DLA 2.06 RAL 142.10 RAD 6567.3 VEL 11.404 PTH 1.97 VHP 3.178 DPA -14.57 RAP 155.72 ECC 1.1427

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 40 48	2097.93	-16.58	34.23	351.81	113.29	3 15 46	1497.9	-13.29	27.10
90.00	15 9 20	4614.46	12.99	195.54	351.28	64.62	16 26 14	4014.5	9.47	188.63
100.00	4 3 6	1832.46	-17.36	14.34	351.45	114.73	4 33 38	1232.5	-13.88	7.28
100.00	16 29 43	4355.15	13.76	176.08	350.89	63.20	17 42 18	3755.2	10.05	169.25
110.00	5 13 32	1611.99	-19.43	356.51	350.35	118.69	5 40 24	1012.0	-15.45	349.65
110.00	17 35 46	4148.40	15.79	159.24	349.74	59.28	18 44 54	3548.4	11.60	152.64

DIFFERENTIAL CORRECTIONS
TOE .0064 TRA -.3586 TC3-1.3803 BAU .3007
ROE -.1977 RRA -.1240 RC3-2.1975 FAU .18321
FOE-1.0040 FRA -.7944 FC-18.2992 BSP 4951
BOE .1978 BRA .3794 BC3 2.5951 FSP -3027

MID-COURSE EXECUTION ACCURACY
SGT 1071.6 SGR 1371.4 SG3 955.5
RRT .8271 RRF .9935 RTF .8280
SGB 1740.4 R23 .2030 R13 .9726
SG1 1668.5 SG2 495.0 THA 53.38

ORBIT DETERMINATION ACCURACY
ST 211.3 SR 393.4 SS 558.6
CRT .1362 CRS -.9971 CST -.1878
LSA 683.8 MSA 208.5 SSA 18.0
EL1 394.9 EL2 208.5 ALF 84.19

LAUNCH DATE JUN 21 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 29 1967

HELIOCENTRIC CONIC DISTANCE 361.762

RL 152.02 LAL -.00 LOL 268.96 VL 27.002 GAL -3.21 AZL 90.92 HCA 162.86 SMA 130.51 ECC .17381 INC .9159 V1 29.306
RP 107.83 LAP -.27 LOP 71.82 VP 38.008 GAP -.23 AZP 89.12 TAL 195.57 TAP 358.43 RCA 107.83 APO 153.20 V2 35.143
RC 89.996 GL -8.59 GP -30.44 ZAL 124.25 ZAP 90.88 ETS 359.85 ZAE 152.22 ETE 253.00 ZAC 109.59 ETC 5.73 CLP -91.02

PLANETOCENTRIC CONIC

C3 8.352 VHL 2.890 DLA 5.32 RAL 143.72 RAD 6567.3 VEL 11.390 PTH 1.97 VHP 3.282 DPA -17.57 RAP 152.01 ECC 1.1375

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 22 48	2192.87	-19.04	40.11	353.58	111.37	2 59 20	1592.9	-15.96	32.78
90.00	15 40 17	4505.50	9.73	189.20	352.24	63.28	16 55 22	3905.5	6.07	182.43
100.00	3 46 39	1922.40	-19.83	19.88	353.24	112.84	4 18 41	1322.4	-16.56	12.61
100.00	16 59 7	4251.19	10.49	170.10	351.84	61.85	18 9 58	3651.2	6.65	163.42
110.00	5 0 39	1690.80	-21.93	1.25	352.19	116.90	5 28 50	1090.8	-18.15	354.17
110.00	18 1 36	4055.57	12.50	154.06	350.65	57.92	19 9 12	3455.6	8.17	147.64

DIFFERENTIAL CORRECTIONS
TOE .0188 TRA -.3619 TC3-1.9278 BAU .3656
ROE -.1540 RRA -.1086 RC3-2.6461 FAU .17200
FOE -.5997 FRA -.5693 FC-17.8284 BSP 5997
BOE .1552 BRA .3779 BC3 3.2738 FSP -2854

MID-COURSE EXECUTION ACCURACY
SGT 1327.5 SGR 1574.6 SG3 901.6
RRT .8844 RRF .9963 RTF .8847
SGB 2059.5 R23 .1888 R13 .9782
SG1 2000.9 SG2 487.5 THA 50.49

ORBIT DETERMINATION ACCURACY
ST 221.9 SR 315.5 SS 361.5
CRT .0599 CRS -.9928 CST -.1401
LSA 479.7 MSA 221.2 SSA 21.1
EL1 316.1 EL2 221.1 ALF 85.27

LAUNCH DATE JUN 21 1967 FLIGHT TIME 132.00 ARRIVAL DATE OCT 31 1967

HELIOCENTRIC CONIC DISTANCE 368.101

RL 152.02 LAL -.00 LOL 268.96 VL 26.995 GAL -3.13 AZL 90.33 HCA 166.09 SMA 130.47 ECC .17378 INC .3286 V1 29.306
RP 107.80 LAP -.08 LOP 75.05 VP 38.014 GAP .19 AZP 89.68 TAL 195.18 TAP 1.27 RCA 107.79 APO 153.14 V2 35.154
RC 92.232 GL -3.13 GP -35.82 ZAL 124.01 ZAP 95.30 ETS 356.71 ZAE 145.77 ETE 248.64 ZAC 111.86 ETC 2.67 CLP -96.55

PLANETOCENTRIC CONIC

C3 8.079 VHL 2.842 DLA 10.27 RAL 146.12 RAD 6567.3 VEL 11.378 PTH 1.97 VHP 3.482 DPA -21.78 RAP 147.91 ECC 1.1330

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 53 41	2345.35	-22.51	49.94	356.74	107.64	2 32 46	1745.3	-19.89	42.25
90.00	16 28 32	4340.61	4.56	179.84	354.29	62.02	17 40 52	3740.6	.78	173.20
100.00	3 20 7	2066.57	-23.36	29.13	356.44	109.20	3 54 34	1466.6	-20.52	21.48
100.00	17 44 47	4094.62	5.34	161.32	353.86	60.55	18 53 1	3494.6	1.38	154.78
110.00	4 39 56	1816.81	-25.59	9.21	355.48	113.48	5 10 13	1216.8	-22.19	1.70
110.00	18 41 27	3917.15	7.39	146.60	352.60	56.53	19 46 44	3317.1	2.94	140.34

DIFFERENTIAL CORRECTIONS
TOE .0753 TRA -.3459 TC3-2.5106 BAU .4375
ROE -.0727 RRA -.0770 RC3-3.1789 FAU .15376
FOE -.0986 FRA -.2991 FC-16.4768 BSP 7214
BOE .1047 BRA .3544 BC3 4.0507 FSP -2578

MID-COURSE EXECUTION ACCURACY
SGT 1600.6 SGR 1819.9 SG3 811.2
RRT .9161 RRF .9980 RTF .9164
SGB 2423.6 R23 .1718 R13 .9831
SG1 2373.1 SG2 492.1 THA 49.00

ORBIT DETERMINATION ACCURACY
ST 264.7 SR 163.3 SS 117.4
CRT -.2284 CRS -.8329 CST -.2025
LSA 269.0 MSA 191.9 SSA 36.2
EL1 268.8 EL2 156.6 ALF 167.77

LAUNCH DATE JUN 21 1967 FLIGHT TIME 134.00 ARRIVAL DATE NOV 2 1967

DISTANCE 374.417

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 26.986 GAL -3.04 AZL 89.40 HCA 169.31 SMA 130.40 ECC .17388 INC .5988 V1 29.306
RP 107.77 LAP .11 LOP 78.27 VP 38.017 GAP .60 AZP 90.59 TAL 194.72 TAP 4.04 RCA 107.73 APO 153.07 V2 35.165
RC 94.474 GL 5.74 GP -43.13 ZAL 123.07 ZAP 98.72 ETS 352.51 ZAE 137.59 ETE 246.35 ZAC 113.55 ETC 358.42 CLP-101.99

PLANETOCENTRIC CONIC
C3 8.042 VHL 2.836 DLA 18.35 RAL 150.00 RAD 6567.3 VEL 11.377 PTH 1.96 VHP 3.864 DPA -27.82 RAP 142.99 ECC 1.1324

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	0 56 2	2630.84	-27.02	69.60	3.14	98.82	1 39 53	2030.8	-25.52	61.25
90.00	17 57 9	4053.43	-4.68	163.79	359.26	62.04	19 4 42	3453.4	-8.38	157.07
100.00	2 28 22	2333.12	-28.09	47.49	2.94	100.68	3 7 15	1733.1	-26.32	39.13
100.00	19 7 30	3826.39	-3.73	146.58	358.73	60.32	20 11 17	3226.4	-7.65	139.99
110.00	4 0 34	2044.66	-30.82	24.85	2.21	105.58	4 34 38	1444.7	-28.37	16.50
110.00	19 51 48	3687.62	-1.35	134.57	357.25	55.84	20 53 15	3087.6	-5.82	128.34

DIFFERENTIAL CORRECTIONS
TOE .2223 TRA -.2899 TC3-3.0266 BAU .5133
ROE .0924 RRA -.0070 RC3-3.6921 FAU .12573
FOE .5018 FRA .0267 FC-13.5346 BSP 8481
BOE .2407 BRA .2899 BC3 4.7741 FSP -2124

MID-COURSE EXECUTION ACCURACY
SGT 1878.6 SGR 2102.4 SG3 669.0
RRT .9337 RRF .9990 RTF .9348
SGB 2819.5 R23 .1552 R13 .9869
SG1 2772.9 SG2 510.1 THA 48.44

ORBIT DETERMINATION ACCURACY
ST 488.5 SR 197.0 SS 347.1
CRT .9133 CRS -.9941 CST -.9136
LSA 617.5 MSA 127.6 SSA 18.5
EL1 521.3 EL2 75.2 ALF 20.67

LAUNCH DATE JUN 21 1967 FLIGHT TIME 136.00 ARRIVAL DATE NOV 4 1967

DISTANCE 380.708

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 26.973 GAL -2.94 AZL 87.67 HCA 172.53 SMA 130.31 ECC .17411 INC 2.3279 V1 29.306
RP 107.73 LAP .30 LOP 81.50 VP 38.018 GAP 1.00 AZP 92.31 TAL 194.19 TAP 6.73 RCA 107.62 APO 153.00 V2 35.175
RC 96.719 GL 21.21 GP -53.59 ZAL 119.69 ZAP 100.35 ETS 346.81 ZAE 126.69 ETE 245.25 ZAC 114.13 ETC 352.31 CLP-107.63

PLANETOCENTRIC CONIC
C3 9.162 VHL 3.027 DLA 32.32 RAL 157.49 RAD 6567.3 VEL 11.426 PTH 1.98 VHP 4.684 DPA -36.67 RAP 136.14 ECC 1.1508

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.72	19 48 28	3770.21	-26.53	153.22	15.41	70.82	20 51 18	3170.2	-28.90	145.00
106.28	0 4 26	2963.42	-26.52	93.40	15.40	70.81	0 53 50	2363.4	-28.89	85.19
73.72	19 48 28	3770.21	-26.53	153.22	15.41	70.82	20 51 18	3170.2	-28.90	145.00
106.28	0 4 26	2963.42	-26.52	93.40	15.40	70.81	0 53 50	2363.4	-28.89	85.19
110.00	1 53 2	2628.06	-32.78	69.48	17.30	79.73	2 36 50	2028.1	-33.85	60.40
110.00	22 59 3	3153.57	-20.59	105.20	12.59	62.09	23 51 36	2553.6	-24.16	97.87

DIFFERENTIAL CORRECTIONS
TOE .5795 TRA -.1472 TC3-3.0792 BAU .5896
ROE .4423 RRA .1489 RC3-3.7001 FAU .08705
FOE 1.0830 FRA .3509 FC3-8.2258 BSP 9867
BOE .7290 BRA .2094 BC3 4.8137 FSP -1501

MID-COURSE EXECUTION ACCURACY
SGT 2187.9 SGR 2414.4 SG3 470.2
RRT .9434 RRF .9995 RTF .9467
SGB 3258.3 R23 .1399 R13 .9897
SG1 3212.3 SG2 545.2 THA 47.99

ORBIT DETERMINATION ACCURACY
ST 1102.9 SR 845.9 SS 837.3
CRT .9779 CRS-1.0000 CST -.9790
LSA 1613.9 MSA 167.9 SSA 4.0
EL1 1382.8 EL2 140.9 ALF 37.33

LAUNCH DATE JUN 21 1967 FLIGHT TIME 138.00 ARRIVAL DATE NOV 6 1967

DISTANCE 386.960

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 26.958 GAL -2.83 AZL 83.35 HCA 175.74 SMA 130.21 ECC .17446 INC 6.6441 V1 29.306
RP 107.70 LAP .49 LOP 84.72 VP 38.016 GAP 1.38 AZP 96.63 TAL 193.59 TAP 9.32 RCA 107.49 APO 152.92 V2 35.185
RC 98.967 GL 46.65 GP -69.27 ZAL 109.70 ZAP 98.88 ETS 338.12 ZAE 111.07 ETE 242.91 ZAC 112.52 ETC 342.38 CLP-115.87

PLANETOCENTRIC CONIC
C3 18.356 VHL 4.284 DLA 53.67 RAL 177.11 RAD 6567.7 VEL 11.821 PTH 2.09 VHP 7.046 DPA -49.49 RAP 123.26 ECC 1.3021

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
42.30	18 46 56	4308.15	-35.75	206.15	55.16	46.88	19 58 44	3708.1	-40.97	198.84
137.70	3 42 32	2724.14	-35.73	79.47	55.15	46.87	4 27 56	2124.1	-40.96	72.16
42.30	18 46 56	4308.15	-35.75	206.15	55.16	46.88	19 58 44	3708.1	-40.97	198.84
137.70	3 42 32	2724.14	-35.73	79.47	55.15	46.87	4 27 56	2124.1	-40.96	72.16
42.30	18 46 56	4308.15	-35.75	206.15	55.16	46.88	19 58 44	3708.1	-40.97	198.84
137.70	3 42 32	2724.14	-35.73	79.47	55.15	46.87	4 27 56	2124.1	-40.96	72.16

DIFFERENTIAL CORRECTIONS
TOE 1.5824 TRA .3019 TC3-1.7025 BAU .6268
ROE 1.1362 RRA .5749 RC3-1.9043 FAU .04039
FOE 1.2631 FRA .5844 FC3-1.9051 BSP 11172
BOE 1.9481 BRA .6494 BC3 2.5543 FSP -750

MID-COURSE EXECUTION ACCURACY
SGT 2659.1 SGR 2579.8 SG3 232.8
RRT .9446 RRF .9988 RTF .9569
SGB 3704.9 R23 .1313 R13 .9910
SG1 3653.3 SG2 616.1 THA 44.08

ORBIT DETERMINATION ACCURACY
ST 2126.5 SR 1569.3 SS 1056.6
CRT .9880 CRS -.9998 CST -.9910
LSA 2838.4 MSA 210.3 SSA 1.5
EL1 2635.6 EL2 195.3 ALF 36.33

LAUNCH DATE JUN 21 1967 FLIGHT TIME 140.00 ARRIVAL DATE NOV 8 1967

DISTANCE 393.021

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 26.940 GAL -2.67 AZL 55.85 HCA 178.79 SMA 130.08 ECC .17477 INC34.1502 V1 29.306
RP 107.67 LAP .68 LOP 87.95 VP 38.012 GAP 1.71 AZP 124.15 TAL 192.77 TAP 11.56 RCA 107.35 APO 152.82 V2 35.195
RC 101.218 GL 64.62 GP -77.31 ZAL 94.70 ZAP 93.14 ETS 202.94 ZAE 80.29 ETE 113.12 ZAC 107.58 ETC 202.35 CLP 104.45

PLANETOCENTRIC CONIC
C3 279.625 VHL 16.722 DLA 59.83 RAL 213.49 RAD 6571.6 VEL 20.023 PTH 3.14 VHP 23.694 DPA -61.64 RAP 70.57 ECC 5.6019

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
34.82	20 51 46	4935.19	-5.69	237.26	120.18	30.34	22 14 1	4335.2	-12.58	233.54
145.18	6 27 57	3269.03	-5.68	100.74	120.16	30.34	7 22 26	2669.0	-12.57	97.03
34.82	20 51 46	4935.19	-5.69	237.26	120.18	30.34	22 14 1	4335.2	-12.58	233.54
145.18	6 27 57	3269.03	-5.68	100.74	120.16	30.34	7 22 26	2669.0	-12.57	97.03
34.82	20 51 46	4935.19	-5.69	237.26	120.18	30.34	22 14 1	4335.2	-12.58	233.54
145.18	6 27 57	3269.03	-5.68	100.74	120.16	30.34	7 22 26	2669.0	-12.57	97.03

DIFFERENTIAL CORRECTIONS
TOE -.9019 TRA 1.0187 TC3 -.0139 BAU .5571
ROE-4.9129 RRA-5.0530 RC3 -.1484 FAU-.00945
FOE .8119 FRA 1.0925 FC3 .0293 BSP 8663
BOE 4.9950 BRA 5.1535 BC3 .1490 FSP -163

MID-COURSE EXECUTION ACCURACY
SGT 757.8 SGR 3865.9 SG3 69.2
RRT -.6263 RRF -.9953 RTF .6979
SGB 3939.5 R23 -.0768 R13 -.9970
SG1 3895.6 SG2 586.3 THA 97.16

ORBIT DETERMINATION ACCURACY
ST 372.0 SR 1975.3 SS 730.5
CRT .4167 CRS .9921 CST .2991
LSA 2109.7 MSA 350.4 SSA .6
EL1 1981.5 EL2 337.1 ALF 85.38

LAUNCH DATE JUN 21 1967 FLIGHT TIME 142.00 ARRIVAL DATE NOV 10 1967

HELIOCENTRIC CONIC DISTANCE 399.663

RL 152.02 LAL -.00 LOL 268.96 VL 26.920 GAL -2.61 AZL 111.30 HCA 182.39 SMA 129.95 ECC .17572 INC21.2977 V1 29.306
RP 107.65 LAP .87 LOP 91.19 VP 38.006 GAP 2.20 AZP 68.72 TAL 192.42 TAP 14.81 RCA 107.11 APO 152.78 V2 35.204
RC 103.470 GL -65.47 GP 81.03 ZAL 97.18 ZAP 97.79 ETS 80.28 ZAE 92.17 ETE 169.69 ZAC 83.13 ETC 75.73 CLP-150.35

PLANETOCENTRIC CONIC

C3 115.301 VHL 10.738 DLA -51.45 RAL 129.16 RAD 6570.2 VEL 15.383 PTH 2.75 VHP 11.883 DPA 73.40 RAP 265.40 ECC 2.8976

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
45.06	3 45 48	2086.25	12.82	54.87	28.70	140.28	4 20 35	1486.3	18.91	49.89
134.94	12 21 6	5826.94	12.83	270.08	28.72	140.27	13 58 13	5226.9	18.92	265.10
45.06	3 45 48	2086.25	12.82	54.87	28.70	140.28	4 20 35	1486.3	18.91	49.89
134.94	12 21 6	5826.94	12.83	270.08	28.72	140.27	13 58 13	5226.9	18.92	265.10
45.06	3 45 48	2086.25	12.82	54.87	28.70	140.28	4 20 35	1486.3	18.91	49.89
134.94	12 21 6	5826.94	12.83	270.08	28.72	140.27	13 58 13	5226.9	18.92	265.10

DIFFERENTIAL CORRECTIONS
TDE-6.2854 TRA-2.2093 TC3 -.1220 BAU .1882
RDE .2798 RRA -.7864 RC3 .0063 FAU .00740
FDE-2.3596 FRA -.6578 FC3 -.0556 BSP 10207
BDE 6.2916 BRA 2.3451 BC3 .1221 FSP -318

MID-COURSE EXECUTION ACCURACY
SGT 3859.5 SGR 689.8 SG3 119.6
RRT .2891 RRF .1986 RTF .9955
SGB 3920.7 R23 -.1022 R13 .9947
SG1 3864.8 SG2 659.5 THA 3.05

ORBIT DETERMINATION ACCURACY
ST 3401.5 SR 251.2 SS 1304.2
CRT -.4519 CRS .4821 CST -.9994
LSA 3644.5 MSA 227.3 SSA .7
EL1 3403.4 EL2 224.0 ALF 178.08

LAUNCH DATE JUN 21 1967 FLIGHT TIME 144.00 ARRIVAL DATE NOV 12 1967

HELIOCENTRIC CONIC DISTANCE 405.815

RL 152.02 LAL -.00 LOL 268.96 VL 26.898 GAL -2.46 AZL 100.92 HCA 185.56 SMA 129.80 ECC .17638 INC10.9201 V1 29.306
RP 107.62 LAP 1.05 LOP 94.42 VP 37.998 GAP 2.55 AZP 79.13 TAL 191.60 TAP 17.16 RCA 106.90 APO 152.69 V2 35.212
RC 105.723 GL -57.99 GP 59.04 ZAL 102.19 ZAP 108.13 ETS 35.48 ZAE 112.80 ETE 130.99 ZAC 91.42 ETC 33.66 CLP-127.23

PLANETOCENTRIC CONIC

C3 36.051 VHL 6.004 DLA -43.67 RAL 131.82 RAD 6568.4 VEL 12.547 PTH 2.27 VHP 5.888 DPA 66.60 RAP 195.72 ECC 1.5933

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.26	4 32 4	1722.87	23.43	30.89	14.80	127.96	5 0 47	1122.9	28.18	24.15
124.74	11 56 2	5641.37	23.45	263.23	14.81	127.96	13 30 3	5041.4	28.20	256.50
55.26	4 32 4	1722.87	23.43	30.89	14.80	127.96	5 0 47	1122.9	28.18	24.15
124.74	11 56 2	5641.37	23.45	263.23	14.81	127.96	13 30 3	5041.4	28.20	256.50
55.26	4 32 4	1722.87	23.43	30.89	14.80	127.96	5 0 47	1122.9	28.18	24.15
124.74	11 56 2	5641.37	23.45	263.23	14.81	127.96	13 30 3	5041.4	28.20	256.50

DIFFERENTIAL CORRECTIONS
TDE-2.5507 TRA-1.4169 TC3-1.0176 BAU .5698
RDE 1.9375 RRA .4390 RC3 .6019 FAU .05038
FDE-3.4023 FRA -.9889 FC3-1.2099 BSP 11865
BDE 3.2032 BRA 1.4833 BC3 1.1823 FSP -1020

MID-COURSE EXECUTION ACCURACY
SGT 3303.2 SGR 2068.0 SG3 327.3
RRT -.9466 RRF -.9967 RTF .9682
SGB 3897.1 R23 .1605 R13 -.9866
SG1 3855.0 SG2 571.3 THA 148.58

ORBIT DETERMINATION ACCURACY
ST 2498.1 SR 1857.2 SS 1663.6
CRT -.9912 CRS .9997 CST -.9943
LSA 3522.9 MSA 215.9 SSA 1.5
EL1 3106.5 EL2 197.7 ALF 143.44

LAUNCH DATE JUN 21 1967 FLIGHT TIME 146.00 ARRIVAL DATE NOV 14 1967

HELIOCENTRIC CONIC DISTANCE 412.001

RL 152.02 LAL -.00 LOL 268.96 VL 26.874 GAL -2.30 AZL 98.10 HCA 188.78 SMA 129.63 ECC .17719 INC 8.0986 V1 29.306
RP 107.60 LAP 1.23 LOP 97.66 VP 37.988 GAP 2.91 AZP 81.99 TAL 190.78 TAP 19.57 RCA 106.66 APO 152.60 V2 35.220
RC 107.975 GL -51.85 GP 44.10 ZAL 104.36 ZAP 116.59 ETS 30.50 ZAE 124.17 ETE 135.72 ZAC 97.88 ETC 30.14 CLP-128.56

PLANETOCENTRIC CONIC

C3 23.141 VHL 4.811 DLA -38.22 RAL 135.58 RAD 6567.9 VEL 12.022 PTH 2.15 VHP 4.602 DPA 54.80 RAP 176.38 ECC 1.3808

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.18	5 22 12	1514.49	24.80	14.03	9.64	120.07	5 47 27	914.5	28.60	6.56
116.82	11 35 57	5628.63	24.82	263.16	9.65	120.06	13 9 46	5028.6	28.61	255.69
63.18	5 22 12	1514.49	24.80	14.03	9.64	120.07	5 47 27	914.5	28.60	6.56
116.82	11 35 57	5628.63	24.82	263.16	9.65	120.06	13 9 46	5028.6	28.61	255.69
63.18	5 22 12	1514.49	24.80	14.03	9.64	120.07	5 47 27	914.5	28.60	6.56
116.82	11 35 57	5628.63	24.82	263.16	9.65	120.06	13 9 46	5028.6	28.61	255.69

DIFFERENTIAL CORRECTIONS
TDE-2.0240 TRA-1.1584 TC3-1.8171 BAU .6196
RDE 1.2036 RRA .2643 RC3 .8418 FAU .08474
FDE-3.9837 FRA-1.0657 FC3-3.1702 BSP 11996
BDE 2.3549 BRA 1.1881 BC3 2.0026 FSP -1636

MID-COURSE EXECUTION ACCURACY
SGT 3457.2 SGR 1694.5 SG3 506.9
RRT -.9517 RRF -.9977 RTF .9666
SGB 3850.1 R23 .1962 R13 -.9798
SG1 3821.2 SG2 470.7 THA 154.58

ORBIT DETERMINATION ACCURACY
ST 2468.2 SR 1438.8 SS 1896.7
CRT -.9914 CRS .9998 CST -.9936
LSA 3423.0 MSA 206.5 SSA 2.1
EL1 2852.2 EL2 163.3 ALF 149.87

LAUNCH DATE JUN 21 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 16 1967

HELIOCENTRIC CONIC DISTANCE 418.183

RL 152.02 LAL -.00 LOL 268.96 VL 26.848 GAL -2.13 AZL 96.79 HCA 192.02 SMA 129.46 ECC .17812 INC 6.7850 V1 29.306
RP 107.58 LAP 1.41 LOP 100.89 VP 37.977 GAP 3.27 AZP 83.36 TAL 189.92 TAP 21.94 RCA 106.40 APO 152.52 V2 35.227
RC 110.226 GL -47.67 GP 34.05 ZAL 105.06 ZAP 123.03 ETS 27.28 ZAE 130.26 ETE 142.73 ZAC 102.09 ETC 27.84 CLP-131.14

PLANETOCENTRIC CONIC

C3 18.387 VHL 4.288 DLA -34.78 RAL 138.64 RAD 6567.7 VEL 11.822 PTH 2.09 VHP 4.192 DPA 45.94 RAP 168.90 ECC 1.3026

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.91	6 5 13	1368.17	24.41	2.03	7.81	115.57	6 28 1	768.2	27.64	354.30
111.09	11 17 20	5664.92	24.42	265.84	7.82	115.56	12 51 45	5064.9	27.65	258.11
68.91	6 5 13	1368.17	24.41	2.03	7.81	115.57	6 28 1	768.2	27.64	354.30
111.09	11 17 20	5664.92	24.42	265.84	7.82	115.56	12 51 45	5064.9	27.65	258.11
68.91	6 5 13	1368.17	24.41	2.03	7.81	115.57	6 28 1	768.2	27.64	354.30
111.09	11 17 20	5664.92	24.42	265.84	7.82	115.56	12 51 45	5064.9	27.65	258.11

DIFFERENTIAL CORRECTIONS
TDE-1.8012 TRA -.9989 TC3-2.4220 BAU .6258
RDE .7940 RRA .1359 RC3 .7840 FAU .09888
FDE-3.9425 FRA -.8569 FC3-4.6558 BSP 11350
BDE 1.9684 BRA 1.0081 BC3 2.5457 FSP -1784

MID-COURSE EXECUTION ACCURACY
SGT 3570.3 SGR 1275.4 SG3 583.7
RRT -.9464 RRF -.9961 RTF .9634
SGB 3791.3 R23 .2267 R13 -.9720
SG1 3771.1 SG2 390.1 THA 161.11

ORBIT DETERMINATION ACCURACY
ST 2456.4 SR 1063.2 SS 1914.3
CRT -.9906 CRS .9999 CST -.9927
LSA 3284.3 MSA 204.1 SSA 3.0
EL1 2673.2 EL2 133.9 ALF 156.73

LAUNCH DATE JUN 21 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 18 1967

DISTANCE 424.345

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 26.821 GAL -1.96 AZL 96.02 HCA 195.25 SMA 129.27 ECC .17917 INC 6.0222 V1 29.306
RP 107.56 LAP 1.58 LOP 104.13 VP 37.963 GAP 3.62 AZP 84.19 TAL 189.02 TAP 24.28 RCA 106.11 APO 152.43 V2 35.233
RC 112.475 GL -44.70 GP 27.16 ZAL 104.94 ZAP 128.06 ETS 24.77 ZAE 133.25 ETE 149.32 ZAC 104.68 ETC 25.92 CLP-133.86

PLANETOCENTRIC CONIC
C3 15.987 VHL 3.998 DLA -32.55 RAL 141.28 RAD 6567.6 VEL 11.721 PTH 2.07 VHP 4.066 DPA 39.57 RAP 165.22 ECC 1.2631

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.24	6 42 27	1253.96	23.81	352.88	7.51	112.87	7 3 21	654.0	26.70	345.04
106.76	11 1 8	5714.56	23.82	269.40	7.52	112.86	12 36 22	5114.6	26.71	261.56
73.24	6 42 27	1253.96	23.81	352.88	7.51	112.87	7 3 21	654.0	26.70	345.04
106.76	11 1 8	5714.56	23.82	269.40	7.52	112.86	12 36 22	5114.6	26.71	261.56
110.00	10 1 35	610.39	17.27	302.17	4.04	119.97	10 11 46	10.4	21.12	295.17
110.00	12 41 10	5406.13	30.72	248.33	10.24	105.79	14 11 16	4806.1	32.58	239.60

DIFFERENTIAL CORRECTIONS
TDE-1.7215 TRA -.9161 TC3-2.9935 BAU .6566
RDE .5796 RRA .0816 RC3 .6899 FAU .10729
FDE-3.7950 FRA -.6986 FC3-5.8100 BSP 11915
BDE 1.8164 BRA .9197 BC3 3.0720 FSP -1974

MID-COURSE EXECUTION ACCURACY
SGT 3773.7 SGR 1006.7 SG3 626.4
RRT -.9438 RRF -.9925 RTF .9644
SGB 3905.7 R23 .2289 R13 -.9694
SG1 3892.3 SG2 322.6 THA 165.77

ORBIT DETERMINATION ACCURACY
ST 2511.7 SR 831.8 SS 1915.2
CRT -.9906 CRS .9999 CST -.9926
LSA 3260.2 MSA 199.6 SSA 4.0
EL1 2643.6 EL2 108.2 ALF 161.81

LAUNCH DATE JUN 21 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 20 1967

DISTANCE 430.492

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 26.792 GAL -1.77 AZL 95.52 HCA 198.49 SMA 129.08 ECC .18033 INC 5.5214 V1 29.306
RP 107.54 LAP 1.75 LOP 107.37 VP 37.948 GAP 3.97 AZP 84.76 TAL 188.08 TAP 26.58 RCA 105.80 APO 152.36 V2 35.239
RC 114.720 GL -42.49 GP 22.26 ZAL 104.30 ZAP 132.16 ETS 22.76 ZAE 134.52 ETE 154.84 ZAC 106.17 ETC 24.28 CLP-136.49

PLANETOCENTRIC CONIC
C3 14.554 VHL 3.815 DLA -31.09 RAL 143.71 RAD 6567.6 VEL 11.659 PTH 2.05 VHP 4.060 DPA 34.89 RAP 163.28 ECC 1.2395

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.59	7 14 59	1161.44	23.33	345.64	8.04	111.16	7 34 20	561.4	25.99	337.76
103.41	10 48 1	5764.89	23.34	273.01	8.05	111.15	12 24 6	5164.9	26.00	265.12
76.59	7 14 59	1161.44	23.33	345.64	8.04	111.16	7 34 20	561.4	25.99	337.76
103.41	10 48 1	5764.89	23.34	273.01	8.05	111.15	12 24 6	5164.9	26.00	265.12
110.00	9 41 50	683.90	14.72	306.35	3.57	121.21	9 53 14	83.9	18.74	299.54
110.00	13 20 20	5290.44	32.55	239.81	11.06	101.06	14 48 30	4690.4	33.73	230.78

DIFFERENTIAL CORRECTIONS
TDE-1.6848 TRA -.8392 TC3-3.4699 BAU .6839
RDE .4452 RRA .0468 RC3 .5604 FAU .10804
FDE-3.5524 FRA -.5025 FC3-6.4269 BSP 12347
BDE 1.7427 BRA .8405 BC3 3.5148 FSP -2003

MID-COURSE EXECUTION ACCURACY
SGT 3946.9 SGR 797.9 SG3 630.7
RRT -.9351 RRF -.9849 RTF .9642
SGB 4026.8 R23 .2224 R13 -.9672
SG1 4017.2 SG2 277.9 THA 169.24

ORBIT DETERMINATION ACCURACY
ST 2569.9 SR 669.1 SS 1874.7
CRT -.9907 CRS .9999 CST -.9924
LSA 3244.7 MSA 196.3 SSA 5.0
EL1 2654.1 EL2 88.1 ALF 165.52

LAUNCH DATE JUN 21 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 22 1967

DISTANCE 436.622

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 26.762 GAL -1.57 AZL 95.17 HCA 201.74 SMA 128.88 ECC .18160 INC 5.1657 V1 29.306
RP 107.52 LAP 1.91 LOP 110.62 VP 37.932 GAP 4.32 AZP 85.20 TAL 187.10 TAP 28.84 RCA 105.47 APO 152.28 V2 35.244
RC 116.961 GL -40.76 GP 18.66 ZAL 103.30 ZAP 135.65 ETS 21.13 ZAE 134.87 ETE 159.25 ZAC 106.92 ETC 22.88 CLP-139.00

PLANETOCENTRIC CONIC
C3 13.611 VHL 3.689 DLA -30.15 RAL 146.06 RAD 6567.5 VEL 11.619 PTH 2.04 VHP 4.114 DPA 31.31 RAP 162.32 ECC 1.2240

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.18	7 43 17	1086.74	23.00	339.91	9.09	110.05	8 1 23	486.7	25.52	332.00
100.82	10 38 29	5810.09	23.01	276.26	9.10	110.04	12 15 19	5210.1	25.53	268.34
79.18	7 43 17	1086.74	23.00	339.91	9.09	110.05	8 1 23	486.7	25.52	332.00
100.82	10 38 29	5810.09	23.01	276.26	9.10	110.04	12 15 19	5210.1	25.53	268.34
110.00	9 35 59	719.35	13.46	308.32	4.23	121.72	9 47 59	119.4	17.56	301.61
110.00	13 44 57	5225.47	33.29	234.89	12.03	98.23	15 12 2	4625.5	34.07	225.74

DIFFERENTIAL CORRECTIONS
TDE-1.6761 TRA -.7663 TC3-3.8867 BAU .7116
RDE .3586 RRA .0265 RC3 .4342 FAU .10534
FDE-3.3014 FRA -.3150 FC3-6.7006 BSP 12797
BDE 1.7140 BRA .7668 BC3 3.9109 FSP -1967

MID-COURSE EXECUTION ACCURACY
SGT 4110.3 SGR 644.3 SG3 617.3
RRT -.9191 RRF -.9703 RTF .9637
SGB 4160.5 R23 .2059 R13 -.9656
SG1 4152.9 SG2 251.2 THA 171.77

ORBIT DETERMINATION ACCURACY
ST 2637.0 SR 557.2 SS 1824.2
CRT -.9912 CRS .9999 CST -.9923
LSA 3248.8 MSA 192.9 SSA 6.1
EL1 2694.2 EL2 72.1 ALF 168.16

LAUNCH DATE JUN 21 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 24 1967

DISTANCE 442.735

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 26.731 GAL -1.36 AZL 94.90 HCA 204.98 SMA 128.67 ECC .18299 INC 4.8984 V1 29.306
RP 107.51 LAP 2.07 LOP 113.86 VP 37.914 GAP 4.67 AZP 85.56 TAL 186.09 TAP 31.07 RCA 105.12 APO 152.22 V2 35.248
RC 119.197 GL -39.35 GP 15.93 ZAL 102.02 ZAP 138.69 ETS 19.81 ZAE 134.71 ETE 162.74 ZAC 107.13 ETC 21.68 CLP-141.36

PLANETOCENTRIC CONIC
C3 12.952 VHL 3.599 DLA -29.57 RAL 148.40 RAD 6567.5 VEL 11.590 PTH 2.03 VHP 4.201 DPA 28.47 RAP 161.98 ECC 1.2132

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.11	8 7 18	1029.05	22.82	335.55	10.52	109.33	8 24 27	429.1	25.25	327.62
98.89	10 33 7	5846.26	22.83	278.88	10.52	109.32	12 10 33	5246.3	25.26	270.94
100.00	10 4 41	649.20	20.17	306.63	9.43	112.54	10 15 30	49.2	23.05	299.01
100.00	11 18 25	5701.35	25.53	269.07	11.47	106.11	12 53 26	5101.4	27.49	260.82
110.00	9 36 48	737.11	12.82	309.30	5.48	121.96	9 49 5	137.1	16.95	302.63
110.00	14 2 47	5186.20	33.64	231.88	13.33	96.48	15 29 14	4586.2	34.17	222.67

DIFFERENTIAL CORRECTIONS
TDE-1.6843 TRA -.6916 TC3-4.2545 BAU .7388
RDE .3012 RRA .0151 RC3 .3211 FAU .10101
FDE-3.0671 FRA -.1429 FC3-6.7519 BSP 13244
BDE 1.7110 BRA .6918 BC3 4.2667 FSP -1902

MID-COURSE EXECUTION ACCURACY
SGT 4262.7 SGR 533.0 SG3 595.7
RRT -.8929 RRF -.9448 RTF .9632
SGB 4295.9 R23 .1823 R13 -.9644
SG1 4289.3 SG2 238.6 THA 173.61

ORBIT DETERMINATION ACCURACY
ST 2709.8 SR 479.6 SS 1773.3
CRT -.9922 CRS .9999 CST -.9922
LSA 3268.3 MSA 189.3 SSA 7.2
EL1 2751.3 EL2 58.8 ALF 170.04

LAUNCH DATE JUN 21 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 26 1967

HELIOCENTRIC CONIC DISTANCE 448.829

```
RL  152.02 LAL   -.00 LOL 268.96 VL  26.699 GAL  -1.14 AZL  94.69 HCA 208.23 SMA 128.46 ECC .18451 INC 4.6890 VI  29.306
RP  107.50 LAP   2.22 LOP 117.11 VP  37.895 GAP   5.01 AZP  85.87 TAL 185.04 TAP  33.26 RCA 104.75 APO 152.16 V2  35.252
RC 121.426 GL  -38.15 GP   13.81 ZAL 100.53 ZAP 141.39 ETS  18.72 ZAE 134.31 ETE 165.49 ZAC 106.94 ETC  20.63 CLP-143.58
```

PLANETOCENTRIC CONIC

```
C3  12.478 VHL  3.532 DLA -29.24 RAL 150.76 RAD 6567.5 VEL 11.570 PTH   2.02 VHP  4.309 DPA  26.14 RAP 162.09 ECC 1.2053
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.37	8 26 38	989.28	22.75	332.59	12.23	108.88	8 43 8	389.3	25.12	324.64
97.63	10 32 38	5870.06	22.77	280.61	12.24	108.87	12 10 28	5270.1	25.13	272.67
100.00	9 58 46	690.70	19.07	309.21	10.71	113.47	10 10 16	90.7	22.08	301.71
100.00	11 43 12	5643.87	26.55	265.11	13.48	104.26	13 17 16	5043.9	28.25	256.72
110.00	9 41 43	744.36	12.56	309.70	7.15	122.06	9 54 7	144.4	16.70	303.05
110.00	14 16 44	5162.98	33.80	230.08	14.93	95.43	15 42 47	4563.0	34.18	220.86

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.7055 TRA -.6148 TC3-4.5815 BAU  .7652   SGT 4408.5 SGR  454.0 SG3  570.2      ST  2789.2 SR   425.7 SS  1726.1
RDE  .2624 RRA  .0097 RC3  .2224 FAU .09586   RRT -.8526 RRF -.9045 RTF  .9627     CRT -.9936 CRS  .9997 CST -.9923
FDE-2.8573 FRA  .0088 FC3-6.6514 BSP  13711   SGB 4431.8 R23  .1556 R13 -.9635     LSA 3302.4 MSA  185.2 SSA    8.2
BDE 1.7255 BRA  .6149 BC3 4.5869 FSP  -1827   SGI 4425.5 SG2  236.4 THA 174.97     ELI 2821.1 EL2   47.5 ALF 171.38
```

LAUNCH DATE JUN 21 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 28 1967

HELIOCENTRIC CONIC DISTANCE 454.906

```
RL  152.02 LAL   -.00 LOL 268.96 VL  26.666 GAL   -.90 AZL  94.52 HCA 211.47 SMA 128.24 ECC .18614 INC 4.5196 VI  29.306
RP  107.49 LAP   2.36 LOP 120.35 VP  37.874 GAP   5.35 AZP  86.14 TAL 183.96 TAP  35.43 RCA 104.37 APO 152.11 V2  35.255
RC 123.648 GL  -37.09 GP   12.12 ZAL  98.85 ZAP 143.84 ETS  17.81 ZAE 133.78 ETE 167.68 ZAC 106.43 ETC  19.70 CLP-145.67
```

PLANETOCENTRIC CONIC

```
C3  12.135 VHL  3.484 DLA -29.11 RAL 153.18 RAD 6567.5 VEL 11.555 PTH   2.02 VHP  4.430 DPA  24.15 RAP 162.53 ECC 1.1997
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.96	8 40 57	968.37	22.78	331.05	14.20	108.63	8 57 6	368.4	25.11	323.10
97.04	10 37 37	5879.16	22.79	281.29	14.21	108.61	12 15 37	5279.2	25.12	273.33
100.00	10 3 13	701.61	18.77	309.89	12.54	113.70	10 14 55	101.6	21.82	302.41
100.00	11 58 3	5621.14	26.92	263.52	15.52	103.50	13 31 44	5021.1	28.51	255.08
110.00	9 49 32	744.68	12.55	309.72	9.12	122.06	10 1 57	144.7	16.69	303.06
110.00	14 28 13	5150.84	33.88	229.14	16.82	94.88	15 54 4	4550.8	34.18	219.91

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.7343 TRA -.5293 TC3-4.8640 BAU  .7894   SGT 4540.2 SGR  399.7 SG3  542.7      ST  2870.0 SR   387.9 SS  1680.9
RDE  .2358 RRA  .0076 RC3  .1368 FAU .09024   RRT -.7956 RRF -.8467 RTF  .9619     CRT -.9952 CRS  .9993 CST -.9923
FDE-2.6682 FRA  .1524 FC3-6.4381 BSP  14084   SGB 4557.8 R23  .1309 R13 -.9623     LSA 3343.6 MSA  181.4 SSA    9.4
BDE 1.7503 BRA  .5294 BC3 4.8659 FSP  -1732   SGI 4551.4 SG2  241.6 THA 175.98     ELI 2895.8 EL2   37.4 ALF 172.34
```

LAUNCH DATE JUN 21 1967 FLIGHT TIME 162.00 ARRIVAL DATE NOV 30 1967

HELIOCENTRIC CONIC DISTANCE 460.963

```
RL  152.02 LAL   -.00 LOL 268.96 VL  26.632 GAL   -.66 AZL  94.38 HCA 214.72 SMA 128.01 ECC .18790 INC 4.3789 VI  29.306
RP  107.48 LAP   2.49 LOP 123.60 VP  37.852 GAP   5.69 AZP  86.40 TAL 182.84 TAP  37.56 RCA 103.96 APO 152.07 V2  35.257
RC 125.861 GL  -36.13 GP   10.76 ZAL  97.01 ZAP 146.08 ETS  17.05 ZAE 133.21 ETE 169.43 ZAC 105.68 ETC  18.88 CLP-147.64
```

PLANETOCENTRIC CONIC

```
C3  11.894 VHL  3.449 DLA -29.11 RAL 155.67 RAD 6567.5 VEL 11.545 PTH   2.01 VHP  4.562 DPA  22.41 RAP 163.22 ECC 1.1957
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.93	8 50 43	964.69	22.88	330.82	16.40	108.52	9 6 48	364.7	25.19	322.85
97.07	10 47 44	5874.38	22.89	280.98	16.40	108.50	12 25 38	5274.4	25.20	273.01
100.00	10 13 20	696.78	18.90	309.59	14.76	113.60	10 24 57	96.8	21.93	302.10
100.00	12 7 48	5617.52	26.98	263.27	17.69	103.38	13 41 25	5017.5	28.55	254.82
110.00	9 59 32	740.22	12.71	309.47	11.37	122.00	10 11 52	140.2	16.84	302.81
110.00	14 38 5	5146.84	33.90	228.83	18.97	94.70	16 3 52	4546.8	34.18	219.60

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.7715 TRA -.4417 TC3-5.1219 BAU  .8145   SGT 4674.2 SGR  365.6 SG3  517.0      ST  2955.7 SR   362.4 SS  1641.4
RDE  .2181 RRA  .0086 RC3  .0663 FAU .08507   RRT -.7267 RRF -.7744 RTF  .9616     CRT -.9969 CRS  .9984 CST -.9925
FDE-2.5035 FRA  .2711 FC3-6.1922 BSP  14542   SGB 4688.5 R23  .1071 R13 -.9620     LSA 3395.7 MSA  176.5 SSA   10.4
BDE 1.7849 BRA  .4417 BC3 5.1224 FSP  -1658   SGI 4681.8 SG2  250.7 THA 176.74     ELI 2977.7 EL2   28.3 ALF 173.03
```

LAUNCH DATE JUN 21 1967 FLIGHT TIME 164.00 ARRIVAL DATE DEC 2 1967

HELIOCENTRIC CONIC DISTANCE 467.002

```
RL  152.02 LAL   -.00 LOL 268.96 VL  26.597 GAL   -.40 AZL  94.26 HCA 217.97 SMA 127.79 ECC .18980 INC 4.2595 VI  29.306
RP  107.48 LAP   2.62 LOP 126.85 VP  37.829 GAP   6.03 AZP  86.64 TAL 181.70 TAP  39.67 RCA 103.53 APO 152.04 V2  35.258
RC 128.066 GL  -35.21 GP    9.64 ZAL  95.03 ZAP 148.15 ETS  16.42 ZAE 132.63 ETE 170.85 ZAC 104.72 ETC  18.14 CLP-149.50
```

PLANETOCENTRIC CONIC

```
C3  11.737 VHL  3.426 DLA -29.22 RAL 158.25 RAD 6567.4 VEL 11.538 PTH   2.01 VHP  4.702 DPA  20.85 RAP 164.12 ECC 1.1932
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.45	8 57 10	974.18	23.02	331.57	18.81	108.52	9 13 24	374.2	25.34	323.59
97.55	11 1 49	5859.32	23.03	279.92	18.81	108.50	12 39 28	5259.3	25.35	271.94
100.00	10 27 48	680.41	19.35	308.58	17.30	113.24	10 39 8	80.4	22.33	301.05
100.00	12 13 52	5628.32	26.81	264.02	20.01	103.74	13 47 40	5028.3	28.43	255.60
110.00	10 11 17	732.38	12.99	309.04	13.85	121.90	10 23 30	132.4	17.11	302.36
110.00	14 46 52	5149.12	33.89	229.01	21.35	94.80	16 12 41	4549.1	34.18	219.78

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.8141 TRA -.3455 TC3-5.3390 BAU  .8378   SGT 4798.5 SGR  346.1 SG3  491.5      ST  3042.4 SR   345.5 SS  1604.8
RDE  .2066 RRA  .0110 RC3  .0065 FAU .07985   RRT -.6492 RRF -.6929 RTF  .9612     CRT -.9983 CRS  .9968 CST -.9927
FDE-2.3571 FRA  .3818 FC3-5.8896 BSP  14970   SGB 4811.0 R23  .0881 R13 -.9615     LSA 3452.8 MSA  171.8 SSA   11.5
BDE 1.8259 BRA  .3457 BC3 5.3390 FSP  -1583   SGI 4803.8 SG2  263.0 THA 177.31     ELI 3061.9 EL2   20.3 ALF 173.53
```

LAUNCH DATE JUN 21 1967 FLIGHT TIME 166.00 ARRIVAL DATE DEC 4 1967

HELIOCENTRIC CONIC DISTANCE 473.021

RL 152.02 LAL -.00 LOL 268.96 VL 26.562 GAL -.13 AZL 94.16 HCA 221.21 SMA 127.55 ECC .19184 INC 4.1562 V1 29.306
RP 107.48 LAP 2.74 LOP 130.10 VP 37.805 GAP 6.38 AZP 86.87 TAL 180.53 TAP 41.75 RCA 103.08 APO 152.02 V2 35.259
RC 130.261 GL -34.33 GP 8.71 ZAL 92.93 ZAP 150.07 ETS 15.89 ZAE 132.07 ETE 172.02 ZAC 103.59 ETC 17.48 CLP-151.26

PLANETOCENTRIC CONIC

C3 11.655 VHL 3.414 DLA -29.41 RAL 160.91 RAD 6567.4 VEL 11.534 PTH 2.01 VHP 4.849 DPA 19.43 RAP 165.19 ECC 1.1918

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.70	9 1 50	991.79	23.19	332.93	21.41	108.61	9 18 22	391.8	25.52	324.95
98.30	11 18 22	5838.78	23.21	278.46	21.42	108.59	12 55 41	5238.8	25.53	270.47
100.00	10 46 23	653.18	20.07	306.88	20.15	112.63	10 57 16	53.2	22.96	299.27
100.00	12 16 30	5652.63	26.40	265.71	22.47	104.55	13 50 42	5052.6	28.14	257.34
110.00	10 24 27	722.26	13.35	308.48	16.55	121.76	10 36 30	122.3	17.46	301.78
110.00	14 54 55	5156.30	33.84	229.57	23.96	95.13	16 20 51	4556.3	34.18	220.34

DIFFERENTIAL CORRECTIONS
TDE-1.8638 TRA -.2429 TC3-5.5284 BAU .8615
RDE .2001 RRA .0146 RC3 -.0416 FAU .07519
FDE-2.2339 FRA .4784 FC3-5.5850 BSP 15425
BDE 1.8745 BRA .2433 BC3 5.5285 FSP -1522

MID-COURSE EXECUTION ACCURACY
SGT 4924.6 SGR 338.2 SG3 468.9
RRT -.5742 RRF -.6129 RTF .9613
SGB 4936.2 R23 .0722 R13 -.9615
SG1 4928.4 SG2 276.7 THA 177.73

ORBIT DETERMINATION ACCURACY
ST 3133.1 SR 336.0 SS 1575.6
CRT -.9991 CRS .9946 CST -.9930
LSA 3519.1 MSA 166.7 SSA 12.6
EL1 3151.0 EL2 14.5 ALF 173.89

LAUNCH DATE JUN 21 1967 FLIGHT TIME 168.00 ARRIVAL DATE DEC 6 1967

HELIOCENTRIC CONIC DISTANCE 479.020

RL 152.02 LAL -.00 LOL 268.96 VL 26.526 GAL .16 AZL 94.07 HCA 224.46 SMA 127.32 ECC .19403 INC 4.0655 V1 29.306
RP 107.48 LAP 2.85 LOP 133.35 VP 37.779 GAP 6.72 AZP 87.10 TAL 179.34 TAP 43.80 RCA 102.62 APO 152.03 V2 35.259
RC 132.447 GL -33.45 GP 7.93 ZAL 90.71 ZAP 151.87 ETS 15.46 ZAE 131.54 ETE 172.98 ZAC 102.32 ETC 16.88 CLP-152.92

PLANETOCENTRIC CONIC

C3 11.643 VHL 3.412 DLA -29.65 RAL 163.66 RAD 6567.4 VEL 11.534 PTH 2.01 VHP 5.001 DPA 18.10 RAP 166.39 ECC 1.1916

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.82	9 5 58	1013.49	23.38	334.61	24.22	108.77	9 22 51	413.5	25.73	326.62
99.18	11 36 10	5816.65	23.39	276.89	24.22	108.76	13 13 7	5216.7	25.74	268.90
100.00	11 10 23	611.06	21.15	304.21	23.33	111.63	11 20 34	11.1	23.90	296.50
100.00	12 14 26	5694.31	25.66	268.59	25.00	105.89	13 49 20	5094.3	27.59	260.32
110.00	10 38 47	710.74	13.76	307.85	19.45	121.60	10 50 37	110.7	17.85	301.11
110.00	15 2 32	5167.40	33.77	230.42	26.77	95.63	16 28 39	4567.4	34.18	221.20

DIFFERENTIAL CORRECTIONS
TDE-1.9078 TRA -.1262 TC3-5.6468 BAU .8791
RDE .1960 RRA .0181 RC3 -.0852 FAU .06952
FDE-2.0975 FRA .5814 FC3-5.1694 BSP 15656
BDE 1.9178 BRA .1275 BC3 5.6474 FSP -1416

MID-COURSE EXECUTION ACCURACY
SGT 5017.2 SGR 336.0 SG3 441.5
RRT -.4975 RRF -.5327 RTF .9597
SGB 5028.4 R23 .0618 R13 -.9598
SG1 5020.0 SG2 291.3 THA 178.09

ORBIT DETERMINATION ACCURACY
ST 3206.4 SR 329.3 SS 1529.6
CRT -.9991 CRS .9913 CST -.9930
LSA 3564.0 MSA 163.4 SSA 13.7
EL1 3223.2 EL2 13.9 ALF 174.14

LAUNCH DATE JUN 21 1967 FLIGHT TIME 170.00 ARRIVAL DATE DEC 8 1967

HELIOCENTRIC CONIC DISTANCE 484.999

RL 152.02 LAL -.00 LOL 268.96 VL 26.489 GAL .46 AZL 93.98 HCA 227.71 SMA 127.09 ECC .19638 INC 3.9848 V1 29.306
RP 107.48 LAP 2.95 LOP 136.60 VP 37.753 GAP 7.06 AZP 87.32 TAL 178.13 TAP 45.84 RCA 102.13 APO 152.04 V2 35.258
RC 134.624 GL -32.56 GP 7.26 ZAL 88.40 ZAP 153.56 ETS 15.11 ZAE 131.04 ETE 173.78 ZAC 100.93 ETC 16.33 CLP-154.51

PLANETOCENTRIC CONIC

C3 11.699 VHL 3.420 DLA -29.92 RAL 166.49 RAD 6567.4 VEL 11.536 PTH 2.01 VHP 5.160 DPA 16.84 RAP 167.71 ECC 1.1925

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.91	9 10 16	1036.90	23.56	336.42	27.20	108.99	9 27 33	436.9	25.94	328.42
100.09	11 54 29	5795.25	23.57	275.37	27.20	108.98	13 31 5	5195.2	25.95	267.37
79.91	9 10 16	1036.90	23.56	336.42	27.20	108.99	9 27 33	436.9	25.94	328.42
100.09	11 54 29	5795.25	23.57	275.37	27.20	108.98	13 31 5	5195.2	25.95	267.37
110.00	10 54 1	698.57	14.20	307.17	22.55	121.43	11 5 40	98.6	18.25	300.40
110.00	15 9 55	5181.57	33.67	231.52	29.78	96.27	16 36 16	4581.6	34.17	222.31

DIFFERENTIAL CORRECTIONS
TDE-1.9599 TRA -.0066 TC3-5.7571 BAU .9006
RDE .1956 RRA .0228 RC3 -.1161 FAU .06523
FDE-1.9882 FRA .6599 FC3-4.8267 BSP 16064
BDE 1.9697 BRA .0238 BC3 5.7583 FSP -1358

MID-COURSE EXECUTION ACCURACY
SGT 5127.3 SGR 340.1 SG3 419.9
RRT -.4379 RRF -.4676 RTF .9600
SGB 5138.6 R23 .0508 R13 -.9601
SG1 5129.5 SG2 305.6 THA 178.33

ORBIT DETERMINATION ACCURACY
ST 3285.2 SR 328.0 SS 1495.1
CRT -.9983 CRS .9874 CST -.9933
LSA 3620.8 MSA 158.3 SSA 14.7
EL1 3301.5 EL2 19.0 ALF 174.31

LAUNCH DATE JUN 21 1967 FLIGHT TIME 172.00 ARRIVAL DATE DEC 10 1967

HELIOCENTRIC CONIC DISTANCE 490.956

RL 152.02 LAL -.00 LOL 268.96 VL 26.453 GAL .77 AZL 93.91 HCA 230.95 SMA 126.85 ECC .19889 INC 3.9120 V1 29.306
RP 107.48 LAP 3.04 LOP 139.85 VP 37.726 GAP 7.41 AZP 87.53 TAL 176.89 TAP 47.85 RCA 101.62 APO 152.08 V2 35.256
RC 136.791 GL -31.65 GP 6.69 ZAL 85.99 ZAP 155.15 ETS 14.83 ZAE 130.58 ETE 174.46 ZAC 99.42 ETC 15.83 CLP-156.02

PLANETOCENTRIC CONIC

C3 11.824 VHL 3.439 DLA -30.21 RAL 169.41 RAD 6567.5 VEL 11.542 PTH 2.01 VHP 5.323 DPA 15.64 RAP 169.13 ECC 1.1946

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.02	9 15 10	1060.57	23.73	338.24	30.35	109.26	9 32 51	460.6	26.14	330.24
100.98	12 12 51	5776.03	23.74	274.00	30.36	109.25	13 49 7	5176.0	26.15	266.00
79.02	9 15 10	1060.57	23.73	338.24	30.35	109.26	9 32 51	460.6	26.14	330.24
100.98	12 12 51	5776.03	23.74	274.00	30.36	109.25	13 49 7	5176.0	26.15	266.00
110.00	11 9 57	686.47	14.63	306.49	25.82	121.25	11 21 24	86.5	18.66	299.70
110.00	15 17 15	5198.13	33.54	232.79	32.96	97.01	16 43 53	4598.1	34.15	223.60

DIFFERENTIAL CORRECTIONS
TDE-2.0102 TRA .1269 TC3-5.8041 BAU .9178
RDE .1975 RRA .0272 RC3 -.1412 FAU .06063
FDE-1.8818 FRA .7412 FC3-4.4394 BSP 16308
BDE 2.0199 BRA .1298 BC3 5.8058 FSP -1279

MID-COURSE EXECUTION ACCURACY
SGT 5216.5 SGR 347.1 SG3 397.8
RRT -.3876 RRF -.4134 RTF .9593
SGB 5228.0 R23 .0435 R13 -.9594
SG1 5218.2 SG2 319.9 THA 178.52

ORBIT DETERMINATION ACCURACY
ST 3352.4 SR 329.5 SS 1456.1
CRT -.9966 CRS .9825 CST -.9935
LSA 3666.5 MSA 154.8 SSA 15.6
EL1 3368.4 EL2 27.1 ALF 174.41

LAUNCH DATE JUN 21 1967 FLIGHT TIME 174.00 ARRIVAL DATE DEC 12 1967

HELIOCENTRIC CONIC DISTANCE 496.891
RL 152.02 LAL -.00 LOL 268.96 VL 26.415 GAL 1.10 AZL 93.85 HCA 234.20 SMA 126.61 ECC .20159 INC 3.8456 V1 29.306
RP 107.49 LAP 3.12 LOP 143.10 VP 37.698 GAP 7.76 AZP 87.75 TAL 175.64 TAP 49.84 RCA 101.09 APO 152.13 V2 35.254
RC 138.949 GL -30.72 GP 6.20 ZAL 83.52 ZAP 156.66 ETS 14.62 ZAE 130.16 ETE 175.02 ZAC 97.82 ETC 15.38 CLP-157.46
PLANETOCENTRIC CONIC
C3 12.021 VHL 3.467 DLA -30.49 RAL 172.40 RAD 6567.5 VEL 11.550 PTH 2.02 VHP 5.492 DPA 14.48 RAP 170.64 ECC 1.1978

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.19	9 20 57	1083.60	23.87	340.02	33.67	109.56	9 39 0	483.6	26.32	332.02
101.81	12 30 57	5759.93	23.88	272.85	33.68	109.55	14 6 57	5159.9	26.32	264.86
78.19	9 20 57	1083.60	23.87	340.02	33.67	109.56	9 39 0	483.6	26.32	332.02
101.81	12 30 57	5759.93	23.88	272.85	33.68	109.55	14 6 57	5159.9	26.32	264.86
110.00	11 26 20	675.16	15.02	305.86	29.24	121.07	11 37 36	75.2	19.03	299.03
110.00	15 24 43	5216.36	33.38	234.19	36.31	97.83	16 51 40	4616.4	34.10	225.03

DIFFERENTIAL CORRECTIONS
TDE-2.0644 TRA .2661 TC3-5.8261 BAU .9366
RDE .2018 RRA .0317 RC3 -.1582 FAU .05667
FDE-1.7881 FRA .8107 FC3-4.0814 BSP 16669
BDE 2.0742 BRA .2680 BC3 5.8283 FSP -1224

MID-COURSE EXECUTION ACCURACY
SGT 5312.2 SGR 356.2 SG3 378.2
RRT -.3506 RRF -.3723 RTF .9594
SGB 5324.2 R23 .0369 R13 -.9594
SG1 5313.7 SG2 333.5 THA 178.65

ORBIT DETERMINATION ACCURACY
ST 3417.1 SR 334.0 SS 1420.1
CRT -.9940 CRS .9771 CST -.9937
LSA 3712.3 MSA 151.3 SSA 16.5
EL1 3433.2 EL2 36.2 ALF 174.45

LAUNCH DATE JUN 21 1967 FLIGHT TIME 176.00 ARRIVAL DATE DEC 14 1967

HELIOCENTRIC CONIC DISTANCE 502.802
RL 152.02 LAL -.00 LOL 268.96 VL 26.378 GAL 1.44 AZL 93.78 HCA 237.45 SMA 126.37 ECC .20447 INC 3.7844 V1 29.306
RP 107.50 LAP 3.19 LOP 146.35 VP 37.668 GAP 8.12 AZP 87.96 TAL 174.37 TAP 51.81 RCA 100.53 APO 152.21 V2 35.251
RC 141.095 GL -29.76 GP 5.77 ZAL 80.99 ZAP 158.10 ETS 14.49 ZAE 129.77 ETE 175.50 ZAC 96.14 ETC 14.96 CLP-158.84
PLANETOCENTRIC CONIC
C3 12.293 VHL 3.506 DLA -30.77 RAL 175.45 RAD 6567.5 VEL 11.562 PTH 2.02 VHP 5.667 DPA 13.34 RAP 172.21 ECC 1.2023

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.44	9 27 40	1105.61	23.96	341.70	37.14	109.90	9 46 6	505.6	26.45	333.72
102.56	12 48 35	5747.39	23.97	271.95	37.14	109.88	14 24 22	5147.4	26.46	263.96
77.44	9 27 40	1105.61	23.96	341.70	37.14	109.90	9 46 6	505.6	26.45	333.72
102.56	12 48 35	5747.39	23.97	271.95	37.14	109.88	14 24 22	5147.4	26.46	263.96
110.00	11 42 56	665.34	15.37	305.31	32.81	120.92	11 54 2	65.3	19.35	298.45
110.00	15 32 29	5235.66	33.19	235.67	39.81	98.68	16 59 45	4635.7	34.04	226.53

DIFFERENTIAL CORRECTIONS
TDE-2.1186 TRA .4158 TC3-5.8011 BAU .9538
RDE .2079 RRA .0358 RC3 -.1693 FAU .05281
FDE-1.7004 FRA .8761 FC3-3.7195 BSP 16963
BDE 2.1287 BRA .4173 BC3 5.8036 FSP -1165

MID-COURSE EXECUTION ACCURACY
SGT 5399.9 SGR 366.3 SG3 359.4
RRT -.3234 RRF -.3421 RTF .9594
SGB 5412.3 R23 .0322 R13 -.9594
SG1 5401.2 SG2 346.6 THA 178.74

ORBIT DETERMINATION ACCURACY
ST 3472.3 SR 340.4 SS 1382.9
CRT -.9907 CRS .9711 CST -.9940
LSA 3750.1 MSA 148.7 SSA 17.2
EL1 3488.7 EL2 46.0 ALF 174.45

LAUNCH DATE JUN 21 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 16 1967

HELIOCENTRIC CONIC DISTANCE 508.689
RL 152.02 LAL -.00 LOL 268.96 VL 26.340 GAL 1.80 AZL 93.73 HCA 240.69 SMA 126.13 ECC .20755 INC 3.7275 V1 29.306
RP 107.51 LAP 3.25 LOP 149.60 VP 37.638 GAP 8.48 AZP 88.17 TAL 173.08 TAP 53.77 RCA 99.95 APO 152.31 V2 35.247
RC 143.232 GL -28.77 GP 5.39 ZAL 78.42 ZAP 159.47 ETS 14.42 ZAE 129.41 ETE 175.92 ZAC 94.39 ETC 14.58 CLP-160.16
PLANETOCENTRIC CONIC
C3 12.646 VHL 3.556 DLA -31.01 RAL 178.56 RAD 6567.5 VEL 11.577 PTH 2.02 VHP 5.848 DPA 12.23 RAP 173.85 ECC 1.2081

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.79	9 35 24	1126.34	24.01	343.28	40.74	110.25	9 54 10	526.3	26.54	335.30
103.21	13 5 36	5738.72	24.02	271.32	40.74	110.23	14 41 15	5138.7	26.55	263.34
76.79	9 35 24	1126.34	24.01	343.28	40.74	110.25	9 54 10	526.3	26.54	335.30
103.21	13 5 36	5738.72	24.02	271.32	40.74	110.23	14 41 15	5138.7	26.55	263.34
110.00	11 59 29	657.68	15.64	304.87	36.49	120.79	12 10 27	57.7	19.60	298.00
110.00	15 40 41	5255.38	32.98	237.17	43.45	99.55	17 8 17	4655.4	33.95	228.06

DIFFERENTIAL CORRECTIONS
TDE-2.1683 TRA .5789 TC3-5.7244 BAU .9682
RDE .2157 RRA .0394 RC3 -.1753 FAU .04901
FDE-1.6137 FRA .9403 FC3-3.3555 BSP 17183
BDE 2.1790 BRA .5802 BC3 5.7271 FSP -1105

MID-COURSE EXECUTION ACCURACY
SGT 5474.0 SGR 376.6 SG3 341.0
RRT -.3037 RRF -.3197 RTF .9591
SGB 5486.9 R23 .0285 R13 -.9591
SG1 5475.2 SG2 358.7 THA 178.80

ORBIT DETERMINATION ACCURACY
ST 3510.9 SR 348.3 SS 1341.1
CRT -.9867 CRS .9644 CST -.9941
LSA 3771.5 MSA 147.4 SSA 17.9
EL1 3527.6 EL2 56.4 ALF 174.41

LAUNCH DATE JUN 21 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 18 1967

HELIOCENTRIC CONIC DISTANCE 514.549
RL 152.02 LAL -.00 LOL 268.96 VL 26.302 GAL 2.18 AZL 93.67 HCA 243.94 SMA 125.90 ECC .21085 INC 3.6741 V1 29.306
RP 107.53 LAP 3.30 LOP 152.85 VP 37.608 GAP 8.85 AZP 88.38 TAL 171.78 TAP 55.72 RCA 99.35 APO 152.44 V2 35.243
RC 145.356 GL -27.75 GP 5.06 ZAL 75.82 ZAP 160.78 ETS 14.42 ZAE 129.09 ETE 176.27 ZAC 92.58 ETC 14.23 CLP-161.44
PLANETOCENTRIC CONIC
C3 13.087 VHL 3.618 DLA -31.23 RAL 181.69 RAD 6567.5 VEL 11.596 PTH 2.03 VHP 6.035 DPA 11.13 RAP 175.55 ECC 1.2154

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.25	9 44 6	1145.72	23.99	344.73	44.45	110.62	10 3 12	545.7	26.57	336.77
103.75	13 21 56	5734.09	24.00	270.96	44.46	110.60	14 57 30	5134.1	26.59	263.00
76.25	9 44 6	1145.72	23.99	344.73	44.45	110.62	10 3 12	545.7	26.57	336.77
103.75	13 21 56	5734.09	24.00	270.96	44.46	110.60	14 57 30	5134.1	26.59	263.00
110.00	12 15 44	652.90	15.80	304.60	40.27	120.71	12 26 36	52.9	19.76	297.72
110.00	15 49 29	5274.89	32.75	238.64	47.21	100.39	17 17 24	4674.9	33.84	229.58

DIFFERENTIAL CORRECTIONS
TDE-2.2208 TRA .7488 TC3-5.6198 BAU .9837
RDE .2253 RRA .0425 RC3 -.1760 FAU .04562
FDE-1.5364 FRA .9965 FC3-3.0177 BSP 17461
BDE 2.2322 BRA .7500 BC3 5.6225 FSP -1055

MID-COURSE EXECUTION ACCURACY
SGT 5552.2 SGR 386.9 SG3 324.4
RRT -.2924 RRF -.3063 RTF .9593
SGB 5565.7 R23 .0257 R13 -.9593
SG1 5553.4 SG2 370.0 THA 178.83

ORBIT DETERMINATION ACCURACY
ST 3543.9 SR 357.6 SS 1301.7
CRT -.9821 CRS .9576 CST -.9944
LSA 3789.4 MSA 146.8 SSA 18.3
EL1 3561.3 EL2 67.0 ALF 174.34

LAUNCH DATE JUN 21 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 20 1967

HELIOCENTRIC CONIC DISTANCE 520.380

RL 152.02 LAL -.00 LOL 268.96 VL 26.264 GAL 2.58 AZL 93.62 HCA 247.18 SMA 125.66 ECC .21439 INC 3.6237 V1 29.306
RP 107.54 LAP 3.34 LOP 156.10 VP 37.576 GAP 9.23 AZP 88.59 TAL 170.46 TAP 57.65 RCA 98.72 APO 152.60 V2 35.237
RC 147.469 GL -26.70 GP 4.77 ZAL 73.21 ZAP 162.05 ETS 14.50 ZAE 128.79 ETE 176.57 ZAC 90.71 ETC 13.92 CLP-162.67

PLANETOCENTRIC CONIC

C3 13.625 VHL 3.691 DLA -31.40 RAL 184.85 RAD 6567.5 VEL 11.619 PTH 2.04 VHP 6.229 DPA 10.05 RAP 177.29 ECC 1.2242

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.84	9 53 48	1163.55	23.90	346.04	48.27	110.99	10 13 11	563.6	26.54	338.11
104.16	13 37 24	5733.73	23.91	270.90	48.27	110.98	15 12 58	5133.7	26.55	262.96
75.84	9 53 48	1163.55	23.90	346.04	48.27	110.99	10 13 11	563.6	26.54	338.11
104.16	13 37 24	5733.73	23.91	270.90	48.27	110.98	15 12 58	5133.7	26.55	262.96
110.00	12 31 23	651.64	15.85	304.53	44.12	120.69	12 42 15	51.6	19.80	297.64
110.00	15 58 59	5293.64	32.51	240.05	51.08	101.19	17 27 13	4693.6	33.71	231.02

DIFFERENTIAL CORRECTIONS
TOE-2.2711 TRA .9296 TC3-5.4774 BAU .9982
ROE .2364 RRA .0449 RC3 -.1725 FAU .04242
FOE-1.4630 FRA 1.0494 FC3-2.6954 BSP 17739
BOE 2.2834 BRA .9307 BC3 5.4801 FSP -1010

MID-COURSE EXECUTION ACCURACY
SGT 5624.6 SGR 396.9 SG3 308.6
RRT -.2869 RRF -.2990 RTF .9596
SGB 5638.6 R23 .0235 R13 -.9596
SG1 5625.8 SG2 380.2 THA 178.83

ORBIT DETERMINATION ACCURACY
ST 3563.7 SR 367.8 SS 1260.8
CRT -.9771 CRS .9506 CST -.9946
LSA 3795.1 MSA 147.3 SSA 18.6
EL1 3581.8 EL2 77.8 ALF 174.24

LAUNCH DATE JUN 21 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 22 1967

HELIOCENTRIC CONIC DISTANCE 526.182

RL 152.02 LAL -.00 LOL 268.96 VL 26.226 GAL 2.99 AZL 93.58 HCA 250.43 SMA 125.42 ECC .21818 INC 3.5755 V1 29.306
RP 107.56 LAP 3.37 LOP 159.35 VP 37.544 GAP 9.61 AZP 88.80 TAL 169.14 TAP 59.57 RCA 98.06 APO 152.78 V2 35.231
RC 149.570 GL -25.62 GP 4.51 ZAL 70.60 ZAP 163.26 ETS 14.67 ZAE 128.52 ETE 176.82 ZAC 88.79 ETC 13.63 CLP-163.86

PLANETOCENTRIC CONIC

C3 14.268 VHL 3.777 DLA -31.52 RAL 188.00 RAD 6567.6 VEL 11.647 PTH 2.04 VHP 6.431 DPA 8.98 RAP 179.08 ECC 1.2348

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.55	10 4 20	1180.14	23.74	347.23	52.16	111.37	10 24 0	580.1	26.43	339.32
104.45	13 52 2	5737.42	23.75	271.11	52.17	111.35	15 27 40	5137.4	26.44	263.20
75.55	10 4 20	1180.14	23.74	347.23	52.16	111.37	10 24 0	580.1	26.43	339.32
104.45	13 52 2	5737.42	23.75	271.11	52.17	111.35	15 27 40	5137.4	26.44	263.20
110.00	12 46 14	654.46	15.75	304.69	48.02	120.74	12 57 9	54.5	19.71	297.81
110.00	16 9 18	5311.10	32.27	241.36	55.05	101.93	17 37 50	4711.1	33.58	232.37

DIFFERENTIAL CORRECTIONS
TOE-2.3185 TRA 1.1222 TC3-5.2997 BAU 1.0115
ROE .2489 RRA .0465 RC3 -.1658 FAU .03936
FOE-1.3924 FRA 1.1002 FC3-2.3884 BSP 17984
BOE 2.3318 BRA 1.1231 BC3 5.3023 FSP -965

MID-COURSE EXECUTION ACCURACY
SGT 5690.8 SGR 406.3 SG3 293.6
RRT -.2860 RRF -.2966 RTF .9597
SGB 5705.3 R23 .0218 R13 -.9598
SG1 5692.0 SG2 389.2 THA 178.82

ORBIT DETERMINATION ACCURACY
ST 3569.5 SR 378.4 SS 1218.3
CRT -.9717 CRS .9432 CST -.9947
LSA 3787.6 MSA 149.2 SSA 18.7
EL1 3588.4 EL2 88.8 ALF 174.11

LAUNCH DATE JUN 21 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 24 1967

HELIOCENTRIC CONIC DISTANCE 531.951

RL 152.02 LAL -.00 LOL 268.96 VL 26.188 GAL 3.43 AZL 93.53 HCA 253.67 SMA 125.18 ECC .22224 INC 3.5293 V1 29.306
RP 107.58 LAP 3.39 LOP 162.60 VP 37.511 GAP 10.01 AZP 89.01 TAL 167.81 TAP 61.48 RCA 97.36 APO 153.00 V2 35.225
RC 151.657 GL -24.52 GP 4.28 ZAL 68.01 ZAP 164.43 ETS 14.92 ZAE 128.27 ETE 177.05 ZAC 86.83 ETC 13.38 CLP-165.02

PLANETOCENTRIC CONIC

C3 15.030 VHL 3.877 DLA -31.59 RAL 191.14 RAD 6567.6 VEL 11.680 PTH 2.05 VHP 6.641 DPA 7.91 RAP 180.90 ECC 1.2474

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.38	10 15 43	1195.26	23.50	348.27	56.12	111.74	10 35 38	595.3	26.24	340.40
104.62	14 5 42	5745.43	23.51	271.61	56.12	111.72	15 41 27	5145.4	26.25	263.74
75.38	10 15 43	1195.26	23.50	348.27	56.12	111.74	10 35 38	595.3	26.24	340.40
104.62	14 5 42	5745.43	23.51	271.61	56.12	111.72	15 41 27	5145.4	26.25	263.74
110.00	13 0 4	661.78	15.49	305.10	51.93	120.86	13 11 6	61.8	19.47	298.24
110.00	16 20 31	5326.90	32.04	242.54	59.10	102.59	17 49 18	4726.9	33.44	233.59

DIFFERENTIAL CORRECTIONS
TOE-2.3595 TRA 1.3302 TC3-5.0809 BAU 1.0214
ROE .2627 RRA .0469 RC3 -.1567 FAU .03632
FOE-1.3220 FRA 1.1515 FC3-2.0918 BSP 18132
BOE 2.3741 BRA 1.3311 BC3 5.0834 FSP -917

MID-COURSE EXECUTION ACCURACY
SGT 5745.2 SGR 414.9 SG3 279.2
RRT -.2882 RRF -.2974 RTF .9597
SGB 5760.1 R23 .0204 R13 -.9597
SG1 5746.4 SG2 397.2 THA 178.80

ORBIT DETERMINATION ACCURACY
ST 3557.1 SR 389.0 SS 1172.9
CRT -.9658 CRS .9352 CST -.9948
LSA 3762.5 MSA 152.8 SSA 18.6
EL1 3576.9 EL2 100.3 ALF 173.97

LAUNCH DATE JUN 21 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 26 1967

HELIOCENTRIC CONIC DISTANCE 537.684

RL 152.02 LAL -.00 LOL 268.96 VL 26.150 GAL 3.89 AZL 93.48 HCA 256.91 SMA 124.95 ECC .22660 INC 3.4847 V1 29.306
RP 107.60 LAP 3.39 LOP 165.85 VP 37.477 GAP 10.42 AZP 89.21 TAL 166.47 TAP 63.38 RCA 96.63 APO 153.26 V2 35.217
RC 153.730 GL -23.42 GP 4.07 ZAL 65.44 ZAP 165.57 ETS 15.27 ZAE 128.03 ETE 177.24 ZAC 84.83 ETC 13.15 CLP-166.14

PLANETOCENTRIC CONIC

C3 15.923 VHL 3.990 DLA -31.60 RAL 194.24 RAD 6567.6 VEL 11.718 PTH 2.06 VHP 6.860 DPA 6.85 RAP 182.75 ECC 1.2621

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.35	10 27 51	1209.01	23.18	349.17	60.12	112.11	10 48 0	609.0	25.97	341.34
104.65	14 18 18	5757.70	23.19	272.40	60.13	112.09	15 54 16	5157.7	25.98	264.57
75.35	10 27 51	1209.01	23.18	349.17	60.12	112.11	10 48 0	609.0	25.97	341.34
104.65	14 18 18	5757.70	23.19	272.40	60.13	112.09	15 54 16	5157.7	25.98	264.57
110.00	13 12 43	673.90	15.07	305.79	55.83	121.05	13 23 57	73.9	19.07	298.96
110.00	16 32 37	5340.81	31.83	243.57	63.22	103.17	18 1 38	4740.8	33.32	234.65

DIFFERENTIAL CORRECTIONS
TOE-2.4013 TRA 1.5460 TC3-4.8476 BAU 1.0324
ROE .2778 RRA .0465 RC3 -.1453 FAU .03359
FOE-1.2584 FRA 1.1969 FC3-1.8263 BSP 18358
BOE 2.4174 BRA 1.5467 BC3 4.8497 FSP -878

MID-COURSE EXECUTION ACCURACY
SGT 5800.7 SGR 422.8 SG3 265.8
RRT -.2946 RRF -.3026 RTF .9600
SGB 5816.1 R23 .0193 R13 -.9600
SG1 5802.1 SG2 403.9 THA 178.76

ORBIT DETERMINATION ACCURACY
ST 3537.4 SR 399.6 SS 1129.7
CRT -.9597 CRS .9274 CST -.9949
LSA 3731.5 MSA 157.0 SSA 18.3
EL1 3558.2 EL2 111.7 ALF 173.81

LAUNCH DATE JUN 21 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 28 1967

HELIOCENTRIC CONIC DISTANCE 543.378

RL 152.02 LAL -.00 LOL 268.96 VL 26.112 GAL 4.37 AZL 93.44 HCA 260.15 SMA 124.71 ECC .23129 INC 3.4412 VI 29.306
RP 107.63 LAP 3.39 LOP 169.09 VP 37.443 GAP 10.84 AZP 89.41 TAL 165.12 TAP 65.27 RCA 95.87 APO 153.56 V2 35.210
RC 155.789 GL -22.30 GP 3.89 ZAL 62.91 ZAP 166.67 ETS 15.75 ZAE 127.82 ETE 177.40 ZAC 82.80 ETC 12.96 CLP-167.24

PLANETOCENTRIC CONIC

C3 16.963 VHL 4.119 DLA -31.56 RAL 197.29 RAD 6567.7 VEL 11.762 PTH 2.08 VHP 7.089 DPA 5.80 RAP 184.63 ECC 1.2792

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.44	10 40 42	1221.38	22.78	349.93	64.15	112.46	11 1 3	621.4	25.62	342.14
104.56	14 29 48	5774.27	22.79	273.48	64.16	112.45	16 6 3	5174.3	25.63	265.69
75.44	10 40 42	1221.38	22.78	349.93	64.15	112.46	11 1 3	621.4	25.62	342.14
104.56	14 29 48	5774.27	22.79	273.48	64.16	112.45	16 6 3	5174.3	25.63	265.69
110.00	13 24 7	690.85	14.47	306.74	59.71	121.31	13 35 38	90.9	18.51	299.95
110.00	16 45 33	5352.79	31.64	244.45	67.40	103.66	18 14 46	4752.8	33.20	235.56

DIFFERENTIAL CORRECTIONS
TOE-2.4394 TRA 1.7755 TC3-4.5923 BAU 1.0419
RDE .2941 RRA .0449 RC3 -.1325 FAU .03099
FDE-1.1973 FRA 1.2418 FC3-1.5818 BSP 18557
BDE 2.4571 BRA 1.7760 BC3 4.5942 FSP -840

MID-COURSE EXECUTION ACCURACY
SGT 5850.5 SGR 429.8 SG3 253.1
RRT -.3035 RRF -.3103 RTF .9603
SGB 5866.2 R23 .0183 R13 -.9603
SG1 5851.9 SG2 409.4 THA 178.72

ORBIT DETERMINATION ACCURACY
ST 3505.0 SR 409.8 SS 1086.3
CRT -.9532 CRS .9191 CST -.9950
LSA 3688.7 MSA 162.4 SSA 18.0
EL1 3526.7 EL2 123.1 ALF 173.63

LAUNCH DATE JUN 21 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 30 1967

HELIOCENTRIC CONIC DISTANCE 549.030

RL 152.02 LAL -.00 LOL 268.96 VL 26.073 GAL 4.88 AZL 93.40 HCA 263.39 SMA 124.48 ECC .23632 INC 3.3986 VI 29.306
RP 107.65 LAP 3.38 LOP 172.33 VP 37.409 GAP 11.28 AZP 89.61 TAL 163.78 TAP 67.16 RCA 95.06 APO 153.90 V2 35.201
RC 157.834 GL -21.18 GP 3.72 ZAL 60.44 ZAP 167.74 ETS 16.37 ZAE 127.62 ETE 177.54 ZAC 80.74 ETC 12.79 CLP-168.31

PLANETOCENTRIC CONIC

C3 18.169 VHL 4.262 DLA -31.47 RAL 200.28 RAD 6567.7 VEL 11.813 PTH 2.09 VHP 7.329 DPA 4.75 RAP 186.54 ECC 1.2990

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.67	10 54 10	1232.42	22.30	350.55	68.19	112.80	11 14 42	632.4	25.19	342.81
104.33	14 40 10	5795.08	22.31	274.83	68.20	112.79	16 16 45	5195.1	25.20	267.10
75.67	10 54 10	1232.42	22.30	350.55	68.19	112.80	11 14 42	632.4	25.19	342.81
104.33	14 40 10	5795.08	22.31	274.83	68.20	112.79	16 16 45	5195.1	25.20	267.10
110.00	13 34 15	712.52	13.70	307.94	63.55	121.63	13 46 8	112.5	17.79	301.21
110.00	16 59 14	5362.98	31.48	245.20	71.62	104.07	18 28 37	4763.0	33.09	236.34

DIFFERENTIAL CORRECTIONS
TOE-2.4744 TRA 2.0182 TC3-4.3205 BAU 1.0498
RDE .3116 RRA .0420 RC3 -.1190 FAU .02852
FDE-1.1396 FRA 1.2852 FC3-1.3588 BSP 18746
BDE 2.4939 BRA 2.0186 BC3 4.3221 FSP -805

MID-COURSE EXECUTION ACCURACY
SGT 5894.4 SGR 436.0 SG3 241.2
RRT -.3146 RRF -.3203 RTF .9606
SGB 5910.5 R23 .0175 R13 -.9606
SG1 5896.0 SG2 413.7 THA 178.66

ORBIT DETERMINATION ACCURACY
ST 3461.9 SR 419.3 SS 1043.8
CRT -.9463 CRS .9106 CST -.9951
LSA 3636.1 MSA 168.6 SSA 17.6
EL1 3484.6 EL2 134.6 ALF 173.45

LAUNCH DATE JUN 21 1967 FLIGHT TIME 194.00 ARRIVAL DATE JAN 1 1968

HELIOCENTRIC CONIC DISTANCE 554.634

RL 152.02 LAL -.00 LOL 268.96 VL 26.035 GAL 5.42 AZL 93.36 HCA 266.62 SMA 124.25 ECC .24174 INC 3.3565 VI 29.306
RP 107.68 LAP 3.35 LOP 175.58 VP 37.374 GAP 11.74 AZP 89.80 TAL 162.43 TAP 69.05 RCA 94.21 APO 154.28 V2 35.192
RC 159.863 GL -20.07 GP 3.57 ZAL 58.02 ZAP 168.78 ETS 17.17 ZAE 127.43 ETE 177.66 ZAC 78.66 ETC 12.65 CLP-169.36

PLANETOCENTRIC CONIC

C3 19.561 VHL 4.423 DLA -31.32 RAL 203.19 RAD 6567.8 VEL 11.872 PTH 2.11 VHP 7.582 DPA 3.70 RAP 188.47 ECC 1.3219

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.02	11 8 12	1242.09	21.74	351.02	72.23	113.12	11 28 54	642.1	24.68	343.34
103.98	14 49 18	5820.17	21.75	276.48	72.23	113.11	16 26 18	5220.2	24.69	268.79
76.02	11 8 12	1242.09	21.74	351.02	72.23	113.12	11 28 54	642.1	24.68	343.34
103.98	14 49 18	5820.17	21.75	276.48	72.23	113.11	16 26 18	5220.2	24.69	268.79
110.00	13 43 10	738.61	12.77	309.39	67.33	121.98	13 55 28	138.6	16.90	302.72
110.00	17 13 31	5371.65	31.33	245.83	75.87	104.42	18 43 3	4771.7	32.99	237.00

DIFFERENTIAL CORRECTIONS
TOE-2.5064 TRA 2.2750 TC3-4.0367 BAU 1.0560
RDE .3299 RRA .0378 RC3 -.1052 FAU .02616
FDE-1.0849 FRA 1.3278 FC3-1.1576 BSP 18915
BDE 2.5280 BRA 2.2753 BC3 4.0381 FSP -770

MID-COURSE EXECUTION ACCURACY
SGT 5932.5 SGR 441.2 SG3 229.9
RRT -.3276 RRF -.3322 RTF .9609
SGB 5948.9 R23 .0167 R13 -.9609
SG1 5934.3 SG2 416.7 THA 178.60

ORBIT DETERMINATION ACCURACY
ST 3409.6 SR 427.8 SS 1002.4
CRT -.9391 CRS .9018 CST -.9952
LSA 3575.2 MSA 175.5 SSA 17.1
EL1 3433.2 EL2 146.0 ALF 173.27

LAUNCH DATE JUN 21 1967 FLIGHT TIME 196.00 ARRIVAL DATE JAN 3 1968

HELIOCENTRIC CONIC DISTANCE 560.186

RL 152.02 LAL -.00 LOL 268.96 VL 25.998 GAL 5.98 AZL 93.31 HCA 269.86 SMA 124.02 ECC .24757 INC 3.3148 VI 29.306
RP 107.71 LAP 3.31 LOP 178.82 VP 37.338 GAP 12.22 AZP 89.99 TAL 161.09 TAP 70.94 RCA 93.32 APO 154.72 V2 35.183
RC 161.876 GL -18.96 GP 3.43 ZAL 55.68 ZAP 169.80 ETS 18.19 ZAE 127.25 ETE 177.76 ZAC 76.56 ETC 12.53 CLP-170.39

PLANETOCENTRIC CONIC

C3 21.166 VHL 4.601 DLA -31.13 RAL 206.00 RAD 6567.9 VEL 11.939 PTH 2.12 VHP 7.849 DPA 2.67 RAP 190.41 ECC 1.3483

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.50	11 22 50	1250.18	21.11	351.34	76.25	113.42	11 43 41	650.2	24.09	343.72
103.50	14 57 7	5849.72	21.12	278.41	76.26	113.41	16 34 37	5249.7	24.10	270.79
76.50	11 22 50	1250.18	21.11	351.34	76.25	113.42	11 43 41	650.2	24.09	343.72
103.50	14 57 7	5849.72	21.12	278.41	76.26	113.41	16 34 37	5249.7	24.10	270.79
110.00	13 50 56	768.70	11.67	311.03	71.05	122.36	14 3 44	168.7	15.86	304.43
110.00	17 28 13	5379.20	31.20	246.38	80.13	104.72	18 57 52	4779.2	32.91	237.57

DIFFERENTIAL CORRECTIONS
TOE-2.5322 TRA 2.5504 TC3-3.7399 BAU 1.0586
RDE .3491 RRA .0321 RC3 -.0919 FAU .02380
FDE-1.0312 FRA 1.3720 FC3 -.9737 BSP 18985
BDE 2.5561 BRA 2.5506 BC3 3.7411 FSP -734

MID-COURSE EXECUTION ACCURACY
SGT 5962.7 SGR 445.4 SG3 219.2
RRT -.3415 RRF -.3447 RTF .9611
SGB 5979.3 R23 .0158 R13 -.9612
SG1 [illegible] SG2 [illegible]

ORBIT DETERMINATION ACCURACY
ST 3345.8 SR 435.0 SS 961.2
CRT -.9311 CRS .8920 CST -.9952
LSA 3503.4 MSA 183.3 SSA 16.6
EL1 3370.3 EL2 157.5 ALF 173.08

LAUNCH DATE JUN 21 1967 FLIGHT TIME 198.00 ARRIVAL DATE JAN 5 1968

DISTANCE 565.678

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 25.960 GAL 6.58 AZL 93.27 HCA 273.09 SMA 123.79 ECC .25388 INC 3.2730 V1 29.306
RP 107.74 LAP 3.27 LOP 182.05 VP 37.303 GAP 12.72 AZP 90.18 TAL 159.75 TAP 72.84 RCA 92.37 APO 155.22 V2 35.172
RC 163.875 GL -17.88 GP 3.31 ZAL 53.41 ZAP 170.80 ETS 19.50 ZAE 127.07 ETE 177.85 ZAC 74.44 ETC 12.45 CLP-171.41

PLANETOCENTRIC CONIC
C3 23.012 VHL 4.797 DLA -30.89 RAL 208.72 RAD 6567.9 VEL 12.016 PTH 2.14 VHP 8.132 DPA 1.64 RAP 192.38 ECC 1.3787

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.12	11 38 3	1256.62	20.41	351.50	80.24	113.70	11 58 59	656.6	23.43	343.93
102.88	15 3 35	5883.75	20.42	280.65	80.25	113.69	16 41 38	5283.8	23.45	273.08
77.12	11 38 3	1256.62	20.41	351.50	80.24	113.70	11 58 59	656.6	23.43	343.93
102.88	15 3 35	5883.75	20.42	280.65	80.25	113.69	16 41 38	5283.8	23.45	273.08
110.00	13 57 39	802.37	10.44	312.86	74.71	122.74	14 11 1	202.4	14.68	306.33
110.00	17 43 9	5386.01	31.08	246.88	84.40	105.00	19 12 55	4786.0	32.83	238.09

DIFFERENTIAL CORRECTIONS
TDE-2.5595 TRA 2.8375 TC3-3.4488 BAU 1.0613
RDE .3692 RRA .0250 RC3 -.0788 FAU .02168
FDE -.9834 FRA 1.4135 FC3 -.8158 BSP 19136
BDE 2.5860 BRA 2.8376 BC3 3.4497 FSP -704

MID-COURSE EXECUTION ACCURACY
SGT 5990.8 SGR 448.7 SG3 209.2
RRT -.3574 RRF -.3594 RTF .9617
SGB 6007.6 R23 .0150 R13 -.9617
SG1 5993.0 SG2 418.9 THA 178.46

ORBIT DETERMINATION ACCURACY
ST 3280.2 SR 441.1 SS 923.7
CRT -.9230 CRS .8824 CST -.9953
LSA 3430.8 MSA 190.9 SSA 16.1
EL1 3305.4 EL2 168.4 ALF 172.91

LAUNCH DATE JUN 21 1967 FLIGHT TIME 200.00 ARRIVAL DATE JAN 7 1968

DISTANCE 571.104

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 25.922 GAL 7.21 AZL 93.23 HCA 276.32 SMA 123.57 ECC .26069 INC 3.2311 V1 29.306
RP 107.78 LAP 3.21 LOP 185.29 VP 37.267 GAP 13.24 AZP 90.36 TAL 158.42 TAP 74.74 RCA 91.36 APO 155.78 V2 35.162
RC 165.860 GL -16.81 GP 3.19 ZAL 51.22 ZAP 171.77 ETS 21.19 ZAE 126.90 ETE 177.93 ZAC 72.31 ETC 12.40 CLP-172.41

PLANETOCENTRIC CONIC
C3 25.134 VHL 5.013 DLA -30.61 RAL 211.32 RAD 6568.0 VEL 12.104 PTH 2.17 VHP 8.431 DPA .62 RAP 194.35 ECC 1.4136

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.87	11 53 52	1261.08	19.64	351.47	84.20	113.96	12 14 53	661.1	22.71	343.97
102.13	15 8 33	634.49	19.65	305.29	84.21	113.95	15 19 8	34.5	22.72	297.78
77.87	11 53 52	1261.08	19.64	351.47	84.20	113.96	12 14 53	661.1	22.71	343.97
102.13	15 8 33	634.49	19.65	305.29	84.21	113.95	15 19 8	34.5	22.72	297.78
110.00	14 3 27	839.12	9.08	314.84	78.29	123.10	14 17 26	239.1	13.38	308.37
110.00	17 58 9	5392.48	30.97	247.34	88.66	105.25	19 28 1	4792.5	32.75	238.58

DIFFERENTIAL CORRECTIONS
TDE-2.5847 TRA 3.1417 TC3-3.1584 BAU 1.0615
RDE .3899 RRA .0162 RC3 -.0666 FAU .01964
FDE -.9384 FRA 1.4556 FC3 -.6764 BSP 19264
BDE 2.6139 BRA 3.1417 BC3 3.1591 FSP -675

MID-COURSE EXECUTION ACCURACY
SGT 6013.2 SGR 451.1 SG3 199.8
RRT -.3742 RRF -.3749 RTF .9623
SGB 6030.1 R23 .0140 R13 -.9623
SG1 6015.6 SG2 418.1 THA 178.38

ORBIT DETERMINATION ACCURACY
ST 3209.5 SR 445.6 SS 888.2
CRT -.9145 CRS .8725 CST -.9954
LSA 3353.9 MSA 198.7 SSA 15.5
EL1 3235.4 EL2 178.9 ALF 172.74

LAUNCH DATE JUN 21 1967 FLIGHT TIME 202.00 ARRIVAL DATE JAN 9 1968

DISTANCE 576.455

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 25.885 GAL 7.89 AZL 93.19 HCA 279.55 SMA 123.35 ECC .26806 INC 3.1887 V1 29.306
RP 107.81 LAP 3.14 LOP 188.52 VP 37.230 GAP 13.80 AZP 90.53 TAL 157.10 TAP 76.64 RCA 90.28 APO 156.41 V2 35.151
RC 167.829 GL -15.76 GP 3.09 ZAL 49.12 ZAP 172.72 ETS 23.40 ZAE 126.73 ETE 177.99 ZAC 70.17 ETC 12.37 CLP-173.41

PLANETOCENTRIC CONIC
C3 27.573 VHL 5.251 DLA -30.29 RAL 213.82 RAD 6568.1 VEL 12.204 PTH 2.19 VHP 8.751 DPA -.39 RAP 196.34 ECC 1.4538

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.76	12 10 25	1263.08	18.81	351.23	88.12	114.19	12 31 28	663.1	21.92	343.78
101.24	15 11 54	678.39	18.83	308.18	88.13	114.18	15 23 12	78.4	21.93	300.73
78.76	12 10 25	1263.08	18.81	351.23	88.12	114.19	12 31 28	663.1	21.92	343.78
101.24	15 11 54	678.39	18.83	308.18	88.13	114.18	15 23 12	78.4	21.93	300.73
110.00	14 8 25	878.54	7.61	316.94	81.81	123.43	14 23 3	278.5	11.95	310.54
110.00	18 13 4	5398.98	30.85	247.81	92.89	105.51	19 43 3	4799.0	32.67	239.07

DIFFERENTIAL CORRECTIONS
TDE-2.6085 TRA 3.4640 TC3-2.8721 BAU 1.0589
RDE .4112 RRA .0058 RC3 -.0554 FAU .01767
FDE -.8967 FRA 1.4983 FC3 -.5548 BSP 19374
BDE 2.6407 BRA 3.4640 BC3 2.8726 FSP -647

MID-COURSE EXECUTION ACCURACY
SGT 6029.9 SGR 452.5 SG3 190.9
RRT -.3919 RRF -.3913 RTF .9630
SGB 6046.9 R23 .0131 R13 -.9631
SG1 6032.6 SG2 416.1 THA 178.31

ORBIT DETERMINATION ACCURACY
ST 3135.9 SR 448.6 SS 855.5
CRT -.9054 CRS .8622 CST -.9955
LSA 3274.8 MSA 206.3 SSA 15.0
EL1 3162.2 EL2 188.9 ALF 172.59

LAUNCH DATE JUN 21 1967 FLIGHT TIME 204.00 ARRIVAL DATE JAN 11 1968

DISTANCE 581.720

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 25.848 GAL 8.60 AZL 93.15 HCA 282.78 SMA 123.13 ECC .27607 INC 3.1454 V1 29.306
RP 107.84 LAP 3.07 LOP 191.75 VP 37.194 GAP 14.39 AZP 90.70 TAL 155.79 TAP 78.57 RCA 89.14 APO 157.12 V2 35.139
RC 169.783 GL -14.74 GP 3.00 ZAL 47.11 ZAP 173.65 ETS 26.35 ZAE 126.55 ETE 178.04 ZAC 68.03 ETC 12.38 CLP-174.40

PLANETOCENTRIC CONIC
C3 30.380 VHL 5.512 DLA -29.95 RAL 216.19 RAD 6568.2 VEL 12.319 PTH 2.22 VHP 9.092 DPA -1.39 RAP 198.34 ECC 1.5000

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.82	12 27 53	1261.86	17.94	350.72	91.98	114.39	12 48 55	661.9	21.08	343.33
100.18	15 13 23	728.08	17.95	311.47	91.99	114.38	15 25 31	128.1	21.09	304.08
79.82	12 27 53	1261.86	17.94	350.72	91.98	114.39	12 48 55	661.9	21.08	343.33
100.18	15 13 23	728.08	17.95	311.47	91.99	114.38	15 25 31	128.1	21.09	304.08
110.00	14 12 39	920.20	6.04	319.15	85.25	123.71	14 28 0	320.2	10.43	312.81
110.00	18 27 47	5405.78	30.73	248.30	97.10	105.77	19 57 53	4805.8	32.58	239.58

DIFFERENTIAL CORRECTIONS
TDE-2.6285 TRA 3.8087 TC3-2.5892 BAU 1.0518
RDE .4328 RRA -.0064 RC3 -.0455 FAU .01572
FDE -.8568 FRA 1.5432 FC3 -.4479 BSP 19391
BDE 2.6639 BRA 3.8087 BC3 2.5896 FSP -617

MID-COURSE EXECUTION ACCURACY
SGT 6040.8 SGR 452.8 SG3 182.6
RRT -.4099 RRF -.4078 RTF .9638
SGB 6057.7 R23 .0119 R13 -.9639
SG1 6043.6 SG2 412.8 THA 178.23

ORBIT DETERMINATION ACCURACY
ST 3058.1 SR 449.9 SS 824.6
CRT -.8957 CRS .8511 CST -.9956
LSA 3192.0 MSA 213.8 SSA 14.5
EL1 3084.7 EL2 198.4 ALF 172.46

LAUNCH DATE JUN 21 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 13 1968

HELIOCENTRIC CONIC DISTANCE 586.886
RL 152.02 LAL -.00 LOL 268.96 VL 25.812 GAL 9.37 AZL 93.10 HCA 286.00 SMA 122.91 ECC .28477 INC 3.1011 V1 29.306
RP 107.88 LAP 2.98 LOP 194.98 VP 37.158 GAP 15.02 AZP 90.86 TAL 154.51 TAP 80.51 RCA 87.91 APO 157.92 V2 35.128
RC 171.722 GL -13.75 GP 2.91 ZAL 45.19 ZAP 174.55 ETS 30.40 ZAE 126.37 ETE 178.08 ZAC 65.89 ETC 12.42 CLP-175.40
PLANETOCENTRIC CONIC
C3 33.613 VHL 5.798 DLA -29.57 RAL 218.45 RAD 6568.3 VEL 12.449 PTH 2.25 VHP 9.457 DPA -2.37 RAP 200.35 ECC 1.5532

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.10	12 46 38	1256.10	17.01	349.85	95.79	114.56	13 7 34	656.1	20.18	342.52
98.90	15 12 37	784.73	17.03	315.24	95.80	114.55	15 25 42	184.7	20.20	307.90
100.00	14 44 15	875.50	13.70	320.31	94.14	116.83	14 58 51	275.5	17.19	313.26
100.00	15 57 41	640.56	20.40	306.08	97.34	112.34	16 8 22	40.6	23.25	298.45
110.00	14 16 15	963.76	4.39	321.44	88.62	123.93	14 32 19	363.8	8.82	315.15
110.00	18 42 11	5413.10	30.59	248.83	101.27	106.06	20 12 24	4813.1	32.49	240.13

DIFFERENTIAL CORRECTIONS
TDE-2.6525 TRA 4.1707 TC3-2.3215 BAU 1.0433
RDE .4549 RRA -.0203 RC3 -.0367 FAU .01392
FOE -.8220 FRA 1.5879 FC3 -.3586 BSP 19486
BOE 2.6912 BRA 4.1708 BC3 2.3218 FSP -592

MID-COURSE EXECUTION ACCURACY
SGT 6047.9 SGR 452.2 SG3 174.7
RRT -.4290 RRF -.4256 RTF .9649
SGB 6064.7 R23 .0108 R13 -.9649
SG1 6051.0 SG2 408.3 THA 178.15

ORBIT DETERMINATION ACCURACY
ST 2983.2 SR 449.7 SS 797.7
CRT -.8859 CRS .8405 CST -.9958
LSA 3112.7 MSA 220.5 SSA 14.0
EL1 3009.8 EL2 206.8 ALF 172.36

LAUNCH DATE JUN 21 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 15 1968

HELIOCENTRIC CONIC DISTANCE 591.937
RL 152.02 LAL -.00 LOL 268.96 VL 25.776 GAL 10.19 AZL 93.06 HCA 289.22 SMA 122.70 ECC .29425 INC 3.0553 V1 29.306
RP 107.92 LAP 2.88 LOP 198.21 VP 37.121 GAP 15.69 AZP 91.01 TAL 153.25 TAP 82.47 RCA 86.60 APO 158.81 V2 35.116
RC 173.647 GL -12.78 GP 2.84 ZAL 43.37 ZAP 175.41 ETS 36.13 ZAE 126.19 ETE 178.12 ZAC 63.75 ETC 12.50 CLP-176.39
PLANETOCENTRIC CONIC
C3 37.343 VHL 6.111 DLA -29.18 RAL 220.58 RAD 6568.5 VEL 12.598 PTH 2.28 VHP 9.851 DPA -3.34 RAP 202.35 ECC 1.6146

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.67	13 7 29	1243.05	16.05	348.43	99.54	114.69	13 28 12	643.1	19.25	341.15
97.33	15 8 47	850.93	16.06	319.67	99.55	114.69	15 22 57	250.9	19.26	312.39
100.00	14 34 31	960.88	11.03	325.24	96.99	117.96	14 50 32	360.9	14.68	318.35
100.00	16 24 26	608.34	21.22	304.04	101.87	111.56	16 34 34	8.3	23.96	296.32
110.00	14 19 16	1008.91	2.67	323.80	91.93	124.09	14 36 5	408.9	7.13	317.55
110.00	18 56 11	5421.11	30.44	249.41	105.38	106.36	20 26 32	4821.1	32.38	240.73

DIFFERENTIAL CORRECTIONS
TDE-2.6767 TRA 4.5557 TC3-2.0642 BAU 1.0306
RDE .4774 RRA -.0360 RC3 -.0292 FAU .01217
FOE -.7903 FRA 1.6345 FC3 -.2822 BSP 19559
BOE 2.7189 BRA 4.5559 BC3 2.0644 FSP -568

MID-COURSE EXECUTION ACCURACY
SGT 6049.4 SGR 450.7 SG3 167.3
RRT -.4485 RRF -.4439 RTF .9662
SGB 6066.2 R23 .0096 R13 -.9662
SG1 6052.8 SG2 402.6 THA 178.08

ORBIT DETERMINATION ACCURACY
ST 2908.3 SR 447.7 SS 773.8
CRT -.8757 CRS .8298 CST -.9960
LSA 3034.1 MSA 226.4 SSA 13.6
EL1 2934.7 EL2 214.3 ALF 172.28

LAUNCH DATE JUN 21 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 17 1968

HELIOCENTRIC CONIC DISTANCE 596.855
RL 152.02 LAL -.00 LOL 268.96 VL 25.740 GAL 11.06 AZL 93.01 HCA 292.44 SMA 122.49 ECC .30461 INC 3.0078 V1 29.306
RP 107.96 LAP 2.78 LOP 201.43 VP 37.085 GAP 16.41 AZP 91.15 TAL 152.02 TAP 84.46 RCA 85.18 APO 159.81 V2 35.103
RC 175.555 GL -11.85 GP 2.76 ZAL 41.65 ZAP 176.20 ETS 44.53 ZAE 125.98 ETE 178.15 ZAC 61.62 ETC 12.61 CLP-177.39
PLANETOCENTRIC CONIC
C3 41.657 VHL 6.454 DLA -28.76 RAL 222.59 RAD 6568.6 VEL 12.768 PTH 2.32 VHP 10.277 DPA -4.29 RAP 204.36 ECC 1.6856

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.76	13 32 26	1216.11	15.05	345.97	103.22	114.80	13 52 42	616.1	18.27	338.74
95.24	14 59 51	933.11	15.07	325.24	103.23	114.79	15 15 24	333.1	18.29	318.01
100.00	14 28 25	1034.41	8.65	329.40	99.93	118.73	14 45 39	434.4	12.42	322.64
100.00	16 46 34	5878.09	21.67	280.78	106.17	111.11	18 24 32	5278.1	24.35	273.00
110.00	14 21 45	1055.37	.90	326.23	95.17	124.17	14 39 20	455.4	5.37	320.01
110.00	19 9 43	5429.89	30.27	250.03	109.44	106.70	20 40 13	4829.9	32.25	241.38

DIFFERENTIAL CORRECTIONS
TDE-2.7027 TRA 4.9660 TC3-1.8197 BAU 1.0135
RDE .5000 RRA -.0537 RC3 -.0229 FAU .01048
FOE -.7619 FRA 1.6836 FC3 -.2178 BSP 19613
BOE 2.7485 BRA 4.9663 BC3 1.8199 FSP -545

MID-COURSE EXECUTION ACCURACY
SGT 6046.6 SGR 448.1 SG3 160.3
RRT -.4683 RRF -.4626 RTF .9676
SGB 6063.2 R23 .0084 R13 -.9676
SG1 6050.3 SG2 395.7 THA 178.00

ORBIT DETERMINATION ACCURACY
ST 2835.0 SR 444.1 SS 752.9
CRT -.8652 CRS .8192 CST -.9962
LSA 2957.6 MSA 231.4 SSA 13.1
EL1 2861.0 EL2 220.6 ALF 172.23

LAUNCH DATE JUN 21 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 19 1968

HELIOCENTRIC CONIC DISTANCE 601.617
RL 152.02 LAL -.00 LOL 268.96 VL 25.705 GAL 12.01 AZL 92.96 HCA 295.66 SMA 122.29 ECC .31595 INC 2.9581 V1 29.306
RP 107.99 LAP 2.67 LOP 204.65 VP 37.048 GAP 17.19 AZP 91.28 TAL 150.83 TAP 86.49 RCA 83.65 APO 160.93 V2 35.091
RC 177.448 GL -10.95 GP 2.70 ZAL 40.02 ZAP 176.86 ETS 57.15 ZAE 125.76 ETE 178.18 ZAC 59.51 ETC 12.75 CLP-178.40
PLANETOCENTRIC CONIC
C3 46.663 VHL 6.831 DLA -28.32 RAL 224.47 RAD 6568.7 VEL 12.963 PTH 2.36 VHP 10.738 DPA -5.22 RAP 206.37 ECC 1.7680

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
89.38	14 18 22	1120.33	14.03	338.46	106.83	114.86	14 37 2	520.3	17.27	331.28
90.62	14 28 57	1085.99	14.04	335.96	106.84	114.85	14 47 3	486.0	17.28	328.78
100.00	14 23 49	1102.63	6.40	333.21	102.87	119.26	14 42 12	502.6	10.25	326.54
100.00	17 6 11	5866.96	21.94	280.06	110.33	110.82	18 43 58	5267.0	24.58	272.26
110.00	14 23 44	1102.89	-.92	328.71	98.35	124.17	14 42 7	502.9	3.57	322.50
110.00	19 22 45	5439.47	30.08	250.71	113.43	107.06	20 53 25	4839.5	32.12	242.09

DIFFERENTIAL CORRECTIONS
TDE-2.7277 TRA 5.4070 TC3-1.5855 BAU .9892
RDE .5225 RRA -.0735 RC3 -.0179 FAU .00876
FOE -.7354 FRA 1.7368 FC3 -.1625 BSP 19572
BOE 2.7773 BRA 5.4075 BC3 1.5856 FSP -521

MID-COURSE EXECUTION ACCURACY
SGT 6038.9 SGR 444.5 SG3 153.8
RRT -.4882 RRF -.4813 RTF .9692
SGB 6055.3 R23 .0070 R13 -.9692
SG1 6042.8 SG2 387.7 THA 177.93

ORBIT DETERMINATION ACCURACY
ST 2761.8 SR 438.8 SS 734.6
CRT -.8542 CRS .8081 CST -.9964
LSA 2881.6 MSA 235.7 SSA 12.6
EL1 2787.3 EL2 226.0 ALF 172.22

LAUNCH DATE JUN 21 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 21 1968

DISTANCE 606.193

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 25.670 GAL 13.03 AZL 92.91 HCA 298.88 SMA 122.09 ECC .32841 INC 2.9056 V1 29.306
RP 108.03 LAP 2.54 LOP 207.87 VP 37.012 GAP 18.04 AZP 91.40 TAL 149.69 TAP 88.57 RCA 81.99 APO 162.19 V2 35.078
RC 179.325 GL -10.08 GP 2.64 ZAL 38.50 ZAP 177.30 ETS 75.47 ZAE 125.52 ETE 178.20 ZAC 57.41 ETC 12.94 CLP-179.43

PLANETOCENTRIC CONIC
C3 52.490 VHL 7.245 DLA -27.87 RAL 226.23 RAD 6568.9 VEL 13.185 PTH 2.41 VHP 11.241 DPA -6.13 RAP 208.37 ECC 1.8639

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 46 42	1275.43	8.89	347.25	108.33	117.00	14 7 58	675.4	12.44	340.37
90.00	15 14 38	989.60	17.17	330.34	112.27	112.87	15 31 8	389.6	20.12	322.91
100.00	14 20 0	1167.79	4.22	336.82	105.79	119.62	14 39 27	567.8	8.13	330.22
100.00	17 24 1	5860.51	22.10	279.65	114.36	110.66	19 1 42	5260.5	24.71	271.82
110.00	14 25 15	1151.26	-2.77	331.23	101.46	124.08	14 44 27	551.3	1.72	325.03
110.00	19 35 15	5449.81	29.87	251.45	117.34	107.45	21 6 5	4849.8	31.96	242.86

DIFFERENTIAL CORRECTIONS
TDE-2.7606 TRA 5.8743 TC3-1.3689 BAU .9606
RDE .5453 RRA -.0952 RC3 -.0139 FAU .00714
FDE -.7137 FRA 1.7922 FC3 -.1177 BSP 19616
BDE 2.8139 BRA 5.8750 BC3 1.3689 FSP -500

MID-COURSE EXECUTION ACCURACY
SGT 6026.5 SGR 440.0 SG3 147.6
RRT -.5087 RRF -.5008 RTF .9710
SGB 6042.5 R23 .0057 R13 -.9710
SG1 6030.6 SG2 378.6 THA 177.86

ORBIT DETERMINATION ACCURACY
ST 2693.6 SR 432.0 SS 720.3
CRT -.8437 CRS .7981 CST -.9967
LSA 2811.4 MSA 238.4 SSA 12.2
EL1 2718.3 EL2 229.8 ALF 172.24

LAUNCH DATE JUN 21 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 23 1968

DISTANCE 610.548

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 25.636 GAL 14.13 AZL 92.85 HCA 302.09 SMA 121.89 ECC .34213 INC 2.8498 V1 29.306
RP 108.07 LAP 2.41 LOP 211.08 VP 36.976 GAP 18.96 AZP 91.51 TAL 148.60 TAP 90.69 RCA 80.19 APO 163.60 V2 35.065
RC 181.185 GL -9.24 GP 2.58 ZAL 37.09 ZAP 177.37 ETS 98.06 ZAE 125.25 ETE 178.22 ZAC 55.34 ETC 13.16 CLP 179.52

PLANETOCENTRIC CONIC
C3 59.302 VHL 7.701 DLA -27.41 RAL 227.86 RAD 6569.1 VEL 13.441 PTH 2.46 VHP 11.792 DPA -7.02 RAP 210.35 ECC 1.9760

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 34 22	1367.30	6.02	352.47	110.83	117.72	13 57 9	767.3	9.68	345.70
90.00	15 39 59	957.79	18.00	328.38	116.53	112.24	15 55 57	357.8	20.86	320.87
100.00	14 16 34	1230.91	2.08	340.29	108.67	119.83	14 37 5	630.9	6.04	333.74
100.00	17 40 27	5857.45	22.17	279.45	118.27	110.58	19 18 5	5257.4	24.77	271.61
110.00	14 26 19	1200.27	-4.64	333.80	104.50	123.91	14 46 20	600.3	-.15	327.58
110.00	19 47 11	5460.85	29.64	252.23	121.16	107.86	21 18 12	4860.9	31.79	243.68

DIFFERENTIAL CORRECTIONS
TDE-2.7982 TRA 6.3758 TC3-1.1665 BAU .9249
RDE .5681 RRA -.1189 RC3 -.0109 FAU .00552
FDE -.6953 FRA 1.8519 FC3 -.0806 BSP 19644
BDE 2.8553 BRA 6.3769 BC3 1.1666 FSP -481

MID-COURSE EXECUTION ACCURACY
SGT 6009.8 SGR 434.6 SG3 141.8
RRT -.5292 RRF -.5206 RTF .9730
SGB 6025.5 R23 .0044 R13 -.9730
SG1 6014.2 SG2 368.4 THA 177.80

ORBIT DETERMINATION ACCURACY
ST 2628.2 SR 423.7 SS 709.1
CRT -.8332 CRS .7886 CST -.9969
LSA 2744.4 MSA 239.9 SSA 11.7
EL1 2652.0 EL2 232.2 ALF 172.29

LAUNCH DATE JUN 21 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 25 1968

DISTANCE 614.638

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 25.603 GAL 15.34 AZL 92.79 HCA 305.30 SMA 121.71 ECC .35729 INC 2.7899 V1 29.306
RP 108.11 LAP 2.28 LOP 214.29 VP 36.941 GAP 19.97 AZP 91.61 TAL 147.59 TAP 92.89 RCA 78.22 APO 165.19 V2 35.052
RC 183.028 GL -8.42 GP 2.53 ZAL 35.78 ZAP 177.03 ETS 119.05 ZAE 124.94 ETE 178.23 ZAC 53.30 ETC 13.43 CLP 178.45

PLANETOCENTRIC CONIC
C3 67.303 VHL 8.204 DLA -26.94 RAL 229.36 RAD 6569.3 VEL 13.735 PTH 2.51 VHP 12.397 DPA -7.88 RAP 212.32 ECC 2.1076

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 25 40	1446.40	3.49	356.91	113.43	118.12	13 49 47	846.4	7.23	350.22
90.00	16 0 38	939.76	18.46	327.26	120.51	111.86	16 16 18	339.8	21.26	319.71
100.00	14 13 19	1292.51	-.00	343.67	111.49	119.89	14 34 51	692.5	3.97	337.14
100.00	17 55 41	5856.92	22.18	279.41	122.05	110.57	19 33 18	5256.9	24.78	271.58
110.00	14 26 56	1249.73	-6.51	336.41	107.46	123.63	14 47 46	649.7	-2.04	330.16
110.00	19 58 33	5472.46	29.40	253.04	124.87	108.29	21 29 45	4872.5	31.61	244.53

DIFFERENTIAL CORRECTIONS
TDE-2.8410 TRA 6.9149 TC3 -.9776 BAU .8797
RDE .5907 RRA -.1447 RC3 -.0089 FAU .00388
FDE -.6802 FRA 1.9169 FC3 -.0499 BSP 19638
BDE 2.9018 BRA 6.9164 BC3 .9777 FSP -462

MID-COURSE EXECUTION ACCURACY
SGT 5987.9 SGR 428.1 SG3 136.3
RRT -.5498 RRF -.5407 RTF .9751
SGB 6003.2 R23 .0031 R13 -.9751
SG1 5992.5 SG2 357.3 THA 177.74

ORBIT DETERMINATION ACCURACY
ST 2565.2 SR 414.0 SS 701.3
CRT -.8229 CRS .7797 CST -.9973
LSA 2680.6 MSA 240.0 SSA 11.2
EL1 2587.9 EL2 233.1 ALF 172.37

LAUNCH DATE JUN 21 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 27 1968

DISTANCE 618.407

HELIOCENTRIC CONIC
RL 152.02 LAL -.00 LOL 268.96 VL 25.571 GAL 16.65 AZL 92.73 HCA 308.51 SMA 121.52 ECC .37410 INC 2.7252 V1 29.306
RP 108.16 LAP 2.13 LOP 217.50 VP 36.906 GAP 21.08 AZP 91.70 TAL 146.65 TAP 95.16 RCA 76.06 APO 166.98 V2 35.039
RC 184.853 GL -7.64 GP 2.49 ZAL 34.59 ZAP 176.35 ETS 134.47 ZAE 124.60 ETE 178.24 ZAC 51.30 ETC 13.74 CLP 177.33

PLANETOCENTRIC CONIC
C3 76.752 VHL 8.761 DLA -26.45 RAL 230.73 RAD 6569.5 VEL 14.075 PTH 2.57 VHP 13.066 DPA -8.70 RAP 214.27 ECC 2.2631

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 18 35	1519.16	1.15	.97	116.02	118.30	13 43 54	919.2	4.92	354.33
90.00	16 18 39	928.74	18.74	326.57	124.28	111.63	16 34 7	328.7	21.51	318.99
100.00	14 10 4	1352.88	-2.05	346.98	114.24	119.83	14 32 37	752.9	1.93	340.46
100.00	18 9 51	5858.29	22.15	279.50	125.69	110.60	19 47 29	5258.3	24.76	271.67
110.00	14 27 5	1299.45	-8.37	339.05	110.35	123.26	14 48 45	699.5	-3.94	332.77
110.00	20 9 19	5484.48	29.14	253.88	128.46	108.72	21 40 43	4884.5	31.41	245.41

DIFFERENTIAL CORRECTIONS
TDE-2.8879 TRA 7.5006 TC3 -.8007 BAU .8217
RDE .6131 RRA -.1729 RC3 -.0077 FAU .00214
FDE -.6674 FRA 1.9894 FC3 -.0241 BSP 19535
BDE 2.9523 BRA 7.5026 BC3 .8008 FSP -442

MID-COURSE EXECUTION ACCURACY
SGT 5962.8 SGR 420.6 SG3 131.2
RRT -.5703 RRF -.5607 RTF .9773
SGB 5977.7 R23 .0018 R13 -.9773
SG1 5967.7 SG2 345.2 THA 177.69

ORBIT DETERMINATION ACCURACY
ST 2504.1 SR 402.8 SS 696.5
CRT -.8126 CRS .7709 CST -.9975
LSA 2619.3 MSA 238.9 SSA 10.8
EL1 2525.6 EL2 232.7 ALF 172.49

LAUNCH DATE JUN 22 1967 FLIGHT TIME 70.00 ARRIVAL DATE AUG 31 1967

HELIOCENTRIC CONIC DISTANCE 164.430

RL 152.03 LAL .00 LOL 269.91 VL 23.406 GAL -1.68 AZL 93.63 HCA 67.72 SMA 110.78 ECC .37343 INC 3.6253 V1 29.304
RP 108.87 LAP -3.35 LOP 337.60 VP 35.215 GAP -21.91 AZP 91.38 TAL 182.83 TAP 250.55 RCA 69.41 APO 152.14 V2 34.809
RC 42.849 GL -13.83 GP -2.12 ZAL 97.38 ZAP 9.56 ETS 167.28 ZAE 164.70 ETE 40.16 ZAC 98.72 ETC 14.04 CLP 9.33

PLANETOCENTRIC CONIC

C3 38.284 VHL 6.187 DLA -9.65 RAL 167.44 RAD 6568.5 VEL 12.635 PTH 2.29 VHP 13.216 DPA 6.33 RAP 168.48 ECC 1.6301

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 46 37	2071.25	-15.85	32.61	37.65	113.77	6 21 9	1471.2	-12.51	25.53
90.00	15 17 52	5323.37	27.47	242.03	43.86	82.86	16 46 35	4723.4	26.20	233.59
100.00	7 3 13	1824.14	-17.12	13.84	37.05	114.89	7 33 37	1224.1	-13.62	6.79
100.00	16 43 57	5045.70	28.85	221.39	43.65	81.82	18 8 3	4445.7	27.42	212.88
110.00	8 0 40	1644.26	-20.47	358.43	35.29	117.99	8 28 4	1044.3	-16.57	351.48
110.00	18 3 0	4798.36	32.54	201.88	42.92	78.91	19 22 58	4198.4	30.67	193.17

DIFFERENTIAL CORRECTIONS

TDE .3795 TRA -.7047 TC3 .1414 BAU .0843
RDE -.4169 RRA -.1705 RC3 .0846 FAU .02134
FDE -.3092 FRA .2460 FC3 -.4825 BSP 2085
BDE .5637 BRA .7250 BC3 .1648 FSP -136

MID-COURSE EXECUTION ACCURACY

SGT 769.6 SGR 430.8 SG3 60.6
RRT -.0342 RRF .0365 RTF -.6634
SGB 882.0 R23 -.0036 R13 .6636
SG1 769.8 SG2 430.5 THA 178.41

ORBIT DETERMINATION ACCURACY

ST 403.7 SR 389.0 SS 337.0
CRT -.8030 CRS -.9332 CST .9609
LSA 629.8 MSA 176.0 SSA 16.1
EL1 532.3 EL2 175.8 ALF 136.32

LAUNCH DATE JUN 22 1967 FLIGHT TIME 72.00 ARRIVAL DATE SEP 2 1967

HELIOCENTRIC CONIC DISTANCE 171.068

RL 152.03 LAL .00 LOL 269.91 VL 23.768 GAL -1.76 AZL 93.58 HCA 70.89 SMA 112.38 ECC .35403 INC 3.5751 V1 29.304
RP 108.85 LAP -3.38 LOP 340.77 VP 35.463 GAP -20.66 AZP 91.17 TAL 183.22 TAP 254.11 RCA 72.59 APO 152.16 V2 34.815
RC 42.995 GL -14.68 GP -2.23 ZAL 98.24 ZAP 7.84 ETS 163.49 ZAE 162.69 ETE 34.53 ZAC 97.43 ETC 13.95 CLP 7.52

PLANETOCENTRIC CONIC

C3 34.185 VHL 5.847 DLA -10.07 RAL 166.28 RAD 6568.3 VEL 12.472 PTH 2.26 VHP 12.511 DPA 5.70 RAP 169.70 ECC 1.5626

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 45 21	2028.90	-14.67	30.06	34.60	114.49	6 19 10	1428.9	-11.25	23.05
90.00	15 9 50	5308.49	27.34	240.96	40.71	82.34	16 38 18	4708.5	26.00	232.55
100.00	7 1 42	1782.55	-15.91	11.34	34.00	115.65	7 31 25	1182.5	-12.33	4.38
100.00	16 36 9	5030.07	28.69	220.26	40.49	81.24	17 59 59	4430.1	27.19	211.78
110.00	7 58 38	1604.28	-19.18	356.05	32.24	118.86	8 25 22	1004.3	-15.18	349.22
110.00	17 55 43	4781.10	32.31	200.59	39.73	78.18	19 15 24	4181.1	30.34	191.93

DIFFERENTIAL CORRECTIONS

TDE .3798 TRA -.6801 TC3 .1846 BAU .0945
RDE -.3962 RRA -.1595 RC3 .0929 FAU .02254
FDE -.3284 FRA .2393 FC3 -.5708 BSP 2173
BDE .5488 BRA .6986 BC3 .2067 FSP -153

MID-COURSE EXECUTION ACCURACY

SGT 802.1 SGR 433.3 SG3 67.3
RRT -.0390 RRF .0433 RTF -.6809
SGB 911.6 R23 -.0058 R13 .6811
SG1 802.3 SG2 432.9 THA 178.30

ORBIT DETERMINATION ACCURACY

ST 424.0 SR 391.2 SS 357.0
CRT -.8127 CRS -.9403 CST .9598
LSA 655.0 MSA 175.9 SSA 16.7
EL1 549.4 EL2 175.9 ALF 137.83

LAUNCH DATE JUN 22 1967 FLIGHT TIME 74.00 ARRIVAL DATE SEP 4 1967

HELIOCENTRIC CONIC DISTANCE 177.732

RL 152.03 LAL .00 LOL 269.91 VL 24.101 GAL -1.86 AZL 93.53 HCA 74.06 SMA 113.92 ECC .33600 INC 3.5269 V1 29.304
RP 108.83 LAP -3.39 LOP 343.94 VP 35.694 GAP -19.47 AZP 90.97 TAL 183.68 TAP 257.73 RCA 75.64 APO 152.19 V2 34.822
RC 43.312 GL -15.52 GP -2.35 ZAL 99.23 ZAP 6.16 ETS 157.50 ZAE 160.65 ETE 30.03 ZAC 96.16 ETC 13.87 CLP 5.69

PLANETOCENTRIC CONIC

C3 30.668 VHL 5.538 DLA -10.43 RAL 164.98 RAD 6568.2 VEL 12.331 PTH 2.22 VHP 11.838 DPA 5.06 RAP 170.89 ECC 1.5047

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 43 6	1989.64	-13.55	27.72	31.54	115.10	6 16 16	1389.6	-10.06	20.78
90.00	15 1 42	5293.08	27.20	239.85	37.50	81.80	16 29 55	4693.1	25.78	231.47
100.00	6 59 16	1743.95	-14.76	9.05	30.94	116.29	7 28 20	1144.0	-11.11	2.17
100.00	16 28 14	5014.01	28.52	219.10	37.27	80.65	17 51 48	4414.0	26.94	210.65
110.00	7 55 44	1567.12	-17.94	353.88	29.18	119.60	8 21 51	967.1	-13.86	347.14
110.00	17 48 15	4763.60	32.06	199.29	36.48	77.44	19 7 38	4163.6	30.00	190.68

DIFFERENTIAL CORRECTIONS

TDE .3822 TRA -.6527 TC3 .2378 BAU .1059
RDE -.3769 RRA -.1492 RC3 .1011 FAU .02392
FDE -.3498 FRA .2300 FC3 -.6752 BSP 2312
BDE .5368 BRA .6696 BC3 .2584 FSP -174

MID-COURSE EXECUTION ACCURACY

SGT 835.0 SGR 435.0 SG3 74.8
RRT -.0467 RRF .0515 RTF -.7006
SGB 941.6 R23 -.0066 R13 .7008
SG1 835.4 SG2 434.4 THA 178.09

ORBIT DETERMINATION ACCURACY

ST 446.0 SR 392.8 SS 378.2
CRT -.8248 CRS -.9475 CST .9596
LSA 682.3 MSA 174.5 SSA 17.3
EL1 568.2 EL2 174.3 ALF 139.38

LAUNCH DATE JUN 22 1967 FLIGHT TIME 76.00 ARRIVAL DATE SEP 6 1967

HELIOCENTRIC CONIC DISTANCE 184.420

RL 152.03 LAL .00 LOL 269.91 VL 24.407 GAL -1.97 AZL 93.48 HCA 77.22 SMA 115.38 ECC .31928 INC 3.4801 V1 29.304
RP 108.80 LAP -3.39 LOP 347.11 VP 35.908 GAP -18.34 AZP 90.77 TAL 184.20 TAP 261.43 RCA 78.54 APO 152.22 V2 34.830
RC 43.796 GL -16.35 GP -2.48 ZAL 100.35 ZAP 4.57 ETS 146.96 ZAE 158.63 ETE 26.36 ZAC 94.91 ETC 13.80 CLP 3.84

PLANETOCENTRIC CONIC

C3 27.655 VHL 5.259 DLA -10.74 RAL 163.56 RAD 6568.1 VEL 12.208 PTH 2.19 VHP 11.194 DPA 4.42 RAP 172.04 ECC 1.4551

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 39 54	1953.81	-12.51	25.60	28.47	115.61	6 12 28	1353.8	-8.96	18.72
90.00	14 53 34	5277.18	27.04	238.72	34.26	81.26	16 21 31	4677.2	25.55	230.36
100.00	6 55 53	1708.68	-13.68	6.99	27.88	116.84	7 24 22	1108.7	-9.98	.16
100.00	16 20 16	4997.55	28.33	217.91	34.02	80.05	17 43 34	4397.5	26.67	209.50
110.00	7 51 59	1533.04	-16.78	351.91	26.13	120.23	8 17 32	933.0	-12.64	345.25
110.00	17 40 40	4745.95	31.79	197.98	33.20	76.71	18 59 46	4145.9	29.63	189.44

DIFFERENTIAL CORRECTIONS

TDE .3845 TRA -.6249 TC3 .2974 BAU .1171
RDE -.3591 RRA -.1394 RC3 .1088 FAU .02546
FDE -.3732 FRA .2182 FC3 -.7971 BSP 2432
BDE .5261 BRA .6403 BC3 .3167 FSP -197

MID-COURSE EXECUTION ACCURACY

SGT 868.1 SGR 436.0 SG3 83.2
RRT -.0553 RRF .0613 RTF -.7183
SGB 971.4 R23 -.0082 R13 .7186
SG1 868.6 SG2 435.1 THA 177.87

ORBIT DETERMINATION ACCURACY

ST 467.8 SR 394.0 SS 400.2
CRT -.8368 CRS -.9545 CST .9592
LSA 710.0 MSA 172.6 SSA 18.0
EL1 586.9 EL2 171.9 ALF 140.82

LAUNCH DATE JUN 22 1967 FLIGHT TIME 78.00 ARRIVAL DATE SEP 8 1967

HELIOCENTRIC CONIC DISTANCE 191.125

RL 152.03 LAL .00 LOL 269.91 VL 24.687 GAL -2.08 AZL 93.43 HCA 80.39 SMA 116.78 ECC .30383 INC 3.4345 V1 29.304
RP 108.78 LAP -3.39 LOP 350.29 VP 36.107 GAP -17.26 AZP 90.57 TAL 184.79 TAP 265.18 RCA 81.30 APO 152.26 V2 34.838
RC 44.440 GL -17.17 GP -2.62 ZAL 101.58 ZAP 3.27 ETS 126.33 ZAE 156.68 ETE 23.31 ZAC 93.71 ETC 13.75 CLP 1.95

PLANETOCENTRIC CONIC

C3 25.076 VHL 5.008 DLA -10.97 RAL 162.03 RAD 6568.0 VEL 12.102 PTH 2.17 VHP 10.580 DPA 3.78 RAP 173.16 ECC 1.4127

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 35 46	1921.69	-11.55	23.73	25.42	116.03	6 7 48	1321.7	-7.96	16.89
90.00	14 45 32	5260.79	26.86	237.55	31.01	80.70	16 13 12	4660.8	25.30	229.23
100.00	6 51 37	1677.00	-12.70	5.15	24.83	117.29	7 19 34	1077.0	-8.95	358.37
100.00	16 12 22	4980.71	28.13	216.70	30.76	79.45	17 35 23	4380.7	26.39	208.33
110.00	7 47 23	1502.31	-15.72	350.17	23.10	120.75	8 12 26	902.3	-11.53	343.57
110.00	17 33 5	4728.16	31.50	196.68	29.91	75.99	18 51 53	4128.2	29.26	188.19

DIFFERENTIAL CORRECTIONS
TDE .3870 TRA -.5963 TC3 .3647 BAU .1283
RDE -.3426 RRA -.1304 RC3 .1156 FAU .02720
FDE -.3983 FRA .2036 FC3 -.9390 BSP 2569
BDE .5168 BRA .6104 BC3 .3826 FSP -224

MID-COURSE EXECUTION ACCURACY
SGT 901.4 SGR 436.1 SG3 92.6
RRT -.0654 RRF .0722 RTF -.7353
SGB 1001.3 R23 -.0096 R13 .7356
SG1 902.0 SG2 434.9 THA 177.64

ORBIT DETERMINATION ACCURACY
ST 489.5 SR 394.7 SS 422.4
CRT -.8490 CRS -.9612 CST .9590
LSA 737.9 MSA 170.2 SSA 18.7
EL1 605.8 EL2 168.5 ALF 142.17

LAUNCH DATE JUN 22 1967 FLIGHT TIME 80.00 ARRIVAL DATE SEP 10 1967

HELIOCENTRIC CONIC DISTANCE 197.843

RL 152.03 LAL .00 LOL 269.91 VL 24.944 GAL -2.21 AZL 93.39 HCA 83.57 SMA 118.11 ECC .28960 INC 3.3897 V1 29.304
RP 108.75 LAP -3.37 LOP 353.47 VP 36.291 GAP -16.23 AZP 90.38 TAL 185.44 TAP 269.00 RCA 83.90 APO 152.31 V2 34.846
RC 45.237 GL -17.95 GP -2.78 ZAL 102.91 ZAP 2.78 ETS 90.00 ZAE 154.84 ETE 20.73 ZAC 92.54 ETC 13.71 CLP .02

PLANETOCENTRIC CONIC

C3 22.871 VHL 4.782 DLA -11.14 RAL 160.41 RAD 6567.9 VEL 12.010 PTH 2.14 VHP 9.993 DPA 3.13 RAP 174.24 ECC 1.3764

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 30 43	1893.49	-10.71	22.09	22.40	116.37	6 2 17	1293.5	-7.08	15.29
90.00	14 37 41	5243.89	26.67	236.35	27.77	80.12	16 5 5	4643.9	25.04	228.06
100.00	6 46 28	1649.13	-11.83	3.54	21.82	117.65	7 13 57	1049.1	-8.03	356.81
100.00	16 4 37	4963.49	27.91	215.47	27.51	78.84	17 27 21	4363.5	26.09	207.14
110.00	7 42 2	1475.13	-14.77	348.63	20.11	121.18	8 6 37	875.1	-10.53	342.10
110.00	17 25 33	4710.25	31.20	195.37	26.64	75.27	18 44 3	4110.3	28.86	186.94

DIFFERENTIAL CORRECTIONS
TDE .3897 TRA -.5677 TC3 .4376 BAU .1388
RDE -.3276 RRA -.1220 RC3 .1210 FAU .02917
FDE -.4261 FRA .1858 FC3-1.1042 BSP 2696
BDE .5091 BRA .5807 BC3 .4541 FSP -255

MID-COURSE EXECUTION ACCURACY
SGT 934.8 SGR 435.5 SG3 103.2
RRT -.0775 RRF .0851 RTF -.7501
SGB 1031.2 R23 -.0111 R13 .7505
SG1 935.5 SG2 433.8 THA 177.37

ORBIT DETERMINATION ACCURACY
ST 511.3 SR 395.0 SS 445.4
CRT -.8611 CRS -.9675 CST .9586
LSA 766.4 MSA 167.6 SSA 19.4
EL1 624.8 EL2 164.3 ALF 143.43

LAUNCH DATE JUN 22 1967 FLIGHT TIME 82.00 ARRIVAL DATE SEP 12 1967

HELIOCENTRIC CONIC DISTANCE 204.571

RL 152.03 LAL .00 LOL 269.91 VL 25.179 GAL -2.34 AZL 93.35 HCA 86.74 SMA 119.36 ECC .27654 INC 3.3454 V1 29.304
RP 108.72 LAP -3.34 LOP 356.65 VP 36.462 GAP -15.24 AZP 90.19 TAL 186.14 TAP 272.88 RCA 86.35 APO 152.37 V2 34.856
RC 46.178 GL -18.69 GP -2.96 ZAL 104.33 ZAP 3.55 ETS 56.06 ZAE 153.16 ETE 18.51 ZAC 91.43 ETC 13.68 CLP -1.96

PLANETOCENTRIC CONIC

C3 20.988 VHL 4.581 DLA -11.24 RAL 158.73 RAD 6567.9 VEL 11.932 PTH 2.12 VHP 9.432 DPA 2.48 RAP 175.26 ECC 1.3454

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 24 50	1869.37	-9.97	20.70	19.43	116.64	5 56 0	1269.4	-6.32	13.92
90.00	14 30 7	5226.48	26.46	235.12	24.57	79.54	15 57 14	4626.5	24.75	226.87
100.00	6 40 31	1625.19	-11.07	2.17	18.86	117.95	7 7 36	1025.2	-7.24	355.47
100.00	15 57 7	4945.89	27.67	214.21	24.31	78.22	17 19 33	4345.9	25.77	205.93
110.00	7 35 57	1451.60	-13.94	347.32	17.18	121.53	8 0 9	851.6	-9.66	340.83
110.00	17 18 11	4692.24	30.88	194.06	23.42	74.56	18 36 23	4092.2	28.45	185.70

DIFFERENTIAL CORRECTIONS
TDE .3917 TRA -.5371 TC3 .5198 BAU .1500
RDE -.3139 RRA -.1142 RC3 .1247 FAU .03140
FDE -.4560 FRA .1646 FC3-1.2951 BSP 2830
BDE .5019 BRA .5491 BC3 .5345 FSP -289

MID-COURSE EXECUTION ACCURACY
SGT 967.3 SGR 434.0 SG3 115.2
RRT -.0907 RRF .0997 RTF -.7663
SGB 1060.3 R23 -.0129 R13 .7667
SG1 968.3 SG2 431.8 THA 177.09

ORBIT DETERMINATION ACCURACY
ST 531.4 SR 395.0 SS 468.5
CRT -.8731 CRS -.9733 CST .9585
LSA 794.0 MSA 164.4 SSA 20.1
EL1 642.7 EL2 159.2 ALF 144.51

LAUNCH DATE JUN 22 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 14 1967

HELIOCENTRIC CONIC DISTANCE 211.304

RL 152.03 LAL .00 LOL 269.91 VL 25.394 GAL -2.46 AZL 93.30 HCA 89.91 SMA 120.54 ECC .26458 INC 3.3014 V1 29.304
RP 108.69 LAP -3.30 LOP 359.83 VP 36.620 GAP -14.29 AZP 90.01 TAL 186.89 TAP 276.80 RCA 88.64 APO 152.43 V2 34.865
RC 47.255 GL -19.38 GP -3.16 ZAL 105.81 ZAP 5.09 ETS 37.80 ZAE 151.65 ETE 16.55 ZAC 90.38 ETC 13.67 CLP -3.99

PLANETOCENTRIC CONIC

C3 19.382 VHL 4.403 DLA -11.28 RAL 157.00 RAD 6567.8 VEL 11.864 PTH 2.10 VHP 8.896 DPA 1.84 RAP 176.22 ECC 1.3190

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 18 11	1849.36	-9.36	19.55	16.53	116.85	5 49 0	1249.4	-5.69	12.79
90.00	14 22 57	5208.55	26.24	233.85	21.44	78.95	15 49 46	4608.6	24.45	225.64
100.00	6 33 51	1605.23	-10.43	1.03	15.97	118.17	7 0 36	1005.2	-6.58	354.36
100.00	15 49 58	4927.90	27.41	212.94	21.16	77.59	17 12 6	4327.9	25.43	204.70
110.00	7 29 14	1431.78	-13.23	346.22	14.32	121.81	7 53 6	831.8	-8.93	339.76
110.00	17 11 4	4674.13	30.55	192.76	20.25	73.85	18 28 59	4074.1	28.03	184.46

DIFFERENTIAL CORRECTIONS
TDE .3931 TRA -.5074 TC3 .6047 BAU .1601
RDE -.3015 RRA -.1072 RC3 .1262 FAU .03391
FDE -.4891 FRA .1394 FC3-1.5145 BSP 2944
BDE .4954 BRA .5186 BC3 .6178 FSP -327

MID-COURSE EXECUTION ACCURACY
SGT 999.3 SGR 432.0 SG3 128.7
RRT -.1061 RRF .1171 RTF -.7797
SGB 1088.7 R23 -.0158 R13 .7803
SG1 1000.6 SG2 429.0 THA 176.78

ORBIT DETERMINATION ACCURACY
ST 550.3 SR 394.7 SS 492.1
CRT -.8843 CRS -.9785 CST .9581
LSA 821.1 MSA 161.6 SSA 20.8
EL1 659.5 EL2 153.8 ALF 145.47

LAUNCH DATE JUN 22 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 16 1967

HELIOCENTRIC CONIC DISTANCE 218.039

RL 152.03 LAL .00 LOL 269.91 VL 25.589 GAL -2.59 AZL 93.26 HCA 93.09 SMA 121.64 ECC .25369 INC 3.2574 V1 29.304
RP 108.66 LAP -3.25 LOP 3.01 VP 36.765 GAP -13.38 AZP 89.82 TAL 187.68 TAP 280.77 RCA 90.78 APO 152.50 V2 34.875
RC 48.458 GL -20.01 GP -3.39 ZAL 107.34 ZAP 6.97 ETS 28.36 ZAE 150.33 ETE 14.80 ZAC 89.39 ETC 13.67 CLP -6.09

PLANETOCENTRIC CONIC

C3 18.015 VHL 4.244 DLA -11.24 RAL 155.24 RAD 6567.7 VEL 11.807 PTH 2.09 VHP 8.386 DPA 1.20 RAP 177.11 ECC 1.2965

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 10 52	1833.42	-8.87	18.63	13.72	117.00	5 41 26	1233.4	-5.18	11.90
90.00	14 16 16	5190.11	25.99	232.56	18.39	78.34	15 42 46	4590.1	24.12	224.39
100.00	6 26 34	1589.23	-9.91	.12	13.16	118.35	6 53 3	989.2	-6.05	353.47
100.00	15 43 16	4909.53	27.14	211.64	18.11	76.96	17 5 5	4309.5	25.07	203.45
110.00	7 22 0	1415.62	-12.64	345.33	11.54	122.03	7 45 36	815.6	-8.32	338.90
110.00	17 4 19	4655.91	30.19	191.45	17.18	73.15	18 21 55	4055.9	27.59	183.23

DIFFERENTIAL CORRECTIONS
TDE .3935 TRA -.4775 TC3 .6927 BAU .1695
RDE -.2904 RRA -.1009 RC3 .1249 FAU .03675
FDE -.5252 FRA .1102 FC3-1.7662 BSP 3059
BDE .4891 BRA .4881 BC3 .7038 FSP -372

MID-COURSE EXECUTION ACCURACY
SGT 1029.5 SGR 429.2 SG3 143.9
RRT -.1236 RRF .1370 RTF -.7920
SGB 1115.4 R23 -.0191 R13 .7927
SG1 1031.1 SG2 425.2 THA 176.44

ORBIT DETERMINATION ACCURACY
ST 566.9 SR 394.3 SS 515.7
CRT -.8948 CRS -.9831 CST .9575
LSA 846.8 MSA 159.0 SSA 21.6
EL1 674.5 EL2 148.0 ALF 146.26

LAUNCH DATE JUN 22 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 18 1967

HELIOCENTRIC CONIC DISTANCE 224.772

RL 152.03 LAL .00 LOL 269.91 VL 25.767 GAL -2.72 AZL 93.21 HCA 96.27 SMA 122.67 ECC .24379 INC 3.2130 V1 29.304
RP 108.63 LAP -3.19 LOP 6.19 VP 36.899 GAP -12.51 AZP 89.65 TAL 188.49 TAP 284.76 RCA 92.76 APO 152.57 V2 34.886
RC 49.776 GL -20.57 GP -3.64 ZAL 108.89 ZAP 9.03 ETS 22.92 ZAE 149.23 ETE 13.21 ZAC 88.48 ETC 13.68 CLP -8.27

PLANETOCENTRIC CONIC

C3 16.852 VHL 4.105 DLA -11.13 RAL 153.49 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 7.899 DPA .56 RAP 177.92 ECC 1.2773

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 3 1	1821.43	-8.50	17.95	11.01	117.11	5 33 22	1221.4	-4.80	11.22
90.00	14 10 8	5171.18	25.72	231.24	15.45	77.73	15 36 19	4571.2	23.77	223.11
100.00	6 18 46	1577.04	-9.52	359.43	10.47	118.47	6 45 3	977.0	-5.64	352.79
100.00	15 37 4	4890.80	26.84	210.33	15.16	76.33	16 58 35	4290.8	24.70	202.18
110.00	7 14 20	1403.01	-12.19	344.64	8.88	122.19	7 37 43	803.0	-7.85	338.23
110.00	16 57 59	4637.60	29.82	190.16	14.22	72.47	18 15 16	4037.6	27.14	182.00

DIFFERENTIAL CORRECTIONS
TDE .3953 TRA -.4456 TC3 .7867 BAU .1793
RDE -.2805 RRA -.0954 RC3 .1202 FAU .04004
FDE -.5661 FRA .0747 FC3-2.0571 BSP 3215
BDE .4847 BRA .4557 BC3 .7958 FSP -425

MID-COURSE EXECUTION ACCURACY
SGT 1059.9 SGR 426.0 SG3 161.4
RRT -.1468 RRF .1613 RTF -.8053
SGB 1142.3 R23 -.0213 R13 .8062
SG1 1062.1 SG2 420.5 THA 176.00

ORBIT DETERMINATION ACCURACY
ST 583.9 SR 393.7 SS 540.8
CRT -.9059 CRS -.9871 CST .9574
LSA 873.8 MSA 155.9 SSA 22.2
EL1 690.0 EL2 141.1 ALF 147.03

LAUNCH DATE JUN 22 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 20 1967

HELIOCENTRIC CONIC DISTANCE 231.500

RL 152.03 LAL .00 LOL 269.91 VL 25.929 GAL -2.84 AZL 93.17 HCA 99.45 SMA 123.62 ECC .23484 INC 3.1681 V1 29.304
RP 108.59 LAP -3.13 LOP 9.38 VP 37.023 GAP -11.68 AZP 89.48 TAL 189.33 TAP 288.78 RCA 94.59 APO 152.65 V2 34.897
RC 51.201 GL -21.06 GP -3.92 ZAL 110.44 ZAP 11.23 ETS 19.47 ZAE 148.36 ETE 11.72 ZAC 87.67 ETC 13.71 CLP -10.54

PLANETOCENTRIC CONIC

C3 15.862 VHL 3.983 DLA -10.97 RAL 151.76 RAD 6567.6 VEL 11.715 PTH 2.06 VHP 7.435 DPA -.07 RAP 178.63 ECC 1.2611

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 54 44	1813.16	-8.24	17.48	8.43	117.19	5 24 57	1213.2	-4.53	10.76
90.00	14 4 36	5151.81	25.43	229.89	12.64	77.12	15 30 28	4551.8	23.41	221.81
100.00	6 10 35	1568.46	-9.24	358.95	7.90	118.56	6 36 43	968.5	-5.36	352.32
100.00	15 31 27	4871.74	26.53	209.00	12.34	75.70	16 52 38	4271.7	24.30	200.91
110.00	7 6 22	1393.75	-11.85	344.13	6.33	122.30	7 29 36	793.7	-7.50	337.74
110.00	16 52 9	4619.22	29.44	188.86	11.38	71.79	18 9 8	4019.2	26.67	180.77

DIFFERENTIAL CORRECTIONS
TDE .3943 TRA -.4160 TC3 .8763 BAU .1873
RDE -.2718 RRA -.0906 RC3 .1117 FAU .04374
FDE -.6103 FRA .0345 FC3-2.3874 BSP 3321
BDE .4788 BRA .4258 BC3 .8834 FSP -484

MID-COURSE EXECUTION ACCURACY
SGT 1086.5 SGR 422.4 SG3 181.0
RRT -.1714 RRF .1891 RTF -.8154
SGB 1165.7 R23 -.0258 R13 .8165
SG1 1089.3 SG2 415.0 THA 175.54

ORBIT DETERMINATION ACCURACY
ST 596.3 SR 393.0 SS 565.3
CRT -.9149 CRS -.9904 CST .9566
LSA 897.4 MSA 154.1 SSA 22.8
EL1 701.3 EL2 134.9 ALF 147.56

LAUNCH DATE JUN 22 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 22 1967

HELIOCENTRIC CONIC DISTANCE 238.221

RL 152.03 LAL .00 LOL 269.91 VL 26.075 GAL -2.95 AZL 93.12 HCA 102.63 SMA 124.50 ECC .22677 INC 3.1223 V1 29.304
RP 108.56 LAP -3.05 LOP 12.56 VP 37.136 GAP -10.88 AZP 89.32 TAL 190.17 TAP 292.80 RCA 96.27 APO 152.73 V2 34.908
RC 52.722 GL -21.47 GP -4.24 ZAL 111.97 ZAP 13.57 ETS 17.12 ZAE 147.73 ETE 10.32 ZAC 86.96 ETC 13.74 CLP -12.90

PLANETOCENTRIC CONIC

C3 15.021 VHL 3.876 DLA -10.74 RAL 150.08 RAD 6567.6 VEL 11.679 PTH 2.05 VHP 6.994 DPA -.69 RAP 179.25 ECC 1.2472

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 46 11	1808.35	-8.09	17.20	5.99	117.23	5 16 19	1208.4	-4.38	10.49
90.00	13 59 45	5132.05	25.13	228.53	9.97	76.50	15 25 17	4532.1	23.02	220.49
100.00	6 2 9	1563.23	-9.07	358.66	5.47	118.61	6 28 13	963.2	-5.18	352.03
100.00	15 26 28	4852.41	26.20	207.66	9.67	75.07	16 47 20	4252.4	23.89	199.62
110.00	6 58 14	1387.61	-11.63	343.80	3.93	122.37	7 21 22	787.6	-7.27	337.41
110.00	16 46 52	4600.79	29.04	187.58	8.70	71.12	18 3 33	4000.8	26.19	179.56

DIFFERENTIAL CORRECTIONS
TDE .3913 TRA -.3874 TC3 .9613 BAU .1941
RDE -.2640 RRA -.0866 RC3 .0989 FAU .04792
FDE -.6584 FRA -.0113 FC3-2.7617 BSP 3409
BDE .4720 BRA .3969 BC3 .9663 FSP -550

MID-COURSE EXECUTION ACCURACY
SGT 1108.9 SGR 418.5 SG3 203.2
RRT -.1997 RRF .2214 RTF -.8238
SGB 1185.2 R23 -.0317 R13 .8253
SG1 1112.5 SG2 408.8 THA 175.02

ORBIT DETERMINATION ACCURACY
ST 604.7 SR 392.2 SS 589.5
CRT -.9228 CRS -.9930 CST .9554
LSA 918.2 MSA 152.9 SSA 23.4
EL1 709.2 EL2 128.9 ALF 147.91

LAUNCH DATE JUN 22 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 24 1967

HELIOCENTRIC CONIC DISTANCE 244.932

RL 152.03 LAL .00 LOL 269.91 VL 26.207 GAL -3.06 AZL 93.08 HCA 105.81 SMA 125.31 ECC .21952 INC 3.0754 V1 29.304
RP 108.52 LAP -2.96 LOP 15.75 VP 37.240 GAP -10.11 AZP 89.16 TAL 191.01 TAP 296.83 RCA 97.80 APO 152.82 V2 34.920
RC 54.330 GL -21.79 GP -4.60 ZAL 113.48 ZAP 16.04 ETS 15.44 ZAE 147.35 ETE 8.95 ZAC 86.37 ETC 13.79 CLP -15.38

PLANETOCENTRIC CONIC

C3 14.304 VHL 3.782 DLA -10.46 RAL 148.47 RAD 6567.6 VEL 11.649 PTH 2.04 VHP 6.576 DPA -1.31 RAP 179.74 ECC 1.2354

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 37 28	1806.68	-8.04	17.11	3.71	117.24	5 7 35	1206.7	-4.33	10.40
90.00	13 55 36	5111.98	24.80	227.15	7.47	75.88	15 20 48	4512.0	22.62	219.16
100.00	5 53 37	1561.04	-9.00	358.53	3.19	118.63	6 19 38	961.0	-5.11	351.90
100.00	15 22 9	4832.85	25.85	206.31	7.16	74.44	16 42 42	4232.8	23.46	198.32
110.00	6 50 3	1384.32	-11.51	343.62	1.69	122.41	7 13 7	784.3	-7.15	337.24
110.00	16 42 12	4582.34	28.63	186.30	6.17	70.47	17 58 34	3982.3	25.70	178.35

DIFFERENTIAL CORRECTIONS

TOE .3869 TRA -.3596 TC3 1.0404 BAU .1996
ROE -.2572 RRA -.0834 RC3 .0813 FAU .05267
FOE -.7116 FRA -.0642 FC3-3.1879 BSP 3483
BOE .4646 BRA .3691 BC3 1.0435 FSP -627

MID-COURSE EXECUTION ACCURACY

SGT 1126.8 SGR 414.8 SG3 228.4
RRT -.2328 RRF .2595 RTF -.8309
SGB 1200.7 R23 -.0389 R13 .8328
SG1 1131.5 SG2 401.8 THA 174.39

ORBIT DETERMINATION ACCURACY

ST 609.7 SR 391.5 SS 614.1
CRT -.9297 CRS -.9949 CST .9539
LSA 937.2 MSA 152.5 SSA 23.7
EL1 714.0 EL2 123.2 ALF 148.10

LAUNCH DATE JUN 22 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 26 1967

HELIOCENTRIC CONIC DISTANCE 251.631

RL 152.03 LAL .00 LOL 269.91 VL 26.326 GAL -3.16 AZL 93.03 HCA 109.00 SMA 126.05 ECC .21304 INC 3.0269 V1 29.304
RP 108.48 LAP -2.86 LOP 18.94 VP 37.335 GAP -9.36 AZP 89.01 TAL 191.84 TAP 300.84 RCA 99.20 APO 152.91 V2 34.932
RC 56.016 GL -22.03 GP -5.01 ZAL 114.92 ZAP 18.66 ETS 14.19 ZAE 147.24 ETE 7.59 ZAC 85.92 ETC 13.84 CLP -18.00

PLANETOCENTRIC CONIC

C3 13.693 VHL 3.700 DLA -10.14 RAL 146.94 RAD 6567.5 VEL 11.622 PTH 2.04 VHP 6.179 DPA -1.92 RAP 180.09 ECC 1.2253

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 28 44	1807.81	-8.08	17.17	1.59	117.23	4 58 52	1207.8	-4.36	10.46
90.00	13 52 10	5091.64	24.46	225.76	5.13	75.26	15 17 2	4491.6	22.19	217.82
100.00	5 45 4	1561.58	-9.01	358.56	1.08	118.62	6 11 5	961.6	-5.12	351.93
100.00	15 18 32	4813.11	25.48	204.96	4.82	73.82	16 38 45	4213.1	23.02	197.03
110.00	6 41 54	1383.57	-11.48	343.58	359.60	122.42	7 4 58	783.6	-7.12	337.20
110.00	16 38 11	4563.88	28.20	185.03	3.82	69.83	17 54 15	3963.9	25.19	177.15

DIFFERENTIAL CORRECTIONS

TOE .3809 TRA -.3333 TC3 1.1118 BAU .2038
ROE -.2513 RRA -.0810 RC3 .0580 FAU .05810
FOE -.7703 FRA -.1241 FC3-3.6734 BSP 3545
BOE .4563 BRA .3430 BC3 1.1134 FSP -715

MID-COURSE EXECUTION ACCURACY

SGT 1140.1 SGR 411.7 SG3 257.1
RRT -.2713 RRF .3039 RTF -.8367
SGB 1212.1 R23 -.0479 R13 .8392
SG1 1146.3 SG2 394.1 THA 173.65

ORBIT DETERMINATION ACCURACY

ST 610.8 SR 391.0 SS 639.0
CRT -.9355 CRS -.9963 CST .9522
LSA 954.2 MSA 152.9 SSA 24.0
EL1 715.6 EL2 117.9 ALF 148.12

LAUNCH DATE JUN 22 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 28 1967

HELIOCENTRIC CONIC DISTANCE 258.315

RL 152.03 LAL .00 LOL 269.91 VL 26.432 GAL -3.25 AZL 92.98 HCA 112.19 SMA 126.73 ECC .20727 INC 2.9765 V1 29.304
RP 108.45 LAP -2.76 LOP 22.13 VP 37.421 GAP -8.65 AZP 88.87 TAL 192.64 TAP 304.83 RCA 100.46 APO 153.00 V2 34.945
RC 57.772 GL -22.19 GP -5.47 ZAL 116.30 ZAP 21.43 ETS 13.24 ZAE 147.39 ETE 6.19 ZAC 85.62 ETC 13.89 CLP -20.75

PLANETOCENTRIC CONIC

C3 13.169 VHL 3.629 DLA -9.77 RAL 145.52 RAD 6567.5 VEL 11.600 PTH 2.03 VHP 5.805 DPA -2.51 RAP 180.29 ECC 1.2167

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 20 6	1811.40	-8.19	17.37	359.64	117.20	4 50 17	1211.4	-4.48	10.66
90.00	13 49 29	5071.09	24.09	224.36	2.98	74.65	15 14 0	4471.1	21.75	216.47
100.00	5 36 38	1564.50	-9.11	358.73	359.14	118.59	6 2 42	964.5	-5.22	352.10
100.00	15 15 38	4793.22	25.10	203.60	2.66	73.21	16 35 31	4193.2	22.56	195.73
110.00	6 33 56	1385.06	-11.54	343.66	357.69	122.40	6 57 1	785.1	-7.18	337.28
110.00	16 34 49	4545.42	27.76	183.78	1.65	69.21	17 50 35	3945.4	24.68	175.96

DIFFERENTIAL CORRECTIONS

TOE .3727 TRA -.3089 TC3 1.1714 BAU .2063
ROE -.2462 RRA -.0795 RC3 .0287 FAU .06423
FOE -.8345 FRA -.1919 FC3-4.2225 BSP 3582
BOE .4467 BRA .3189 BC3 1.1717 FSP -814

MID-COURSE EXECUTION ACCURACY

SGT 1146.3 SGR 409.6 SG3 289.4
RRT -.3153 RRF .3553 RTF -.8408
SGB 1217.2 R23 -.0593 R13 .8441
SG1 1154.4 SG2 385.9 THA 172.76

ORBIT DETERMINATION ACCURACY

ST 607.4 SR 390.6 SS 664.0
CRT -.9402 CRS -.9971 CST .9500
LSA 968.6 MSA 154.0 SSA 24.1
EL1 713.2 EL2 113.4 ALF 147.94

LAUNCH DATE JUN 22 1967 FLIGHT TIME 100.00 ARRIVAL DATE SEP 30 1967

HELIOCENTRIC CONIC DISTANCE 264.983

RL 152.03 LAL .00 LOL 269.91 VL 26.527 GAL -3.34 AZL 92.92 HCA 115.38 SMA 127.34 ECC .20216 INC 2.9237 V1 29.304
RP 108.41 LAP -2.64 LOP 25.32 VP 37.500 GAP -7.96 AZP 88.75 TAL 193.40 TAP 308.79 RCA 101.60 APO 153.08 V2 34.957
RC 59.590 GL -22.26 GP -5.99 ZAL 117.61 ZAP 24.38 ETS 12.50 ZAE 147.83 ETE 4.72 ZAC 85.50 ETC 13.95 CLP -23.68

PLANETOCENTRIC CONIC

C3 12.717 VHL 3.566 DLA -9.36 RAL 144.22 RAD 6567.5 VEL 11.580 PTH 2.03 VHP 5.452 DPA -3.10 RAP 180.32 ECC 1.2093

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 11 39	1817.14	-8.37	17.70	357.87	117.15	4 41 56	1217.1	-4.66	10.98
90.00	13 47 32	5050.33	23.71	222.96	1.00	74.05	15 11 43	4450.3	21.30	215.12
100.00	5 28 24	1569.52	-9.27	359.01	357.38	118.54	5 54 33	969.5	-5.39	352.37
100.00	15 13 28	4773.18	24.70	202.25	.68	72.60	16 33 1	4173.2	22.08	194.43
110.00	6 26 12	1388.52	-11.66	343.85	355.96	122.36	6 49 20	788.5	-7.31	337.46
110.00	16 32 9	4526.95	27.31	182.53	359.66	68.59	17 47 36	3926.9	24.15	174.78

DIFFERENTIAL CORRECTIONS

TOE .3641 TRA -.2850 TC3 1.2225 BAU .2078
ROE -.2420 RRA -.0790 RC3 -.0081 FAU .07128
FOE -.9069 FRA -.2705 FC3-4.8524 BSP 3635
BOE .4372 BRA .2958 BC3 1.2225 FSP -932

MID-COURSE EXECUTION ACCURACY

SGT 1148.0 SGR 409.6 SG3 326.7
RRT -.3675 RRF .4153 RTF -.8445
SGB 1218.9 R23 -.0724 R13 .8490
SG1 1159.0 SG2 377.4 THA 171.64

ORBIT DETERMINATION ACCURACY

ST 601.9 SR 390.8 SS 690.9
CRT -.9443 CRS -.9975 CST .9477
LSA 983.7 MSA 155.5 SSA 24.0
EL1 709.3 EL2 109.1 ALF 147.63

LAUNCH DATE JUN 22 1967 FLIGHT TIME 102.00 ARRIVAL DATE OCT 2 1967

HELIOCENTRIC CONIC DISTANCE 271.633

```
RL  152.03 LAL    .00 LOL 269.91 VL  26.611 GAL  -3.41 AZL  92.87 HCA 118.57 SMA 127.89 ECC .19765 INC 2.8680 V1  29.304
RP  108.37 LAP  -2.52 LOP  28.52 VP  37.572 GAP  -7.30 AZP  88.63 TAL 194.12 TAP 312.70 RCA 102.61 APO 153.16 V2  34.970
RC  61.464 GL  -22.25 GP   -6.59 ZAL 118.82 ZAP  27.53 ETS  11.90 ZAE 148.55 ETE   3.10 ZAC  85.57 ETC  14.00 CLP -26.79
```

PLANETOCENTRIC CONIC

```
C3  12.525 VHL  3.511 DLA  -8.92 RAL 143.04 RAO 6567.5 VEL 11.563 PTH   2.02 VHP  5.122 DPA  -3.68 RAP 180.15 ECC 1.2028
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 3 27	1824.72	-8.60	18.13	356.28	117.08	4 33 52	1224.7	-4.90	11.41
90.00	13 46 21	5029.38	23.31	221.55	359.21	73.46	15 10 10	4429.4	20.82	213.76
100.00	5 20 27	1576.33	-9.49	359.39	355.80	118.48	5 46 43	976.3	-5.62	352.75
100.00	15 12 2	4753.00	24.28	200.90	358.88	72.00	16 31 15	4153.0	21.59	193.13
110.00	6 18 47	1393.66	-11.85	344.13	354.40	122.30	6 42 1	793.7	-7.50	337.73
110.00	16 30 12	4508.43	26.84	181.29	357.85	67.99	17 45 20	3908.4	23.62	173.61

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE  .3507 TRA -.2660 TC3 1.2492 BAU  .2060    SGT 1135.8 SGR  412.4 SG3  367.8     ST   588.0 SR   391.2 SS   715.5
ROE -.2385 RRA -.0794 RC3 -.0525 FAU .07907    RRT -.4216 RRF  .4811 RTF -.8439    CRT -.9461 CRS -.9975 CST  .9440
FOE -.9821 FRA -.3551 FC3-5.5540 BSP   3613    SGB 1208.4 R23 -.0917 R13  .8502    LSA  992.5 MSA  158.1 SSA   23.8
BOE  .4241 BRA  .2776 BC3 1.2503 FSP  -1061    SG1 1150.6 SG2  369.2 THA 170.29    EL1  698.1 EL2  106.7 ALF 146.93
```

LAUNCH DATE JUN 22 1967 FLIGHT TIME 104.00 ARRIVAL DATE OCT 4 1967

HELIOCENTRIC CONIC DISTANCE 278.265

```
RL  152.03 LAL    .00 LOL 269.91 VL  26.685 GAL  -3.48 AZL  92.81 HCA 121.77 SMA 128.38 ECC .19369 INC 2.8087 V1  29.304
RP  108.33 LAP  -2.39 LOP  31.71 VP  37.636 GAP  -6.66 AZP  88.52 TAL 194.78 TAP 316.55 RCA 103.51 APO 153.24 V2  34.983
RC  63.388 GL  -22.15 GP   -7.27 ZAL 119.94 ZAP  30.89 ETS  11.42 ZAE 149.56 ETE   1.27 ZAC  85.86 ETC  14.04 CLP -30.10
```

PLANETOCENTRIC CONIC

```
C3  11.979 VHL  3.461 DLA  -8.45 RAL 142.00 RAO 6567.5 VEL 11.548 PTH   2.02 VHP  4.814 DPA  -4.25 RAP 179.76 ECC 1.1971
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 55 35	1833.90	-8.88	18.66	354.87	117.00	4 26 9	1233.9	-5.19	11.92
90.00	13 45 55	5008.17	22.89	220.14	357.60	72.87	15 9 23	4408.2	20.33	212.40
100.00	5 12 50	1584.71	-9.77	359.87	354.40	118.39	5 39 15	984.7	-5.90	353.22
100.00	15 11 22	4732.60	23.84	199.54	357.27	71.41	16 30 14	4132.6	21.08	191.83
110.00	6 11 44	1400.28	-12.09	344.49	353.02	122.22	6 35 4	800.3	-7.75	338.08
110.00	16 28 57	4489.79	26.36	180.06	356.22	67.41	17 43 47	3889.8	23.07	172.45

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE  .3349 TRA -.2504 TC3 1.2566 BAU  .2020    SGT 1113.4 SGR  419.6 SG3  414.0     ST   569.1 SR   392.4 SS   740.0
ROE -.2358 RRA -.0808 RC3 -.1063 FAU .08781    RRT -.4788 RRF  .5528 RTF -.8404    CRT -.9464 CRS -.9974 CST  .9392
FOE-1.0633 FRA -.4475 FC3-6.3462 BSP   3560    SGB 1189.9 R23 -.1171 R13  .8496    LSA  999.5 MSA  161.3 SSA   23.5
BOE  .4096 BRA  .2632 BC3 1.2610 FSP  -1207    SG1 1133.5 SG2  361.9 THA 168.59    EL1  683.2 EL2  105.6 ALF 145.95
```

LAUNCH DATE JUN 22 1967 FLIGHT TIME 106.00 ARRIVAL DATE OCT 6 1967

HELIOCENTRIC CONIC DISTANCE 284.877

```
RL  152.03 LAL    .00 LOL 269.91 VL  26.750 GAL  -3.54 AZL  92.75 HCA 124.97 SMA 128.81 ECC .19023 INC 2.7451 V1  29.304
RP  108.29 LAP  -2.25 LOP  34.91 VP  37.694 GAP  -6.04 AZP  88.43 TAL 195.38 TAP 320.35 RCA 104.30 APO 153.31 V2  34.996
RC  65.357 GL  -21.98 GP   -8.04 ZAL 120.95 ZAP  34.48 ETS  11.00 ZAE 150.87 ETE 359.12 ZAC  86.39 ETC  14.06 CLP -33.64
```

PLANETOCENTRIC CONIC

```
C3  11.671 VHL  3.416 DLA  -7.95 RAL 141.10 RAO 6567.4 VEL 11.535 PTH   2.01 VHP  4.528 DPA  -4.81 RAP 179.13 ECC 1.1921
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 48 4	1844.55	-9.21	19.27	353.64	116.89	4 18 49	1244.5	-5.53	12.52
90.00	13 46 16	4986.58	22.45	218.71	356.17	72.28	15 9 23	4386.6	19.82	211.03
100.00	5 5 35	1594.50	-10.08	.42	353.18	118.29	5 32 9	994.5	-6.23	353.76
100.00	15 11 27	4711.85	23.39	198.17	355.83	70.83	16 29 59	4111.9	20.56	190.51
110.00	6 5 4	1408.23	-12.38	344.93	351.82	122.12	6 28 32	808.2	-8.05	338.51
110.00	16 28 26	4470.90	25.86	178.82	354.78	66.83	17 42 57	3870.9	22.50	171.27

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE  .3177 TRA -.2369 TC3 1.2452 BAU  .1961    SGT 1081.0 SGR  433.3 SG3  466.1     ST   546.8 SR   394.8 SS   765.8
ROE -.2340 RRA -.0836 RC3 -.1714 FAU .09765    RRT -.5378 RRF  .6288 RTF -.8343    CRT -.9454 CRS -.9971 CST  .9335
FOE-1.1517 FRA -.5518 FC3-7.2435 BSP   3506    SGB 1164.6 R23 -.1484 R13  .8483    LSA 1006.8 MSA  164.6 SSA   23.0
BOE  .3945 BRA  .2512 BC3 1.2570 FSP  -1376    SG1 1108.8 SG2  356.2 THA 166.41    EL1  666.1 EL2  105.6 ALF 144.66
```

LAUNCH DATE JUN 22 1967 FLIGHT TIME 108.00 ARRIVAL DATE OCT 8 1967

HELIOCENTRIC CONIC DISTANCE 291.469

```
RL  152.03 LAL    .00 LOL 269.91 VL  26.806 GAL  -3.58 AZL  92.68 HCA 128.17 SMA 129.19 ECC .18723 INC 2.6764 V1  29.304
RP  108.25 LAP  -2.10 LOP  38.11 VP  37.747 GAP  -5.45 AZP  88.35 TAL 195.91 TAP 324.08 RCA 105.00 APO 153.37 V2  35.009
RC  67.365 GL  -21.73 GP   -8.92 ZAL 121.87 ZAP  38.33 ETS  10.62 ZAE 152.47 ETE 356.50 ZAC  87.17 ETC  14.04 CLP -37.43
```

PLANETOCENTRIC CONIC

```
C3  11.390 VHL  3.375 DLA  -7.42 RAL 140.35 RAO 6567.4 VEL 11.523 PTH   2.01 VHP  4.266 DPA  -5.38 RAP 178.24 ECC 1.1875
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 40 55	1856.54	-9.58	19.96	352.59	116.77	4 11 52	1256.5	-5.91	13.20
90.00	13 47 25	4964.45	21.99	217.25	354.91	71.69	15 10 10	4364.5	19.28	209.62
100.00	4 58 42	1605.59	-10.44	1.05	352.14	118.17	5 25 28	1005.6	-6.59	354.38
100.00	15 12 19	4690.62	22.90	196.77	354.57	70.25	16 30 30	4090.6	20.00	189.18
110.00	5 58 49	1417.38	-12.71	345.43	350.79	122.00	6 22 27	817.4	-8.39	339.00
110.00	16 28 42	4451.61	25.34	177.56	353.50	66.25	17 42 53	3851.6	21.91	170.09

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

```
TOE  .2951 TRA -.2301 TC3 1.1986 BAU  .1864    SGT 1029.9 SGR  454.6 SG3  522.1     ST   515.3 SR   397.8 SS   787.2
ROE -.2328 RRA -.0873 RC3 -.2485 FAU .10822    RRT -.5869 RRF  .7027 RTF -.8198    CRT -.9407 CRS -.9968 CST  .9244
FOE-1.2383 FRA -.6574 FC3-8.2258 BSP   3362    SGB 1125.7 R23 -.1926 R13  .8425    LSA 1007.2 MSA  168.7 SSA   22.5
BOE  .3759 BRA  .2461 BC3 1.2240 FSP  -1555    SG1 1068.4 SG2  354.8 THA 163.62    EL1  641.9 EL2  108.4 ALF 142.77
```

LAUNCH DATE JUN 22 1967 FLIGHT TIME 110.00 ARRIVAL DATE OCT 10 1967

DISTANCE 298.040

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 26.854 GAL -3.62 AZL 92.60 HCA 131.37 SMA 129.51 ECC .18464 INC 2.6012 V1 29.304
RP 108.20 LAP -1.95 LOP 41.31 VP 37.793 GAP -4.87 AZP 88.28 TAL 196.36 TAP 327.73 RCA 105.60 APO 153.43 V2 35.023
RC 69.409 GL -21.38 GP -9.93 ZAL 122.68 ZAP 42.44 ETS 10.25 ZAE 154.33 ETE 353.20 ZAC 88.24 ETC 13.98 CLP -41.48

PLANETOCENTRIC CONIC
C3 11.130 VHL 3.336 DLA -6.85 RAL 139.75 RAD 6567.4 VEL 11.512 PTH 2.01 VHP 4.029 DPA -5.95 RAP 177.06 ECC 1.1832

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 34 7	1869.90	-9.99	20.73	351.71	116.63	4 5 17	1269.9	-6.34	13.95
90.00	13 49 26	4941.53	21.49	215.76	353.82	71.11	15 11 47	4341.5	18.71	208.18
100.00	4 52 11	1618.04	-10.84	1.76	351.26	118.03	5 19 9	1018.0	-7.01	355.07
100.00	15 14 2	4668.63	22.39	195.34	353.47	69.66	16 31 51	4068.6	19.42	187.80
110.00	5 52 58	1427.76	-13.08	346.00	349.94	121.87	6 16 45	827.8	-8.78	339.55
110.00	16 29 45	4431.67	24.79	176.28	352.40	65.67	17 43 37	3831.7	21.29	168.87

DIFFERENTIAL CORRECTIONS
TOE .2691 TRA -.2281 TC3 1.1202 BAU .1742
ROE -.2324 RRA -.0922 RC3 -.3404 FAU .11961
FOE-1.3235 FRA -.7661 FC3-9.3040 BSP 3177
BOE .3556 BRA .2460 BC3 1.1708 FSP -1749

MID-COURSE EXECUTION ACCURACY
SGT 963.3 SGR 486.1 SG3 582.5
RRT -.6221 RRF .7715 RTF -.7956
SGB 1079.0 R23 -.2482 R13 .8344
SG1 1017.0 SG2 360.5 THA 159.95

ORBIT DETERMINATION ACCURACY
ST 477.6 SR 402.0 SS 805.8
CRT -.9319 CRS -.9965 CST .9113
LSA 1004.3 MSA 173.0 SSA 21.9
EL1 613.9 EL2 113.4 ALF 140.27

LAUNCH DATE JUN 22 1967 FLIGHT TIME 112.00 ARRIVAL DATE OCT 12 1967

DISTANCE 304.588

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 26.895 GAL -3.64 AZL 92.52 HCA 134.58 SMA 129.79 ECC .18242 INC 2.5182 V1 29.304
RP 108.16 LAP -1.79 LOP 44.52 VP 37.835 GAP -4.32 AZP 88.23 TAL 196.73 TAP 331.31 RCA 106.11 APO 153.47 V2 35.036
RC 71.485 GL -20.95 GP -11.08 ZAL 123.39 ZAP 46.83 ETS 9.86 ZAE 156.42 ETE 348.88 ZAC 89.59 ETC 13.86 CLP -45.80

PLANETOCENTRIC CONIC
C3 10.883 VHL 3.299 DLA -6.23 RAL 139.30 RAD 6567.4 VEL 11.501 PTH 2.00 VHP 3.816 DPA -6.54 RAP 175.57 ECC 1.1791

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 27 36	1884.77	-10.44	21.58	351.00	116.47	3 59 1	1284.8	-6.80	14.79
90.00	13 52 21	4917.44	20.95	214.20	352.89	70.50	15 14 19	4317.4	18.10	206.68
100.00	4 45 59	1631.91	-11.28	2.55	350.56	117.87	5 13 11	1031.9	-7.47	355.84
100.00	15 16 39	4645.53	21.84	193.85	352.54	69.06	16 34 5	4045.5	18.79	186.37
110.00	5 47 28	1439.45	-13.50	346.65	349.26	121.71	6 11 27	839.4	-9.21	340.18
110.00	16 31 41	4410.75	24.19	174.94	351.46	65.08	17 45 11	3810.8	20.63	167.61

DIFFERENTIAL CORRECTIONS
TOE .2418 TRA -.2296 TC3 1.0126 BAU .1613
ROE -.2330 RRA -.0987 RC3 -.4513 FAU .13192
FOE-1.4096 FRA -.8804 FC-10.4945 BSP 3007
BOE .3358 BRA .2499 BC3 1.1086 FSP -1969

MID-COURSE EXECUTION ACCURACY
SGT 885.2 SGR 531.2 SG3 648.3
RRT -.6375 RRF .8324 RTF -.7584
SGB 1032.4 R23 -.3088 R13 .8276
SG1 961.1 SG2 377.0 THA 154.95

ORBIT DETERMINATION ACCURACY
ST 437.3 SR 408.1 SS 824.4
CRT -.9185 CRS -.9964 CST .8934
LSA 1002.8 MSA 177.1 SSA 21.3
EL1 585.9 EL2 120.5 ALF 137.15

LAUNCH DATE JUN 22 1967 FLIGHT TIME 114.00 ARRIVAL DATE OCT 14 1967

DISTANCE 311.115

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 26.929 GAL -3.66 AZL 92.43 HCA 137.78 SMA 130.03 ECC .18054 INC 2.4254 V1 29.304
RP 108.12 LAP -1.63 LOP 47.72 VP 37.871 GAP -3.78 AZP 88.20 TAL 197.02 TAP 334.81 RCA 106.55 APO 153.50 V2 35.049
RC 73.590 GL -20.40 GP -12.39 ZAL 124.00 ZAP 51.50 ETS 9.41 ZAE 158.64 ETE 343.06 ZAC 91.24 ETC 13.65 CLP -50.40

PLANETOCENTRIC CONIC
C3 10.642 VHL 3.262 DLA -5.56 RAL 139.01 RAD 6567.4 VEL 11.490 PTH 2.00 VHP 3.631 DPA -7.17 RAP 173.78 ECC 1.1751

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 21 20	1901.39	-10.95	22.55	350.45	116.28	3 53 1	1301.4	-7.33	15.74
90.00	13 56 19	4891.70	20.36	212.54	352.12	69.88	15 17 50	4291.7	17.43	205.09
100.00	4 40 2	1647.46	-11.78	3.44	350.02	117.67	5 7 30	1047.5	-7.98	356.71
100.00	15 20 17	4620.86	21.23	192.27	351.77	68.45	16 37 18	4020.9	18.11	184.86
110.00	5 42 16	1452.65	-13.97	347.38	348.74	121.52	6 6 29	852.6	-9.70	340.88
110.00	16 34 33	4388.43	23.54	173.53	350.68	64.47	17 47 41	3788.4	19.91	166.27

DIFFERENTIAL CORRECTIONS
TOE .2092 TRA -.2384 TC3 .8575 BAU .1474
ROE -.2338 RRA -.1058 RC3 -.5811 FAU .14416
FOE-1.4761 FRA -.9810 FC-11.7276 BSP 2785
BOE .3138 BRA .2608 BC3 1.0359 FSP -2185

MID-COURSE EXECUTION ACCURACY
SGT 790.6 SGR 589.2 SG3 713.9
RRT -.6107 RRF .8809 RTF -.6897
SGB 986.0 R23 -.3678 R13 .8231
SG1 895.9 SG2 411.7 THA 148.01

ORBIT DETERMINATION ACCURACY
ST 388.9 SR 414.6 SS 832.5
CRT -.8932 CRS -.9963 CST .8633
LSA 991.4 MSA 181.6 SSA 20.7
EL1 553.1 EL2 131.1 ALF 132.95

LAUNCH DATE JUN 22 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 16 1967

DISTANCE 317.620

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 26.957 GAL -3.66 AZL 92.32 HCA 140.99 SMA 130.22 ECC .17897 INC 2.3203 V1 29.304
RP 108.08 LAP -1.46 LOP 50.93 VP 37.903 GAP -3.26 AZP 88.20 TAL 197.23 TAP 338.22 RCA 106.91 APO 153.52 V2 35.062
RC 75.721 GL -19.74 GP -13.87 ZAL 124.52 ZAP 56.43 ETS 8.88 ZAE 160.83 ETE 335.07 ZAC 93.18 ETC 13.32 CLP -55.28

PLANETOCENTRIC CONIC
C3 10.403 VHL 3.225 DLA -4.81 RAL 138.88 RAD 6567.4 VEL 11.480 PTH 2.00 VHP 3.473 DPA -7.86 RAP 171.67 ECC 1.1712

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 15 9	1920.25	-11.51	23.64	350.08	116.05	3 47 10	1320.3	-7.92	16.81
90.00	14 1 27	4863.62	19.69	210.75	351.51	69.23	15 22 31	4263.6	16.69	203.36
100.00	4 34 14	1665.16	-12.33	4.46	349.66	117.45	5 1 59	1065.2	-8.56	357.71
100.00	15 25 4	4593.95	20.55	190.56	351.15	67.80	16 41 38	3993.9	17.35	183.22
110.00	5 37 17	1467.75	-14.51	348.22	348.40	121.30	6 1 45	867.8	-10.26	341.70
110.00	16 38 30	4364.12	22.82	172.01	350.05	63.83	17 51 14	3764.1	19.12	164.83

DIFFERENTIAL CORRECTIONS
TOE .1736 TRA -.2528 TC3 .6563 BAU .1369
ROE -.2346 RRA -.1136 RC3 -.7340 FAU .15605
FOE-1.5191 FRA-1.0651 FC-12.9871 BSP 2587
BOE .2919 BRA .2771 BC3 .9846 FSP -2394

MID-COURSE EXECUTION ACCURACY
SGT 690.9 SGR 662.4 SG3 777.9
RRT -.5194 RRF .9180 RTF -.5663
SGB 957.2 R23 -.3879 R13 .8386
SG1 834.6 SG2 468.6 THA 137.32

ORBIT DETERMINATION ACCURACY
ST 337.0 SR 421.4 SS 830.9
CRT -.8486 CRS -.9964 CST .8127
LSA 972.9 MSA 186.0 SSA 20.1
EL1 519.8 EL2 144.5 ALF 127.57

LAUNCH DATE JUN 22 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 18 1967

HELIOCENTRIC CONIC DISTANCE 324.102

RL 152.03 LAL .00 LOL 269.91 VL 26.979 GAL -3.65 AZL 92.20 HCA 144.21 SMA 130.37 ECC .17766 INC 2.1994 V1 29.304
RP 108.04 LAP -1.29 LOP 54.14 VP 37.930 GAP -2.75 AZP 88.22 TAL 197.35 TAP 341.56 RCA 107.21 APO 153.53 V2 35.075
RC 77.874 GL -18.92 GP -15.56 ZAL 124.94 ZAP 61.60 ETS 8.22 ZAE 162.69 ETE 324.10 ZAC 95.38 ETC 12.86 CLP -60.42

PLANETOCENTRIC CONIC

C3 10.159 VHL 3.187 DLA -3.96 RAL 138.92 RAD 6567.4 VEL 11.469 PTH 1.99 VHP 3.344 DPA -8.65 RAP 169.26 ECC 1.1672

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 8 55	1942.12	-12.16	24.92	349.89	115.77	3 41 17	1342.1	-8.60	18.06
90.00	14 8 1	4832.24	18.92	208.77	351.04	68.53	15 28 33	4232.2	15.84	201.45
100.00	4 28 24	1685.71	-12.97	5.65	349.47	117.17	4 56 30	1085.7	-9.23	358.86
100.00	15 31 13	4563.89	19.76	188.67	350.68	67.10	16 47 17	3963.9	16.49	181.41
110.00	5 32 23	1485.39	-15.13	349.21	348.24	121.02	5 57 9	885.4	-10.91	342.65
110.00	16 43 43	4336.97	22.00	170.34	349.57	63.15	17 56 0	3737.0	18.22	163.24

DIFFERENTIAL CORRECTIONS
TDE .1380 TRA -.2704 TC3 .4126 BAU .1364
RDE -.2356 RRA -.1223 RC3 -.9158 FAU .16733
FDE-1.5387 FRA-1.1339 FC-14.2569 BSP 2537
BDE .2730 BRA .2968 BC3 1.0045 FSP -2607

MID-COURSE EXECUTION ACCURACY
SGT 606.6 SGR 754.1 SG3 839.7
RRT -.3304 RRF .9453 RTF -.3531
SGB 967.8 R23 -.2768 R13 .9049
SG1 806.1 SG2 535.6 THA 118.21

ORBIT DETERMINATION ACCURACY
ST 288.0 SR 428.9 SS 822.4
CRT -.7731 CRS -.9965 CST .7303
LSA 952.2 MSA 190.3 SSA 19.5
EL1 491.4 EL2 159.4 ALF 121.06

LAUNCH DATE JUN 22 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 20 1967

HELIOCENTRIC CONIC DISTANCE 330.562

RL 152.03 LAL .00 LOL 269.91 VL 26.995 GAL -3.63 AZL 92.06 HCA 147.42 SMA 130.48 ECC .17661 INC 2.0582 V1 29.304
RP 108.00 LAP -1.11 LOP 57.35 VP 37.954 GAP -2.26 AZP 88.27 TAL 197.39 TAP 344.81 RCA 107.44 APO 153.52 V2 35.088
RC 80.046 GL -17.90 GP -17.48 ZAL 125.28 ZAP 66.96 ETS 7.38 ZAE 163.80 ETE 309.79 ZAC 97.81 ETC 12.21 CLP -65.77

PLANETOCENTRIC CONIC

C3 9.908 VHL 3.148 DLA -2.97 RAL 139.15 RAD 6567.4 VEL 11.458 PTH 1.99 VHP 3.247 DPA -9.57 RAP 166.57 ECC 1.1631

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 2 22	1968.11	-12.93	26.45	349.88	115.41	3 35 10	1368.1	-9.40	19.54
90.00	14 16 21	4796.23	18.01	206.52	350.73	67.77	15 36 17	4196.2	14.84	199.28
100.00	4 22 20	1710.18	-13.73	7.07	349.47	116.82	4 50 50	1110.2	-10.02	.25
100.00	15 39 5	4529.40	18.83	186.53	350.36	66.35	16 54 34	3929.4	15.47	179.35
110.00	5 27 24	1506.49	-15.87	350.40	348.26	120.68	5 52 30	906.5	-11.68	343.80
110.00	16 50 30	4305.85	21.03	168.44	349.24	62.41	18 2 16	3705.9	17.17	161.44

DIFFERENTIAL CORRECTIONS
TDE .1007 TRA -.2932 TC3 .1122 BAU .1499
RDE -.2346 RRA -.1303 RC3-1.1263 FAU .17647
FDE-1.5069 FRA-1.1609 FC-15.4205 BSP 2660
BDE .2553 BRA .3208 BC3 1.1319 FSP -2779

MID-COURSE EXECUTION ACCURACY
SGT 569.3 SGR 861.1 SG3 890.5
RRT -.0029 RRF .9641 RTF -.0098
SGB 1032.3 R23 .0048 R13 .9641
SG1 861.1 SG2 569.3 THA 90.20

ORBIT DETERMINATION ACCURACY
ST 243.5 SR 433.5 SS 794.2
CRT -.6337 CRS -.9966 CST .5826
LSA 916.3 MSA 194.8 SSA 19.0
EL1 465.2 EL2 175.5 ALF 113.06

LAUNCH DATE JUN 22 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 22 1967

HELIOCENTRIC CONIC DISTANCE 337.000

RL 152.03 LAL .00 LOL 269.91 VL 27.007 GAL -3.60 AZL 91.89 HCA 150.64 SMA 130.56 ECC .17578 INC 1.8895 V1 29.304
RP 107.96 LAP -.93 LOP 60.56 VP 37.974 GAP -1.79 AZP 88.35 TAL 197.35 TAP 347.98 RCA 107.61 APO 153.51 V2 35.101
RC 82.236 GL -16.63 GP -19.68 ZAL 125.54 ZAP 72.43 ETS 6.32 ZAE 163.66 ETE 293.35 ZAC 100.41 ETC 11.34 CLP -71.31

PLANETOCENTRIC CONIC

C3 9.643 VHL 3.105 DLA -1.77 RAL 139.57 RAD 6567.3 VEL 11.447 PTH 1.99 VHP 3.184 DPA -10.69 RAP 163.63 ECC 1.1587

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 55 9	2000.02	-13.85	28.33	350.09	114.95	3 28 29	1400.0	-10.37	21.38
90.00	14 26 59	4753.62	16.89	203.90	350.59	66.93	15 46 12	4153.6	13.62	196.74
100.00	4 15 40	1740.28	-14.65	8.84	349.69	116.35	4 44 40	1140.3	-10.99	1.96
100.00	15 49 8	4488.59	17.70	184.03	350.21	65.51	17 3 57	3888.6	14.25	176.94
110.00	5 22 1	1532.56	-16.77	351.89	348.51	120.23	5 47 34	932.6	-12.62	345.23
110.00	16 59 16	4269.07	19.85	166.24	349.08	61.58	18 10 25	3669.1	15.90	159.34

DIFFERENTIAL CORRECTIONS
TDE .0656 TRA -.3180 TC3 -.2406 BAU .1795
RDE -.2305 RRA -.1367 RC3-1.3712 FAU .18282
FDE-1.4155 FRA-1.1419 FC-16.4134 BSP 3037
BDE .2396 BRA .3462 BC3 1.3922 FSP -2902

MID-COURSE EXECUTION ACCURACY
SGT 617.8 SGR 984.8 SG3 927.2
RRT .3681 RRF .9768 RTF .3687
SGB 1162.5 R23 .1658 R13 .9627
SG1 1022.4 SG2 553.2 THA 71.36

ORBIT DETERMINATION ACCURACY
ST 213.7 SR 432.7 SS 744.1
CRT -.4110 CRS -.9967 CST .3517
LSA 864.0 MSA 199.4 SSA 18.7
EL1 443.6 EL2 190.1 ALF 104.12

LAUNCH DATE JUN 22 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 24 1967

HELIOCENTRIC CONIC DISTANCE 343.415

RL 152.03 LAL .00 LOL 269.91 VL 27.013 GAL -3.56 AZL 91.68 HCA 153.86 SMA 130.61 ECC .17515 INC 1.6831 V1 29.304
RP 107.92 LAP -.74 LOP 63.78 VP 37.990 GAP -1.33 AZP 88.49 TAL 197.22 TAP 351.08 RCA 107.73 APO 153.48 V2 35.113
RC 84.440 GL -15.00 GP -22.21 ZAL 125.72 ZAP 77.93 ETS 4.98 ZAE 161.98 ETE 277.66 ZAC 103.12 ETC 10.19 CLP -76.95

PLANETOCENTRIC CONIC

C3 9.362 VHL 3.060 DLA -.27 RAL 140.23 RAD 6567.3 VEL 11.435 PTH 1.98 VHP 3.158 DPA -12.12 RAP 160.48 ECC 1.1541

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 46 40	2040.68	-15.00	30.76	350.56	114.30	3 20 41	1440.7	-11.60	23.74
90.00	14 40 43	4701.39	15.47	200.72	350.64	65.98	15 59 4	4101.4	12.10	193.67
100.00	4 7 53	1778.69	-15.80	11.11	350.18	115.71	4 37 32	1178.7	-12.21	4.16
100.00	16 2 11	4438.60	16.26	181.02	350.26	64.57	17 16 9	3838.6	12.71	174.03
110.00	5 15 50	1565.97	-17.90	353.81	349.03	119.62	5 41 56	966.0	-13.82	347.07
110.00	17 10 42	4224.09	18.37	163.59	349.11	60.65	18 21 7	3624.1	14.32	156.81

DIFFERENTIAL CORRECTIONS
TDE .0368 TRA -.3419 TC3 -.6437 BAU .2227
RDE -.2218 RRA -.1412 RC3-1.6589 FAU .18573
FDE-1.2615 FRA-1.0784 FC-17.1746 BSP 3674
BDE .2248 BRA .3699 BC3 1.7794 FSP -2981

MID-COURSE EXECUTION ACCURACY
SGT 754.8 SGR 1128.2 SG3 946.9
RRT .6348 RRF .9854 RTF .6371
SGB 1357.4 R23 .2044 R13 .9640
SG1 1251.5 SG2 525.8 THA 61.52

ORBIT DETERMINATION ACCURACY
ST 204.4 SR 423.8 SS 671.0
CRT -.1504 CRS -.9965 CST .0851
LSA 793.4 MSA 204.6 SSA 18.5
EL1 425.3 EL2 201.4 ALF 95.35

LAUNCH DATE JUN 22 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 26 1967

DISTANCE 349.809

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 27.016 GAL -3.51 AZL 91.42 HCA 157.08 SMA 130.62 ECC .17470 INC 1.4232 V1 29.304
RP 107.89 LAP -.55 LOP 67.00 VP 38.003 GAP -.88 AZP 88.69 TAL 197.02 TAP 354.09 RCA 107.80 APO 153.44 V2 35.125
RC 86.655 GL -12.85 GP -25.19 ZAL 125.83 ZAP 83.34 ETS 3.28 ZAE 158.83 ETE 265.15 ZAC 105.83 ETC 8.70 CLP -82.64

PLANETOCENTRIC CONIC
C3 9.065 VHL 3.011 DLA 1.68 RAL 141.18 RAD 6567.3 VEL 11.422 PTH 1.98 VHP 3.175 DPA -13.96 RAP 157.15 ECC 1.1492

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 36 1	2094.74	-16.49	34.03	351.39	113.35	3 10 55	1494.7	-13.19	26.91
90.00	14 58 54	4634.80	13.59	196.74	350.94	64.91	16 16 9	4034.8	10.09	189.80
100.00	3 58 8	1829.85	-17.28	14.19	351.02	114.78	4 28 38	1229.8	-13.80	7.13
100.00	16 19 28	4374.93	14.36	177.24	350.55	63.50	17 32 23	3774.9	10.69	170.38
110.00	5 8 10	1610.65	-19.38	356.43	349.90	118.72	5 35 1	1010.6	-15.40	349.57
110.00	17 25 55	4166.90	16.43	160.29	349.39	59.60	18 35 22	3566.9	12.27	153.65

DIFFERENTIAL CORRECTIONS
TDE .0183 TRA -.3628 TC3-1.1018 BAU .2759
RDE -.2036 RRA -.1407 RC3-1.9917 FAU .18373
FDE-1.0221 FRA -.9514 FC-17.5463 BSP 4494
BDE .2044 BRA .3891 BC3 2.2761 FSP -2970

MID-COURSE EXECUTION ACCURACY
SGT 958.3 SGR 1288.5 SG3 941.3
RRT .7833 RRF .9909 RTF .7847
SGB 1605.8 R23 .2059 R13 .9694
SG1 1524.8 SG2 503.4 THA 55.49

ORBIT DETERMINATION ACCURACY
ST 211.0 SR 397.3 SS 560.8
CRT .0460 CRS -.9956 CST -.1185
LSA 686.9 MSA 211.3 SSA 19.0
EL1 397.5 EL2 210.7 ALF 88.05

LAUNCH DATE JUN 22 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 28 1967

DISTANCE 356.181

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 27.014 GAL -3.45 AZL 91.08 HCA 160.30 SMA 130.61 ECC .17442 INC 1.0833 V1 29.304
RP 107.85 LAP -.37 LOP 70.21 VP 38.013 GAP -.44 AZP 88.98 TAL 196.73 TAP 357.03 RCA 107.83 APO 153.39 V2 35.137
RC 88.880 GL -9.92 GP -28.77 ZAL 125.85 ZAP 88.50 ETS 1.12 ZAE 154.42 ETE 256.32 ZAC 108.45 ETC 6.75 CLP -88.29

PLANETOCENTRIC CONIC
C3 8.756 VHL 2.959 DLA 4.33 RAL 142.50 RAD 6567.3 VEL 11.408 PTH 1.97 VHP 3.245 DPA -16.41 RAP 153.63 ECC 1.1441

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 21 32	2170.53	-18.48	38.71	352.75	111.85	2 57 42	1570.5	-15.35	31.43
90.00	15 23 57	4545.72	10.95	191.52	351.62	63.72	16 39 43	3945.7	7.34	184.71
100.00	3 44 54	1901.62	-19.27	18.58	352.40	113.30	4 16 36	1301.6	-15.96	11.36
100.00	16 43 16	4289.87	11.72	172.30	351.22	62.31	17 54 46	3689.9	7.93	165.58
110.00	4 57 48	1673.46	-21.39	.19	351.33	117.32	5 25 41	1073.5	-17.56	353.16
110.00	17 46 51	4090.79	13.76	156.01	350.04	58.40	18 55 2	3490.8	9.48	149.52

DIFFERENTIAL CORRECTIONS
TDE .0186 TRA -.3756 TC3-1.6082 BAU .3368
RDE -.1713 RRA -.1335 RC3-2.3853 FAU .17650
FDE -.7016 FRA -.7708 FC-17.4505 BSP 5480
BDE .1723 BRA .3986 BC3 2.8768 FSP -2883

MID-COURSE EXECUTION ACCURACY
SGT 1199.6 SGR 1473.1 SG3 909.2
RRT .8605 RRF .9946 RTF .8612
SGB 1899.8 R23 .1946 R13 .9754
SG1 1835.4 SG2 490.4 THA 51.76

ORBIT DETERMINATION ACCURACY
ST 223.6 SR 343.3 SS 410.4
CRT .0821 CRS -.9922 CST -.1780
LSA 535.1 MSA 222.4 SSA 20.8
EL1 344.1 EL2 222.3 ALF 84.74

LAUNCH DATE JUN 22 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 30 1967

DISTANCE 362.531

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 27.009 GAL -3.38 AZL 90.62 HCA 163.52 SMA 130.58 ECC .17430 INC .6163 V1 29.304
RP 107.82 LAP -.17 LOP 73.44 VP 38.020 GAP -.02 AZP 89.41 TAL 196.38 TAP 359.90 RCA 107.82 APO 153.33 V2 35.149
RC 91.113 GL -5.72 GP -33.24 ZAL 125.73 ZAP 93.23 ETS 358.35 ZAE 148.88 ETE 250.58 ZAC 110.84 ETC 4.18 CLP -93.86

PLANETOCENTRIC CONIC
C3 8.461 VHL 2.909 DLA 8.13 RAL 144.38 RAD 6567.3 VEL 11.395 PTH 1.97 VHP 3.387 DPA -19.75 RAP 149.85 ECC 1.1392

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 59 56	2284.24	-21.20	45.94	355.05	109.23	2 38 1	1684.2	-18.38	38.40
90.00	16 0 33	4419.00	7.05	184.26	353.01	62.50	17 14 12	3819.0	3.31	177.57
100.00	3 25 13	2009.22	-22.02	25.39	354.72	110.74	3 58 42	1409.2	-19.00	17.90
100.00	17 17 58	4169.25	7.82	165.47	352.59	61.06	18 27 28	3569.2	3.90	158.88
110.00	4 42 25	1767.62	-24.22	6.04	353.72	114.90	5 11 52	1167.6	-20.66	358.71
110.00	18 17 16	3983.61	9.87	150.15	351.35	57.10	19 23 39	3383.6	5.46	143.83

DIFFERENTIAL CORRECTIONS
TDE .0499 TRA -.3745 TC3-2.1573 BAU .4041
RDE -.1138 RRA -.1149 RC3-2.8476 FAU .16304
FDE -.2933 FRA -.5360 FC-16.6828 BSP 6604
BDE .1242 BRA .3918 BC3 3.5725 FSP -2695

MID-COURSE EXECUTION ACCURACY
SGT 1462.9 SGR 1687.3 SG3 845.1
RRT .9024 RRF .9969 RTF .9028
SGB 2233.1 R23 .1798 R13 .9806
SG1 2179.2 SG2 488.1 THA 49.51

ORBIT DETERMINATION ACCURACY
ST 247.1 SR 239.5 SS 211.2
CRT -.0816 CRS -.9593 CST -.1442
LSA 316.2 MSA 249.6 SSA 27.3
EL1 253.7 EL2 232.5 ALF 145.46

LAUNCH DATE JUN 22 1967 FLIGHT TIME 132.00 ARRIVAL DATE NOV 1 1967

DISTANCE 368.857

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 27.001 GAL -3.29 AZL 89.93 HCA 166.75 SMA 130.52 ECC .17432 INC .0598 V1 29.304
RP 107.78 LAP .02 LOP 76.66 VP 38.024 GAP .40 AZP 90.07 TAL 195.95 TAP 2.69 RCA 107.76 APO 153.27 V2 35.160
RC 93.352 GL .66 GP -39.05 ZAL 125.23 ZAP 97.22 ETS 354.76 ZAE 142.04 ETE 247.16 ZAC 112.84 ETC .76 CLP -99.31

PLANETOCENTRIC CONIC
C3 8.265 VHL 2.875 DLA 13.92 RAL 147.20 RAD 6567.3 VEL 11.387 PTH 1.97 VHP 3.646 DPA -24.39 RAP 145.62 ECC 1.1360

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 23 12	2472.99	-24.88	58.54	359.22	103.97	2 4 25	1873.0	-22.72	50.54
90.00	16 59 48	4221.45	.73	173.18	355.95	61.69	18 10 9	3621.5	-3.06	166.55
100.00	2 51 55	2186.91	-25.81	37.22	358.95	105.62	3 28 22	1586.9	-23.42	29.24
100.00	18 13 47	3982.76	1.57	155.16	355.49	60.15	19 20 9	3382.8	-2.41	148.64
110.00	4 16 40	1921.72	-28.25	16.21	358.07	110.11	4 48 42	1321.7	-25.25	8.32
110.00	19 5 31	3820.72	3.74	141.52	354.13	56.00	20 9 11	3220.7	-.75	135.31

DIFFERENTIAL CORRECTIONS
TDE .1389 TRA -.3474 TC3-2.7075 BAU .4747
RDE -.0030 RRA -.0704 RC3-3.3353 FAU .14113
FDE .2223 FRA -.2310 FC-14.7833 BSP 7761
BDE .1389 BRA .3544 BC3 4.2959 FSP -2345

MID-COURSE EXECUTION ACCURACY
SGT 1734.6 SGR 1923.2 SG3 736.5
RRT .9253 RRF .9983 RTF .9260
SGB 2589.9 R23 .1663 R13 .9844
SG1 2541.6 SG2 497.6 THA 48.19

ORBIT DETERMINATION ACCURACY
ST 352.9 SR 72.3 SS 167.2
CRT .4052 CRS -.4754 CST -.8809
LSA 384.9 MSA 77.6 SSA 59.4
EL1 354.2 EL2 65.8 ALF 4.91

```
LAUNCH DATE  JUN 22 1967                          FLIGHT TIME 134.00                          ARRIVAL DATE  NOV  3 1967

 HELIOCENTRIC CONIC                                DISTANCE 375.161
  RL  152.03 LAL     .00 LOL 269.91 VL  26.989 GAL  -3.20 AZL  88.81 HCA 169.97 SMA 130.44 ECC .17448 INC 1.1918 V1  29.304
  RP  107.75 LAP     .21 LOP  79.88 VP  38.025 GAP    .80 AZP  91.17 TAL 195.44 TAP   5.41 RCA 107.68 APO 153.19 V2  35.170
  RC  95.596 GL    11.07 GP  -46.95 ZAL 123.59 ZAP 100.00 ETS 350.03 ZAE 133.40 ETE 245.35 ZAC 114.11 ETC 356.05 CLP-104.74
 PLANETOCENTRIC CONIC
  C3   8.498 VHL  2.915 DLA  23.38 RAL 151.91 RAD 6567.3 VEL 11.397 PTH   1.97 VHP  4.137 DPA -30.98 RAP 140.38 ECC 1.1399
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00    23 54 30   2864.41     -28.31     86.53       7.60       90.45   24 42 14    2264.4     -27.95      77.89
     90.00    19  2  6   3840.47     -11.30    151.65       3.49       63.86   20  6  6    3240.5     -14.72     144.64
    100.00     1 38  3   2543.18     -29.77     62.85       7.55       92.78    2 20 27    1943.2     -29.07      54.12
    100.00    20  5  9   3636.94     -10.00    136.01       2.81       61.68   21  5 46    3036.9     -13.71     129.18
    110.00     3 23  8   2214.44     -33.24     37.48       7.15       98.48    4  0  3    1614.4     -31.71      28.59
    110.00    20 36 34   3538.45      -7.01    126.74       1.00       56.46   21 35 32    2938.4     -11.37     120.36
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TOE  .3405 TRA -.2736 TC3-3.1152 BAU  .5501      SGT 2022.3 SGR 2199.4 SG3  584.4      ST   694.1 SR   413.1 SS   548.5
  RDE  .2075 RRA  .0177 RC3-3.7065 FAU .11091      RRT  .9388 RRF  .9991 RTF  .9406      CRT  .9573 CRS -.9995 CST -.9557
  FDE  .7736 FRA  .0928 FC-11.2985 BSP   9087      SGB 2987.9 R23  .1520 R13  .9875      LSA  965.6 MSA  144.2 SSA    9.9
  BDE  .3987 BRA  .2741 BC3 4.8418 FSP  -1871      SG1 2942.1 SG2  520.9 THA  47.56      EL1  801.0 EL2  103.5 ALF  30.23

LAUNCH DATE  JUN 22 1967                          FLIGHT TIME 136.00                          ARRIVAL DATE  NOV  5 1967

 HELIOCENTRIC CONIC                                DISTANCE 381.436
  RL  152.03 LAL     .00 LOL 269.91 VL  26.974 GAL  -3.09 AZL  86.64 HCA 173.19 SMA 130.34 ECC .17475 INC 3.3570 V1  29.304
  RP  107.72 LAP     .40 LOP  83.11 VP  38.029 GAP   1.20 AZP  93.33 TAL 194.87 TAP   8.06 RCA 107.56 APO 153.11 V2  35.180
  RC  97.843 GL    28.74 GP  -58.19 ZAL 118.42 ZAP 100.71 ETS 343.67 ZAE 121.88 ETE 244.19 ZAC 114.07 ETC 349.33 CLP-110.64
 PLANETOCENTRIC CONIC
  C3  10.756 VHL  3.280 DLA  39.12 RAL 161.48 RAD 6567.4 VEL 11.495 PTH   2.00 VHP  5.222 DPA -40.46 RAP 132.66 ECC 1.1770
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     61.80    18 53  4   4004.47     -30.90    173.84      24.11       64.71   19 59 48    3404.5     -34.03     165.53
    118.20     1 23 50   2792.96     -30.89     81.93      24.10       64.70    2 10 23    2193.0     -34.02      73.61
     61.80    18 53  4   4004.47     -30.90    173.84      24.11       64.71   19 59 48    3404.5     -34.03     165.53
    118.20     1 23 50   2792.96     -30.89     81.93      24.10       64.70    2 10 23    2193.0     -34.02      73.61
     61.80    18 53  4   4004.47     -30.90    173.84      24.11       64.71   19 59 48    3404.5     -34.03     165.53
    118.20     1 23 50   2792.96     -30.89     81.93      24.10       64.70    2 10 23    2193.0     -34.02      73.61
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TOE  .8262 TRA -.0820 TC3-2.8182 BAU  .6201      SGT 2352.6 SGR 2462.6 SG3  382.6      ST  1445.5 SR  1125.7 SS   974.7
  RDE  .6378 RRA  .2174 RC3-3.2638 FAU .07146      RRT  .9451 RRF  .9994 RTF  .9502      CRT  .9855 CRS-1.0000 CST -.9867
  FDE 1.2253 FRA  .3957 FC3-5.7516 BSP  10499      SGB 3405.7 R23  .1405 R13  .9896      LSA 2068.0 MSA  173.3 SSA    2.9
  BDE 1.0437 BRA  .2324 BC3 4.3122 FSP  -1246      SG1 3358.7 SG2  563.7 THA  46.39      EL1 1825.9 EL2  151.0 ALF  37.81

LAUNCH DATE  JUN 22 1967                          FLIGHT TIME 138.00                          ARRIVAL DATE  NOV  7 1967

 HELIOCENTRIC CONIC                                DISTANCE 387.664
  RL  152.03 LAL     .00 LOL 269.91 VL  26.957 GAL  -2.96 AZL  80.66 HCA 176.38 SMA 130.22 ECC .17512 INC 9.3415 V1  29.304
  RP  107.69 LAP     .59 LOP  86.34 VP  38.021 GAP   1.57 AZP  99.32 TAL 194.21 TAP  10.59 RCA 107.41 APO 153.02 V2  35.190
  RC 100.092 GL    54.43 GP  -74.91 ZAL 106.23 ZAP  98.07 ETS 332.46 ZAE 105.19 ETE 239.23 ZAC 111.70 ETC 336.80 CLP-122.62
 PLANETOCENTRIC CONIC
  C3  28.855 VHL  5.372 DLA  59.07 RAL 187.43 RAD 6568.2 VEL 12.257 PTH   2.21 VHP  8.631 DPA -53.58 RAP 116.51 ECC 1.4749
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     35.72    19  6 10   4454.85     -32.67    219.42      74.85       37.63   20 20 25    3854.9     -38.86     213.57
    144.28     4 37 44   2797.33     -32.66     84.02      74.83       37.62    5 24 22    2197.3     -38.84      78.18
     35.72    19  6 10   4454.85     -32.67    219.42      74.85       37.63   20 20 25    3854.9     -38.86     213.57
    144.28     4 37 44   2797.33     -32.66     84.02      74.83       37.62    5 24 22    2197.3     -38.84      78.18
     35.72    19  6 10   4454.85     -32.67    219.42      74.85       37.63   20 20 25    3854.9     -38.86     213.57
    144.28     4 37 44   2797.33     -32.66     84.02      74.83       37.62    5 24 22    2197.3     -38.84      78.18
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TOE 2.1731 TRA  .6135 TC3-1.1298 BAU  .6116      SGT 2909.9 SGR 2394.5 SG3  168.6      ST  2349.5 SR  1404.3 SS   940.1
  RDE 1.2366 RRA  .7718 RC3-1.1122 FAU .02804      RRT  .9397 RRF  .9966 RTF  .9631      CRT  .9827 CRS -.9988 CST -.9907
  FDE 1.1288 FRA  .5980 FC3 -.8414 BSP  11798      SGB 3768.4 R23  .1312 R13  .9910      LSA 2884.3 MSA  237.2 SSA    1.2
  BDE 2.5003 BRA  .9860 BC3 1.5854 FSP   -565      SG1 3713.3 SG2  641.8 THA  39.10      EL1 2728.0 EL2  224.0 ALF  30.66

LAUNCH DATE  JUN 22 1967                          FLIGHT TIME 140.00                          ARRIVAL DATE  NOV  9 1967

 HELIOCENTRIC CONIC                                DISTANCE 393.416
  RL  152.03 LAL     .00 LOL 269.91 VL  26.938 GAL  -2.74 AZL  23.85 HCA 179.15 SMA 130.08 ECC .17519 INC66.1435 V1  29.304
  RP  107.66 LAP     .78 LOP  89.57 VP  38.016 GAP   1.82 AZP 156.15 TAL 193.11 TAP  12.26 RCA 107.29 APO 152.87 V2  35.199
  RC 102.344 GL    53.10 GP  -58.39 ZAL  92.60 ZAP  91.87 ETS 185.10 ZAE  60.96 ETE  96.45 ZAC 106.14 ETC 181.03 CLP  93.57
 PLANETOCENTRIC CONIC
  C3 946.905 VHL 30.772 DLA  48.77 RAL 204.73 RAD 6572.9 VEL 32.683 PTH   3.49 VHP 41.780 DPA -52.27 RAP  39.30 ECC16.5837
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     48.47    20 52 26   4949.90        .18    230.76     114.90       41.23   22 14 56    4349.9      -5.83     225.89
    131.53     5  9 32   3454.85        .19    113.36     114.88       41.23    6  7  6    2854.8      -5.82     108.49
     48.47    20 52 26   4949.90        .18    230.76     114.90       41.23   22 14 56    4349.9      -5.83     225.89
    131.53     5  9 32   3454.85        .19    113.36     114.88       41.23    6  7  6    2854.8      -5.82     108.49
     48.47    20 52 26   4949.90        .18    230.76     114.90       41.23   22 14 56    4349.9      -5.83     225.89
    131.53     5  9 32   3454.85        .19    113.36     114.88       41.23    6  7  6    2854.8      -5.82     108.49
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TOE-4.4052 TRA-1.2832 TC3 -.0847 BAU 3.0697      SGT 1037.3 SGR 3297.4 SG3   57.7      ST   827.6 SR  1580.1 SS  1101.4
  RDE-7.3242 RRA-9.4030 RC3 -.2272 FAU-.04999      RRT  .8217 RRF -.9995 RTF -.8028      CRT  .9222 CRS  .9992 CST  .9056
  FDE 1.3792 FRA 1.9415 FC3  .0457 BSP   7677      SGB 3456.7 R23 -.0770 R13 -.9970      LSA 2073.5 MSA  308.9 SSA     .6
  BDE 8.5470 BRA 9.4902 BC3  .2425 FSP   -137      SG1 3409.1 SG2  571.7 THA  75.08      EL1 1760.4 EL2  287.2 ALF  63.46
```

LAUNCH DATE JUN 22 1967 FLIGHT TIME 142.00 ARRIVAL DATE NOV 11 1967

HELIOCENTRIC CONIC DISTANCE 400.359

```
RL  152.03 LAL    .00 LOL 269.91 VL  26.916 GAL  -2.74 AZL 108.39 HCA 183.05 SMA 129.94 ECC .17647 INC18.3918 V1  29.304
RP  107.63 LAP    .96 LOP  92.80 VP  38.009 GAP   2.39 AZP  71.63 TAL 192.98 TAP  16.03 RCA 107.01 APO 152.87 V2  35.208
RC 104.596 GL  -64.53 GP   77.14 ZAL  98.54 ZAP  99.80 ETS  59.83 ZAE  96.23 ETE 149.39 ZAC  84.61 ETC  54.74 CLP-139.92
```

PLANETOCENTRIC CONIC

```
C3  88.279 VHL  9.396 DLA -50.27 RAL 129.12 RAO 6569.7 VEL 14.478 PTH   2.63 VHP 10.155 DPA  74.23 RAP 249.52 ECC 2.4529
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
46.56	3 46 26	2018.45	15.51	51.08	25.77	138.44	4 20 5	1418.4	21.42	45.80
133.44	12 12 19	5781.03	15.53	268.56	25.79	138.44	13 48 40	5181.0	21.43	263.29
46.56	3 46 26	2018.45	15.51	51.08	25.77	138.44	4 20 5	1418.4	21.42	45.80
133.44	12 12 19	5781.03	15.53	268.56	25.79	138.44	13 48 40	5181.0	21.43	263.29
46.56	3 46 26	2018.45	15.51	51.08	25.77	138.44	4 20 5	1418.4	21.42	45.80
133.44	12 12 19	5781.03	15.53	268.56	25.79	138.44	13 48 40	5181.0	21.43	263.29

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-5.0008 TRA-2.2635 TC3 -.2990 BAU  .3670   SGT 3778.6 SGR 1335.3 SG3  145.9          ST  3117.6 SR  1324.2 SS  1331.4
 RDE 2.1713 RRA  .0673 RC3  .0853 FAU .01523   RRT -.8456 RRF -.9224 RTF  .9858          CRT -.9811 CRS  .9918 CST -.9978
 FDE-2.4631 FRA -.7536 FC3 -.1494 BSP  12549   SGB 4007.6 R23  .1136 R13 -.9933          LSA 3631.5 MSA  241.0 SSA    1.0
 BDE 5.4518 BRA 2.2645 BC3  .3109 FSP   -462   SG1 3949.1 SG2  682.0 THA 162.84          EL1 3378.9 EL2  236.5 ALF 157.26
```

LAUNCH DATE JUN 22 1967 FLIGHT TIME 144.00 ARRIVAL DATE NOV 13 1967

HELIOCENTRIC CONIC DISTANCE 406.514

```
RL  152.03 LAL    .00 LOL 269.91 VL  26.893 GAL  -2.58 AZL 100.59 HCA 186.23 SMA 129.77 ECC .17716 INC10.5900 V1  29.304
RP  107.61 LAP   1.14 LOP  96.04 VP  37.999 GAP   2.74 AZP  79.47 TAL 192.14 TAP  18.37 RCA 106.78 APO 152.77 V2  35.216
RC 106.849 GL  -57.20 GP   57.24 ZAL 102.97 ZAP 109.80 ETS  36.27 ZAE 113.97 ETE 132.33 ZAC  92.31 ETC  33.39 CLP-128.76
```

PLANETOCENTRIC CONIC

```
C3  34.503 VHL  5.874 DLA -42.96 RAL 132.32 RAO 6568.4 VEL 12.485 PTH   2.26 VHP  5.760 DPA  65.44 RAP 192.35 ECC 1.5678
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.23	4 34 5	1701.30	23.57	29.07	14.38	127.03	5 2 26	1101.3	28.21	22.25
123.77	11 50 13	5640.77	23.58	263.29	14.39	127.02	13 24 14	5040.8	28.22	256.46
56.23	4 34 5	1701.30	23.57	29.07	14.38	127.03	5 2 26	1101.3	28.21	22.25
123.77	11 50 13	5640.77	23.58	263.29	14.39	127.02	13 24 14	5040.8	28.22	256.46
56.23	4 34 5	1701.30	23.57	29.07	14.38	127.03	5 2 26	1101.3	28.21	22.25
123.77	11 50 13	5640.77	23.58	263.29	14.39	127.02	13 24 14	5040.8	28.22	256.46

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-2.5278 TRA-1.4520 TC3-1.1249 BAU  .5921   SGT 3401.7 SGR 1967.9 SG3  338.3          ST  2533.4 SR  1749.3 SS  1658.5
 RDE 1.7850 RRA  .4200 RC3  .6184 FAU .05389   RRT -.9466 RRF -.9964 RTF  .9686          CRT -.9909 CRS  .9996 CST -.9942
 FDE-3.3903 FRA-1.0262 FC3-1.3522 BSP  12268   SGB 3929.9 R23  .1686 R13 -.9852          LSA 3490.3 MSA  215.8 SSA    1.6
 BDE 3.0945 BRA 1.5115 BC3 1.2837 FSP  -1081   SG1 3890.6 SG2  554.9 THA 150.64          EL1 3072.6 EL2  194.3 ALF 145.46
```

LAUNCH DATE JUN 22 1967 FLIGHT TIME 146.00 ARRIVAL DATE NOV 15 1967

HELIOCENTRIC CONIC DISTANCE 412.691

```
RL  152.03 LAL    .00 LOL 269.91 VL  26.867 GAL  -2.42 AZL  98.07 HCA 189.45 SMA 129.60 ECC .17800 INC 8.0722 V1  29.304
RP  107.59 LAP   1.32 LOP  99.27 VP  37.988 GAP   3.09 AZP  82.04 TAL 191.29 TAP  20.75 RCA 106.53 APO 152.67 V2  35.223
RC 109.101 GL  -51.52 GP   43.49 ZAL 104.94 ZAP 117.92 ETS  31.65 ZAE 124.14 ETE 137.15 ZAC  98.18 ETC  30.06 CLP-130.20
```

PLANETOCENTRIC CONIC

```
C3  23.183 VHL  4.815 DLA -37.98 RAL 135.88 RAO 6567.9 VEL 12.023 PTH   2.15 VHP  4.647 DPA  54.31 RAP 175.78 ECC 1.3815
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.56	5 21 23	1509.36	24.64	13.51	9.87	119.86	5 46 33	909.4	28.42	6.04
116.44	11 31 18	5634.64	24.66	263.55	9.88	119.85	13 5 12	5034.6	28.43	256.08
63.56	5 21 23	1509.36	24.64	13.51	9.87	119.86	5 46 33	909.4	28.42	6.04
116.44	11 31 18	5634.64	24.66	263.55	9.88	119.85	13 5 12	5034.6	28.43	256.08
63.56	5 21 23	1509.36	24.64	13.51	9.87	119.86	5 46 33	909.4	28.42	6.04
116.44	11 31 18	5634.64	24.66	263.55	9.88	119.85	13 5 12	5034.6	28.43	256.08

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-2.0516 TRA-1.2074 TC3-1.8763 BAU  .6331   SGT 3542.2 SGR 1614.1 SG3  494.0          ST  2502.4 SR  1365.2 SS  1849.0
 RDE 1.1429 RRA  .2574 RC3  .8075 FAU .08394   RRT -.9503 RRF -.9972 RTF  .9667          CRT -.9909 CRS  .9998 CST -.9934
 FDE-3.8478 FRA-1.0708 FC3-3.1345 BSP  12216   SGB 3892.6 R23  .2011 R13 -.9786          LSA 3391.4 MSA  207.4 SSA    2.3
 BDE 2.3484 BRA 1.2345 BC3 2.0427 FSP  -1607   SG1 3865.2 SG2  460.3 THA 156.23          EL1 2846.0 EL2  161.4 ALF 151.50
```

LAUNCH DATE JUN 22 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 17 1967

HELIOCENTRIC CONIC DISTANCE 418.863

```
RL  152.03 LAL    .00 LOL 269.91 VL  26.840 GAL  -2.25 AZL  96.83 HCA 192.69 SMA 129.42 ECC .17895 INC 6.8278 V1  29.304
RP  107.57 LAP   1.50 LOP 102.51 VP  37.975 GAP   3.45 AZP  83.34 TAL 190.40 TAP  23.09 RCA 106.26 APO 152.58 V2  35.230
RC 111.351 GL  -47.57 GP   34.04 ZAL 105.56 ZAP 124.16 ETS  28.50 ZAE 129.71 ETE 143.75 ZAC 102.03 ETC  27.77 CLP-132.67
```

PLANETOCENTRIC CONIC

```
C3  18.664 VHL  4.320 DLA -34.75 RAL 138.85 RAO 6567.8 VEL 11.834 PTH   2.10 VHP  4.270 DPA  45.89 RAP 168.99 ECC 1.3072
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.96	6 2 22	1370.93	24.29	2.19	8.25	115.65	6 25 13	770.9	27.53	354.47
111.04	11 14 0	5669.16	24.30	266.12	8.26	115.64	12 48 29	5069.2	27.55	258.40
68.96	6 2 22	1370.93	24.29	2.19	8.25	115.65	6 25 13	770.9	27.53	354.47
111.04	11 14 0	5669.16	24.30	266.12	8.26	115.64	12 48 29	5069.2	27.55	258.40
68.96	6 2 22	1370.93	24.29	2.19	8.25	115.65	6 25 13	770.9	27.53	354.47
111.04	11 14 0	5669.16	24.30	266.12	8.26	115.64	12 48 29	5069.2	27.55	258.40

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE-1.8290 TRA-1.0426 TC3-2.4414 BAU- .6366   SGT 3628.5 SGR 1221.1 SG3  556.3          ST  2478.5 SR  1019.8 SS  1849.1
 RDE  .7672 RRA  .1335 RC3  .7403 FAU .09544   RRT -.9435 RRF -.9952 RTF  .9628          CRT -.9900 CRS  .9998 CST -.9925
 FDE-3.7657 FRA -.8501 FC3-4.4270 BSP  11426   SGB 3828.4 R23  .2306 R13 -.9708          LSA 3249.6 MSA  205.2 SSA    3.1
 BDE 1.9834 BRA 1.0511 BC3 2.5512 FSP  -1693   SG1 3809.0 SG2  385.4 THA 162.20          EL1 2676.8 EL2  133.5 ALF 157.78
```

LAUNCH DATE JUN 22 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 19 1967

HELIOCENTRIC CONIC DISTANCE 425.015

RL 152.03 LAL .00 LOL 269.91 VL 26.812 GAL -2.06 AZL 96.08 HCA 195.92 SMA 129.22 ECC .18002 INC 6.0827 V1 29.304
RP 107.55 LAP 1.67 LOP 105.75 VP 37.961 GAP 3.80 AZP 84.15 TAL 189.47 TAP 25.40 RCA 105.96 APO 152.49 V2 35.236
RC 113.598 GL -44.70 GP 27.42 ZAL 105.42 ZAP 129.09 ETS 26.01 ZAE 132.53 ETE 149.94 ZAC 104.39 ETC 25.85 CLP-135.26

PLANETOCENTRIC CONIC

C3 16.291 VHL 4.036 DLA -32.63 RAL 141.47 RAD 6567.7 VEL 11.734 PTH 2.07 VHP 4.151 OPA 39.73 RAP 165.59 ECC 1.2681

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.07	6 38 8	1261.82	23.76	353.45	8.02	113.06	6 59 9	661.8	26.67	345.63
106.93	10 59 6	5715.30	23.77	269.43	8.03	113.04	12 34 22	5115.3	26.68	261.61
73.07	6 38 8	1261.82	23.76	353.45	8.02	113.06	6 59 9	661.8	26.67	345.63
106.93	10 59 6	5715.30	23.77	269.43	8.03	113.04	12 34 22	5115.3	26.68	261.61
110.00	10 0 29	608.15	17.34	302.05	4.61	119.93	10 10 37	8.2	21.19	295.03
110.00	12 35 55	5416.96	30.52	249.11	10.73	106.21	14 6 12	4817.0	32.43	240.42

DIFFERENTIAL CORRECTIONS
TDE-1.7526 TRA -.9619 TC3-3.0046 BAU .6699
RDE .5701 RRA .0830 RC3 .6566 FAU .10343
FDE-3.6333 FRA -.7058 FC3-5.4961 BSP 12105
BDE 1.8430 BRA .9655 BC3 3.0755 FSP -1887

MID-COURSE EXECUTION ACCURACY
SGT 3834.2 SGR 977.4 SG3 596.7
RRT -.9408 RRF -.9913 RTF .9638
SGB 3956.8 R23 .2305 R13 -.9685
SG1 3943.7 SG2 322.2 THA 166.42

ORBIT DETERMINATION ACCURACY
ST 2536.0 SR 810.5 SS 1854.7
CRT -.9900 CRS .9998 CST -.9923
LSA 3238.5 MSA 200.8 SSA 4.1
EL1 2660.1 EL2 109.0 ALF 162.41

LAUNCH DATE JUN 22 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 21 1967

HELIOCENTRIC CONIC DISTANCE 431.152

RL 152.03 LAL .00 LOL 269.91 VL 26.782 GAL -1.87 AZL 95.58 HCA 199.17 SMA 129.02 ECC .18120 INC 5.5842 V1 29.304
RP 107.53 LAP 1.83 LOP 108.99 VP 37.945 GAP 4.15 AZP 84.72 TAL 188.51 TAP 27.67 RCA 105.64 APO 152.40 V2 35.241
RC 115.842 GL -42.54 GP 22.65 ZAL 104.76 ZAP 133.12 ETS 23.98 ZAE 133.78 ETE 155.16 ZAC 105.74 ETC 24.20 CLP-137.79

PLANETOCENTRIC CONIC

C3 14.843 VHL 3.853 DLA -31.23 RAL 143.91 RAD 6567.6 VEL 11.672 PTH 2.05 VHP 4.145 OPA 35.12 RAP 163.81 ECC 1.2443

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.24	7 9 22	1173.65	23.32	346.56	8.59	111.39	7 28 55	573.7	26.01	338.68
103.76	10 47 23	5761.42	23.33	272.74	8.59	111.37	12 23 24	5161.4	26.03	264.87
76.24	7 9 22	1173.65	23.32	346.56	8.59	111.39	7 28 55	573.7	26.01	338.68
103.76	10 47 23	5761.42	23.33	272.74	8.59	111.37	12 23 24	5161.4	26.03	264.87
110.00	9 41 11	680.22	14.85	306.14	4.17	121.15	9 52 31	80.2	18.86	299.33
110.00	13 14 44	5302.85	32.39	240.74	11.62	101.58	14 43 7	4702.9	33.64	231.74

DIFFERENTIAL CORRECTIONS
TDE-1.7141 TRA -.8834 TC3-3.4744 BAU .6976
RDE .4427 RRA .0488 RC3 .5365 FAU .10415
FDE-3.4058 FRA -.5169 FC3-6.0746 BSP 12537
BDE 1.7703 BRA .8847 BC3 3.5155 FSP -1913

MID-COURSE EXECUTION ACCURACY
SGT 4003.2 SGR 782.0 SG3 600.9
RRT -.9313 RRF -.9829 RTF .9634
SGB 4078.9 R23 .2231 R13 -.9663
SG1 4069.2 SG2 280.3 THA 169.64

ORBIT DETERMINATION ACCURACY
ST 2591.8 SR 658.9 SS 1817.4
CRT -.9901 CRS .9999 CST -.9921
LSA 3227.3 MSA 197.5 SSA 5.2
EL1 2672.7 EL2 89.6 ALF 165.85

LAUNCH DATE JUN 22 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 23 1967

HELIOCENTRIC CONIC DISTANCE 437.272

RL 152.03 LAL .00 LOL 269.91 VL 26.751 GAL -1.67 AZL 95.23 HCA 202.41 SMA 128.81 ECC .18250 INC 5.2252 V1 29.304
RP 107.52 LAP 1.99 LOP 112.24 VP 37.927 GAP 4.49 AZP 85.17 TAL 187.50 TAP 29.91 RCA 105.31 APO 152.32 V2 35.246
RC 118.080 GL -40.83 GP 19.10 ZAL 103.75 ZAP 136.54 ETS 22.34 ZAE 134.17 ETE 159.37 ZAC 106.38 ETC 22.79 CLP-140.19

PLANETOCENTRIC CONIC

C3 13.873 VHL 3.725 DLA -30.32 RAL 146.29 RAD 6567.5 VEL 11.630 PTH 2.04 VHP 4.198 OPA 31.56 RAP 162.96 ECC 1.2283

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.68	7 36 28	1102.93	23.03	341.13	9.66	110.29	7 54 51	502.9	25.58	333.22
101.32	10 39 13	5802.27	23.04	275.69	9.66	110.28	12 15 56	5202.3	25.59	267.78
78.68	7 36 28	1102.93	23.03	341.13	9.66	110.29	7 54 51	502.9	25.58	333.22
101.32	10 39 13	5802.27	23.04	275.69	9.66	110.28	12 15 56	5202.3	25.59	267.78
110.00	9 35 33	714.89	13.62	308.08	4.84	121.66	9 47 28	114.9	17.71	301.35
110.00	13 39 19	5238.30	33.17	235.87	12.64	98.80	15 6 37	4638.3	34.02	226.73

DIFFERENTIAL CORRECTIONS
TDE-1.7004 TRA -.8061 TC3-3.8808 BAU .7239
RDE .3591 RRA .0281 RC3 .4167 FAU .10145
FDE-3.1656 FRA -.3312 FC3-6.3305 BSP 12931
BDE 1.7379 BRA .8066 BC3 3.9031 FSP -1873

MID-COURSE EXECUTION ACCURACY
SGT 4154.9 SGR 635.6 SG3 587.9
RRT -.9142 RRF -.9672 RTF .9627
SGB 4203.2 R23 .2067 R13 -.9645
SG1 4195.4 SG2 255.2 THA 172.01

ORBIT DETERMINATION ACCURACY
ST 2652.3 SR 552.7 SS 1768.0
CRT -.9906 CRS .9999 CST -.9920
LSA 3229.3 MSA 194.0 SSA 6.2
EL1 2708.2 EL2 73.9 ALF 168.33

LAUNCH DATE JUN 22 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 25 1967

HELIOCENTRIC CONIC DISTANCE 443.374

RL 152.03 LAL .00 LOL 269.91 VL 26.718 GAL -1.45 AZL 94.95 HCA 205.65 SMA 128.60 ECC .18391 INC 4.9530 V1 29.304
RP 107.50 LAP 2.14 LOP 115.48 VP 37.908 GAP 4.83 AZP 85.53 TAL 186.46 TAP 32.11 RCA 104.95 APO 152.25 V2 35.250
RC 120.312 GL -39.42 GP 16.38 ZAL 102.46 ZAP 139.53 ETS 20.98 ZAE 134.09 ETE 162.72 ZAC 106.50 ETC 21.57 CLP-142.46

PLANETOCENTRIC CONIC

C3 13.189 VHL 3.632 DLA -29.76 RAL 148.66 RAD 6567.5 VEL 11.601 PTH 2.03 VHP 4.283 OPA 28.70 RAP 162.71 ECC 1.2171

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.45	7 59 21	1049.12	22.87	337.06	11.10	109.58	8 16 50	449.1	25.33	329.14
99.55	10 35 15	5834.03	22.88	277.99	11.10	109.56	12 12 29	5234.0	25.34	270.06
100.00	10 14 41	611.76	21.13	304.26	10.40	111.65	10 24 52	11.8	23.89	296.54
100.00	11 2 37	5746.63	24.64	272.14	11.75	107.49	12 38 23	5146.6	26.80	264.00
110.00	9 36 33	732.09	13.00	309.03	6.11	121.90	9 48 45	132.1	17.12	302.34
110.00	13 57 14	5199.06	33.53	232.86	13.96	97.06	15 23 53	4599.1	34.15	223.68

DIFFERENTIAL CORRECTIONS
TDE-1.7076 TRA -.7302 TC3-4.2481 BAU .7510
RDE .3039 RRA .0168 RC3 .3096 FAU .09743
FDE-2.9490 FRA -.1659 FC3-6.3951 BSP 13395
BDE 1.7344 BRA .7304 BC3 4.2594 FSP -1819

MID-COURSE EXECUTION ACCURACY
SGT 4305.7 SGR 530.5 SG3 568.6
RRT -.8870 RRF -.9408 RTF .9622
SGB 4338.3 R23 .1831 R13 -.9634
SG1 4331.5 SG2 243.5 THA 173.74

ORBIT DETERMINATION ACCURACY
ST 2724.9 SR 479.6 SS 1723.0
CRT -.9917 CRS .9999 CST -.9919
LSA 3253.8 MSA 190.2 SSA 7.3
EL1 2766.1 EL2 60.8 ALF 170.09

LAUNCH DATE JUN 22 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 27 1967

HELIOCENTRIC CONIC DISTANCE 449.459

```
RL  152.03 LAL    .00 LOL 269.91 VL  26.685 GAL  -1.22 AZL  94.74 HCA 208.90 SMA 128.38 ECC .18544 INC 4.7382 V1  29.304
RP  107.49 LAP   2.29 LOP 118.73 VP  37.888 GAP   5.17 AZP  85.85 TAL 185.38 TAP  34.28 RCA 104.57 APO 152.19 V2  35.253
RC 122.538 GL  -38.21 GP   14.26 ZAL 100.95 ZAP 142.19 ETS  19.86 ZAE 133.76 ETE 165.38 ZAC 106.23 ETC  20.51 CLP-144.60
```

PLANETOCENTRIC CONIC

```
C3  12.691 VHL  3.562 DLA -29.44 RAL 151.06 RAD 6567.5 VEL 11.579 PTH   2.02 VHP  4.390 DPA  26.32 RAP 162.89 ECC 1.2089
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.59	8 17 44	1012.67	22.82	334.34	12.84	109.12	8 34 37	412.7	25.22	326.40
98.41	10 36 3	5853.92	22.83	279.44	12.84	109.11	12 13 37	5253.9	25.23	271.50
100.00	10 4 38	666.50	19.72	307.71	11.56	112.93	10 15 44	66.5	22.65	300.14
100.00	11 31 50	5675.32	26.01	267.28	13.92	105.28	13 6 25	5075.3	27.85	258.97
110.00	9 41 40	738.83	12.76	309.40	7.79	121.99	9 53 59	138.8	16.89	302.73
110.00	14 11 17	5175.75	33.71	231.07	15.59	96.01	15 37 33	4575.8	34.18	221.86

DIFFERENTIAL CORRECTIONS

```
TDE-1.7237 TRA -.6471 TC3-4.5664 BAU  .7756
RDE  .2657 RRA  .0105 RC3  .2140 FAU .09235
FDE-2.7453 FRA -.0086 FC3-6.2998 BSP  13768
BDE 1.7441 BRA  .6472 BC3 4.5714 FSP  -1735
```

MID-COURSE EXECUTION ACCURACY

```
SGT 4438.4 SGR  454.1 SG3  544.0
RRT -.8454 RRF -.8993 RTF  .9613
SGB 4461.6 R23  .1578 R13 -.9620
SG1 4455.0 SG2  241.7 THA 175.04
```

ORBIT DETERMINATION ACCURACY

```
ST  2797.1 SR   427.4 SS  1675.4
CRT -.9931 CRS  .9997 CST -.9919
LSA 3283.1 MSA  186.4 SSA    8.4
EL1 2829.1 EL2   49.5 ALF 171.37
```

LAUNCH DATE JUN 22 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 29 1967

HELIOCENTRIC CONIC DISTANCE 455.526

```
RL  152.03 LAL    .00 LOL 269.91 VL  26.851 GAL   -.98 AZL  94.56 HCA 212.14 SMA 128.15 ECC .18709 INC 4.5633 V1  29.304
RP  107.49 LAP   2.43 LOP 121.98 VP  37.866 GAP   5.51 AZP  86.13 TAL 184.27 TAP  36.42 RCA 104.18 APO 152.13 V2  35.256
RC 124.755 GL  -37.14 GP   12.56 ZAL  99.25 ZAP 144.59 ETS  18.93 ZAE 133.30 ETE 167.52 ZAC 105.66 ETC  19.57 CLP-146.62
```

PLANETOCENTRIC CONIC

```
C3  12.328 VHL  3.511 DLA -29.31 RAL 153.52 RAD 6567.5 VEL 11.564 PTH   2.02 VHP  4.510 DPA  24.29 RAP 163.39 ECC 1.2029
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.09	8 31 31	993.74	22.86	332.96	14.83	108.86	8 48 5	393.7	25.23	325.00
97.91	10 41 54	5860.46	22.87	279.94	14.83	108.85	12 19 34	5260.5	25.23	271.99
100.00	10 8 37	679.13	19.38	308.50	13.40	113.21	10 19 56	79.1	22.36	300.96
100.00	11 47 29	5650.30	26.44	265.55	16.01	104.47	13 21 40	5050.3	28.17	257.18
110.00	9 49 42	738.67	12.76	309.39	9.80	121.98	10 2 1	138.7	16.90	302.72
110.00	14 22 53	5163.52	33.80	230.12	17.50	95.45	15 48 57	4563.5	34.18	220.90

DIFFERENTIAL CORRECTIONS

```
TDE-1.7512 TRA -.5614 TC3-4.8554 BAU  .8005
RDE  .2399 RRA  .0085 RC3  .1331 FAU .08730
FDE-2.5684 FRA  .1267 FC3-6.1305 BSP  14187
BDE 1.7675 BRA  .5614 BC3 4.8572 FSP  -1660
```

MID-COURSE EXECUTION ACCURACY

```
SGT 4571.1 SGR  402.8 SG3  519.5
RRT -.7898 RRF -.8420 RTF  .9607
SGB 4588.8 R23  .1321 R13 -.9612
SG1 4582.2 SG2  246.5 THA 176.01
```

ORBIT DETERMINATION ACCURACY

```
ST  2876.8 SR   391.5 SS  1634.3
CRT -.9948 CRS  .9993 CST -.9920
LSA 3326.7 MSA  181.9 SSA    9.5
EL1 2903.0 EL2   39.4 ALF 172.29
```

LAUNCH DATE JUN 22 1967 FLIGHT TIME 162.00 ARRIVAL DATE DEC 1 1967

HELIOCENTRIC CONIC DISTANCE 461.574

```
RL  152.03 LAL    .00 LOL 269.91 VL  26.616 GAL   -.73 AZL  94.42 HCA 215.39 SMA 127.92 ECC .18887 INC 4.4174 V1  29.304
RP  107.48 LAP   2.56 LOP 125.22 VP  37.843 GAP   5.85 AZP  86.40 TAL 183.14 TAP  38.53 RCA 103.76 APO 152.09 V2  35.258
RC 126.964 GL  -36.16 GP   11.18 ZAL  97.39 ZAP 146.79 ETS  18.16 ZAE 132.79 ETE 169.24 ZAC 104.85 ETC  18.74 CLP-148.52
```

PLANETOCENTRIC CONIC

```
C3  12.069 VHL  3.474 DLA -29.32 RAL 156.06 RAD 6567.5 VEL 11.552 PTH   2.02 VHP  4.641 DPA  22.51 RAP 164.13 ECC 1.1986
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.05	8 41 18	990.34	22.97	332.74	17.05	108.75	8 57 48	390.3	25.31	324.78
97.95	10 52 21	5854.87	22.98	279.57	17.06	108.73	12 29 56	5254.9	25.33	271.60
100.00	10 19 10	673.21	19.54	308.13	15.65	113.08	10 30 23	73.2	22.50	300.58
100.00	11 57 10	5647.23	26.50	265.34	18.21	104.37	13 31 17	5047.2	28.21	256.96
110.00	9 59 58	733.70	12.94	309.12	12.08	121.92	10 12 11	133.7	17.07	302.43
110.00	14 32 52	5159.51	33.82	229.81	19.68	95.27	15 58 51	4559.5	34.18	220.59

DIFFERENTIAL CORRECTIONS

```
TDE-1.7862 TRA -.4689 TC3-5.1075 BAU  .8241
RDE  .2224 RRA  .0089 RC3  .0638 FAU .08214
FDE-2.4114 FRA  .2503 FC3-5.8925 BSP  14607
BDE 1.8000 BRA  .4689 BC3 5.1079 FSP  -1586
```

MID-COURSE EXECUTION ACCURACY

```
SGT 4696.7 SGR  369.9 SG3  494.8
RRT -.7213 RRF -.7706 RTF  .9601
SGB 4711.2 R23  .1098 R13 -.9604
SG1 4704.3 SG2  255.8 THA 176.74
```

ORBIT DETERMINATION ACCURACY

```
ST  2959.9 SR   366.9 SS  1596.6
CRT -.9966 CRS  .9984 CST -.9921
LSA 3378.3 MSA  177.5 SSA   10.6
EL1 2982.4 EL2   30.1 ALF 172.96
```

LAUNCH DATE JUN 22 1967 FLIGHT TIME 164.00 ARRIVAL DATE DEC 3 1967

HELIOCENTRIC CONIC DISTANCE 467.603

```
RL  152.03 LAL    .00 LOL 269.91 VL  26.581 GAL   -.47 AZL  94.29 HCA 218.64 SMA 127.69 ECC .19079 INC 4.2931 V1  29.304
RP  107.48 LAP   2.68 LOP 128.47 VP  37.819 GAP   6.19 AZP  86.64 TAL 181.97 TAP  40.61 RCA 103.33 APO 152.05 V2  35.259
RC 129.165 GL  -35.23 GP   10.04 ZAL  95.38 ZAP 148.81 ETS  17.51 ZAE 132.27 ETE 170.65 ZAC 103.85 ETC  17.99 CLP-150.32
```

PLANETOCENTRIC CONIC

```
C3  11.897 VHL  3.449 DLA -29.44 RAL 158.68 RAD 6567.5 VEL 11.545 PTH   2.02 VHP  4.780 DPA  20.91 RAP 165.07 ECC 1.1958
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.60	8 48 14	998.56	23.12	333.41	19.49	108.75	9 4 53	398.6	25.47	325.43
98.40	11 6 18	5840.60	23.13	278.57	19.50	108.73	12 43 39	5240.6	25.47	270.59
100.00	10 34 47	653.51	20.06	306.90	18.25	112.64	10 45 41	53.5	22.95	299.30
100.00	12 2 27	5660.88	26.26	266.29	20.54	104.82	13 36 47	5060.9	28.04	257.94
110.00	10 11 59	725.34	13.24	308.65	14.59	121.81	10 24 5	125.3	17.35	301.95
110.00	14 41 44	5161.82	33.81	229.99	22.09	95.38	16 7 46	4561.8	34.18	220.77

DIFFERENTIAL CORRECTIONS

```
TDE-1.8269 TRA -.3696 TC3-5.3276 BAU  .8473
RDE  .2111 RRA  .0111 RC3  .0060 FAU .07722
FDE-2.2711 FRA  .3608 FC3-5.6195 BSP  14990
BDE 1.8390 BRA  .3698 BC3 5.3276 FSP  -1509
```

MID-COURSE EXECUTION ACCURACY

```
SGT 4818.0 SGR  351.3 SG3  471.1
RRT -.6465 RRF -.6914 RTF  .9596
SGB 4830.8 R23  .0905 R13 -.9598
SG1 4823.4 SG2  267.7 THA 177.29
```

ORBIT DETERMINATION ACCURACY

```
ST  3044.1 SR   350.7 SS  1561.2
CRT -.9980 CRS  .9969 CST -.9923
LSA 3434.7 MSA  172.7 SSA   11.7
EL1 3064.1 EL2   21.8 ALF 173.44
```

LAUNCH DATE JUN 22 1967 FLIGHT TIME 166.00 ARRIVAL DATE DEC 5 1967

HELIOCENTRIC CONIC DISTANCE 473.612

RL 152.03 LAL .00 LOL 269.91 VL 26.545 GAL -.19 AZL 94.19 HCA 221.88 SMA 127.46 ECC .19285 INC 4.1852 V1 29.304
RP 107.48 LAP 2.79 LOP 131.72 VP 37.794 GAP 6.53 AZP 86.88 TAL 180.79 TAP 42.67 RCA 102.88 APO 152.04 V2 35.259
RC 131.355 GL -34.33 GP 9.09 ZAL 93.25 ZAP 150.70 ETS 16.97 ZAE 131.76 ETE 171.80 ZAC 102.67 ETC 17.32 CLP-152.02

PLANETOCENTRIC CONIC

C3 11.802 VHL 3.435 DLA -29.63 RAL 161.39 RAD 6567.4 VEL 11.541 PTH 2.01 VHP 4.926 DPA 19.45 RAP 166.17 ECC 1.1942

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.01	8 53 37	1014.29	23.30	334.64	22.14	108.83	9 10 31	414.3	25.66	326.65
99.09	11 22 33	5821.51	23.31	277.22	22.14	108.82	12 59 35	5221.5	25.67	269.24
100.00	10 55 55	618.66	20.96	304.70	21.20	111.82	11 6 14	18.7	23.74	297.00
100.00	12 2 56	5692.37	25.70	268.46	22.96	105.82	13 37 48	5092.4	27.62	260.18
110.00	10 25 28	714.68	13.62	308.06	17.34	121.66	10 37 23	114.7	17.71	301.34
110.00	14 49 52	5169.12	33.76	230.56	24.72	95.71	16 16 1	4569.1	34.18	221.34

DIFFERENTIAL CORRECTIONS
TOE-1.8736 TRA -.2667 TC3-5.5215 BAU .8712
ROE .2044 RRA .0148 RC3 -.0407 FAU .07278
FOE-2.1484 FRA .4529 FC3-5.3387 BSP 15480
BOE 1.8848 BRA .2671 BC3 5.5217 FSP -1457

MID-COURSE EXECUTION ACCURACY
SGT 4941.5 SGR 343.3 SG3 449.3
RRT -.5740 RRF -.6130 RTF .9598
SGB 4953.4 R23 .0735 R13 -.9600
SG1 4945.5 SG2 280.8 THA 177.71

ORBIT DETERMINATION ACCURACY
ST 3130.7 SR 341.0 SS 1529.8
CRT -.9990 CRS .9947 CST -.9926
LSA 3497.1 MSA 167.2 SSA 12.8
EL1 3149.2 EL2 15.5 ALF 173.79

LAUNCH DATE JUN 22 1967 FLIGHT TIME 168.00 ARRIVAL DATE DEC 7 1967

HELIOCENTRIC CONIC DISTANCE 479.601

RL 152.03 LAL .00 LOL 269.91 VL 26.508 GAL .10 AZL 94.09 HCA 225.13 SMA 127.22 ECC .19506 INC 4.0902 V1 29.304
RP 107.48 LAP 2.90 LOP 134.97 VP 37.768 GAP 6.87 AZP 87.11 TAL 179.57 TAP 44.71 RCA 102.40 APO 152.03 V2 35.259
RC 133.537 GL -33.43 GP 8.29 ZAL 91.00 ZAP 152.46 ETS 16.53 ZAE 131.28 ETE 172.76 ZAC 101.36 ETC 16.72 CLP-153.64

PLANETOCENTRIC CONIC

C3 11.779 VHL 3.432 DLA -29.87 RAL 164.19 RAD 6567.4 VEL 11.540 PTH 2.01 VHP 5.078 DPA 18.08 RAP 167.41 ECC 1.1939

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.08	8 58 27	1034.12	23.49	336.18	24.98	108.99	9 15 41	434.1	25.87	328.19
99.92	11 40 3	5800.87	23.50	275.76	24.98	108.98	13 16 44	5200.9	25.88	267.77
100.00	11 30 19	5831.92	22.77	277.79	24.70	109.90	13 7 31	5231.9	25.28	269.89
100.00	11 50 52	5766.35	24.23	273.46	25.25	108.07	13 26 58	5166.3	26.47	265.38
110.00	10 40 7	702.60	14.05	307.39	20.29	121.49	10 51 49	102.6	18.12	300.64
110.00	14 57 34	5180.39	33.68	231.43	27.57	96.22	16 23 54	4580.4	34.17	222.22

DIFFERENTIAL CORRECTIONS
TOE-1.9094 TRA -.1433 TC3-5.6450 BAU .8890
ROE .1997 RRA .0179 RC3 -.0823 FAU .06757
FOE-2.0053 FRA .5605 FC3-4.9666 BSP 15780
BOE 1.9198 BRA .1445 BC3 5.6456 FSP -1377

MID-COURSE EXECUTION ACCURACY
SGT 5025.0 SGR 340.0 SG3 423.2
RRT -.4996 RRF -.5324 RTF .9581
SGB 5036.5 R23 .0601 R13 -.9582
SG1 5027.9 SG2 294.3 THA 178.06

ORBIT DETERMINATION ACCURACY
ST 3190.8 SR 333.6 SS 1476.3
CRT -.9991 CRS .9913 CST -.9925
LSA 3527.7 MSA 164.0 SSA 13.8
EL1 3208.1 EL2 13.9 ALF 174.04

LAUNCH DATE JUN 22 1967 FLIGHT TIME 170.00 ARRIVAL DATE DEC 9 1967

HELIOCENTRIC CONIC DISTANCE 485.571

RL 152.03 LAL .00 LOL 269.91 VL 26.471 GAL .41 AZL 94.01 HCA 228.38 SMA 126.98 ECC .19743 INC 4.0054 V1 29.304
RP 107.48 LAP 2.99 LOP 138.22 VP 37.741 GAP 7.21 AZP 87.34 TAL 178.34 TAP 46.72 RCA 101.91 APO 152.05 V2 35.257
RC 135.709 GL -32.52 GP 7.61 ZAL 88.65 ZAP 154.11 ETS 16.17 ZAE 130.82 ETE 173.56 ZAC 99.93 ETC 16.16 CLP-155.18

PLANETOCENTRIC CONIC

C3 11.827 VHL 3.439 DLA -30.14 RAL 167.08 RAD 6567.5 VEL 11.542 PTH 2.01 VHP 5.236 DPA 16.79 RAP 168.76 ECC 1.1946

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.22	9 3 26	1055.81	23.68	337.87	28.01	109.21	9 21 2	455.8	26.08	329.87
100.78	11 58 6	5780.88	23.69	274.34	28.01	109.20	13 34 27	5180.9	26.09	266.35
79.22	9 3 26	1055.81	23.68	337.87	28.01	109.21	9 21 2	455.8	26.08	329.87
100.78	11 58 6	5780.88	23.69	274.34	28.01	109.20	13 34 27	5180.9	26.09	266.35
110.00	10 55 43	689.85	14.51	306.68	23.43	121.30	11 7 12	89.8	18.55	299.89
110.00	15 5 1	5194.84	33.57	232.54	30.61	96.87	16 31 36	4594.8	34.15	223.35

DIFFERENTIAL CORRECTIONS
TOE-1.9650 TRA -.0197 TC3-5.7420 BAU .9081
ROE .2001 RRA .0223 RC3 -.1135 FAU .06313
FOE-1.9140 FRA .6416 FC3-4.6208 BSP 16042
BOE 1.9752 BRA .0298 BC3 5.7431 FSP -1300

MID-COURSE EXECUTION ACCURACY
SGT 5130.0 SGR 345.2 SG3 403.4
RRT -.4433 RRF -.4729 RTF .9580
SGB 5141.6 R23 .0521 R13 -.9581
SG1 5132.2 SG2 309.3 THA 178.29

ORBIT DETERMINATION ACCURACY
ST 3276.0 SR 333.7 SS 1452.9
CRT -.9985 CRS .9874 CST -.9929
LSA 3595.6 MSA 159.3 SSA 14.8
EL1 3292.9 EL2 18.5 ALF 174.19

LAUNCH DATE JUN 22 1967 FLIGHT TIME 172.00 ARRIVAL DATE DEC 11 1967

HELIOCENTRIC CONIC DISTANCE 491.518

RL 152.03 LAL .00 LOL 269.91 VL 26.433 GAL .73 AZL 93.93 HCA 231.63 SMA 126.74 ECC .19997 INC 3.9286 V1 29.304
RP 107.49 LAP 3.08 LOP 141.47 VP 37.713 GAP 7.56 AZP 87.56 TAL 177.09 TAP 48.71 RCA 101.39 APO 152.08 V2 35.255
RC 137.871 GL -31.60 GP 7.02 ZAL 86.21 ZAP 155.68 ETS 15.90 ZAE 130.40 ETE 174.23 ZAC 98.39 ETC 15.66 CLP-156.65

PLANETOCENTRIC CONIC

C3 11.946 VHL 3.456 DLA -30.43 RAL 170.05 RAD 6567.5 VEL 11.547 PTH 2.02 VHP 5.399 DPA 15.55 RAP 170.20 ECC 1.1966

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.37	9 8 58	1078.03	23.85	339.59	31.21	109.48	9 26 56	478.0	26.28	331.60
101.63	12 16 17	5762.86	23.86	273.06	31.21	109.46	13 52 20	5162.9	26.30	265.07
78.37	9 8 58	1078.03	23.85	339.59	31.21	109.48	9 26 56	478.0	26.28	331.60
101.63	12 16 17	5762.86	23.86	273.06	31.21	109.46	13 52 20	5162.9	26.30	265.07
110.00	11 12 0	677.23	14.95	305.97	26.76	121.10	11 23 17	77.2	18.96	299.15
110.00	15 12 26	5211.66	33.42	233.83	33.83	97.62	16 39 17	4611.7	34.12	224.66

DIFFERENTIAL CORRECTIONS
TOE-2.0189 TRA .1129 TC3-5.8077 BAU .9278
ROE .2025 RRA .0267 RC3 -.1365 FAU .05914
FOE-1.8212 FRA .7168 FC3-4.2857 BSP 16380
BOE 2.0290 BRA .1160 BC3 5.8093 FSP -1240

MID-COURSE EXECUTION ACCURACY
SGT 5231.2 SGR 352.4 SG3 384.4
RRT -.3978 RRF -.4228 RTF .9581
SGB 5243.0 R23 .0439 R13 -.9582
SG1 5233.1 SG2 323.2 THA 178.46

ORBIT DETERMINATION ACCURACY
ST 3349.6 SR 336.0 SS 1422.0
CRT -.9969 CRS .9828 CST -.9932
LSA 3651.2 MSA 155.0 SSA 15.8
EL1 3366.4 EL2 26.4 ALF 174.29

LAUNCH DATE JUN 22 1967 FLIGHT TIME 174.00 ARRIVAL DATE DEC 13 1967

DISTANCE 497.443

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 26.395 GAL 1.06 AZL 93.86 HCA 234.87 SMA 126.50 ECC .20269 INC 3.8586 V1 29.304
RP 107.50 LAP 3.16 LOP 144.73 VP 37.684 GAP 7.91 AZP 87.78 TAL 175.81 TAP 50.69 RCA 100.86 APO 152.14 V2 35.253
RC 140.023 GL -30.65 GP 6.51 ZAL 83.71 ZAP 157.16 ETS 15.71 ZAE 130.01 ETE 174.80 ZAC 96.76 ETC 15.21 CLP-158.06

PLANETOCENTRIC CONIC
C3 12.138 VHL 3.484 DLA -30.71 RAL 173.09 RAD 6567.5 VEL 11.555 PTH 2.02 VHP 5.568 DPA 14.36 RAP 171.73 ECC 1.1998

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.58	9 15 19	1099.76	23.99	341.27	34.57	109.78	9 33 39	499.8	26.46	333.28
102.42	12 34 13	5747.88	24.00	272.00	34.58	109.77	14 10 1	5147.9	26.47	264.00
77.58	9 15 19	1099.76	23.99	341.27	34.57	109.78	9 33 39	499.8	26.46	333.28
102.42	12 34 13	5747.88	24.00	272.00	34.58	109.77	14 10 1	5147.9	26.47	264.00
110.00	11 28 44	665.45	15.37	305.31	30.24	120.92	11 39 50	65.4	19.35	298.46
110.00	15 19 59	5230.19	33.25	235.25	37.22	98.44	16 47 9	4630.2	34.06	226.10

DIFFERENTIAL CORRECTIONS
TDE-2.0728 TRA .2553 TC3-5.8245 BAU .9455
RDE .2068 RRA .0310 RC3 -.1535 FAU .05517
FDE-1.7328 FRA .7872 FC3-3.9350 BSP 16710
BDE 2.0831 BRA .2572 BC3 5.8265 FSP -1184

MID-COURSE EXECUTION ACCURACY
SGT 5322.6 SGR 361.5 SG3 365.6
RRT -.3621 RRF -.3837 RTF .9580
SGB 5334.9 R23 .0380 R13 -.9581
SG1 5324.2 SG2 336.8 THA 178.59

ORBIT DETERMINATION ACCURACY
ST 3414.1 SR 340.6 SS 1388.5
CRT -.9945 CRS .9774 CST -.9935
LSA 3698.2 MSA 151.5 SSA 16.7
EL1 3430.9 EL2 35.6 ALF 174.33

LAUNCH DATE JUN 22 1967 FLIGHT TIME 176.00 ARRIVAL DATE DEC 15 1967

DISTANCE 503.344

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 26.357 GAL 1.41 AZL 93.79 HCA 238.12 SMA 126.25 ECC .20559 INC 3.7938 V1 29.304
RP 107.51 LAP 3.22 LOP 147.98 VP 37.654 GAP 8.27 AZP 87.99 TAL 174.52 TAP 52.64 RCA 100.30 APO 152.21 V2 35.249
RC 142.165 GL -29.67 GP 6.07 ZAL 81.14 ZAP 158.57 ETS 15.59 ZAE 129.65 ETE 175.29 ZAC 95.05 ETC 14.79 CLP-159.41

PLANETOCENTRIC CONIC
C3 12.409 VHL 3.523 DLA -30.99 RAL 176.20 RAD 6567.5 VEL 11.567 PTH 2.02 VHP 5.742 DPA 13.20 RAP 173.32 ECC 1.2042

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.86	9 22 34	1120.70	24.08	342.88	38.09	110.11	9 41 15	520.7	26.60	334.90
103.14	12 51 46	5736.28	24.09	271.16	38.09	110.10	14 27 22	5136.3	26.61	263.17
76.86	9 22 34	1120.70	24.08	342.88	38.09	110.11	9 41 15	520.7	26.60	334.90
103.14	12 51 46	5736.28	24.09	271.16	38.09	110.10	14 27 22	5136.3	26.61	263.17
110.00	11 45 40	655.23	15.72	304.73	33.87	120.75	11 56 36	55.2	19.68	297.85
110.00	15 27 51	5249.75	33.04	236.74	40.76	99.30	16 55 20	4649.8	33.97	227.62

DIFFERENTIAL CORRECTIONS
TDE-2.1248 TRA .4081 TC3-5.7973 BAU .9621
RDE .2130 RRA .0349 RC3 -.1642 FAU .05143
FDE-1.6478 FRA .8528 FC3-3.5884 BSP 16991
BDE 2.1355 BRA .4096 BC3 5.7997 FSP -1128

MID-COURSE EXECUTION ACCURACY
SGT 5406.1 SGR 371.2 SG3 347.7
RRT -.3357 RRF -.3541 RTF .9580
SGB 5418.8 R23 .0331 R13 -.9581
SG1 5407.5 SG2 349.6 THA 178.67

ORBIT DETERMINATION ACCURACY
ST 3466.0 SR 347.1 SS 1351.8
CRT -.9913 CRS .9715 CST -.9937
LSA 3733.5 MSA 148.8 SSA 17.4
EL1 3483.1 EL2 45.6 ALF 174.33

LAUNCH DATE JUN 22 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 17 1967

DISTANCE 509.220

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 26.319 GAL 1.78 AZL 93.73 HCA 241.36 SMA 126.01 ECC .20871 INC 3.7335 V1 29.304
RP 107.52 LAP 3.28 LOP 151.23 VP 37.623 GAP 8.63 AZP 88.21 TAL 173.22 TAP 54.59 RCA 99.71 APO 152.31 V2 35.245
RC 144.295 GL -28.65 GP 5.68 ZAL 78.54 ZAP 159.91 ETS 15.54 ZAE 129.32 ETE 175.70 ZAC 93.28 ETC 14.41 CLP-160.70

PLANETOCENTRIC CONIC
C3 12.763 VHL 3.572 DLA -31.23 RAL 179.36 RAD 6567.5 VEL 11.582 PTH 2.03 VHP 5.923 DPA 12.06 RAP 174.98 ECC 1.2100

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.25	9 30 49	1140.45	24.12	344.39	41.74	110.46	9 49 49	540.5	26.68	336.41
103.75	13 8 43	5728.55	24.13	270.60	41.74	110.45	14 44 12	5128.5	26.69	262.62
76.25	9 30 49	1140.45	24.12	344.39	41.74	110.46	9 49 49	540.5	26.68	336.41
103.75	13 8 43	5728.55	24.13	270.60	41.74	110.45	14 44 12	5128.5	26.69	262.62
110.00	12 2 32	647.32	16.00	304.29	37.61	120.62	12 13 19	47.3	19.94	297.38
110.00	15 36 10	5269.68	32.81	238.25	44.44	100.17	17 4 0	4669.7	33.87	229.17

DIFFERENTIAL CORRECTIONS
TDE-2.1746 TRA .5739 TC3-5.7237 BAU .9770
RDE .2209 RRA .0382 RC3 -.1697 FAU .04783
FDE-1.5661 FRA .9172 FC3-3.2442 BSP 17219
BDE 2.1857 BRA .5752 BC3 5.7262 FSP -1072

MID-COURSE EXECUTION ACCURACY
SGT 5481.5 SGR 381.3 SG3 330.6
RRT -.3170 RRF -.3327 RTF .9579
SGB 5494.7 R23 .0293 R13 -.9579
SG1 5482.8 SG2 361.5 THA 178.73

ORBIT DETERMINATION ACCURACY
ST 3504.6 SR 355.0 SS 1312.7
CRT -.9873 CRS .9649 CST -.9939
LSA 3756.2 MSA 147.5 SSA 18.0
EL1 3522.1 EL2 56.1 ALF 174.29

LAUNCH DATE JUN 22 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 19 1967

DISTANCE 515.069

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 26.281 GAL 2.16 AZL 93.68 HCA 244.61 SMA 125.77 ECC .21205 INC 3.6769 V1 29.304
RP 107.53 LAP 3.32 LOP 154.48 VP 37.591 GAP 9.00 AZP 88.42 TAL 171.90 TAP 56.51 RCA 99.10 APO 152.44 V2 35.240
RC 146.414 GL -27.61 GP 5.34 ZAL 75.90 ZAP 161.20 ETS 15.57 ZAE 129.02 ETE 176.06 ZAC 91.44 ETC 14.06 CLP-161.95

PLANETOCENTRIC CONIC
C3 13.207 VHL 3.634 DLA -31.44 RAL 182.55 RAD 6567.5 VEL 11.601 PTH 2.03 VHP 6.110 DPA 10.94 RAP 176.69 ECC 1.2174

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.74	9 40 0	1158.92	24.10	345.77	45.51	110.83	9 59 19	558.9	26.71	337.82
104.26	13 24 59	5724.83	24.11	270.30	45.51	110.82	15 0 23	5124.8	26.72	262.35
75.74	9 40 0	1158.92	24.10	345.77	45.51	110.83	9 59 19	558.9	26.71	337.82
104.26	13 24 59	5724.83	24.11	270.30	45.51	110.82	15 0 23	5124.8	26.72	262.35
110.00	12 19 2	642.46	16.17	304.01	41.45	120.54	12 29 44	42.5	20.10	297.09
110.00	15 45 8	5289.29	32.57	239.73	48.25	101.01	17 13 17	4689.3	33.74	230.69

DIFFERENTIAL CORRECTIONS
TDE-2.2247 TRA .7474 TC3-5.6156 BAU .9920
RDE .2305 RRA .0411 RC3 -.1702 FAU .04452
FDE-1.4905 FRA .9745 FC3-2.9181 BSP 17490
BDE 2.2366 BRA .7485 BC3 5.6182 FSP -1025

MID-COURSE EXECUTION ACCURACY
SGT 5555.9 SGR 391.3 SG3 314.7
RRT -.3058 RRF -.3192 RTF .9581
SGB 5569.7 R23 .0262 R13 -.9581
SG1 5557.2 SG2 372.5 THA 178.76

ORBIT DETERMINATION ACCURACY
ST 3533.9 SR 364.2 SS 1273.3
CRT -.9828 CRS .9580 CST -.9941
LSA 3771.0 MSA 147.0 SSA 18.4
EL1 3552.0 EL2 66.9 ALF 174.21

LAUNCH DATE JUN 22 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 21 1967

HELIOCENTRIC CONIC DISTANCE 520.890
RL 152.03 LAL .00 LOL 269.91 VL 26.242 GAL 2.57 AZL 93.62 HCA 247.85 SMA 125.53 ECC .21562 INC 3.6232 V1 29.304
RP 107.55 LAP 3.38 LOP 157.73 VP 37.559 GAP 9.37 AZP 88.63 TAL 170.57 TAP 58.43 RCA 98.46 APO 152.60 V2 35.234
RC 148.521 GL -26.54 GP 5.04 ZAL 73.26 ZAP 162.44 ETS 15.69 ZAE 128.74 ETE 176.36 ZAC 89.55 ETC 13.75 CLP-163.16
PLANETOCENTRIC CONIC
C3 13.751 VHL 3.708 DLA -31.60 RAL 185.75 RAD 6567.5 VEL 11.625 PTH 2.04 VHP 6.304 DPA 9.83 RAP 178.45 ECC 1.2263

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.35	9 50 7	1176.12	24.00	347.03	49.37	111.20	10 9 43	576.1	26.66	339.10
104.65	13 40 27	5725.18	24.01	270.29	49.38	111.19	15 15 52	5125.2	26.67	262.36
75.35	9 50 7	1176.12	24.00	347.03	49.37	111.20	10 9 43	576.1	26.66	339.10
104.65	13 40 27	5725.18	24.01	270.29	49.38	111.19	15 15 52	5125.2	26.67	262.36
110.00	12 34 53	641.33	16.20	303.94	45.35	120.52	12 45 34	41.3	20.13	297.03
110.00	15 54 51	5307.98	32.32	241.13	52.16	101.80	17 23 19	4708.0	33.60	232.13

DIFFERENTIAL CORRECTIONS
TDE-2.2731 TRA .9315 TC3-5.4711 BAU 1.0063
RDE .2417 RRA .0432 RC3 -.1667 FAU .04141
FDE-1.4190 FRA 1.0284 FC3-2.6069 BSP 17756
BDE 2.2859 BRA .9325 BC3 5.4737 FSP -981

MID-COURSE EXECUTION ACCURACY
SGT 5626.3 SGR 401.0 SG3 299.6
RRT -.3003 RRF -.3118 RTF .9583
SGB 5640.6 R23 .0238 R13 -.9584
SG1 5627.6 SG2 382.4 THA 178.77

ORBIT DETERMINATION ACCURACY
ST 3550.7 SR 374.2 SS 1232.9
CRT -.9779 CRS .9509 CST -.9943
LSA 3774.3 MSA 147.7 SSA 18.7
EL1 3569.5 EL2 77.9 ALF 174.11

LAUNCH DATE JUN 22 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 23 1967

HELIOCENTRIC CONIC DISTANCE 526.680
RL 152.03 LAL .00 LOL 269.91 VL 26.203 GAL 2.99 AZL 93.57 HCA 251.10 SMA 125.29 ECC .21945 INC 3.5720 V1 29.304
RP 107.57 LAP 3.38 LOP 160.97 VP 37.526 GAP 9.76 AZP 88.84 TAL 169.24 TAP 60.33 RCA 97.79 APO 152.78 V2 35.228
RC 150.615 GL -25.44 GP 4.77 ZAL 70.61 ZAP 163.64 ETS 15.90 ZAE 128.49 ETE 176.62 ZAC 87.61 ETC 13.47 CLP-164.33
PLANETOCENTRIC CONIC
C3 14.404 VHL 3.795 DLA -31.71 RAL 188.96 RAD 6567.6 VEL 11.653 PTH 2.05 VHP 6.506 DPA 8.74 RAP 180.24 ECC 1.2370

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.09	10 1 4	1192.03	23.83	348.17	53.32	111.57	10 20 57	592.0	26.54	340.27
104.91	13 55 3	5729.69	23.84	270.56	53.32	111.56	15 30 32	5129.7	26.55	262.66
75.09	10 1 4	1192.03	23.83	348.17	53.32	111.57	10 20 57	592.0	26.54	340.27
104.91	13 55 3	5729.69	23.84	270.56	53.32	111.56	15 30 32	5129.7	26.55	262.66
110.00	12 49 50	644.53	16.09	304.13	49.30	120.57	13 0 35	44.5	20.03	297.22
110.00	16 5 28	5325.20	32.07	242.41	56.18	102.52	17 34 13	4725.2	33.46	233.45

DIFFERENTIAL CORRECTIONS
TDE-2.3186 TRA 1.1274 TC3-5.2898 BAU 1.0191
RDE .2543 RRA .0444 RC3 -.1598 FAU .03844
FDE-1.3507 FRA 1.0798 FC3-2.3104 BSP 17991
BDE 2.3325 BRA 1.1283 BC3 5.2922 FSP -938

MID-COURSE EXECUTION ACCURACY
SGT 5690.1 SGR 410.2 SG3 285.3
RRT -.2994 RRF -.3093 RTF .9586
SGB 5704.9 R23 .0219 R13 -.9587
SG1 5691.4 SG2 391.3 THA 178.76

ORBIT DETERMINATION ACCURACY
ST 3553.5 SR 384.6 SS 1191.3
CRT -.9724 CRS .9434 CST -.9945
LSA 3764.5 MSA 149.7 SSA 18.7
EL1 3573.1 EL2 89.2 ALF 173.99

LAUNCH DATE JUN 22 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 25 1967

HELIOCENTRIC CONIC DISTANCE 532.438
RL 152.03 LAL .00 LOL 269.91 VL 26.165 GAL 3.43 AZL 93.52 HCA 254.34 SMA 125.05 ECC .22356 INC 3.5227 V1 29.304
RP 107.59 LAP 3.39 LOP 164.22 VP 37.493 GAP 10.16 AZP 89.05 TAL 167.89 TAP 62.23 RCA 97.09 APO 153.01 V2 35.221
RC 152.696 GL -24.33 GP 4.53 ZAL 67.99 ZAP 164.79 ETS 16.20 ZAE 128.25 ETE 176.85 ZAC 85.64 ETC 13.22 CLP-165.46
PLANETOCENTRIC CONIC
C3 15.177 VHL 3.896 DLA -31.77 RAL 192.14 RAD 6567.6 VEL 11.686 PTH 2.06 VHP 6.717 DPA 7.65 RAP 182.08 ECC 1.2498

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.95	10 12 51	1206.62	23.57	349.16	57.33	111.94	10 32 57	606.6	26.34	341.30
105.05	14 8 41	5738.44	23.59	271.11	57.33	111.93	15 44 19	5138.4	26.35	263.25
74.95	10 12 51	1206.62	23.57	349.16	57.33	111.94	10 32 57	606.6	26.34	341.30
105.05	14 8 41	5738.44	23.59	271.11	57.33	111.93	15 44 19	5138.4	26.35	263.25
110.00	13 3 41	652.50	15.82	304.58	53.26	120.71	13 14 33	52.5	19.77	297.69
110.00	16 17 1	5340.56	31.84	243.55	60.28	103.16	17 46 1	4740.6	33.32	234.63

DIFFERENTIAL CORRECTIONS
TDE-2.3573 TRA 1.3386 TC3-5.0691 BAU 1.0290
RDE .2681 RRA .0445 RC3 -.1507 FAU .03549
FDE-1.2821 FRA 1.1314 FC3-2.0242 BSP 18134
BDE 2.3725 BRA 1.3393 BC3 5.0713 FSP -892

MID-COURSE EXECUTION ACCURACY
SGT 5742.9 SGR 418.5 SG3 271.5
RRT -.3014 RRF -.3097 RTF .9586
SGB 5758.2 R23 .0203 R13 -.9586
SG1 5744.3 SG2 398.9 THA 178.74

ORBIT DETERMINATION ACCURACY
ST 3537.8 SR 394.9 SS 1146.4
CRT -.9665 CRS .9352 CST -.9945
LSA 3736.6 MSA 153.4 SSA 18.6
EL1 3558.4 EL2 100.8 ALF 173.84

LAUNCH DATE JUN 22 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 27 1967

HELIOCENTRIC CONIC DISTANCE 538.159
RL 152.03 LAL .00 LOL 269.91 VL 26.126 GAL 3.90 AZL 93.48 HCA 257.58 SMA 124.81 ECC .22797 INC 3.4750 V1 29.304
RP 107.62 LAP 3.39 LOP 167.47 VP 37.459 GAP 10.57 AZP 89.25 TAL 166.54 TAP 64.11 RCA 96.36 APO 153.27 V2 35.214
RC 154.762 GL -23.20 GP 4.31 ZAL 65.40 ZAP 165.91 ETS 16.63 ZAE 128.04 ETE 177.04 ZAC 83.62 ETC 13.00 CLP-166.57
PLANETOCENTRIC CONIC
C3 16.086 VHL 4.011 DLA -31.77 RAL 195.29 RAD 6567.6 VEL 11.725 PTH 2.07 VHP 6.937 DPA 6.58 RAP 183.94 ECC 1.2647

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.95	10 25 22	1219.83	23.24	350.02	61.38	112.30	10 45 42	619.8	26.06	342.19
105.05	14 21 15	5751.52	23.25	271.96	61.38	112.29	15 57 6	5151.5	26.07	264.13
74.95	10 25 22	1219.83	23.24	350.02	61.38	112.30	10 45 42	619.8	26.06	342.19
105.05	14 21 15	5751.52	23.25	271.96	61.38	112.29	15 57 6	5151.5	26.07	264.13
110.00	13 16 16	665.51	15.36	305.31	57.20	120.92	13 27 22	65.5	19.35	298.46
110.00	16 29 31	5353.83	31.63	244.52	64.44	103.70	17 58 45	4753.8	33.19	235.64

DIFFERENTIAL CORRECTIONS
TDE-2.3968 TRA 1.5582 TC3-4.8327 BAU 1.0397
RDE .2833 RRA .0437 RC3 -.1394 FAU .03283
FDE-1.2202 FRA 1.1782 FC3-1.7669 BSP 18357
BDE 2.4135 BRA 1.5588 BC3 4.8347 FSP -855

MID-COURSE EXECUTION ACCURACY
SGT 5797.1 SGR 426.2 SG3 258.7
RRT -.3076 RRF -.3146 RTF .9589
SGB 5812.8 R23 .0192 R13 -.9590
SG1 5798.6 SG2 405.4 THA 178.70

ORBIT DETERMINATION ACCURACY
ST 3514.8 SR 405.3 SS 1104.0
CRT -.9602 CRS .9272 CST -.9947
LSA 3702.9 MSA 157.9 SSA 18.4
EL1 3536.3 EL2 112.4 ALF 173.68

LAUNCH DATE JUN 22 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 29 1967

DISTANCE 543.840

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 26.087 GAL 4.39 AZL 93.43 HCA 260.82 SMA 124.58 ECC .23271 INC 3.4285 V1 29.304
RP 107.64 LAP 3.38 LOP 170.71 VP 37.424 GAP 10.99 AZP 89.45 TAL 165.18 TAP 66.00 RCA 95.59 APO 153.57 V2 35.205
RC 156.813 GL -22.07 GP 4.12 ZAL 62.84 ZAP 166.99 ETS 17.18 ZAE 127.83 ETE 177.21 ZAC 81.58 ETC 12.81 CLP-167.65

PLANETOCENTRIC CONIC
C3 17.146 VHL 4.141 DLA -31.72 RAL 198.38 RAD 6567.7 VEL 11.770 PTH 2.08 VHP 7.167 DPA 5.51 RAP 185.83 ECC 1.2822

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.08	10 38 33	1231.76	22.82	350.73	65.45	112.65	10 59 5	631.8	25.69	342.96
104.92	14 32 43	5768.83	22.83	273.08	65.45	112.64	16 8 52	5168.8	25.70	265.30
75.08	10 38 33	1231.76	22.82	350.73	65.45	112.65	10 59 5	631.8	25.69	342.96
104.92	14 32 43	5768.83	22.83	273.08	65.45	112.64	16 8 52	5168.8	25.70	265.30
110.00	13 27 31	683.58	14.73	306.33	61.11	121.20	13 38 55	83.6	18.75	299.53
110.00	16 42 55	5365.01	31.44	245.34	68.67	104.15	18 12 20	4765.0	33.07	236.50

DIFFERENTIAL CORRECTIONS
TDE-2.4322 TRA 1.7914 TC3-4.5730 BAU 1.0487
RDE .2996 RRA .0417 RC3 -.1268 FAU .03028
FDE-1.1606 FRA 1.2239 FC3-1.5287 BSP 18545
BDE 2.4506 BRA 1.7919 BC3 4.5748 FSP -819

MID-COURSE EXECUTION ACCURACY
SGT 5844.6 SGR 433.0 SG3 246.6
RRT -.3162 RRF -.3220 RTF .9592
SGB 5860.6 R23 .0182 R13 -.9593
SG1 5846.2 SG2 410.7 THA 178.65

ORBIT DETERMINATION ACCURACY
ST 3478.9 SR 415.1 SS 1061.3
CRT -.9536 CRS .9187 CST -.9948
LSA 3657.1 MSA 163.5 SSA 18.0
EL1 3501.4 EL2 124.2 ALF 173.50

LAUNCH DATE JUN 22 1967 FLIGHT TIME 192.00 ARRIVAL DATE DEC 31 1967

DISTANCE 549.478

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 26.049 GAL 4.91 AZL 93.38 HCA 264.05 SMA 124.34 ECC .23780 INC 3.3829 V1 29.304
RP 107.67 LAP 3.36 LOP 173.96 VP 37.389 GAP 11.43 AZP 89.65 TAL 163.82 TAP 67.88 RCA 94.77 APO 153.91 V2 35.197
RC 158.850 GL -20.93 GP 3.95 ZAL 60.35 ZAP 168.04 ETS 17.91 ZAE 127.64 ETE 177.35 ZAC 79.50 ETC 12.65 CLP-168.71

PLANETOCENTRIC CONIC
C3 18.376 VHL 4.287 DLA -31.61 RAL 201.40 RAD 6567.7 VEL 11.822 PTH 2.09 VHP 7.409 DPA 4.45 RAP 187.74 ECC 1.3024

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.33	10 52 21	1242.38	22.32	351.31	69.53	112.98	11 13 3	642.4	25.24	343.59
104.67	14 43 0	5790.43	22.33	274.49	69.54	112.97	16 19 31	5190.4	25.25	266.77
75.33	10 52 21	1242.38	22.32	351.31	69.53	112.98	11 13 3	642.4	25.24	343.59
104.67	14 43 0	5790.43	22.33	274.49	69.54	112.97	16 19 31	5190.4	25.25	266.77
110.00	13 37 27	706.51	13.92	307.61	64.98	121.54	13 49 14	106.5	17.99	300.86
110.00	16 57 5	5374.29	31.29	246.02	72.94	104.53	18 26 39	4774.3	32.96	237.20

DIFFERENTIAL CORRECTIONS
TDE-2.4643 TRA 2.0376 TC3-4.2983 BAU 1.0563
RDE .3171 RRA .0384 RC3 -.1134 FAU .02787
FDE-1.1041 FRA 1.2681 FC3-1.3128 BSP 18730
BDE 2.4846 BRA 2.0380 BC3 4.2998 FSP -785

MID-COURSE EXECUTION ACCURACY
SGT 5886.8 SGR 438.9 SG3 235.1
RRT -.3269 RRF -.3316 RTF .9596
SGB 5903.2 R23 .0172 R13 -.9596
SG1 5888.6 SG2 414.7 THA 178.60

ORBIT DETERMINATION ACCURACY
ST 3432.3 SR 424.2 SS 1019.3
CRT -.9466 CRS .9098 CST -.9948
LSA 3601.5 MSA 169.9 SSA 17.6
EL1 3455.8 EL2 135.9 ALF 173.32

LAUNCH DATE JUN 22 1967 FLIGHT TIME 194.00 ARRIVAL DATE JAN 2 1968

DISTANCE 555.069

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 26.010 GAL 5.45 AZL 93.34 HCA 267.29 SMA 124.11 ECC .24329 INC 3.3378 V1 29.304
RP 107.70 LAP 3.33 LOP 177.20 VP 37.353 GAP 11.89 AZP 89.84 TAL 162.46 TAP 69.75 RCA 93.92 APO 154.30 V2 35.187
RC 160.871 GL -19.80 GP 3.79 ZAL 57.91 ZAP 169.07 ETS 18.83 ZAE 127.47 ETE 177.47 ZAC 77.41 ETC 12.51 CLP-169.74

PLANETOCENTRIC CONIC
C3 19.798 VHL 4.450 DLA -31.45 RAL 204.33 RAD 6567.8 VEL 11.882 PTH 2.11 VHP 7.663 DPA 3.39 RAP 189.68 ECC 1.3258

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.71	11 6 43	1251.62	21.74	351.75	73.60	113.30	11 27 35	651.6	24.71	344.07
104.29	14 52 4	5816.35	21.76	276.19	73.61	113.28	16 29 0	5216.4	24.72	268.52
75.71	11 6 43	1251.62	21.74	351.75	73.60	113.30	11 27 35	651.6	24.71	344.07
104.29	14 52 4	5816.35	21.76	276.19	73.61	113.28	16 29 0	5216.4	24.72	268.52
110.00	13 46 7	733.95	12.93	309.13	68.78	121.92	13 58 21	133.9	17.06	302.45
110.00	17 11 50	5382.03	31.15	246.59	77.23	104.84	18 41 32	4782.0	32.87	237.79

DIFFERENTIAL CORRECTIONS
TDE-2.4897 TRA 2.3020 TC3-4.0050 BAU 1.0604
RDE .3353 RRA .0336 RC3 -.1002 FAU .02545
FDE-1.0485 FRA 1.3138 FC3-1.1129 BSP 18804
BDE 2.5121 BRA 2.3023 BC3 4.0063 FSP -747

MID-COURSE EXECUTION ACCURACY
SGT 5920.6 SGR 443.8 SG3 224.2
RRT -.3388 RRF -.3421 RTF .9598
SGB 5937.2 R23 .0163 R13 -.9598
SG1 5922.5 SG2 417.4 THA 178.54

ORBIT DETERMINATION ACCURACY
ST 3372.8 SR 432.1 SS 977.0
CRT -.9388 CRS .9000 CST -.9949
LSA 3533.5 MSA 177.5 SSA 17.1
EL1 3397.2 EL2 147.7 ALF 173.13

LAUNCH DATE JUN 22 1967 FLIGHT TIME 196.00 ARRIVAL DATE JAN 4 1968

DISTANCE 560.605

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 25.972 GAL 6.03 AZL 93.29 HCA 270.52 SMA 123.88 ECC .24920 INC 3.2930 V1 29.304
RP 107.73 LAP 3.29 LOP 180.44 VP 37.318 GAP 12.37 AZP 90.03 TAL 161.11 TAP 71.63 RCA 93.01 APO 154.75 V2 35.178
RC 162.878 GL -18.69 GP 3.65 ZAL 55.55 ZAP 170.07 ETS 20.00 ZAE 127.29 ETE 177.58 ZAC 75.30 ETC 12.41 CLP-170.76

PLANETOCENTRIC CONIC
C3 21.438 VHL 4.630 DLA -31.24 RAL 207.17 RAD 6567.9 VEL 11.951 PTH 2.13 VHP 7.932 DPA 2.35 RAP 191.63 ECC 1.3528

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.23	11 21 38	1259.42	21.09	352.03	77.66	113.59	11 42 37	659.4	24.10	344.42
103.77	14 59 49	5846.65	21.11	278.17	77.67	113.58	16 37 15	5246.6	24.11	270.56
76.23	11 21 38	1259.42	21.09	352.03	77.66	113.59	11 42 37	659.4	24.10	344.42
103.77	14 59 49	5846.65	21.11	278.17	77.67	113.58	16 37 15	5246.6	24.11	270.56
110.00	13 53 37	765.43	11.79	310.86	72.52	122.32	14 6 22	165.4	15.98	304.25
110.00	17 27 0	5388.63	31.04	247.07	81.54	105.10	18 56 49	4788.6	32.80	238.28

DIFFERENTIAL CORRECTIONS
TDE-2.5161 TRA 2.5772 TC3-3.7137 BAU 1.0647
RDE .3546 RRA .0275 RC3 -.0869 FAU .02327
FDE -.9984 FRA 1.3564 FC3 -.9398 BSP 18966
BDE 2.5409 BRA 2.5773 BC3 3.7147 FSP -717

MID-COURSE EXECUTION ACCURACY
SGT 5952.5 SGR 447.9 SG3 214.0
RRT -.3529 RRF -.3550 RTF .9603
SGB 5969.3 R23 .0154 R13 -.9604
SG1 5954.6 SG2 418.9 THA 178.47

ORBIT DETERMINATION ACCURACY
ST 3310.1 SR 439.0 SS 938.1
CRT -.9309 CRS .8904 CST -.9950
LSA 3463.4 MSA 185.0 SSA 16.6
EL1 3335.3 EL2 159.2 ALF 172.95

LAUNCH DATE JUN 22 1967 FLIGHT TIME 198.00 ARRIVAL DATE JAN 6 1968

HELIOCENTRIC CONIC DISTANCE 566.081

```
RL  152.03 LAL     .00 LOL 269.91 VL  25.934 GAL   6.63 AZL  93.25 HCA 273.75 SMA 123.65 ECC .25559 INC 3.2481 V1  29.304
RP  107.76 LAP    3.24 LOP 183.67 VP  37.281 GAP  12.87 AZP  90.21 TAL 159.76 TAP  73.51 RCA  92.05 APO 155.26 V2  35.167
RC 164.869 GL   -17.59 GP    3.52 ZAL  53.27 ZAP 171.05 ETS  21.50 ZAE 127.13 ETE 177.67 ZAC  73.17 ETC  12.34 CLP-171.77
```

PLANETOCENTRIC CONIC

```
C3  23.326 VHL   4.830 DLA -30.98 RAL 209.91 RAD 6567.9 VEL 12.029 PTH   2.15 VHP  8.216 DPA   1.31 RAP 193.61 ECC 1.3839
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.87	11 37 6	1265.49	20.37	352.15	81.68	113.86	11 58 12	665.5	23.42	344.59
103.13	15 6 10	5881.51	20.39	280.46	81.69	113.85	16 44 11	5281.5	23.44	272.91
76.87	11 37 6	1265.49	20.37	352.15	81.68	113.86	11 58 12	665.5	23.42	344.59
103.13	15 6 10	5881.51	20.39	280.46	81.69	113.85	16 44 11	5281.5	23.44	272.91
110.00	14 0 4	800.45	10.51	312.76	76.19	122.72	14 13 25	200.5	14.75	306.22
110.00	17 42 22	5394.55	30.93	247.49	85.85	105.33	19 12 17	4794.6	32.72	238.73

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.5403 TRA 2.8684 TC3-3.4203 BAU 1.0669   SGT 5979.2 SGR  451.0 SG3  204.4     ST  3241.8 SR   444.5 SS   901.4
RDE  .3746 RRA  .0199 RC3 -.0742 FAU .02119   RRT -.3683 RRF -.3692 RTF  .9609    CRT -.9225 CRS  .8803 CST -.9950
FDE -.9516 FRA 1.3990 FC3 -.7863 BSP  19113   SGB 5996.2 R23  .0145 R13 -.9610    LSA 3388.5 MSA  192.9 SSA   96.0
BDE 2.5678 BRA 2.8685 BC3 3.4211 FSP   -688   SG1 5981.5 SG2  419.1 THA 178.40    EL1 3267.7 EL2  170.3 ALF 172.77
```

LAUNCH DATE JUN 22 1967 FLIGHT TIME 200.00 ARRIVAL DATE JAN 8 1968

HELIOCENTRIC CONIC DISTANCE 571.488

```
RL  152.03 LAL     .00 LOL 269.91 VL  25.896 GAL   7.28 AZL  93.20 HCA 276.98 SMA 123.43 ECC .26249 INC 3.2030 V1  29.304
RP  107.79 LAP    3.18 LOP 186.91 VP  37.245 GAP  13.40 AZP  90.39 TAL 158.42 TAP  75.40 RCA  91.03 APO 155.83 V2  35.156
RC 166.846 GL   -16.51 GP    3.40 ZAL  51.07 ZAP 172.01 ETS  23.44 ZAE 126.96 ETE 177.75 ZAC  71.03 ETC  12.29 CLP-172.76
```

PLANETOCENTRIC CONIC

```
C3  25.499 VHL   5.050 DLA -30.69 RAL 212.53 RAD 6568.0 VEL 12.119 PTH   2.17 VHP  8.519 DPA    .29 RAP 195.59 ECC 1.4197
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.65	11 53 11	1269.60	19.59	352.09	85.67	114.11	12 14 21	669.6	22.68	344.59
102.35	15 11 0	633.10	19.60	305.16	85.68	114.09	15 21 33	33.1	22.69	297.66
77.65	11 53 11	1269.60	19.59	352.09	85.67	114.11	12 14 21	669.6	22.68	344.59
102.35	15 11 0	633.10	19.60	305.16	85.68	114.09	15 21 33	33.1	22.69	297.66
110.00	14 5 36	838.51	9.10	314.81	79.78	123.09	14 19 34	238.5	13.40	308.34
110.00	17 57 46	5400.22	30.83	247.90	90.14	105.56	19 27 46	4800.2	32.65	239.16

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.5621 TRA 3.1767 TC3-3.1285 BAU 1.0667   SGT 6000.1 SGR  453.1 SG3  195.4     ST  3168.8 SR   448.5 SS   866.8
RDE  .3953 RRA  .0107 RC3 -.0623 FAU .01918   RRT -.3847 RRF -.3842 RTF  .9616    CRT -.9135 CRS  .8699 CST -.9951
FDE -.9077 FRA 1.4420 FC3 -.6513 BSP  19240   SGB 6017.2 R23  .0136 R13 -.9616    LSA 3309.6 MSA  200.8 SSA   15.5
BDE 2.5925 BRA 3.1767 BC3 3.1291 FSP   -660   SG1 6002.6 SG2  418.1 THA 178.33    EL1 3195.3 EL2  181.0 ALF 172.61
```

LAUNCH DATE JUN 22 1967 FLIGHT TIME 202.00 ARRIVAL DATE JAN 10 1968

HELIOCENTRIC CONIC DISTANCE 576.820

```
RL  152.03 LAL     .00 LOL 269.91 VL  25.859 GAL   7.96 AZL  93.16 HCA 280.21 SMA 123.20 ECC .26998 INC 3.1572 V1  29.304
RP  107.83 LAP    3.11 LOP 190.14 VP  37.208 GAP  13.96 AZP  90.56 TAL 157.09 TAP  77.30 RCA  89.94 APO 156.47 V2  35.145
RC 168.808 GL   -15.46 GP    3.29 ZAL  48.96 ZAP 172.94 ETS  25.97 ZAE 126.80 ETE 177.81 ZAC  68.89 ETC  12.28 CLP-173.75
```

PLANETOCENTRIC CONIC

```
C3  27.999 VHL   5.291 DLA -30.36 RAL 215.04 RAD 6568.1 VEL 12.222 PTH   2.20 VHP  8.841 DPA   -.73 RAP 197.59 ECC 1.4608
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.58	12 10 0	1271.20	18.74	351.80	89.61	114.32	12 31 11	671.2	21.87	344.37
101.42	15 14 12	677.91	18.76	308.11	89.61	114.31	15 25 29	77.9	21.88	300.68
78.58	12 10 0	1271.20	18.74	351.80	89.61	114.32	12 31 11	671.2	21.87	344.37
101.42	15 14 12	677.91	18.76	308.11	89.61	114.31	15 25 29	77.9	21.88	300.68
110.00	14 10 19	879.14	7.59	316.97	83.30	123.43	14 24 58	279.1	11.93	310.57
110.00	18 13 2	5406.01	30.72	248.32	94.41	105.78	19 43 8	4806.0	32.58	239.59

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.5784 TRA 3.5074 TC3-2.8353 BAU 1.0615   SGT 6014.1 SGR  454.1 SG3  186.8     ST  3089.7 SR   450.8 SS   833.6
RDE  .4163 RRA -.0003 RC3 -.0518 FAU .01716   RRT -.4013 RRF -.3994 RTF  .9623    CRT -.9036 CRS  .8583 CST -.9952
FDE -.8649 FRA 1.4875 FC3 -.5307 BSP  19244   SGB 6031.2 R23  .0124 R13 -.9623    LSA 3225.0 MSA  209.0 SSA   15.0
BDE 2.6118 BRA 3.5074 BC3 2.8358 FSP   -629   SG1 6016.8 SG2  415.8 THA 178.26    EL1 3116.6 EL2  191.4 ALF 172.46
```

LAUNCH DATE JUN 22 1967 FLIGHT TIME 204.00 ARRIVAL DATE JAN 12 1968

HELIOCENTRIC CONIC DISTANCE 582.062

```
RL  152.03 LAL     .00 LOL 269.91 VL  25.822 GAL   8.69 AZL  93.11 HCA 283.44 SMA 122.98 ECC .27810 INC 3.1106 V1  29.304
RP  107.86 LAP    3.03 LOP 193.37 VP  37.172 GAP  14.56 AZP  90.72 TAL 155.78 TAP  79.22 RCA  88.78 APO 157.19 V2  35.134
RC 170.755 GL   -14.43 GP    3.19 ZAL  46.94 ZAP 173.84 ETS  29.35 ZAE 126.63 ETE 177.87 ZAC  66.74 ETC  12.30 CLP-174.74
```

PLANETOCENTRIC CONIC

```
C3  30.877 VHL   5.557 DLA -29.99 RAL 217.42 RAD 6568.2 VEL 12.339 PTH   2.22 VHP  9.186 DPA  -1.73 RAP 199.59 ECC 1.5082
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.67	12 27 42	1269.58	17.85	351.26	93.49	114.51	12 48 52	669.6	21.01	343.88
100.33	15 15 30	728.51	17.86	311.46	93.50	114.50	15 27 39	128.5	21.02	304.08
79.67	12 27 42	1269.58	17.85	351.26	93.49	114.51	12 48 52	669.6	21.01	343.88
100.33	15 15 30	728.51	17.86	311.46	93.50	114.50	15 27 39	128.5	21.02	304.08
110.00	14 14 20	921.93	5.98	319.24	86.75	123.72	14 29 42	321.9	10.37	312.90
110.00	18 28 3	5412.19	30.61	248.77	98.64	106.02	19 58 15	4812.2	32.50	240.06

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.5989 TRA 3.8529 TC3-2.5574 BAU 1.0558   SGT 6025.0 SGR  454.3 SG3  178.8     ST  3013.7 SR   451.7 SS   804.8
RDE  .4380 RRA -.0129 RC3 -.0421 FAU .01533   RRT -.4193 RRF -.4162 RTF  .9633    CRT -.8937 CRS  .8473 CST -.9953
FDE -.8279 FRA 1.5317 FC3 -.4299 BSP  19354   SGB 6042.1 R23  .0113 R13 -.9633    LSA 3144.3 MSA  216.3 SSA   14.5
BDE 2.6356 BRA 3.8529 BC3 2.5578 FSP   -604   SG1 6028.0 SG2  412.2 THA 178.18    EL1 3040.7 EL2  200.8 ALF 172.34
```

LAUNCH DATE JUN 22 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 14 1968

DISTANCE 587.203

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 25.785 GAL 9.47 AZL 93.06 HCA 286.66 SMA 122.77 ECC .28694 INC 3.0627 V1 29.304
RP 107.90 LAP 2.93 LOP 196.60 VP 37.135 GAP 15.19 AZP 90.88 TAL 154.49 TAP 81.15 RCA 87.54 APO 158.00 V2 35.122
RC 172.686 GL -13.44 GP 3.10 ZAL 45.02 ZAP 174.71 ETS 33.97 ZAE 126.45 ETE 177.91 ZAC 64.59 ETC 12.35 CLP-175.72

PLANETOCENTRIC CONIC
C3 34.195 VHL 5.848 DLA -29.61 RAL 219.68 RAD 6568.3 VEL 12.473 PTH 2.26 VHP 9.556 DPA -2.71 RAP 201.60 ECC 1.5628

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.98	12 46 44	1263.29	16.91	350.34	97.32	114.67	13 7 47	663.3	20.10	343.02
99.02	15 14 30	786.21	16.92	315.29	97.32	114.66	15 27 36	186.2	20.11	307.97
100.00	14 47 11	873.61	13.76	320.20	95.74	116.80	15 1 44	273.6	17.25	313.14
100.00	15 56 44	651.12	20.12	306.75	98.80	112.58	16 7 36	51.1	23.01	299.14
110.00	14 17 42	966.53	4.28	321.59	90.13	123.95	14 33 49	366.5	8.71	315.30
110.00	18 42 42	5419.00	30.48	249.25	102.83	106.28	20 13 1	4819.0	32.41	240.57

DIFFERENTIAL CORRECTIONS
TDE-2.6192 TRA 4.2198 TC3-2.2894 BAU 1.0467
RDE .4600 RRA -.0273 RC3 -.0337 FAU .01357
FDE -.7940 FRA 1.5775 FC3 -.3435 BSP 19444
BDE 2.6593 BRA 4.2199 BC3 2.2896 FSP -581

MID-COURSE EXECUTION ACCURACY
SGT 6030.7 SGR 453.5 SG3 171.2
RRT -.4379 RRF -.4335 RTF .9645
SGB 6047.8 R23 .0103 R13 -.9645
SG1 6034.0 SG2 407.5 THA 178.11

ORBIT DETERMINATION ACCURACY
ST 2937.3 SR 450.8 SS 778.8
CRT -.8834 CRS .8361 CST -.9955
LSA 3063.9 MSA 223.1 SSA 14.0
EL1 2964.3 EL2 209.3 ALF 172.24

LAUNCH DATE JUN 22 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 16 1968

DISTANCE 592.226

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 25.749 GAL 10.30 AZL 93.01 HCA 289.88 SMA 122.56 ECC .29658 INC 3.0132 V1 29.304
RP 107.94 LAP 2.83 LOP 199.82 VP 37.098 GAP 15.87 AZP 91.03 TAL 153.23 TAP 83.11 RCA 86.21 APO 158.90 V2 35.110
RC 174.603 GL -12.47 GP 3.02 ZAL 43.20 ZAP 175.53 ETS 40.49 ZAE 126.27 ETE 177.95 ZAC 62.45 ETC 12.44 CLP-176.71

PLANETOCENTRIC CONIC
C3 38.026 VHL 6.167 DLA -29.19 RAL 221.81 RAD 6568.5 VEL 12.625 PTH 2.29 VHP 9.954 DPA -3.68 RAP 203.61 ECC 1.6258

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.58	13 7 49	1249.80	15.93	348.87	101.08	114.79	13 28 39	649.8	19.14	341.60
97.42	15 10 27	853.36	15.95	319.79	101.08	114.78	15 24 40	253.4	19.16	312.52
100.00	14 36 16	963.07	10.96	325.36	98.54	117.99	14 52 19	363.1	14.62	318.48
100.00	16 24 41	615.32	21.04	304.48	103.39	111.73	16 34 57	15.3	23.81	296.78
110.00	14 20 31	1012.61	2.53	324.00	93.44	124.10	14 37 24	412.6	6.99	317.75
110.00	18 56 55	5426.58	30.33	249.80	106.97	106.57	20 27 21	4826.6	32.30	241.13

DIFFERENTIAL CORRECTIONS
TDE-2.6402 TRA 4.6100 TC3-2.0328 BAU 1.0335
RDE .4822 RRA -.0436 RC3 -.0266 FAU .01185
FDE -.7631 FRA 1.6253 FC3 -.2698 BSP 19520
BDE 2.6839 BRA 4.6102 BC3 2.0330 FSP -558

MID-COURSE EXECUTION ACCURACY
SGT 6031.4 SGR 451.6 SG3 164.1
RRT -.4568 RRF -.4512 RTF .9658
SGB 6048.3 R23 .0091 R13 -.9658
SG1 6035.0 SG2 401.5 THA 178.03

ORBIT DETERMINATION ACCURACY
ST 2861.8 SR 448.3 SS 755.7
CRT -.8727 CRS .8248 CST -.9957
LSA 2984.9 MSA 229.1 SSA 13.5
EL1 2888.6 EL2 216.9 ALF 172.17

LAUNCH DATE JUN 22 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 18 1968

DISTANCE 597.111

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 25.713 GAL 11.19 AZL 92.96 HCA 293.10 SMA 122.35 ECC .30711 INC 2.9617 V1 29.304
RP 107.97 LAP 2.72 LOP 203.04 VP 37.061 GAP 16.60 AZP 91.16 TAL 152.00 TAP 85.10 RCA 84.77 APO 159.92 V2 35.097
RC 176.504 GL -11.54 GP 2.95 ZAL 41.47 ZAP 176.26 ETS 49.92 ZAE 126.07 ETE 177.99 ZAC 60.32 ETC 12.56 CLP-177.70

PLANETOCENTRIC CONIC
C3 42.462 VHL 6.516 DLA -28.76 RAL 223.82 RAD 6568.6 VEL 12.800 PTH 2.33 VHP 10.386 DPA -4.63 RAP 205.63 ECC 1.6988

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.72	13 33 7	1221.95	14.92	346.33	104.77	114.88	13 53 29	621.9	18.15	339.12
95.28	15 1 10	936.92	14.93	325.46	104.77	114.87	15 16 47	336.9	18.16	318.24
100.00	14 29 36	1038.59	8.51	329.63	101.46	118.76	14 46 55	438.6	12.29	322.88
100.00	16 47 22	5883.55	21.54	281.13	107.73	111.25	18 25 25	5283.5	24.23	273.37
110.00	14 22 49	1059.91	.72	326.47	96.68	124.18	14 40 29	459.9	5.20	320.25
110.00	19 10 38	5435.00	30.17	250.40	111.04	106.89	20 41 13	4835.0	32.18	241.76

DIFFERENTIAL CORRECTIONS
TDE-2.6621 TRA 5.0261 TC3-1.7883 BAU 1.0152
RDE .5046 RRA -.0617 RC3 -.0207 FAU .01017
FDE -.7353 FRA 1.6757 FC3 -.2074 BSP 19565
BDE 2.7095 BRA 5.0264 BC3 1.7884 FSP -535

MID-COURSE EXECUTION ACCURACY
SGT 6027.1 SGR 448.8 SG3 157.3
RRT -.4761 RRF -.4694 RTF .9673
SGB 6043.8 R23 .0078 R13 -.9673
SG1 6030.9 SG2 394.4 THA 177.96

ORBIT DETERMINATION ACCURACY
ST 2787.7 SR 444.1 SS 735.8
CRT -.8616 CRS .8135 CST -.9959
LSA 2907.7 MSA 234.2 SSA 13.0
EL1 2814.0 EL2 223.3 ALF 172.14

LAUNCH DATE JUN 22 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 20 1968

DISTANCE 601.836

HELIOCENTRIC CONIC
RL 152.03 LAL .00 LOL 269.91 VL 25.677 GAL 12.15 AZL 92.91 HCA 296.32 SMA 122.14 ECC .31865 INC 2.9076 V1 29.304
RP 108.01 LAP 2.61 LOP 206.26 VP 37.025 GAP 17.39 AZP 91.29 TAL 150.81 TAP 87.12 RCA 83.22 APO 161.06 V2 35.084
RC 178.389 GL -10.63 GP 2.88 ZAL 39.85 ZAP 176.84 ETS 63.63 ZAE 125.85 ETE 178.02 ZAC 58.21 ETC 12.73 CLP-178.71

PLANETOCENTRIC CONIC
C3 47.613 VHL 6.900 DLA -28.32 RAL 225.70 RAD 6568.8 VEL 12.999 PTH 2.37 VHP 10.854 DPA -5.56 RAP 207.64 ECC 1.7836

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
89.78	14 22 44	1114.36	13.88	337.96	108.38	114.93	14 41 19	514.4	17.13	330.78
90.22	14 26 32	1102.06	13.90	337.06	108.39	114.92	14 44 54	502.1	17.14	329.89
100.00	14 24 39	1108.15	6.21	333.52	104.40	119.30	14 43 8	508.1	10.07	326.85
100.00	17 7 18	5871.55	21.83	280.36	111.91	110.94	18 45 10	5271.5	24.48	272.56
110.00	14 24 39	1108.18	-1.12	328.98	99.86	124.17	14 43 7	508.2	3.37	322.78
110.00	19 23 48	5444.28	29.98	251.06	115.04	107.24	20 54 32	4844.3	32.05	242.45

DIFFERENTIAL CORRECTIONS
TDE-2.6837 TRA 5.4730 TC3-1.5549 BAU .9898
RDE .5269 RRA -.0820 RC3 -.0161 FAU .00848
FDE -.7095 FRA 1.7303 FC3 -.1541 BSP 19525
BDE 2.7349 BRA 5.4736 BC3 1.5550 FSP -511

MID-COURSE EXECUTION ACCURACY
SGT 6018.2 SGR 444.9 SG3 151.0
RRT -.4954 RRF -.4877 RTF .9690
SGB 6034.6 R23 .0065 R13 -.9690
SG1 6022.3 SG2 386.2 THA 177.89

ORBIT DETERMINATION ACCURACY
ST 2714.4 SR 438.2 SS 718.4
CRT -.8500 CRS .8018 CST -.9962
LSA 2831.8 MSA 238.4 SSA 12.6
EL1 2740.1 EL2 228.7 ALF 172.13

LAUNCH DATE JUN 22 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 22 1968

HELIOCENTRIC CONIC DISTANCE 606.368

RL 152.03 LAL .00 LOL 269.91 VL 25.643 GAL 13.19 AZL 92.85 HCA 299.53 SMA 121.94 ECC .33133 INC 2.8506 V1 29.304
RP 108.05 LAP 2.48 LOP 209.47 VP 36.988 GAP 18.25 AZP 91.41 TAL 149.67 TAP 89.20 RCA 81.54 APO 162.35 V2 35.071
RC 180.257 GL -9.76 GP 2.82 ZAL 38.34 ZAP 177.17 ETS 82.29 ZAE 125.60 ETE 178.04 ZAC 56.11 ETC 12.93 CLP-179.74

PLANETOCENTRIC CONIC

C3 53.615 VHL 7.322 DLA -27.86 RAL 227.45 RAD 6568.9 VEL 13.228 PTH 2.42 VHP 11.365 DPA -6.47 RAP 209.64 ECC 1.8824

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 46 51	1283.33	8.65	347.70	109.83	117.07	14 8 14	683.3	12.21	340.83
90.00	15 16 24	992.21	17.10	330.50	113.87	112.92	15 32 56	392.2	20.06	323.08
100.00	14 20 35	1174.29	4.00	337.18	107.31	119.65	14 40 9	574.3	7.92	330.58
100.00	17 25 21	5864.53	22.00	279.90	115.95	110.76	19 3 6	5264.5	24.63	272.09
110.00	14 26 1	1157.20	-3.00	331.54	102.97	124.07	14 45 18	557.2	1.49	325.34
110.00	19 36 24	5454.38	29.78	251.77	118.96	107.62	21 7 19	4854.4	31.89	243.20

DIFFERENTIAL CORRECTIONS
TDE-2.7123 TRA 5.9472 TC3-1.3387 BAU .9596
RDE .5494 RRA -.1041 RC3 -.0125 FAU .00687
FDE -.6886 FRA 1.7871 FC3 -.1109 BSP 19571
BDE 2.7674 BRA 5.9481 BC3 1.3388 FSP -492

MID-COURSE EXECUTION ACCURACY
SGT 6004.4 SGR 440.1 SG3 145.0
RRT -.5152 RRF -.5068 RTF .9709
SGB 6020.5 R23 .0053 R13 -.9709
SG1 6008.7 SG2 376.9 THA 177.83

ORBIT DETERMINATION ACCURACY
ST 2646.0 SR 430.8 SS 705.0
CRT -.8387 CRS .7913 CST -.9965
LSA 2761.4 MSA 241.1 SSA 12.1
EL1 2670.7 EL2 232.4 ALF 172.16

LAUNCH DATE JUN 22 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 24 1968

HELIOCENTRIC CONIC DISTANCE 610.672

RL 152.03 LAL .00 LOL 269.91 VL 25.609 GAL 14.32 AZL 92.79 HCA 302.74 SMA 121.75 ECC .34531 INC 2.7899 V1 29.304
RP 108.09 LAP 2.35 LOP 212.69 VP 36.952 GAP 19.19 AZP 91.51 TAL 148.58 TAP 91.33 RCA 79.71 APO 163.79 V2 35.058
RC 182.108 GL -8.92 GP 2.76 ZAL 36.93 ZAP 177.13 ETS 103.41 ZAE 125.33 ETE 178.06 ZAC 54.04 ETC 13.17 CLP 179.22

PLANETOCENTRIC CONIC

C3 60.640 VHL 7.787 DLA -27.39 RAL 229.07 RAD 6569.1 VEL 13.491 PTH 2.47 VHP 11.925 DPA -7.35 RAP 211.63 ECC 1.9980

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 34 22	1375.74	5.75	352.94	112.33	117.77	13 57 18	775.7	9.42	346.19
90.00	15 41 49	960.20	17.93	328.53	118.13	112.29	15 57 49	360.2	20.80	321.03
100.00	14 16 57	1238.16	1.84	340.69	110.18	119.84	14 37 35	638.2	5.80	334.14
100.00	17 41 55	5861.06	22.08	279.68	119.87	110.67	19 19 36	5261.1	24.70	271.86
110.00	14 26 56	1206.78	-4.88	334.14	106.00	123.87	14 47 3	606.8	-.40	327.92
110.00	19 48 25	5465.21	29.55	252.53	122.78	108.02	21 19 30	4865.2	31.73	244.00

DIFFERENTIAL CORRECTIONS
TDE-2.7466 TRA 6.4559 TC3-1.1382 BAU .9228
RDE .5719 RRA -.1282 RC3 -.0098 FAU .00527
FDE -.6709 FRA 1.8483 FC3 -.0752 BSP 19583
BDE 2.8055 BRA 6.4572 BC3 1.1383 FSP -473

MID-COURSE EXECUTION ACCURACY
SGT 5987.0 SGR 434.2 SG3 139.4
RRT -.5352 RRF -.5261 RTF .9730
SGB 6002.7 R23 .0040 R13 -.9730
SG1 5991.5 SG2 366.5 THA 177.77

ORBIT DETERMINATION ACCURACY
ST 2581.2 SR 422.0 SS 694.8
CRT -.8276 CRS .7813 CST -.9968
LSA 2695.3 MSA 242.4 SSA 11.6
EL1 2604.9 EL2 234.7 ALF 172.23

LAUNCH DATE JUN 22 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 26 1968

HELIOCENTRIC CONIC DISTANCE 614.701

RL 152.03 LAL .00 LOL 269.91 VL 25.575 GAL 15.54 AZL 92.72 HCA 305.95 SMA 121.56 ECC .36077 INC 2.7246 V1 29.304
RP 108.13 LAP 2.21 LOP 215.90 VP 36.917 GAP 20.22 AZP 91.60 TAL 147.57 TAP 93.52 RCA 77.70 APO 165.41 V2 35.045
RC 183.942 GL -8.11 GP 2.71 ZAL 35.63 ZAP 176.71 ETS 122.01 ZAE 125.02 ETE 178.08 ZAC 52.01 ETC 13.46 CLP 178.14

PLANETOCENTRIC CONIC

C3 68.901 VHL 8.301 DLA -26.90 RAL 230.56 RAD 6569.3 VEL 13.793 PTH 2.52 VHP 12.541 DPA -8.20 RAP 213.60 ECC 2.1339

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 25 33	1455.30	3.21	357.41	114.92	118.15	13 49 48	855.3	6.95	350.72
90.00	16 2 31	942.02	18.40	327.40	122.11	111.91	16 18 13	342.0	21.21	319.85
100.00	14 13 31	1300.34	-.27	344.10	112.99	119.89	14 35 11	700.3	3.71	337.57
100.00	17 57 14	5860.24	22.10	279.63	123.65	110.65	19 34 54	5260.2	24.72	271.80
110.00	14 27 25	1256.72	-6.77	336.77	108.97	123.59	14 48 21	656.7	-2.31	330.53
110.00	19 59 49	5476.63	29.31	253.33	126.48	108.44	21 31 6	4876.6	31.54	244.84

DIFFERENTIAL CORRECTIONS
TDE-2.7862 TRA 7.0026 TC3 -.9507 BAU .8758
RDE .5942 RRA -.1544 RC3 -.0081 FAU .00363
FDE -.6563 FRA 1.9152 FC3 -.0456 BSP 19589
BDE 2.8489 BRA 7.0043 BC3 .9508 FSP -455

MID-COURSE EXECUTION ACCURACY
SGT 5963.9 SGR 427.4 SG3 134.1
RRT -.5552 RRF -.5456 RTF .9752
SGB 5979.2 R23 .0027 R13 -.9752
SG1 5968.6 SG2 355.2 THA 177.71

ORBIT DETERMINATION ACCURACY
ST 2518.9 SR 411.7 SS 687.9
CRT -.8168 CRS .7719 CST -.9971
LSA 2632.3 MSA 242.3 SSA 11.1
EL1 2541.5 EL2 235.4 ALF 172.33

LAUNCH DATE JUN 22 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 28 1968

HELIOCENTRIC CONIC DISTANCE 618.397

RL 152.03 LAL .00 LOL 269.91 VL 25.543 GAL 16.89 AZL 92.65 HCA 309.16 SMA 121.38 ECC .37791 INC 2.6538 V1 29.304
RP 108.18 LAP 2.06 LOP 219.10 VP 36.882 GAP 21.35 AZP 91.68 TAL 146.65 TAP 95.80 RCA 75.51 APO 167.24 V2 35.032
RC 185.758 GL -7.33 GP 2.66 ZAL 34.46 ZAP 176.01 ETS 135.67 ZAE 124.67 ETE 178.10 ZAC 50.02 ETC 13.79 CLP 177.02

PLANETOCENTRIC CONIC

C3 78.668 VHL 8.870 DLA -26.41 RAL 231.92 RAD 6569.5 VEL 14.143 PTH 2.58 VHP 13.223 DPA -9.02 RAP 215.55 ECC 2.2947

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 18 20	1528.40	.85	1.49	117.50	118.31	13 43 49	928.4	4.63	354.85
90.00	16 20 31	930.87	18.68	326.70	125.88	111.67	16 36 2	330.9	21.46	319.13
100.00	14 10 7	1361.17	-2.33	347.44	115.73	119.81	14 32 48	761.2	1.65	340.92
100.00	18 11 25	5861.38	22.08	279.70	127.29	110.68	19 49 7	5261.4	24.69	271.88
110.00	14 27 26	1306.84	-8.65	339.44	111.84	123.20	14 49 12	706.8	-4.22	333.15
110.00	20 10 36	5488.47	29.05	254.16	130.06	108.86	21 42 5	4888.5	31.34	245.71

DIFFERENTIAL CORRECTIONS
TDE-2.8296 TRA 7.5975 TC3 -.7755 BAU .8156
RDE .6162 RRA -.1828 RC3 -.0071 FAU .00189
FDE -.6440 FRA 1.9897 FC3 -.0208 BSP 19473
BDE 2.8959 BRA 7.5997 BC3 .7755 FSP -435

MID-COURSE EXECUTION ACCURACY
SGT 5938.1 SGR 419.5 SG3 129.1
RRT -.5751 RRF -.5651 RTF .9775
SGB 5952.9 R23 .0014 R13 -.9775
SG1 5943.0 SG2 342.9 THA 177.67

ORBIT DETERMINATION ACCURACY
ST 2458.7 SR 400.0 SS 684.0
CRT -.8059 CRS .7626 CST -.9974
LSA 2572.0 MSA 241.0 SSA 10.7
EL1 2480.0 EL2 234.8 ALF 172.46

LAUNCH DATE JUN 23 1967 FLIGHT TIME 70.00 ARRIVAL DATE SEP 1 1967

DISTANCE 165.309

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 23.559 GAL -2.09 AZL 93.62 HCA 68.35 SMA 111.46 ECC .36573 INC 3.6232 V1 29.302
RP 108.86 LAP -3.37 LOP 339.18 VP 35.322 GAP -21.41 AZP 91.34 TAL 183.64 TAP 251.99 RCA 70.69 APO 152.22 V2 34.812
RC 42.900 GL -14.19 GP -2.32 ZAL 99.10 ZAP 8.90 ETS 164.94 ZAE 163.66 ETE 36.42 ZAC 97.94 ETC 13.96 CLP 8.60

PLANETOCENTRIC CONIC
C3 36.844 VHL 6.070 DLA -9.66 RAL 166.55 RAD 6568.4 VEL 12.578 PTH 2.28 VHP 12.939 DPA 5.82 RAP 169.19 ECC 1.6064

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 39 11	2061.38	-15.58	32.01	36.13	113.95	6 13 32	1461.4	-12.21	24.95
90.00	15 10 20	5313.85	27.39	241.34	42.23	82.53	16 38 54	4713.9	26.07	232.92
100.00	6 55 46	1814.29	-16.83	13.25	35.53	115.07	7 26 0	1214.3	-13.32	6.22
100.00	16 36 26	5036.18	28.76	220.70	42.01	81.47	18 0 22	4436.2	27.28	212.21
110.00	7 53 13	1634.42	-20.16	357.84	33.78	118.21	8 20 27	1034.4	-16.23	350.92
110.00	17 55 29	4788.81	32.41	201.17	41.26	78.50	19 15 18	4188.8	30.49	192.48

DIFFERENTIAL CORRECTIONS
TDE .3730 TRA -.6816 TC3 .1602 BAU .0895
RDE -.4091 RRA -.1654 RC3 .0858 FAU .02179
FDE -.3078 FRA .2279 FC3 -.5120 BSP 2046
BDE .5536 BRA .7013 BC3 .1817 FSP -140

MID-COURSE EXECUTION ACCURACY
SGT 766.6 SGR 430.1 SG3 62.2
RRT -.0375 RRF .0416 RTF -.6623
SGB 879.0 R23 -.0054 R13 .6625
SG1 766.9 SG2 429.7 THA 178.24

ORBIT DETERMINATION ACCURACY
ST 402.9 SR 389.0 SS 333.6
CRT -.8079 CRS -.9391 CST .9583
LSA 628.2 MSA 173.5 SSA 16.4
EL1 532.6 EL2 173.5 ALF 136.24

LAUNCH DATE JUN 23 1967 FLIGHT TIME 72.00 ARRIVAL DATE SEP 3 1967

DISTANCE 171.960

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 23.912 GAL -2.16 AZL 93.57 HCA 71.52 SMA 113.05 ECC .34677 INC 3.5701 V1 29.302
RP 108.84 LAP -3.39 LOP 342.35 VP 35.564 GAP -20.18 AZP 91.13 TAL 184.08 TAP 255.60 RCA 73.84 APO 152.25 V2 34.819
RC 43.133 GL -15.02 GP -2.44 ZAL 100.04 ZAP 7.19 ETS 160.13 ZAE 161.62 ETE 31.51 ZAC 96.67 ETC 13.88 CLP 6.77

PLANETOCENTRIC CONIC
C3 32.961 VHL 5.741 DLA -10.03 RAL 165.30 RAD 6568.3 VEL 12.423 PTH 2.24 VHP 12.243 DPA 5.18 RAP 170.38 ECC 1.5425

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 37 9	2021.16	-14.45	29.59	33.04	114.62	6 10 51	1421.2	-11.01	22.60
90.00	15 2 21	5297.83	27.25	240.19	39.01	81.97	16 30 39	4697.8	25.85	231.80
100.00	6 53 32	1774.73	-15.68	10.88	32.44	115.78	7 23 7	1174.7	-12.08	3.93
100.00	16 28 39	5019.50	28.58	219.49	38.78	80.85	17 52 19	4419.5	27.02	211.04
110.00	7 50 31	1596.30	-18.91	355.58	30.68	119.02	8 17 8	996.3	-14.90	348.77
110.00	17 48 10	4770.70	32.16	199.82	38.00	77.74	19 7 40	4170.7	30.14	191.19

DIFFERENTIAL CORRECTIONS
TDE .3754 TRA -.6545 TC3 .2087 BAU .1008
RDE -.3892 RRA -.1548 RC3 .0938 FAU .02309
FDE -.3277 FRA .2189 FC3 -.6065 BSP 2182
BDE .5408 BRA .6726 BC3 .2288 FSP -159

MID-COURSE EXECUTION ACCURACY
SGT 798.6 SGR 432.6 SG3 69.2
RRT -.0452 RRF .0496 RTF -.6827
SGB 908.3 R23 -.0060 R13 .6830
SG1 799.0 SG2 432.0 THA 178.02

ORBIT DETERMINATION ACCURACY
ST 424.3 SR 391.3 SS 353.7
CRT -.8200 CRS -.9464 CST .9580
LSA 654.3 MSA 172.5 SSA 17.0
EL1 550.8 EL2 172.5 ALF 137.82

LAUNCH DATE JUN 23 1967 FLIGHT TIME 74.00 ARRIVAL DATE SEP 5 1967

DISTANCE 178.636

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 24.236 GAL -2.25 AZL 93.52 HCA 74.69 SMA 114.57 ECC .32918 INC 3.5188 V1 29.302
RP 108.81 LAP -3.39 LOP 345.53 VP 35.790 GAP -19.01 AZP 90.93 TAL 184.60 TAP 259.28 RCA 76.85 APO 152.28 V2 34.826
RC 43.534 GL -15.84 GP -2.57 ZAL 101.12 ZAP 5.55 ETS 152.25 ZAE 159.57 ETE 27.53 ZAC 95.43 ETC 13.81 CLP 4.92

PLANETOCENTRIC CONIC
C3 29.637 VHL 5.444 DLA -10.34 RAL 163.92 RAD 6568.2 VEL 12.289 PTH 2.21 VHP 11.578 DPA 4.54 RAP 171.54 ECC 1.4877

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 34 9	1984.29	-13.40	27.40	29.94	115.18	6 7 14	1384.3	-9.90	20.47
90.00	14 54 21	5281.27	27.08	239.01	35.75	81.40	16 22 22	4681.3	25.61	230.65
100.00	6 50 22	1738.42	-14.59	8.73	29.34	116.38	7 19 20	1138.4	-10.93	1.85
100.00	16 20 49	5002.37	28.39	218.26	35.51	80.23	17 44 11	4402.4	26.75	209.84
110.00	7 46 58	1561.20	-17.74	353.54	27.60	119.71	8 12 59	961.2	-13.65	346.81
110.00	17 40 43	4752.36	31.89	198.46	34.70	76.98	18 59 55	4152.4	29.77	189.89

DIFFERENTIAL CORRECTIONS
TDE .3769 TRA -.6274 TC3 .2635 BAU .1119
RDE -.3708 RRA -.1449 RC3 .1015 FAU .02453
FDE -.3486 FRA .2079 FC3 -.7164 BSP 2301
BDE .5288 BRA .6439 BC3 .2823 FSP -180

MID-COURSE EXECUTION ACCURACY
SGT 830.8 SGR 434.2 SG3 76.9
RRT -.0529 RRF .0584 RTF -.7012
SGB 937.4 R23 -.0074 R13 .7015
SG1 831.2 SG2 433.4 THA 177.82

ORBIT DETERMINATION ACCURACY
ST 445.0 SR 393.1 SS 373.8
CRT -.8315 CRS -.9533 CST .9574
LSA 680.1 MSA 171.2 SSA 17.7
EL1 568.6 EL2 170.9 ALF 139.25

LAUNCH DATE JUN 23 1967 FLIGHT TIME 76.00 ARRIVAL DATE SEP 7 1967

DISTANCE 185.333

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 24.533 GAL -2.35 AZL 93.47 HCA 77.86 SMA 116.02 ECC .31291 INC 3.4691 V1 29.302
RP 108.79 LAP -3.39 LOP 348.70 VP 35.999 GAP -17.89 AZP 90.73 TAL 185.18 TAP 263.03 RCA 79.72 APO 152.32 V2 34.834
RC 44.099 GL -16.65 GP -2.72 ZAL 102.32 ZAP 4.07 ETS 137.92 ZAE 157.59 ETE 24.26 ZAC 94.21 ETC 13.76 CLP 3.04

PLANETOCENTRIC CONIC
C3 26.794 VHL 5.176 DLA -10.58 RAL 162.43 RAD 6568.1 VEL 12.172 PTH 2.18 VHP 10.943 DPA 3.89 RAP 172.67 ECC 1.4410

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 30 11	1951.09	-12.43	25.45	26.85	115.65	6 2 42	1351.1	-8.87	18.57
90.00	14 46 24	5264.17	26.90	237.79	32.47	80.81	16 14 8	4664.2	25.36	229.46
100.00	6 46 16	1705.67	-13.59	6.81	26.26	116.88	7 14 41	1105.7	-9.88	359.99
100.00	16 13 0	4984.82	28.18	216.99	32.22	79.60	17 36 5	4384.8	26.46	208.62
110.00	7 42 33	1529.41	-16.66	351.71	24.53	120.29	8 8 2	929.4	-12.51	345.05
110.00	17 33 13	4733.84	31.60	197.09	31.37	76.22	18 52 7	4133.8	29.38	188.59

DIFFERENTIAL CORRECTIONS
TDE .3790 TRA -.5993 TC3 .3262 BAU .1231
RDE -.3539 RRA -.1356 RC3 .1083 FAU .02616
FDE -.3718 FRA .1938 FC3 -.8454 BSP 2425
BDE .5185 BRA .6144 BC3 .3438 FSP -204

MID-COURSE EXECUTION ACCURACY
SGT 863.4 SGR 435.1 SG3 85.7
RRT -.0623 RRF .0689 RTF -.7190
SGB 966.8 R23 -.0090 R13 .7194
SG1 864.0 SG2 434.0 THA 177.60

ORBIT DETERMINATION ACCURACY
ST 465.9 SR 394.4 SS 394.8
CRT -.8436 CRS -.9602 CST .9570
LSA 706.7 MSA 169.2 SSA 18.4
EL1 586.8 EL2 168.1 ALF 140.62

LAUNCH DATE JUN 23 1967 FLIGHT TIME 78.00 ARRIVAL DATE SEP 9 1967

HELIOCENTRIC CONIC DISTANCE 192.046

RL 152.04 LAL .00 LOL 270.87 VL 24.806 GAL -2.46 AZL 93.42 HCA 81.03 SMA 117.40 ECC .29790 INC 3.4205 V1 29.302
RP 108.76 LAP -3.38 LOP 351.88 VP 36.194 GAP -16.83 AZP 90.53 TAL 185.82 TAP 266.85 RCA 82.43 APO 152.37 V2 34.842
RC 44.820 GL -17.43 GP -2.88 ZAL 103.63 ZAP 3.09 ETS 110.85 ZAE 155.69 ETE 21.50 ZAC 93.04 ETC 13.72 CLP 1.12

PLANETOCENTRIC CONIC

C3 24.366 VHL 4.936 DLA -10.76 RAL 160.83 RAD 6568.0 VEL 12.072 PTH 2.16 VHP 10.337 DPA 3.24 RAP 173.75 ECC 1.4010

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 25 17	1921.80	-11.56	23.73	23.79	116.03	5 57 19	1321.8	-7.97	16.90
90.00	14 38 36	5246.54	26.70	236.54	29.19	80.21	16 6 3	4646.5	25.08	228.24
100.00	6 41 15	1676.71	-12.69	5.13	23.20	117.29	7 9 12	1076.7	-8.94	358.35
100.00	16 5 19	4966.87	27.95	215.71	28.93	78.96	17 28 6	4366.9	26.15	207.37
110.00	7 37 19	1501.15	-15.68	350.10	21.49	120.77	8 2 20	901.2	-11.48	343.51
110.00	17 25 45	4715.19	31.29	195.73	28.06	75.47	18 44 20	4115.2	28.97	187.29

DIFFERENTIAL CORRECTIONS
TDE .3812 TRA -.5704 TC3 .3962 BAU .1343
RDE -.3383 RRA -.1270 RC3 .1141 FAU .02801
FDE -.3970 FRA .1766 FC3 -.9954 BSP 2556
BDE .5097 BRA .5843 BC3 .4123 FSP -232

MID-COURSE EXECUTION ACCURACY
SGT 896.1 SGR 435.2 SG3 95.5
RRT -.0733 RRF .0810 RTF -.7360
SGB 996.2 R23 -.0107 R13 .7364
SG1 896.8 SG2 433.7 THA 177.34

ORBIT DETERMINATION ACCURACY
ST 486.6 SR 395.3 SS 416.2
CRT -.8558 CRS -.9666 CST .9566
LSA 733.5 MSA 166.7 SSA 19.1
EL1 605.0 EL2 164.5 ALF 141.88

LAUNCH DATE JUN 23 1967 FLIGHT TIME 80.00 ARRIVAL DATE SEP 11 1967

HELIOCENTRIC CONIC DISTANCE 198.771

RL 152.04 LAL .00 LOL 270.87 VL 25.055 GAL -2.57 AZL 93.37 HCA 84.20 SMA 118.71 ECC .28411 INC 3.3727 V1 29.302
RP 108.74 LAP -3.36 LOP 355.06 VP 36.374 GAP -15.81 AZP 90.34 TAL 186.52 TAP 270.72 RCA 84.98 APO 152.43 V2 34.851
RC 45.690 GL -18.17 GP -3.06 ZAL 105.03 ZAP 3.17 ETS 74.07 ZAE 153.94 ETE 19.14 ZAC 91.91 ETC 13.69 CLP -.85

PLANETOCENTRIC CONIC

C3 22.294 VHL 4.722 DLA -10.86 RAL 159.17 RAD 6567.9 VEL 11.986 PTH 2.14 VHP 9.757 DPA 2.59 RAP 174.78 ECC 1.3669

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 19 30	1896.59	-10.80	22.27	20.77	116.34	5 51 7	1296.6	-7.18	15.47
90.00	14 31 5	5228.39	26.49	235.25	25.94	79.60	15 58 13	4628.4	24.78	227.00
100.00	6 35 25	1651.69	-11.91	3.69	20.19	117.62	7 2 57	1051.7	-8.12	356.95
100.00	15 57 51	4948.52	27.71	214.40	25.67	78.31	17 20 20	4348.5	25.82	206.11
110.00	7 31 20	1476.57	-14.82	348.72	18.51	121.16	7 55 57	876.6	-10.58	342.17
110.00	17 18 25	4696.41	30.96	194.36	24.78	74.72	18 36 42	4096.4	28.55	185.99

DIFFERENTIAL CORRECTIONS
TDE .3835 TRA -.5404 TC3 .4747 BAU .1458
RDE -.3241 RRA -.1191 RC3 .1182 FAU .03010
FDE -.4245 FRA .1561 FC3-1.1688 BSP 2670
BDE .5022 BRA .5534 BC3 .4892 FSP -263

MID-COURSE EXECUTION ACCURACY
SGT 929.2 SGR 434.6 SG3 106.5
RRT -.0859 RRF .0951 RTF -.7534
SGB 1025.8 R23 -.0125 R13 .7539
SG1 930.2 SG2 432.5 THA 177.06

ORBIT DETERMINATION ACCURACY
ST 506.9 SR 395.8 SS 437.9
CRT -.8681 CRS -.9725 CST .9563
LSA 760.3 MSA 163.8 SSA 19.9
EL1 622.9 EL2 159.9 ALF 143.03

LAUNCH DATE JUN 23 1967 FLIGHT TIME 82.00 ARRIVAL DATE SEP 13 1967

HELIOCENTRIC CONIC DISTANCE 205.504

RL 152.04 LAL .00 LOL 270.87 VL 25.283 GAL -2.69 AZL 93.33 HCA 87.37 SMA 119.94 ECC .27149 INC 3.3255 V1 29.302
RP 108.71 LAP -3.32 LOP 358.24 VP 36.540 GAP -14.83 AZP 90.15 TAL 187.27 TAP 274.64 RCA 87.38 APO 152.50 V2 34.860
RC 46.700 GL -18.86 GP -3.26 ZAL 106.50 ZAP 4.34 ETS 48.14 ZAE 152.34 ETE 17.08 ZAC 90.84 ETC 13.67 CLP -2.86

PLANETOCENTRIC CONIC

C3 20.529 VHL 4.531 DLA -10.90 RAL 157.44 RAD 6567.8 VEL 11.913 PTH 2.12 VHP 9.205 DPA 1.94 RAP 175.76 ECC 1.3379

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 12 56	1875.54	-10.16	21.05	17.81	116.57	5 44 11	1275.5	-6.51	14.27
90.00	14 23 55	5209.72	26.25	233.94	22.75	78.98	15 50 44	4609.7	24.47	225.72
100.00	6 28 49	1630.71	-11.24	2.48	17.25	117.88	6 56 0	1030.7	-7.43	355.78
100.00	15 50 43	4929.78	27.44	213.07	22.47	77.66	17 12 52	4329.8	25.47	204.83
110.00	7 24 42	1455.73	-14.08	347.55	15.59	121.47	7 48 57	855.7	-9.81	341.05
110.00	17 11 19	4677.52	30.61	193.00	21.56	73.98	18 29 17	4077.5	28.11	184.70

DIFFERENTIAL CORRECTIONS
TDE .3850 TRA -.5111 TC3 .5539 BAU .1556
RDE -.3113 RRA -.1120 RC3 .1203 FAU .03246
FDE -.4545 FRA .1317 FC3-1.3689 BSP 2814
BDE .4951 BRA .5233 BC3 .5668 FSP -300

MID-COURSE EXECUTION ACCURACY
SGT 960.3 SGR 433.2 SG3 119.0
RRT -.1010 RRF .1115 RTF -.7665
SGB 1053.5 R23 -.0147 R13 .7671
SG1 961.6 SG2 430.4 THA 176.74

ORBIT DETERMINATION ACCURACY
ST 525.6 SR 396.1 SS 459.8
CRT -.8794 CRS -.9779 CST .9557
LSA 786.2 MSA 161.2 SSA 20.7
EL1 639.6 EL2 154.9 ALF 144.03

LAUNCH DATE JUN 23 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 15 1967

HELIOCENTRIC CONIC DISTANCE 212.240

RL 152.04 LAL .00 LOL 270.87 VL 25.491 GAL -2.81 AZL 93.28 HCA 90.55 SMA 121.09 ECC .25996 INC 3.2784 V1 29.302
RP 108.68 LAP -3.28 LOP 1.42 VP 36.693 GAP -13.90 AZP 89.97 TAL 188.07 TAP 278.61 RCA 89.61 APO 152.57 V2 34.870
RC 47.841 GL -19.50 GP -3.48 ZAL 108.03 ZAP 6.04 ETS 34.50 ZAE 150.93 ETE 15.25 ZAC 89.83 ETC 13.67 CLP -4.94

PLANETOCENTRIC CONIC

C3 19.027 VHL 4.362 DLA -10.87 RAL 155.69 RAD 6567.8 VEL 11.849 PTH 2.10 VHP 8.678 DPA 1.29 RAP 176.67 ECC 1.3131

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 5 39	1858.63	-9.65	20.08	14.94	116.75	5 36 37	1258.6	-5.98	13.32
90.00	14 17 11	5190.53	25.99	232.59	19.64	78.36	15 43 42	4590.5	24.13	224.42
100.00	6 21 33	1613.74	-10.70	1.52	14.39	118.08	6 48 27	1013.7	-6.86	354.83
100.00	15 43 58	4910.66	27.16	211.72	19.35	77.00	17 5 49	4310.7	25.10	203.53
110.00	7 17 28	1438.62	-13.47	346.60	12.76	121.72	7 41 27	838.6	-9.18	340.13
110.00	17 4 32	4658.54	30.24	191.64	18.42	73.25	18 22 11	4058.5	27.66	183.41

DIFFERENTIAL CORRECTIONS
TDE .3858 TRA -.4813 TC3 .6388 BAU .1653
RDE -.2998 RRA -.1055 RC3 .1199 FAU .03513
FDE -.4874 FRA .1032 FC3-1.5985 BSP 2927
BDE .4886 BRA .4927 BC3 .6499 FSP -340

MID-COURSE EXECUTION ACCURACY
SGT 990.8 SGR 431.2 SG3 133.1
RRT -.1181 RRF .1307 RTF -.7798
SGB 1080.6 R23 -.0177 R13 .7806
SG1 992.4 SG2 427.5 THA 176.39

ORBIT DETERMINATION ACCURACY
ST 542.5 SR 396.1 SS 482.0
CRT -.8903 CRS -.9827 CST .9550
LSA 811.2 MSA 158.5 SSA 21.4
EL1 654.9 EL2 149.4 ALF 144.88

LAUNCH DATE JUN 23 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 17 1967

DISTANCE 218.977

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 25.680 GAL -2.93 AZL 93.23 HCA 93.73 SMA 122.17 ECC .24948 INC 3.2313 V1 29.302
RP 108.64 LAP -3.22 LOP 4.60 VP 36.835 GAP -13.00 AZP 89.79 TAL 188.89 TAP 286.62 RCA 91.69 APO 152.65 V2 34.881
RC 49.103 GL -20.07 GP -3.73 ZAL 109.58 ZAP 8.01 ETS 26.98 ZAE 149.73 ETE 13.59 ZAC 88.90 ETC 13.68 CLP -7.09

PLANETOCENTRIC CONIC
C3 17.750 VHL 4.213 DLA -10.76 RAL 153.92 RAD 6567.7 VEL 11.795 PTH 2.09 VHP 8.175 DPA .64 RAP 177.51 ECC 1.2921

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 57 46	1845.76	-9.25	19.34	12.17	116.88	5 28 32	1245.8	-5.57	12.59
90.00	14 11 0	5170.87	25.72	231.22	16.63	77.72	15 37 11	4570.9	23.77	223.09
100.00	6 13 44	1600.67	-10.28	.77	11.63	118.22	6 40 25	1000.7	-6.43	354.10
100.00	15 37 43	4891.18	26.85	210.35	16.34	76.34	16 59 14	4291.2	24.71	202.21
110.00	7 9 47	1425.14	-12.99	345.86	10.03	121.90	7 33 32	825.1	-8.68	339.41
110.00	16 58 9	4639.48	29.86	190.29	15.39	72.54	18 15 28	4039.5	27.18	182.12

DIFFERENTIAL CORRECTIONS
TDE .3857 TRA -.4516 TC3 .7262 BAU .1745
RDE -.2895 RRA -.0998 RC3 .1164 FAU .03817
FDE -.5233 FRA .0697 FC3-1.8617 BSP 3040
BDE .4823 BRA .4625 BC3 .7354 FSP -387

MID-COURSE EXECUTION ACCURACY
SGT 1019.9 SGR 428.6 SG3 149.1
RRT -.1376 RRF .1529 RTF -.7919
SGB 1106.4 R23 -.0214 R13 .7928
SG1 1022.0 SG2 423.7 THA 176.00

ORBIT DETERMINATION ACCURACY
ST 557.3 SR 395.9 SS 504.2
CRT -.9004 CRS -.9868 CST .9541
LSA 834.7 MSA 156.1 SSA 22.2
EL1 668.4 EL2 143.6 ALF 145.58

LAUNCH DATE JUN 23 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 19 1967

DISTANCE 225.710

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 25.852 GAL -3.05 AZL 93.18 HCA 96.91 SMA 123.17 ECC .23999 INC 3.1838 V1 29.302
RP 108.61 LAP -3.16 LOP 7.78 VP 36.965 GAP -12.14 AZP 89.62 TAL 189.75 TAP 286.65 RCA 93.61 APO 152.73 V2 34.891
RC 50.476 GL -20.56 GP -4.01 ZAL 111.15 ZAP 10.14 ETS 22.39 ZAE 148.75 ETE 12.05 ZAC 88.05 ETC 13.70 CLP -9.32

PLANETOCENTRIC CONIC
C3 16.665 VHL 4.082 DLA -10.60 RAL 152.18 RAD 6567.7 VEL 11.749 PTH 2.07 VHP 7.696 DPA .00 RAP 178.26 ECC 1.2743

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 49 26	1836.73	-8.97	18.82	9.53	116.97	5 20 2	1236.7	-5.28	12.08
90.00	14 5 24	5150.77	25.42	229.82	13.75	77.08	15 31 14	4550.8	23.39	221.74
100.00	6 5 29	1591.33	-9.98	.24	8.99	118.32	6 32 1	991.3	-6.12	353.58
100.00	15 32 1	4871.39	26.53	208.97	13.45	75.69	16 53 12	4271.4	24.30	200.88
110.00	7 1 45	1415.13	-12.63	345.31	7.42	122.03	7 25 20	815.1	-8.31	338.88
110.00	16 52 14	4620.36	29.46	188.94	12.48	71.83	18 9 15	4020.4	26.70	180.85

DIFFERENTIAL CORRECTIONS
TDE .3846 TRA -.4222 TC3 .8130 BAU .1828
RDE -.2804 RRA -.0948 RC3 .1093 FAU .04161
FDE -.5628 FRA .0311 FC3-2.1616 BSP 3144
BDE .4759 BRA .4327 BC3 .8203 FSP -440

MID-COURSE EXECUTION ACCURACY
SGT 1046.6 SGR 425.6 SG3 167.1
RRT -.1607 RRF .1790 RTF -.8026
SGB 1129.8 R23 -.0258 R13 .8038
SG1 1049.2 SG2 419.0 THA 175.55

ORBIT DETERMINATION ACCURACY
ST 569.6 SR 395.6 SS 526.5
CRT -.9097 CRS -.9901 CST .9530
LSA 856.6 MSA 154.2 SSA 22.9
EL1 679.7 EL2 137.6 ALF 146.14

LAUNCH DATE JUN 23 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 21 1967

DISTANCE 232.437

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.007 GAL -3.16 AZL 93.14 HCA 100.09 SMA 124.10 ECC .23143 INC 3.1356 V1 29.302
RP 108.58 LAP -3.09 LOP 10.97 VP 37.085 GAP -11.32 AZP 89.45 TAL 190.61 TAP 290.70 RCA 95.38 APO 152.82 V2 34.903
RC 51.950 GL -20.98 GP -4.33 ZAL 112.71 ZAP 12.41 ETS 19.36 ZAE 148.01 ETE 10.60 ZAC 87.31 ETC 13.74 CLP -11.65

PLANETOCENTRIC CONIC
C3 15.744 VHL 3.968 DLA -10.37 RAL 150.47 RAD 6567.6 VEL 11.710 PTH 2.06 VHP 7.241 DPA -.64 RAP 178.91 ECC 1.2591

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 40 45	1831.29	-8.80	18.51	7.02	117.02	5 11 17	1231.3	-5.11	11.78
90.00	14 0 27	5130.28	25.10	228.40	11.00	76.44	15 25 57	4530.3	22.99	220.37
100.00	5 56 57	1585.47	-9.79	359.91	6.50	118.38	6 23 22	985.5	-5.92	353.26
100.00	15 26 56	4851.33	26.18	207.58	10.70	75.03	16 47 47	4251.3	23.87	199.55
110.00	6 53 30	1408.37	-12.38	344.93	4.96	122.12	7 16 59	808.4	-8.05	338.51
110.00	16 46 52	4601.20	29.05	187.60	9.71	71.14	18 3 33	4001.2	26.20	179.58

DIFFERENTIAL CORRECTIONS
TOE .3842 TRA -.3913 TC3 .9028 BAU .1911
RDE -.2723 RRA -.0907 RC3 .0979 FAU .04559
FDE -.6074 FRA -.0149 FC3-2.5069 BSP 3286
BDE .4709 BRA .4017 BC3 .9081 FSP -504

MID-COURSE EXECUTION ACCURACY
SGT 1072.9 SGR 422.4 SG3 187.9
RRT -.1898 RRF .2104 RTF -.8142
SGB 1153.0 R23 -.0295 R13 .8157
SG1 1076.4 SG2 413.4 THA 174.99

ORBIT DETERMINATION ACCURACY
ST 581.3 SR 395.3 SS 550.0
CRT -.9192 CRS -.9929 CST .9524
LSA 879.2 MSA 152.2 SSA 23.5
EL1 690.7 EL2 131.0 ALF 146.63

LAUNCH DATE JUN 23 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 23 1967

DISTANCE 239.156

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.148 GAL -3.26 AZL 93.09 HCA 103.27 SMA 124.96 ECC .22373 INC 3.0865 V1 29.302
RP 108.54 LAP -3.00 LOP 14.16 VP 37.194 GAP -10.52 AZP 89.29 TAL 191.48 TAP 294.75 RCA 97.00 APO 152.92 V2 34.914
RC 53.515 GL -21.31 GP -4.68 ZAL 114.24 ZAP 14.82 ETS 17.23 ZAE 147.51 ETE 9.20 ZAC 86.67 ETC 13.78 CLP -14.08

PLANETOCENTRIC CONIC
C3 14.960 VHL 3.868 DLA -10.08 RAL 148.82 RAD 6567.6 VEL 11.677 PTH 2.05 VHP 6.808 DPA -1.27 RAP 179.44 ECC 1.2462

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 31 54	1829.11	-8.74	18.39	4.67	117.04	5 2 23	1229.1	-5.04	11.66
90.00	13 56 11	5109.50	24.76	226.98	8.42	75.80	15 21 20	4509.5	22.57	218.99
100.00	5 48 15	1582.78	-9.70	359.76	4.15	118.41	6 14 38	982.8	-5.83	353.11
100.00	15 22 31	4831.06	25.82	206.19	8.11	74.38	16 43 2	4231.1	23.42	198.20
110.00	6 45 10	1404.57	-12.25	344.73	2.64	122.17	7 8 34	804.6	-7.91	338.31
110.00	16 42 5	4582.04	28.62	186.28	7.11	70.46	17 58 27	3982.0	25.69	178.33

DIFFERENTIAL CORRECTIONS
TOE .3804 TRA -.3632 TC3 .9836 BAU .1974
RDE -.2653 RRA -.0874 RC3 .0820 FAU .05007
FDE -.6555 FRA -.0667 FC3-2.8973 BSP 3369
BDE .4637 BRA .3736 BC3 .9870 FSP -575

MID-COURSE EXECUTION ACCURACY
SGT 1093.2 SGR 419.2 SG3 211.2
RRT -.2210 RRF .2465 RTF -.8223
SGB 1170.8 R23 -.0364 R13 .8242
SG1 1097.7 SG2 407.1 THA 174.38

ORBIT DETERMINATION ACCURACY
ST 587.3 SR 394.9 SS 572.8
CRT -.9266 CRS -.9949 CST .9508
LSA 897.4 MSA 151.7 SSA 24.0
EL1 696.5 EL2 125.2 ALF 146.87

LAUNCH DATE JUN 23 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 25 1967

HELIOCENTRIC CONIC DISTANCE 245.863

```
RL  152.04 LAL    .00 LOL 270.87 VL  26.275 GAL  -3.36 AZL  93.04 HCA 106.46 SMA 125.75 ECC .21684 INC 3.0359 VI  29.302
RP  108.50 LAP  -2.91 LOP  17.34 VP  37.295 GAP  -9.76 AZP  89.14 TAL 192.34 TAP 298.79 RCA  98.48 APO 153.01 V2  34.926
RC  55.163 GL  -21.56 GP   -5.09 ZAL 115.73 ZAP  17.37 ETS  15.69 ZAE 147.27 ETE   7.82 ZAC  86.17 ETC  13.83 CLP -16.64
```

PLANETOCENTRIC CONIC

```
C3  14.294 VHL  3.781 DLA  -9.75 RAL 147.26 RAD 6567.6 VEL 11.648 PTH   2.04 VHP  6.399 DPA  -1.89 RAP 179.85 ECC 1.2352
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 22 59	1829.86	-8.76	18.43	2.48	117.04	4 53 29	1229.9	-5.07	11.70
90.00	13 52 37	5088.48	24.40	225.54	6.01	75.17	15 17 26	4488.5	22.13	217.61
100.00	5 39 31	1582.93	-9.71	359.77	1.97	118.41	6 5 54	982.9	-5.84	353.12
100.00	15 18 46	4810.64	25.43	204.79	5.69	73.74	16 38 57	4210.6	22.96	196.86
110.00	6 36 51	1403.43	-12.20	344.66	.49	122.18	7 0 14	803.4	-7.87	338.25
110.00	16 37 56	4562.90	28.18	184.97	4.68	69.80	17 53 59	3962.9	25.17	177.09

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .3747 TRA -.3368 TC3 1.0556 BAU  .2021   SGT 1108.0 SGR  416.3 SG3  237.5      ST   589.1 SR   394.5 SS   595.1
RDE -.2590 RRA -.0849 RC3  .0609 FAU .05511   RRT -.2569 RRF  .2882 RTF -.8286     CRT -.9327 CRS -.9962 CST  .9487
FDE -.7076 FRA -.1250 FC3-3.3376 BSP  3432    SGB 1183.6 R23 -.0449 R13  .8311     LSA  912.8 MSA  151.9 SSA   24.4
BDE  .4555 BRA  .3473 BC3 1.0574 FSP  -655    SG1 1113.9 SG2  400.2 THA 173.67     EL1  698.8 EL2  120.0 ALF 146.91
```

LAUNCH DATE JUN 23 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 27 1967

HELIOCENTRIC CONIC DISTANCE 252.557

```
RL  152.04 LAL    .00 LOL 270.87 VL  26.388 GAL  -3.46 AZL  92.98 HCA 109.64 SMA 126.46 ECC .21070 INC 2.9837 VI  29.302
RP  108.46 LAP  -2.81 LOP  20.53 VP  37.386 GAP  -9.03 AZP  89.00 TAL 193.17 TAP 302.82 RCA  99.82 APO 153.11 V2  34.938
RC  56.885 GL  -21.72 GP   -5.54 ZAL 117.15 ZAP  20.08 ETS  14.52 ZAE 147.30 ETE   6.42 ZAC  85.81 ETC  13.89 CLP -19.33
```

PLANETOCENTRIC CONIC

```
C3  13.724 VHL  3.705 DLA  -9.38 RAL 145.80 RAD 6567.5 VEL 11.624 PTH   2.04 VHP  6.011 DPA  -2.51 RAP 180.11 ECC 1.2259
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 14 7	1833.19	-8.86	18.62	.46	117.00	4 44 40	1233.2	-5.17	11.88
90.00	13 49 48	5067.26	24.02	224.10	3.77	74.54	15 14 15	4467.3	21.67	216.22
100.00	5 30 52	1585.59	-9.80	359.92	359.97	118.38	5 57 18	985.6	-5.93	353.26
100.00	15 15 44	4790.09	25.04	203.39	3.45	73.11	16 35 34	4190.1	22.48	195.52
110.00	6 28 39	1404.64	-12.25	344.73	358.51	122.17	6 52 4	804.6	-7.91	338.32
110.00	16 34 26	4543.81	27.72	183.67	2.42	69.15	17 50 10	3943.8	24.63	175.86

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .3671 TRA -.3120 TC3 1.1188 BAU  .2054   SGT 1117.4 SGR  414.2 SG3  267.4      ST   587.0 SR   394.2 SS   617.4
RDE -.2536 RRA -.0833 RC3  .0340 FAU .06085   RRT -.2981 RRF  .3365 RTF -.8335     CRT -.9376 CRS -.9970 CST  .9462
FDE -.7644 FRA -.1911 FC3-3.8386 BSP  3478    SGB 1191.7 R23 -.0554 R13  .8368     LSA  925.8 MSA  152.9 SSA   24.6
BDE  .4462 BRA  .3229 BC3 1.1193 FSP  -746    SG1 1125.2 SG2  392.7 THA 172.81     EL1  697.6 EL2  115.3 ALF 146.77
```

LAUNCH DATE JUN 23 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 29 1967

HELIOCENTRIC CONIC DISTANCE 259.236

```
RL  152.04 LAL    .00 LOL 270.87 VL  26.490 GAL  -3.54 AZL  92.93 HCA 112.83 SMA 127.11 ECC .20525 INC 2.9293 VI  29.302
RP  108.43 LAP  -2.70 LOP  23.73 VP  37.470 GAP  -8.33 AZP  88.86 TAL 193.97 TAP 306.81 RCA 101.02 APO 153.20 V2  34.951
RC  58.673 GL  -21.80 GP   -6.05 ZAL 118.50 ZAP  22.95 ETS  13.62 ZAE 147.60 ETE   4.94 ZAC  85.61 ETC  13.95 CLP -22.18
```

PLANETOCENTRIC CONIC

```
C3  13.235 VHL  3.638 DLA  -8.96 RAL 144.45 RAD 6567.5 VEL 11.603 PTH   2.03 VHP  5.646 DPA  -3.11 RAP 180.20 ECC 1.2178
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 5 26	1838.75	-9.03	18.94	358.62	116.95	4 36 4	1238.8	-5.35	12.20
90.00	13 47 43	5045.90	23.63	222.66	1.71	73.92	15 11 49	4445.9	21.20	214.83
100.00	5 22 24	1590.43	-9.95	.19	358.14	118.33	5 48 54	990.4	-6.09	353.53
100.00	15 13 25	4769.45	24.62	202.00	1.39	72.49	16 32 55	4169.4	21.99	194.19
110.00	6 20 41	1407.91	-12.37	344.91	356.70	122.12	6 44 9	807.9	-8.04	338.49
110.00	16 31 37	4524.74	27.25	182.38	.35	68.52	17 47 2	3924.7	24.09	174.64

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .3578 TRA -.2890 TC3 1.1696 BAU  .2069   SGT 1119.8 SGR  413.8 SG3  301.2      ST   580.7 SR   394.2 SS   640.1
RDE -.2491 RRA -.0827 RC3  .0003 FAU .06736   RRT -.3453 RRF  .3924 RTF -.8366     CRT -.9415 CRS -.9973 CST  .9432
FDE -.8270 FRA -.2664 FC3-4.4064 BSP  3505    SGB 1193.9 R23 -.0689 R13  .8411     LSA  936.9 MSA  154.7 SSA   24.6
BDE  .4359 BRA  .3006 BC3 1.1696 FSP  -851    SG1 1130.1 SG2  384.8 THA 171.77     EL1  693.0 EL2  111.4 ALF 146.43
```

LAUNCH DATE JUN 23 1967 FLIGHT TIME 100.00 ARRIVAL DATE OCT 1 1967

HELIOCENTRIC CONIC DISTANCE 265.898

```
RL  152.04 LAL    .00 LOL 270.87 VL  26.580 GAL  -3.62 AZL  92.87 HCA 116.03 SMA 127.70 ECC .20043 INC 2.8723 VI  29.302
RP  108.39 LAP  -2.58 LOP  26.92 VP  37.545 GAP  -7.65 AZP  88.74 TAL 194.73 TAP 310.76 RCA 102.10 APO 153.29 V2  34.964
RC  60.521 GL  -21.80 GP   -6.64 ZAL 119.76 ZAP  26.01 ETS  12.90 ZAE 148.18 ETE   3.35 ZAC  85.60 ETC  14.00 CLP -25.21
```

PLANETOCENTRIC CONIC

```
C3  12.811 VHL  3.579 DLA  -8.51 RAL 143.22 RAD 6567.5 VEL 11.584 PTH   2.03 VHP  5.303 DPA  -3.71 RAP 180.11 ECC 1.2108
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 56 58	1846.26	-9.27	19.37	356.97	116.88	4 27 45	1246.3	-5.59	12.62
90.00	13 46 22	5024.37	23.22	221.22	359.85	73.32	15 10 6	4424.4	20.71	213.44
100.00	5 14 11	1597.16	-10.17	.57	356.49	118.26	5 40 48	997.2	-6.31	353.91
100.00	15 11 50	4748.70	24.19	200.61	359.51	71.88	16 30 59	4148.7	21.48	192.86
110.00	6 13 1	1412.96	-12.55	345.19	355.08	122.06	6 36 34	813.0	-8.22	338.76
110.00	16 29 30	4505.67	26.77	181.11	358.46	67.91	17 44 36	3905.7	23.54	173.44

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .3477 TRA -.2671 TC3 1.2103 BAU  .2074   SGT 1116.8 SGR  416.2 SG3  340.0      ST   572.1 SR   394.8 SS   664.3
RDE -.2453 RRA -.0832 RC3 -.0412 FAU .07482   RRT -.3999 RRF  .4563 RTF -.8392     CRT -.9447 CRS -.9972 CST  .9400
FDE -.8969 FRA -.3525 FC3-5.0564 BSP  3546    SGB 1191.9 R23 -.0846 R13  .8452     LSA  948.2 MSA  156.9 SSA   24.5
BDE  .4255 BRA  .2798 BC3 1.2110 FSP  -975    SG1 1130.7 SG2  376.8 THA 170.45     EL1  686.6 EL2  107.9 ALF 145.94
```

LAUNCH DATE JUN 23 1967 FLIGHT TIME 102.00 ARRIVAL DATE OCT 3 1967

DISTANCE 272.541

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.660 GAL -3.68 AZL 92.81 HCA 119.22 SMA 128.22 ECC .19620 INC 2.8120 V1 29.302
RP 108.35 LAP -2.45 LOP 30.12 VP 37.614 GAP -6.99 AZP 88.63 TAL 195.44 TAP 314.66 RCA 103.07 APO 153.38 V2 34.977
RC 62.420 GL -21.72 GP -7.30 ZAL 120.93 ZAP 29.28 ETS 12.32 ZAE 149.05 ETE 1.57 ZAC 85.80 ETC 14.05 CLP -28.43

PLANETOCENTRIC CONIC
C3 12.441 VHL 3.527 DLA -8.03 RAL 142.12 RAD 6567.5 VEL 11.568 PTH 2.02 VHP 4.982 DPA -4.31 RAP 179.81 ECC 1.2047

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 48 50	1855.43	-9.55	19.89	355.49	116.79	4 19 46	1255.4	-5.88	13.14
90.00	13 45 46	5002.66	22.78	219.77	358.16	72.72	15 9 9	4402.7	20.20	212.05
100.00	5 6 18	1605.51	-10.44	1.05	355.02	118.17	5 33 4	1005.5	-6.59	354.37
100.00	15 10 59	4727.80	23.74	199.22	357.82	71.28	16 29 47	4127.8	20.96	191.52
110.00	6 5 42	1419.54	-12.79	345.55	353.63	121.97	6 29 22	819.5	-8.47	339.11
110.00	16 28 5	4486.55	26.28	179.84	356.76	67.31	17 42 51	3886.5	22.97	172.24

DIFFERENTIAL CORRECTIONS
TOE .3332 TRA -.2503 TC3 1.2261 BAU .2045
ROE -.2422 RRA -.0847 RC3 -.0911 FAU .08305
FDE -.9694 FRA -.4452 FC3-5.7793 BSP 3508
BOE .4120 BRA .2642 BC3 1.2295 FSP -1109

MID-COURSE EXECUTION ACCURACY
SGT 1099.9 SGR 422.2 SG3 382.8
RRT -.4555 RRF .5255 RTF -.8369
SGB 1178.1 R23 -.1074 R13 .8457
SG1 1118.7 SG2 369.5 THA 168.85

ORBIT DETERMINATION ACCURACY
ST 555.8 SR 395.6 SS 686.4
CRT -.9454 CRS -.9969 CST .9350
LSA 954.1 MSA 160.1 SSA 24.3
EL1 673.9 EL2 106.3 ALF 145.06

LAUNCH DATE JUN 23 1967 FLIGHT TIME 104.00 ARRIVAL DATE OCT 5 1967

DISTANCE 279.165

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.730 GAL -3.74 AZL 92.75 HCA 122.42 SMA 128.69 ECC .19249 INC 2.7477 V1 29.302
RP 108.31 LAP -2.32 LOP 33.31 VP 37.676 GAP -6.36 AZP 88.53 TAL 196.08 TAP 318.50 RCA 103.92 APO 153.46 V2 34.990
RC 64.367 GL -21.56 GP -8.06 ZAL 122.00 ZAP 32.77 ETS 11.82 ZAE 150.21 ETE 359.51 ZAC 86.23 ETC 14.07 CLP -31.87

PLANETOCENTRIC CONIC
C3 12.113 VHL 3.480 DLA -7.52 RAL 141.17 RAD 6567.5 VEL 11.554 PTH 2.02 VHP 4.685 DPA -4.90 RAP 179.28 ECC 1.1993

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 41 3	1866.07	-9.87	20.51	354.20	116.67	4 12 10	1266.1	-6.21	13.74
90.00	13 45 56	4980.67	22.33	218.32	356.66	72.12	15 8 57	4380.7	19.68	210.65
100.00	4 58 47	1615.32	-10.75	1.61	353.74	118.06	5 25 43	1015.3	-6.92	354.92
100.00	15 10 53	4706.66	23.27	197.82	356.31	70.69	16 29 20	4106.7	20.42	190.19
110.00	5 58 47	1427.47	-13.07	345.98	352.37	121.87	6 22 34	827.5	-8.77	339.53
110.00	16 27 23	4467.27	25.76	178.58	355.25	66.72	17 41 50	3867.3	22.39	171.05

DIFFERENTIAL CORRECTIONS
TOE .3160 TRA -.2377 TC3 1.2198 BAU .1990
ROE -.2398 RRA -.0873 RC3 -.1510 FAU .09221
FDE-1.0458 FRA -.5448 FC3-6.5904 BSP 3435
BOE .3966 BRA .2532 BC3 1.2291 FSP -1259

MID-COURSE EXECUTION ACCURACY
SGT 1071.1 SGR 433.4 SG3 430.5
RRT -.5112 RRF .5986 RTF -.8307
SGB 1155.5 R23 -.1375 R13 .8439
SG1 1096.7 SG2 363.8 THA 166.84

ORBIT DETERMINATION ACCURACY
ST 534.1 SR 397.2 SS 707.6
CRT -.9442 CRS -.9964 CST .9284
LSA 957.2 MSA 163.9 SSA 23.9
EL1 657.0 EL2 106.4 ALF 143.83

LAUNCH DATE JUN 23 1967 FLIGHT TIME 106.00 ARRIVAL DATE OCT 7 1967

DISTANCE 285.769

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.791 GAL -3.79 AZL 92.68 HCA 125.62 SMA 129.10 ECC .18927 INC 2.6788 V1 29.302
RP 108.27 LAP -2.18 LOP 36.51 VP 37.731 GAP -5.75 AZP 88.44 TAL 196.65 TAP 322.27 RCA 104.66 APO 153.53 V2 35.003
RC 66.356 GL -21.31 GP -8.92 ZAL 122.97 ZAP 36.50 ETS 11.39 ZAE 151.66 ETE 357.04 ZAC 86.90 ETC 14.07 CLP -35.54

PLANETOCENTRIC CONIC
C3 11.816 VHL 3.437 DLA -6.98 RAL 140.36 RAD 6567.5 VEL 11.541 PTH 2.01 VHP 4.410 DPA -5.49 RAP 178.50 ECC 1.1945

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 33 39	1878.06	-10.24	21.20	353.08	116.55	4 4 57	1278.1	-6.59	14.41
90.00	13 46 53	4958.26	21.86	216.85	355.33	71.53	15 9 31	4358.3	19.13	209.23
100.00	4 51 39	1626.42	-11.11	2.24	352.63	117.93	5 18 45	1026.4	-7.28	355.54
100.00	15 11 34	4685.14	22.78	196.41	354.98	70.10	16 29 39	4085.1	19.86	188.83
110.00	5 52 16	1436.62	-13.40	346.49	351.28	121.75	6 16 13	836.6	-9.11	340.02
110.00	16 27 26	4447.69	25.23	177.31	353.90	66.13	17 41 34	3847.7	21.79	169.85

DIFFERENTIAL CORRECTIONS
TOE .2956 TRA -.2291 TC3 1.1887 BAU .1911
ROE -.2380 RRA -.0911 RC3 -.2227 FAU .10231
FDE-1.1242 FRA -.6523 FC3-7.4958 BSP 3324
BOE .3796 BRA .2465 BC3 1.2094 FSP -1427

MID-COURSE EXECUTION ACCURACY
SGT 1028.9 SGR 452.0 SG3 483.1
RRT -.5629 RRF .6726 RTF -.8192
SGB 1123.8 R23 -.1767 R13 .8399
SG1 1064.2 SG2 361.2 THA 164.25

ORBIT DETERMINATION ACCURACY
ST 506.7 SR 399.5 SS 727.3
CRT -.9404 CRS -.9959 CST .9194
LSA 957.3 MSA 168.1 SSA 23.5
EL1 636.1 EL2 108.2 ALF 142.16

LAUNCH DATE JUN 23 1967 FLIGHT TIME 108.00 ARRIVAL DATE OCT 9 1967

DISTANCE 292.352

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.843 GAL -3.83 AZL 92.60 HCA 128.82 SMA 129.45 ECC .18648 INC 2.6039 V1 29.302
RP 108.22 LAP -2.03 LOP 39.71 VP 37.781 GAP -5.17 AZP 88.37 TAL 197.15 TAP 325.97 RCA 105.31 APO 153.59 V2 35.016
RC 68.382 GL -20.99 GP -9.90 ZAL 123.83 ZAP 40.49 ETS 10.97 ZAE 153.38 ETE 353.98 ZAC 87.84 ETC 14.03 CLP -39.47

PLANETOCENTRIC CONIC
C3 11.544 VHL 3.398 DLA -6.41 RAL 139.69 RAD 6567.4 VEL 11.530 PTH 2.01 VHP 4.160 DPA -6.08 RAP 177.44 ECC 1.1900

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 26 35	1891.37	-10.64	21.97	352.14	116.40	3 58 7	1291.4	-7.01	15.17
90.00	13 48 39	4935.19	21.35	215.35	354.17	70.95	15 10 54	4335.2	18.55	207.79
100.00	4 44 53	1638.80	-11.50	2.95	351.69	117.78	5 12 12	1038.8	-7.69	356.23
100.00	15 13 2	4663.00	22.26	194.98	353.82	69.51	16 30 45	4063.0	19.27	187.46
110.00	5 46 9	1446.96	-13.77	347.06	350.36	121.60	6 10 16	847.0	-9.49	340.58
110.00	16 28 15	4427.60	24.67	176.02	352.73	65.55	17 42 3	3827.6	21.16	168.63

DIFFERENTIAL CORRECTIONS
TOE .2738 TRA -.2237 TC3 1.1334 BAU .1813
RDE -.2372 RRA -.0964 RC3 -.3087 FAU .11341
FDE-1.2063 FRA -.7686 FC3-8.5052 BSP 3213
BOE .3623 BRA .2436 BC3 1.1746 FSP -1619

MID-COURSE EXECUTION ACCURACY
SGT 974.9 SGR 480.4 SG3 541.2
RRT -.6066 RRF .7441 RTF -.8015
SGB 1086.9 R23 -.2240 R13 .8352
SG1 1024.3 SG2 363.5 THA 160.85

ORBIT DETERMINATION ACCURACY
ST 476.1 SR 403.1 SS 747.2
CRT -.9340 CRS -.9954 CST .9080
LSA 957.7 MSA 172.4 SSA 23.0
EL1 613.7 EL2 111.7 ALF 140.08

LAUNCH DATE JUN 23 1967 FLIGHT TIME 110.00 ARRIVAL DATE OCT 11 1967

HELIOCENTRIC CONIC DISTANCE 298.913

RL 152.04 LAL .00 LOL 270.87 VL 26.888 GAL -3.86 AZL 92.52 HCA 132.02 SMA 129.76 ECC .18408 INC 2.5220 V1 29.302
RP 108.18 LAP -1.87 LOP 42.92 VP 37.825 GAP -4.60 AZP 88.31 TAL 197.57 TAP 329.59 RCA 105.87 APO 153.64 V2 35.029
RC 70.443 GL -20.57 GP -11.01 ZAL 124.60 ZAP 44.76 ETS 10.55 ZAE 155.34 ETE 350.04 ZAC 89.07 ETC 13.93 CLP -43.67

PLANETOCENTRIC CONIC

C3 11.288 VHL 3.360 DLA -5.80 RAL 139.18 RAD 6567.4 VEL 11.518 PTH 2.01 VHP 3.935 DPA -6.69 RAP 176.08 ECC 1.1858

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 19 52	1906.06	-11.09	22.82	351.37	116.22	3 51 38	1306.1	-7.47	16.00
90.00	13 51 17	4911.19	20.81	213.79	353.18	70.35	15 13 8	4311.2	17.94	206.29
100.00	4 38 28	1652.50	-11.93	3.73	350.93	117.61	5 6 1	1052.5	-8.14	357.00
100.00	15 15 22	4639.97	21.70	193.49	352.82	68.92	16 32 42	4040.0	18.64	186.03
110.00	5 40 26	1458.51	-14.18	347.71	349.62	121.43	6 4 44	858.5	-9.92	341.20
110.00	16 29 54	4406.73	24.08	174.69	351.73	64.97	17 43 20	3806.7	20.50	167.37

DIFFERENTIAL CORRECTIONS
TDE .2468 TRA -.2258 TC3 1.0385 BAU .1685
RDE -.2367 RRA -.1028 RC3 -.4100 FAU .12503
FDE-1.2794 FRA -.8811 FC3-9.5892 BSP 3020
BDE .3420 BRA .2480 BC3 1.1165 FSP -1815

MID-COURSE EXECUTION ACCURACY
SGT 902.1 SGR 519.5 SG3 602.1
RRT -.6273 RRF .8071 RTF -.7683
SGB 1041.0 R23 -.2834 R13 .8272
SG1 970.7 SG2 376.0 THA 156.39

ORBIT DETERMINATION ACCURACY
ST 437.1 SR 407.2 SS 760.5
CRT -.9211 CRS -.9950 CST .8896
LSA 950.5 MSA 177.1 SSA 22.4
EL1 585.6 EL2 118.4 ALF 137.20

LAUNCH DATE JUN 23 1967 FLIGHT TIME 112.00 ARRIVAL DATE OCT 13 1967

HELIOCENTRIC CONIC DISTANCE 305.452

RL 152.04 LAL .00 LOL 270.87 VL 26.926 GAL -3.87 AZL 92.43 HCA 135.23 SMA 130.01 ECC .18204 INC 2.4313 V1 29.302
RP 108.14 LAP -1.71 LOP 46.12 VP 37.898 GAP -4.05 AZP 88.27 TAL 197.91 TAP 333.13 RCA 106.35 APO 153.68 V2 35.042
RC 72.534 GL -20.06 GP -12.27 ZAL 125.26 ZAP 49.30 ETS 10.09 ZAE 157.46 ETE 344.84 ZAC 90.59 ETC 13.75 CLP -48.14

PLANETOCENTRIC CONIC

C3 11.041 VHL 3.323 DLA -5.13 RAL 138.83 RAD 6567.4 VEL 11.508 PTH 2.00 VHP 3.736 DPA -7.33 RAP 174.42 ECC 1.1817

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 13 25	1922.32	-11.57	23.76	350.76	116.02	3 45 28	1322.3	-7.98	16.93
90.00	13 54 53	4885.81	20.22	212.16	352.35	69.74	15 16 18	4285.8	17.28	204.72
100.00	4 32 21	1667.73	-12.41	4.61	350.33	117.41	5 0 8	1067.7	-8.64	357.85
100.00	15 18 38	4615.64	21.10	191.94	351.99	68.32	16 35 34	4015.6	17.97	184.54
110.00	5 35 3	1471.43	-14.64	348.43	349.04	121.24	5 59 34	871.4	-10.39	341.90
110.00	16 32 26	4384.70	23.43	173.30	350.88	64.37	17 45 30	3784.7	19.79	166.05

DIFFERENTIAL CORRECTIONS
TDE .2171 TRA -.2332 TC3 .9069 BAU .1551
RDE -.2367 RRA -.1103 RC3 -.5300 FAU .13708
FDE-1.3437 FRA -.9896 FC-10.7483 BSP 2816
BDE .3212 BRA .2579 BC3 1.0505 FSP -2022

MID-COURSE EXECUTION ACCURACY
SGT 816.3 SGR 572.0 SG3 665.5
RRT -.6170 RRF .8600 RTF -.7127
SGB 996.7 R23 -.3432 R13 .8218
SG1 911.6 SG2 403.1 THA 150.24

ORBIT DETERMINATION ACCURACY
ST 393.8 SR 412.3 SS 769.2
CRT -.8994 CRS -.9948 CST .8619
LSA 939.8 MSA 181.9 SSA 21.9
EL1 555.7 EL2 127.7 ALF 133.54

LAUNCH DATE JUN 23 1967 FLIGHT TIME 114.00 ARRIVAL DATE OCT 15 1967

HELIOCENTRIC CONIC DISTANCE 311.968

RL 152.04 LAL .00 LOL 270.87 VL 26.957 GAL -3.88 AZL 92.33 HCA 138.44 SMA 130.23 ECC .18032 INC 2.3297 V1 29.302
RP 108.10 LAP -1.55 LOP 49.33 VP 37.898 GAP -3.52 AZP 88.26 TAL 198.16 TAP 336.60 RCA 106.74 APO 153.71 V2 35.056
RC 74.652 GL -19.43 GP -13.70 ZAL 125.82 ZAP 54.12 ETS 9.56 ZAE 159.62 ETE 337.80 ZAC 92.40 ETC 13.46 CLP -52.89

PLANETOCENTRIC CONIC

C3 10.798 VHL 3.286 DLA -4.41 RAL 138.63 RAD 6567.4 VEL 11.497 PTH 2.00 VHP 3.565 DPA -8.01 RAP 172.44 ECC 1.1777

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 7 9	1940.54	-12.12	24.83	350.33	115.79	3 39 29	1340.5	-8.55	17.97
90.00	13 59 34	4858.48	19.57	210.43	351.67	69.11	15 20 32	4258.5	16.55	203.05
100.00	4 26 25	1684.82	-12.95	5.60	349.90	117.18	4 54 30	1084.8	-9.20	358.81
100.00	15 22 58	4589.44	20.43	190.28	351.31	67.69	16 39 28	3989.4	17.23	182.95
110.00	5 29 55	1486.02	-15.15	349.25	348.64	121.01	5 54 41	886.0	-10.93	342.69
110.00	16 35 58	4361.00	22.73	171.82	350.19	63.75	17 48 39	3761.0	19.02	164.65

DIFFERENTIAL CORRECTIONS
TDE .1860 TRA -.2447 TC3 .7382 BAU .1442
RDE -.2373 RRA -.1192 RC3 -.6727 FAU .14930
FDE-1.3961 FRA-1.0932 FC-11.9704 BSP 2656
BDE .3015 BRA .2722 BC3 .9987 FSP -2242

MID-COURSE EXECUTION ACCURACY
SGT 723.7 SGR 640.3 SG3 730.4
RRT -.5600 RRF .9021 RTF -.6192
SGB 966.3 R23 -.3770 R13 .8310
SG1 855.8 SG2 448.6 THA 141.18

ORBIT DETERMINATION ACCURACY
ST 349.1 SR 418.6 SS 773.7
CRT -.8645 CRS -.9948 CST .8202
LSA 927.6 MSA 186.6 SSA 21.3
EL1 526.9 EL2 139.4 ALF 129.04

LAUNCH DATE JUN 23 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 17 1967

HELIOCENTRIC CONIC DISTANCE 318.463

RL 152.04 LAL .00 LOL 270.87 VL 26.981 GAL -3.88 AZL 92.21 HCA 141.65 SMA 130.40 ECC .17888 INC 2.2142 V1 29.302
RP 108.06 LAP -1.37 LOP 52.53 VP 37.928 GAP -3.00 AZP 88.26 TAL 198.33 TAP 339.97 RCA 107.07 APO 153.72 V2 35.069
RC 76.795 GL -18.67 GP -15.31 ZAL 126.30 ZAP 59.18 ETS 8.91 ZAE 161.59 ETE 328.22 ZAC 94.48 ETC 13.04 CLP -57.91

PLANETOCENTRIC CONIC

C3 10.554 VHL 3.249 DLA -3.59 RAL 138.59 RAD 6567.4 VEL 11.487 PTH 2.00 VHP 3.422 DPA -8.77 RAP 170.16 ECC 1.1737

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 0 54	1961.28	-12.73	26.04	350.07	115.51	3 33 35	1361.3	-9.19	19.15
90.00	14 5 31	4828.43	18.82	208.53	351.14	68.45	15 26 0	4228.4	15.73	201.22
100.00	4 20 34	1704.31	-13.55	6.73	349.65	116.90	4 48 58	1104.3	-9.83	359.91
100.00	15 28 33	4560.64	19.67	188.47	350.78	67.03	16 44 33	3960.6	16.39	181.21
110.00	5 24 57	1502.73	-15.74	350.19	348.41	120.74	5 50 0	902.7	-11.54	343.60
110.00	16 40 39	4334.97	21.94	170.21	349.65	63.10	17 52 54	3735.0	18.15	163.13

DIFFERENTIAL CORRECTIONS
TDE .1514 TRA -.2631 TC3 .5188 BAU .1391
RDE -.2369 RRA -.1282 RC3 -.8382 FAU .16062
FDE-1.4151 FRA-1.1697 FC-13.1757 BSP 2535
BDE .2812 BRA .2927 BC3 .9858 FSP -2440

MID-COURSE EXECUTION ACCURACY
SGT 633.3 SGR 722.9 SG3 790.9
RRT -.4146 RRF .9330 RTF -.4469
SGB 961.1 R23 -.3299 R13 .8752
SG1 813.1 SG2 512.4 THA 126.13

ORBIT DETERMINATION ACCURACY
ST 301.4 SR 423.7 SS 764.2
CRT -.8007 CRS -.9948 CST .7477
LSA 904.0 MSA 191.5 SSA 20.7
EL1 496.6 EL2 154.0 ALF 123.28

LAUNCH DATE JUN 23 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 19 1967

DISTANCE 324.934

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 27.000 GAL -3.86 AZL 92.08 HCA 144.86 SMA 130.53 ECC .17771 INC 2.0810 V1 29.302
RP 108.02 LAP -1.20 LOP 55.74 VP 37.953 GAP -2.50 AZP 88.30 TAL 198.41 TAP 343.27 RCA 107.33 APO 153.72 V2 35.082
RC 78.958 GL -17.74 GP -17.13 ZAL 126.68 ZAP 64.45 ETS 8.10 ZAE 163.00 ETE 315.54 ZAC 96.81 ETC 12.46 CLP -63.17

PLANETOCENTRIC CONIC
C3 10.303 VHL 3.210 DLA -2.66 RAL 138.73 RAD 6567.4 VEL 11.476 PTH 1.99 VHP 3.311 DPA -9.64 RAP 167.59 ECC 1.1696

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 54 29	1985.47	-13.43	27.47	349.99	115.16	3 27 35	1385.5	-9.93	20.54
90.00	14 13 2	4794.54	17.96	206.42	350.77	67.74	15 32 56	4194.5	14.79	199.18
100.00	4 14 35	1727.08	-14.25	8.06	349.58	116.56	4 43 22	1127.1	-10.57	1.21
100.00	15 35 37	4528.17	18.80	186.46	350.40	66.32	16 51 5	3928.2	15.44	179.28
110.00	5 19 59	1522.35	-16.42	351.30	348.36	120.41	5 45 22	922.4	-12.25	344.67
110.00	16 46 42	4305.66	21.02	168.43	349.26	62.40	17 58 28	3705.7	17.16	161.43

DIFFERENTIAL CORRECTIONS
TDE .1171 TRA -.2848 TC3 .2548 BAU .1465
RDE -.2359 RRA -.1379 RC3-1.0327 FAU .17078
FDE-1.4030 FRA-1.2239 FC-14.3496 BSP 2599
BDE .2634 BRA .3164 BC3 1.0637 FSP -2635

MID-COURSE EXECUTION ACCURACY
SGT 574.0 SGR 823.1 SG3 846.2
RRT -.1505 RRF .9553 RTF -.1632
SGB 1003.5 R23 -.1062 R13 .9495
SG1 831.6 SG2 561.7 THA 101.11

ORBIT DETERMINATION ACCURACY
ST 258.9 SR 428.0 SS 744.8
CRT -.6935 CRS -.9948 CST .6301
LSA 875.2 MSA 196.3 SSA 20.2
EL1 470.5 EL2 169.7 ALF 116.47

LAUNCH DATE JUN 23 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 21 1967

DISTANCE 331.383

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 27.014 GAL -3.84 AZL 91.92 HCA 148.08 SMA 130.62 ECC .17676 INC 1.9246 V1 29.302
RP 107.98 LAP -1.02 LOP 58.96 VP 37.974 GAP -2.02 AZP 88.37 TAL 198.40 TAP 346.48 RCA 107.53 APO 153.71 V2 35.094
RC 81.139 GL -16.60 GP -19.20 ZAL 126.98 ZAP 69.87 ETS 7.09 ZAE 163.41 ETE 300.21 ZAC 99.33 ETC 11.68 CLP -68.62

PLANETOCENTRIC CONIC
C3 10.043 VHL 3.169 DLA -1.56 RAL 139.05 RAD 6567.4 VEL 11.464 PTH 1.99 VHP 3.232 DPA -10.66 RAP 164.77 ECC 1.1653

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 47 37	2014.46	-14.26	29.19	350.11	114.72	3 21 11	1414.5	-10.81	22.22
90.00	14 22 30	4755.28	16.93	204.00	350.56	66.96	15 41 45	4155.3	13.67	196.84
100.00	4 8 14	1754.42	-15.07	9.67	349.71	116.12	4 37 28	1154.4	-11.44	2.77
100.00	15 44 34	4490.57	17.75	184.15	350.18	65.55	16 59 25	3890.6	14.31	177.06
110.00	5 14 48	1546.01	-17.23	352.66	348.52	119.99	5 40 34	946.0	-13.11	345.97
110.00	16 54 29	4271.74	19.94	166.40	349.04	61.64	18 5 41	3671.7	16.00	159.49

DIFFERENTIAL CORRECTIONS
TDE .0831 TRA -.3108 TC3 -.0635 BAU .1688
RDE -.2318 RRA -.1460 RC3-1.2557 FAU .17832
FDE-1.3356 FRA-1.2296 FC-15.3722 BSP 2862
BDE .2463 BRA .3434 BC3 1.2573 FSP -2774

MID-COURSE EXECUTION ACCURACY
SGT 583.3 SGR 937.5 SG3 888.3
RRT .2150 RRF .9705 RTF .2134
SGB 1104.2 R23 .1140 R13 .9638
SG1 950.5 SG2 561.9 THA 78.21

ORBIT DETERMINATION ACCURACY
ST 225.9 SR 427.3 SS 704.3
CRT -.5138 CRS -.9948 CST .4387
LSA 829.9 MSA 201.4 SSA 19.9
EL1 446.3 EL2 185.5 ALF 108.51

LAUNCH DATE JUN 23 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 23 1967

DISTANCE 337.810

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 27.023 GAL -3.80 AZL 91.74 HCA 151.29 SMA 130.68 ECC .17603 INC 1.7371 V1 29.302
RP 107.94 LAP -.83 LOP 62.17 VP 37.992 GAP -1.55 AZP 88.48 TAL 198.31 TAP 349.60 RCA 107.68 APO 153.69 V2 35.107
RC 83.336 GL -15.16 GP -21.54 ZAL 127.20 ZAP 75.35 ETS 5.83 ZAE 162.42 ETE 284.36 ZAC 101.97 ETC 10.64 CLP -74.22

PLANETOCENTRIC CONIC
C3 9.769 VHL 3.126 DLA -.23 RAL 139.59 RAD 6567.4 VEL 11.452 PTH 1.99 VHP 3.189 DPA -11.92 RAP 161.73 ECC 1.1608

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 39 51	2050.40	-15.28	31.35	350.46	114.14	3 14 1	1450.4	-11.89	24.31
90.00	14 34 33	4708.36	15.66	201.14	350.53	66.10	15 53 1	4108.4	12.30	194.08
100.00	4 1 5	1788.35	-16.08	11.69	350.08	115.54	4 30 53	1188.4	-12.51	4.72
100.00	15 56 0	4445.64	16.47	181.44	350.14	64.70	17 10 5	3845.6	12.92	174.44
110.00	5 9 5	1575.48	-18.22	354.37	348.91	119.44	5 35 21	975.5	-14.16	347.60
110.00	17 4 29	4231.27	18.61	164.01	348.98	60.80	18 15 0	3631.3	14.58	157.21

DIFFERENTIAL CORRECTIONS
TDE .0532 TRA -.3379 TC3 -.4326 BAU .2055
RDE -.2236 RRA -.1523 RC3-1.5132 FAU .18272
FDE-1.2109 FRA-1.1886 FC-16.1925 BSP 3376
BDE .2299 BRA .3706 BC3 1.5739 FSP -2870

MID-COURSE EXECUTION ACCURACY
SGT 682.8 SGR 1068.1 SG3 914.9
RRT .5331 RRF .9808 RTF .5353
SGB 1267.7 R23 .1905 R13 .9622
SG1 1148.2 SG2 537.4 THA 65.47

ORBIT DETERMINATION ACCURACY
ST 210.0 SR 419.4 SS 642.9
CRT -.2748 CRS -.9945 CST .1891
LSA 768.2 MSA 207.1 SSA 19.8
EL1 424.5 EL2 199.5 ALF 100.08

LAUNCH DATE JUN 23 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 25 1967

DISTANCE 344.215

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 27.027 GAL -3.75 AZL 91.51 HCA 154.51 SMA 130.71 ECC .17549 INC 1.5064 V1 29.302
RP 107.91 LAP -.65 LOP 65.39 VP 38.007 GAP -1.09 AZP 88.64 TAL 198.14 TAP 352.65 RCA 107.77 APO 153.65 V2 35.119
RC 85.546 GL -13.31 GP -24.24 ZAL 127.35 ZAP 80.79 ETS 4.24 ZAE 159.97 ETE 270.63 ZAC 104.66 ETC 9.31 CLP -79.89

PLANETOCENTRIC CONIC
C3 9.480 VHL 3.079 DLA 1.46 RAL 140.37 RAD 6567.3 VEL 11.440 PTH 1.98 VHP 3.185 DPA -13.50 RAP 158.51 ECC 1.1560

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 30 29	2096.70	-16.54	34.15	351.12	113.31	3 5 26	1496.7	-13.25	27.03
90.00	14 50 9	4650.25	14.03	197.66	350.71	65.15	16 7 40	4050.2	10.56	190.69
100.00	3 52 31	1832.13	-17.35	14.32	350.74	114.73	4 23 3	1232.1	-13.87	7.26
100.00	16 10 49	4390.05	14.82	178.13	350.32	63.74	17 23 59	3790.0	11.17	171.24
110.00	5 2 19	1613.65	-19.48	356.61	349.61	118.66	5 29 12	1013.7	-15.51	349.74
110.00	17 17 31	4181.30	16.93	161.11	349.15	59.85	18 27 12	3581.3	12.79	154.44

DIFFERENTIAL CORRECTIONS
TDE .0320 TRA -.3627 TC3 -.8496 BAU .2537
RDE -.2091 RRA -.1558 RC3-1.8125 FAU .18329
FDE-1.0242 FRA-1.0989 FC-16.7384 BSP 4105
BDE .2116 BRA .3948 BC3 2.0017 FSP -2910

MID-COURSE EXECUTION ACCURACY
SGT 856.2 SGR 1217.1 SG3 922.7
RRT .7260 RRF .9878 RTF .7283
SGB 1488.1 R23 .2038 R13 .9666
SG1 1396.9 SG2 513.0 THA 58.15

ORBIT DETERMINATION ACCURACY
ST 211.7 SR 400.2 SS 557.5
CRT -.0594 CRS -.9935 CST -.0364
LSA 685.2 MSA 214.0 SSA 20.0
EL1 400.4 EL2 211.2 ALF 92.49

LAUNCH DATE JUN 23 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 27 1967

HELIOCENTRIC CONIC DISTANCE 350.597

RL	152.04	LAL	.00	LOL	270.87	VL	27.027	GAL	-3.69	AZL	91.21	HCA	157.73	SMA	130.71	ECC	.17512	INC	1.2137	V1	29.302
RP	107.87	LAP	-.46	LOP	68.60	VP	38.018	GAP	-.65	AZP	88.88	TAL	197.89	TAP	355.62	RCA	107.82	APO	153.60	V2	35.131
RC	87.767	GL	-10.87	GP	-27.42	ZAL	127.41	ZAP	86.06	ETS	2.26	ZAE	156.24	ETE	260.29	ZAC	107.31	ETC	7.59	CLP	-85.56

PLANETOCENTRIC CONIC

C3	9.179	VHL	3.030	DLA	3.67	RAL	141.47	RAD	6567.3	VEL	11.427	PTH	1.98	VHP	3.227	DPA	-15.55	RAP	155.12	ECC	1.1511

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 18 25	2159.06	-18.18	38.00	352.20	112.09	2 54 24	1559.1	-15.03	30.74
90.00	15 10 59	4575.29	11.84	193.24	351.20	64.09	16 27 14	3975.3	8.26	186.39
100.00	3 41 29	1891.16	-18.99	17.94	351.84	113.53	4 13 0	1291.2	-15.65	10.74
100.00	16 30 37	4318.43	12.62	173.95	350.80	62.68	17 42 35	3718.4	8.86	167.18
110.00	4 53 40	1665.24	-21.14	359.70	350.75	117.51	5 21 25	1065.2	-17.28	352.69
110.00	17 34 55	4117.11	14.70	157.47	349.61	58.78	18 43 32	3517.1	10.46	150.94

DIFFERENTIAL CORRECTIONS

TDE	.0243	TRA	-.3827	TC3	-1.3170	BAU	.3096	SGT	1079.3	SGR	1378.9	SG3	903.0	ST	223.7	SR	357.0	SS	431.6
RDE	-.1820	RRA	-.1521	RC3	-2.1517	FAU	.17848	RRT	.8289	RRF	.9923	RTF	.8301	CRT	.0493	CRS	-.9898	CST	-.1676
FDE	-.7512	FRA	-.9379	FC	-16.8340	BSP	4970	SGB	1751.1	R23	.2000	R13	.9721	LSA	559.5	MSA	224.2	SSA	21.4
BDE	.1836	BRA	.4118	BC3	2.5227	FSP	-2849	SG1	1679.4	SG2	495.7	THA	53.31	EL1	357.3	EL2	223.2	ALF	87.10

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE JUN 23 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 29 1967

HELIOCENTRIC CONIC DISTANCE 356.957

RL	152.04	LAL	.00	LOL	270.87	VL	27.023	GAL	-3.62	AZL	90.83	HCA	160.96	SMA	130.69	ECC	.17491	INC	.8279	V1	29.302
RP	107.83	LAP	-.27	LOP	71.82	VP	38.026	GAP	-.22	AZP	89.22	TAL	197.57	TAP	358.52	RCA	107.83	APO	153.54	V2	35.143
RC	89.996	GL	-7.51	GP	-31.24	ZAL	127.36	ZAP	91.00	ETS	359.78	ZAE	151.42	ETE	253.16	ZAC	109.79	ETC	5.39	CLP	-91.17

PLANETOCENTRIC CONIC

C3	8.878	VHL	2.980	DLA	6.70	RAL	142.99	RAD	6567.3	VEL	11.413	PTH	1.98	VHP	3.327	DPA	-18.26	RAP	151.56	ECC	1.1461

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 1 32	2247.90	-20.36	43.60	353.94	110.11	2 39 0	1647.9	-17.44	36.15
90.00	15 40 2	4473.60	8.75	187.37	352.19	62.96	16 54 36	3873.6	5.06	180.63
100.00	3 26 4	1975.24	-21.19	23.21	353.60	111.59	3 58 59	1375.2	-18.07	15.81
100.00	16 58 11	4221.50	9.53	168.41	351.77	61.53	18 8 32	3621.5	5.66	161.77
110.00	4 41 37	1738.80	-23.38	4.23	352.57	115.68	5 10 36	1138.8	-19.73	356.99
110.00	17 59 7	4030.70	11.59	152.70	350.54	57.62	19 6 18	3430.7	7.24	146.31

DIFFERENTIAL CORRECTIONS

TDE	.0397	TRA	-.3926	TC3	-1.8276	BAU	.3723	SGT	1330.3	SGR	1566.4	SG3	858.3	ST	242.7	SR	281.2	SS	271.9
RDE	-.1378	RRA	-.1412	RC3	-2.5497	FAU	.16863	RRT	.8841	RRF	.9954	RTF	.8847	CRT	-.0003	CRS	-.9707	CST	-.2023
FDE	-.4116	FRA	-.7334	FC	-16.4450	BSP	5992	SGB	2055.0	R23	.1882	R13	.9774	LSA	389.4	MSA	244.1	SSA	25.2
BDE	.1434	BRA	.4172	BC3	3.1370	FSP	-2723	SG1	1996.3	SG2	487.7	THA	50.26	EL1	281.2	EL2	242.7	ALF	90.06

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE JUN 23 1967 FLIGHT TIME 130.00 ARRIVAL DATE OCT 31 1967

HELIOCENTRIC CONIC DISTANCE 363.295

RL	152.04	LAL	.00	LOL	270.87	VL	27.016	GAL	-3.54	AZL	90.29	HCA	164.18	SMA	130.64	ECC	.17485	INC	.2889	V1	29.302
RP	107.80	LAP	-.08	LOP	75.05	VP	38.031	GAP	.20	AZP	89.72	TAL	197.16	TAP	1.34	RCA	107.79	APO	153.48	V2	35.154
RC	92.232	GL	-2.67	GP	-36.03	ZAL	127.07	ZAP	95.39	ETS	356.63	ZAE	145.54	ETE	248.56	ZAC	111.96	ETC	2.53	CLP	-96.67

PLANETOCENTRIC CONIC

C3	8.620	VHL	2.936	DLA	11.08	RAL	145.17	RAD	6567.3	VEL	11.402	PTH	1.97	VHP	3.512	DPA	-21.93	RAP	147.72	ECC	1.1419

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 35 24	2384.29	-23.29	52.53	356.88	106.57	2 15 9	1784.3	-20.80	44.74
90.00	16 23 31	4325.98	4.09	179.02	354.12	61.96	17 35 37	3726.0	.31	172.38
100.00	3 2 19	2104.00	-24.17	31.61	356.58	108.14	3 37 23	1504.0	-21.47	23.86
100.00	17 39 18	4081.50	4.90	160.60	353.68	60.48	18 47 19	3481.5	.94	154.06
110.00	4 23 10	1851.01	-26.50	11.45	355.63	112.43	4 54 1	1251.0	-23.22	3.82
110.00	18 34 56	3907.26	7.02	146.07	352.37	56.46	19 40 3	3307.3	2.56	139.82

DIFFERENTIAL CORRECTIONS

TDE	.0947	TRA	-.3840	TC3	-2.3615	BAU	.4386	SGT	1593.8	SGR	1770.4	SG3	777.1	ST	297.3	SR	143.0	SS	117.2
RDE	-.0588	RRA	-.1126	RC3	-2.9844	FAU	.15172	RRT	.9143	RRF	.9973	RTF	.9148	CRT	-.0852	CRS	-.5076	CST	-.7096
FDE	.0203	FRA	-.4607	FC	-15.2384	BSP	7062	SGB	2382.1	R23	.1765	R13	.9816	LSA	309.6	MSA	157.9	SSA	42.0
BDE	.1115	BRA	.4002	BC3	3.8057	FSP	-2466	SG1	2331.1	SG2	490.2	THA	48.28	EL1	297.6	EL2	142.3	ALF	176.96

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE JUN 23 1967 FLIGHT TIME 132.00 ARRIVAL DATE NOV 2 1967

HELIOCENTRIC CONIC DISTANCE 369.610

RL	152.04	LAL	.00	LOL	270.87	VL	27.005	GAL	-3.45	AZL	89.49	HCA	167.40	SMA	130.56	ECC	.17492	INC	.5132	V1	29.302
RP	107.77	LAP	.11	LOP	78.27	VP	38.034	GAP	.61	AZP	90.50	TAL	196.69	TAP	4.10	RCA	107.72	APO	153.40	V2	35.165
RC	94.474	GL	4.74	GP	-42.26	ZAL	126.19	ZAP	98.90	ETS	352.59	ZAE	138.36	ETE	245.84	ZAC	113.64	ETC	358.75	CLP	-102.06

PLANETOCENTRIC CONIC

C3	8.548	VHL	2.924	DLA	17.81	RAL	148.48	RAD	6567.3	VEL	11.399	PTH	1.97	VHP	3.840	DPA	-27.00	RAP	143.33	ECC	1.1407

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	0 47 42	2621.16	-26.91	68.91	2.30	99.15	1 31 24	2021.2	-25.37	60.58
90.00	17 37 39	4085.93	-3.64	165.61	358.30	61.90	18 45 45	3485.9	-7.37	158.92
100.00	2 19 30	2325.12	-27.98	46.92	2.08	100.96	2 58 16	1725.1	-26.19	38.58
100.00	18 48 32	3857.20	-2.68	148.27	357.77	60.22	19 52 50	3257.2	-6.63	141.70
110.00	3 50 40	2039.91	-30.73	24.51	1.33	105.77	4 24 40	1439.9	-28.26	16.18
110.00	19 33 52	3715.18	-.29	136.01	356.28	55.82	20 35 47	3115.2	-4.77	129.79

DIFFERENTIAL CORRECTIONS

TDE	.2196	TRA	-.3453	TC3	-2.8627	BAU	.5098	SGT	1868.7	SGR	2010.1	SG3	661.6	ST	482.8	SR	169.8	SS	336.6
RDE	.0789	RRA	-.0588	RC3	-3.4212	FAU	.12812	RRT	.9321	RRF	.9985	RTF	.9333	CRT	.9427	CRS	-.9831	CST	-.9301
FDE	.5020	FRA	-.1585	FC	-12.9758	BSP	8278	SGB	2744.6	R23	.1630	R13	.9851	LSA	602.5	MSA	107.1	SSA	26.1
BDE	.2333	BRA	.3502	BC3	4.4609	FSP	-2113	SG1	2697.8	SG2	504.5	THA	47.24	EL1	509.0	EL2	53.7	ALF	18.56

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE JUN 23 1967 FLIGHT TIME 134.00 ARRIVAL DATE NOV 4 1967

DISTANCE 375.901

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.992 GAL -3.35 AZL 88.14 HCA 170.63 SMA 130.47 ECC .17512 INC 1.8589 V1 29.302
RP 107.73 LAP .30 LOP 81.50 VP 38.034 GAP 1.01 AZP 91.83 TAL 196.15 TAP 6.77 RCA 107.62 APO 153.32 V2 35.175
RC 96.719 GL 16.75 GP -50.73 ZAL 123.57 ZAP 100.98 ETS 347.35 ZAE 129.29 ETE 244.33 ZAC 114.46 ETC 353.61 CLP-107.51

PLANETOCENTRIC CONIC
C3 9.199 VHL 3.033 DLA 28.67 RAL 154.21 RAD 6567.3 VEL 11.428 PTH 1.98 VHP 4.465 DPA -34.12 RAP 137.71 ECC 1.1514

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.33	20 54 37	3493.69	-23.61	131.56	11.15	73.25	21 52 50	2893.7	-25.68	123.48
94.67	22 12 29	3241.53	-23.60	113.09	11.15	73.24	23 6 30	2641.5	-25.67	105.01
100.00	0 10 33	2874.38	-28.35	87.26	12.40	80.09	0 58 27	2274.4	-29.42	78.63
100.00	21 43 10	3336.06	-19.03	118.25	9.35	66.51	22 38 46	2736.1	-22.05	110.75
110.00	2 32 12	2430.90	-34.16	54.28	13.07	88.61	3 12 43	1830.9	-33.97	45.04
110.00	21 38 0	3352.31	-13.85	116.66	6.53	58.43	22 33 52	2752.3	-17.93	109.92

DIFFERENTIAL CORRECTIONS
TDE .4949 TRA -.2425 TC3-3.0851 BAU .5797
RDE .3435 RRA .0559 RC3-3.5645 FAU .09585
FDE .9975 FRA .1695 FC3-9.0202 BSP 9490
BDE .6024 BRA .2488 BC3 4.7141 FSP -1605

MID-COURSE EXECUTION ACCURACY
SGT 2156.1 SGR 2260.7 SG3 501.0
RRT .9417 RRF .9992 RTF .9447
SGB 3124.0 R23 .1511 R13 .9877
SG1 3078.2 SG2 532.7 THA 46.44

ORBIT DETERMINATION ACCURACY
ST 949.6 SR 653.2 SS 730.9
CRT .9749 CRS -.9999 CST -.9748
LSA 1356.2 MSA 153.0 SSA 6.3
EL1 1146.2 EL2 120.5 ALF 34.28

LAUNCH DATE JUN 23 1967 FLIGHT TIME 136.00 ARRIVAL DATE NOV 6 1967

DISTANCE 382.160

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.975 GAL -3.24 AZL 85.40 HCA 173.84 SMA 130.36 ECC .17542 INC 4.5971 V1 29.302
RP 107.70 LAP .49 LOP 84.72 VP 38.031 GAP 1.39 AZP 94.57 TAL 195.53 TAP 9.37 RCA 107.49 APO 153.22 V2 35.185
RC 98.967 GL 36.25 GP -62.72 ZAL 116.38 ZAP 100.72 ETS 340.25 ZAE 117.16 ETE 242.82 ZAC 113.79 ETC 346.19 CLP-113.95

PLANETOCENTRIC CONIC
C3 13.325 VHL 3.650 DLA 45.66 RAL 166.51 RAD 6567.5 VEL 11.607 PTH 2.03 VHP 5.901 DPA -44.12 RAP 128.86 ECC 1.2193

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
52.55	18 30 24	4155.43	-33.99	189.12	35.32	57.45	19 39 39	3555.4	-38.00	180.97
127.45	2 18 47	2732.18	-33.98	78.62	35.31	57.44	3 4 20	2132.2	-37.99	70.48
52.55	18 30 24	4155.43	-33.99	189.12	35.32	57.45	19 39 39	3555.4	-38.00	180.97
127.45	2 18 47	2732.18	-33.98	78.62	35.31	57.44	3 4 20	2132.2	-37.99	70.48
52.55	18 30 24	4155.43	-33.99	189.12	35.32	57.45	19 39 39	3555.4	-38.00	180.97
127.45	2 18 47	2732.18	-33.98	78.62	35.31	57.44	3 4 20	2132.2	-37.99	70.48

DIFFERENTIAL CORRECTIONS
TDE 1.1530 TRA .0229 TC3-2.3978 BAU .6361
RDE .8518 RRA .3147 RC3-2.6460 FAU .05675
FDE 1.3021 FRA .4465 FC3-3.6869 BSP 10784
BDE 1.4335 BRA .3155 BC3 3.5708 FSP -994

MID-COURSE EXECUTION ACCURACY
SGT 2518.4 SGR 2453.3 SG3 304.6
RRT .9448 RRF .9991 RTF .9532
SGB 3515.8 R23 .1428 R13 .9892
SG1 3467.0 SG2 583.6 THA 44.21

ORBIT DETERMINATION ACCURACY
ST 1810.5 SR 1354.9 SS 1054.1
CRT .9889 CRS -.9999 CST -.9905
LSA 2488.4 MSA 180.7 SSA 2.3
EL1 2255.6 EL2 161.8 ALF 36.72

LAUNCH DATE JUN 23 1967 FLIGHT TIME 138.00 ARRIVAL DATE NOV 8 1967

DISTANCE 388.352

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.957 GAL -3.10 AZL 76.82 HCA 177.01 SMA 130.23 ECC .17580 INC13.1774 V1 29.302
RP 107.67 LAP .68 LOP 87.95 VP 38.027 GAP 1.76 AZP 103.16 TAL 194.82 TAP 11.83 RCA 107.33 APO 153.12 V2 35.195
RC 101.218 GL 60.56 GP -80.39 ZAL 102.77 ZAP 96.99 ETS 322.69 ZAE 99.10 ETE 231.21 ZAC 110.80 ETC 327.08 CLP-136.76

PLANETOCENTRIC CONIC
C3 49.657 VHL 7.047 DLA 62.16 RAL 198.71 RAD 6568.8 VEL 13.077 PTH 2.39 VHP 10.940 DPA -57.16 RAP 107.88 ECC 1.8172

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
32.04	19 38 3	4608.14	-25.98	228.76	93.81	31.30	20 54 51	4008.1	-32.73	224.25
147.96	5 28 2	2917.34	-25.97	88.90	93.79	31.30	6 16 39	2317.3	-32.72	84.38
32.04	19 38 3	4608.14	-25.98	228.76	93.81	31.30	20 54 51	4008.1	-32.73	224.25
147.96	5 28 2	2917.34	-25.97	88.90	93.79	31.30	6 16 39	2317.3	-32.72	84.38
32.04	19 38 3	4608.14	-25.98	228.76	93.81	31.30	20 54 51	4008.1	-32.73	224.25
147.96	5 28 2	2917.34	-25.97	88.90	93.79	31.30	6 16 39	2317.3	-32.72	84.38

DIFFERENTIAL CORRECTIONS
TDE 2.9186 TRA 1.2315 TC3 -.6284 BAU .5233
RDE .9438 RRA .9597 RC3 -.4759 FAU .01715
FDE .9597 FRA .6456 FC3 -.2990 BSP 11303
BDE 3.0674 BRA 1.5613 BC3 .7883 FSP -389

MID-COURSE EXECUTION ACCURACY
SGT 3318.5 SGR 1957.1 SG3 123.7
RRT .9234 RRF .9848 RTF .9755
SGB 3852.6 R23 .1226 R13 .9922
SG1 3796.2 SG2 656.6 THA 29.54

ORBIT DETERMINATION ACCURACY
ST 2458.8 SR 916.8 SS 803.6
CRT .9511 CRS -.9854 CST -.9898
LSA 2730.2 MSA 279.0 SSA .9
EL1 2610.6 EL2 266.7 ALF 19.74

LAUNCH DATE JUN 23 1967 FLIGHT TIME 140.00 ARRIVAL DATE NOV 10 1967

DISTANCE 395.327

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.936 GAL -3.11 AZL 159.79 HCA 180.93 SMA 130.08 ECC .17708 INC69.7830 V1 29.302
RP 107.65 LAP .87 LOP 91.19 VP 38.020 GAP 2.34 AZP 20.21 TAL 194.72 TAP 15.65 RCA 107.05 APO 153.12 V2 35.204
RC 103.470 GL -51.51 GP 59.98 ZAL 92.77 ZAP 92.43 ETS 177.88 ZAE 57.76 ETE 265.30 ZAC 82.93 ETC 165.80 CLP 94.85

PLANETOCENTRIC CONIC
C31039.815 VHL 32.246 DLA -44.64 RAL 150.80 RAD 6573.0 VEL 34.075 PTH 3.51 VHP 40.235 DPA 51.60 RAP 331.62 ECC18.1127

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
53.93	5 34 45	2261.09	-.38	57.33	61.17	134.64	6 12 26	1661.1	5.23	52.04
126.07	13 9 4	864.20	-.37	309.29	61.19	134.64	13 23 28	264.2	5.25	304.00
53.93	5 34 45	2261.09	-.38	57.33	61.17	134.64	6 12 26	1661.1	5.23	52.04
126.07	13 9 4	864.20	-.37	309.29	61.19	134.64	13 23 28	264.2	5.25	304.00
53.93	5 34 45	2261.09	-.38	57.33	61.17	134.64	6 12 26	1661.1	5.23	52.04
126.07	13 9 4	864.20	-.37	309.29	61.19	134.64	13 23 28	264.2	5.25	304.00

DIFFERENTIAL CORRECTIONS
TDE 4.9353 TRA 2.5885 TC3 -.0974 BAU 3.5447
RD-15.6869 RRA-1.1934 RC3 .2356 FAU-.05643
FDE-3.3646 FRA -.2125 FC3 .0470 BSP 5733
BDE16.4450 BRA 2.8503 BC3 .2550 FSP -103

MID-COURSE EXECUTION ACCURACY
SGT 1257.6 SGR 3188.7 SG3 58.1
RRT -.8957 RRF .9994 RTF -.8858
SGB 3427.7 R23 -.0775 R13 .9967
SG1 3387.0 SG2 526.5 THA 109.96

ORBIT DETERMINATION ACCURACY
ST 898.3 SR 2789.1 SS 2079.2
CRT -.9828 CRS-1.0000 CST .9818
LSA 3589.3 MSA 162.6 SSA 1.7
EL1 2925.9 EL2 158.0 ALF 107.62

LAUNCH DATE JUN 23 1967 FLIGHT TIME 142.00 ARRIVAL DATE NOV 12 1967

HELIOCENTRIC CONIC DISTANCE 401.056

RL 152.04 LAL .00 LOL 270.87 VL 26.912 GAL -2.87 AZL 106.50 HCA 183.71 SMA 129.92 ECC .17726 INC16.5031 V1 29.302
RP 107.62 LAP 1.05 LOP 94.42 VP 38.011 GAP 2.57 AZP 73.53 TAL 193.54 TAP 17.24 RCA 106.89 APO 152.95 V2 35.212
RC 105.723 GL -63.45 GP 73.69 ZAL 99.76 ZAP 101.77 ETS 52.35 ZAE 99.42 ETE 142.16 ZAC 85.98 ETC 46.53 CLP-136.54

PLANETOCENTRIC CONIC

C3 72.861 VHL 8.536 DLA -49.09 RAL 129.46 RAD 6569.4 VEL 13.936 PTH 2.54 VHP 9.064 DPA 74.14 RAP 236.00 ECC 2.1991

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
48.06	3 48 44	1962.92	17.42	47.64	23.66	136.66	4 21 27	1362.9	23.14	42.10
131.94	12 4 50	5748.79	17.44	267.48	23.68	136.65	13 40 38	5148.8	23.16	261.93
48.06	3 48 44	1962.92	17.42	47.64	23.66	136.66	4 21 27	1362.9	23.14	42.10
131.94	12 4 50	5748.79	17.44	267.48	23.68	136.65	13 40 38	5148.8	23.16	261.93
48.06	3 48 44	1962.92	17.42	47.64	23.66	136.66	4 21 27	1362.9	23.14	42.10
131.94	12 4 50	5748.79	17.44	267.48	23.68	136.65	13 40 38	5148.8	23.16	261.93

DIFFERENTIAL CORRECTIONS
TDE-4.2245 TRA-2.1192 TC3 -.4171 BAU .4371
RDE 2.3342 RRA .3105 RC3 .1655 FAU .02053
FDE-2.5303 FRA -.8053 FC3 -.2439 BSP 12295
BDE 4.8265 BRA 2.1419 BC3 .4488 FSP -523

MID-COURSE EXECUTION ACCURACY
SGT 3642.3 SGR 1623.6 SG3 167.1
RRT -.9022 RRF -.9687 RTF .9805
SGB 3987.8 R23 .1277 R13 -.9915
SG1 3934.8 SG2 648.1 THA 157.45

ORBIT DETERMINATION ACCURACY
ST 2909.6 SR 1569.7 SS 1344.2
CRT -.9864 CRS .9965 CST -.9967
LSA 3561.2 MSA 234.0 SSA 1.1
EL1 3298.2 EL2 227.5 ALF 151.83

LAUNCH DATE JUN 23 1967 FLIGHT TIME 144.00 ARRIVAL DATE NOV 14 1967

HELIOCENTRIC CONIC DISTANCE 407.211

RL 152.04 LAL .00 LOL 270.87 VL 26.887 GAL -2.71 AZL 100.32 HCA 186.90 SMA 129.75 ECC .17798 INC10.3155 V1 29.302
RP 107.60 LAP 1.23 LOP 97.66 VP 38.001 GAP 2.92 AZP 79.76 TAL 192.68 TAP 19.58 RCA 106.66 APO 152.84 V2 35.220
RC 107.975 GL -56.46 GP 55.61 ZAL 103.72 ZAP 111.41 ETS 37.09 ZAE 114.96 ETE 133.68 ZAC 93.10 ETC 33.11 CLP-130.27

PLANETOCENTRIC CONIC

C3 33.293 VHL 5.770 DLA -42.33 RAL 132.82 RAD 6568.3 VEL 12.436 PTH 2.25 VHP 5.668 DPA 64.31 RAP 189.57 ECC 1.5479

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.12	4 35 48	1682.35	23.63	27.45	14.09	126.20	5 3 50	1082.4	28.18	20.55
122.88	11 44 35	5641.71	23.64	263.43	14.11	126.19	13 18 37	5041.7	28.19	256.52
57.12	4 35 48	1682.35	23.63	27.45	14.09	126.20	5 3 50	1082.4	28.18	20.55
122.88	11 44 35	5641.71.	23.64	263.43	14.11	126.19	13 18 37	5041.7	28.19	256.52
57.12	4 35 48	1682.35	23.63	27.45	14.09	126.20	5 3 50	1082.4	28.18	20.55
122.88	11 44 35	5641.71	23.64	263.43	14.11	126.19	13 18 37	5041.7	28.19	256.52

DIFFERENTIAL CORRECTIONS
TDE-2.4918 TRA-1.4706 TC3-1.2018 BAU .6008
RDE 1.6399 RRA .3916 RC3 .6145 FAU .05582
FDE-3.3369 FRA-1.0355 FC3-1.4515 BSP 12111
BDE 2.9830 BRA 1.5218 BC3 1.3498 FSP -1086

MID-COURSE EXECUTION ACCURACY
SGT 3456.4 SGR 1852.3 SG3 342.6
RRT -.9452 RRF -.9960 RTF .9682
SGB 3921.5 R23 .1775 R13 -.9835
SG1 3884.4 SG2 538.3 THA 152.57

ORBIT DETERMINATION ACCURACY
ST 2544.7 SR 1636.1 SS 1635.6
CRT -.9904 CRS .9996 CST -.9940
LSA 3432.4 MSA 214.9 SSA 1.7
EL1 3019.3 EL2 190.4 ALF 147.36

LAUNCH DATE JUN 23 1967 FLIGHT TIME 146.00 ARRIVAL DATE NOV 16 1967

HELIOCENTRIC CONIC DISTANCE 413.378

RL 152.04 LAL .00 LOL 270.87 VL 26.861 GAL -2.54 AZL 98.04 HCA 190.12 SMA 129.57 ECC .17884 INC 8.0436 V1 29.302
RP 107.58 LAP 1.41 LOP 100.89 VP 37.988 GAP 3.28 AZP 82.08 TAL 191.79 TAP 21.92 RCA 106.40 APO 152.74 V2 35.227
RC 110.226 GL -51.18 GP 42.89 ZAL 105.51 ZAP 119.22 ETS 32.75 ZAE 124.11 ETE 138.51 ZAC 98.44 ETC 29.93 CLP-131.77

PLANETOCENTRIC CONIC

C3 23.224 VHL 4.819 DLA -37.73 RAL 136.20 RAD 6567.9 VEL 12.025 PTH 2.15 VHP 4.694 DPA 53.79 RAP 175.25 ECC 1.3822

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.96	5 20 43	1504.05	24.48	12.97	10.13	119.65	5 45 47	904.0	28.23	5.50
116.04	11 26 41	5640.80	24.50	263.95	10.14	119.64	13 0 42	5040.8	28.24	256.48
63.96	5 20 43	1504.05	24.48	12.97	10.13	119.65	5 45 47	904.0	28.23	5.50
116.04	11 26 41	5640.80	24.50	263.95	10.14	119.64	13 0 42	5040.8	28.24	256.48
63.96	5 20 43	1504.05	24.48	12.97	10.13	119.65	5 45 47	904.0	28.23	5.50
116.04	11 26 41	5640.80	24.50	263.95	10.14	119.64	13 0 42	5040.8	28.24	256.48

DIFFERENTIAL CORRECTIONS
TDE-2.0671 TRA-1.2483 TC3-1.9204 BAU .6421
RDE 1.0809 RRA .2461 RC3 .7671 FAU .08247
FDE-3.7013 FRA-1.0603 FC3-3.0743 BSP 12234
BDE 2.3327 BRA 1.2723 BC3 2.0680 FSP -1551

MID-COURSE EXECUTION ACCURACY
SGT 3603.8 SGR 1528.1 SG3 478.6
RRT -.9481 RRF -.9966 RTF .9663
SGB 3914.4 R23 .2069 R13 -.9772
SG1 3888.4 SG2 450.3 THA 157.78

ORBIT DETERMINATION ACCURACY
ST 2521.9 SR 1290.1 SS 1795.4
CRT -.9903 CRS .9998 CST -.9932
LSA 3347.4 MSA 208.0 SSA 2.4
EL1 2828.3 EL2 159.5 ALF 153.04

LAUNCH DATE JUN 23 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 18 1967

HELIOCENTRIC CONIC DISTANCE 419.540

RL 152.04 LAL .00 LOL 270.87 VL 26.832 GAL -2.36 AZL 96.86 HCA 193.36 SMA 129.38 ECC .17982 INC 6.8618 V1 29.302
RP 107.56 LAP 1.58 LOP 104.13 VP 37.974 GAP 3.63 AZP 83.32 TAL 190.87 TAP 24.23 RCA 106.11 APO 152.64 V2 35.233
RC 112.475 GL -47.43 GP 33.97 ZAL 106.06 ZAP 125.28 ETS 29.66 ZAE 129.23 ETE 144.74 ZAC 101.95 ETC 27.65 CLP-134.14

PLANETOCENTRIC CONIC

C3 18.917 VHL 4.349 DLA -34.70 RAL 139.10 RAD 6567.8 VEL 11.845 PTH 2.10 VHP 4.346 DPA 45.76 RAP 169.10 ECC 1.3113

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.05	5 59 58	1372.53	24.17	2.25	8.70	115.70	6 22 50	772.5	27.42	354.54
110.95	11 10 33	5673.91	24.18	266.42	8.70	115.69	12 45 7	5073.9	27.43	258.72
69.05	5 59 58	1372.53	24.17	2.25	8.70	115.70	6 22 50	772.5	27.42	354.54
110.95	11 10 33	5673.91	24.18	266.42	8.70	115.69	12 45 7	5073.9	27.43	258.72
69.05	5 59 58	1372.53	24.17	2.25	8.70	115.70	6 22 50	772.5	27.42	354.54
110.95	11 10 33	5673.91	24.18	266.42	8.70	115.69	12 45 7	5073.9	27.43	258.72

DIFFERENTIAL CORRECTIONS
TDE-1.8531 TRA-1.0865 TC3-2.4643 BAU .6479
RDE .7405 RRA .1313 RC3 .7005 FAU .09249
FDE-3.6022 FRA -.8461 FC3-4.2328 BSP 11526
BDE 1.9956 BRA 1.0945 BC3 2.5620 FSP -1617

MID-COURSE EXECUTION ACCURACY
SGT 3685.9 SGR 1169.3 SG3 532.0
RRT -.9406 RRF -.9942 RTF .9622
SGB 3866.9 R23 .2338 R13 -.9696
SG1 3848.1 SG2 380.1 THA 163.22

ORBIT DETERMINATION ACCURACY
ST 2497.2 SR 977.7 SS 1789.0
CRT -.9893 CRS .9998 CST -.9922
LSA 3217.1 MSA 206.1 SSA 3.3
EL1 2678.5 EL2 132.9 ALF 158.77

LAUNCH DATE JUN 23 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 20 1967

DISTANCE 425.681

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.802 GAL -2.17 AZL 96.13 HCA 196.60 SMA 129.17 ECC .18091 INC 6.1344 V1 29.302
RP 107.54 LAP 1.75 LOP 107.37 VP 37.958 GAP 3.98 AZP 84.12 TAL 189.91 TAP 26.51 RCA 105.81 APO 152.54 V2 35.239
RC 114.720 GL -44.67 GP 27.61 ZAL 105.89 ZAP 130.09 ETS 27.19 ZAE 131.88 ETE 150.57 ZAC 104.10 ETC 25.73 CLP-136.62

PLANETOCENTRIC CONIC
C3 16.576 VHL 4.071 DLA -32.68 RAL 141.70 RAD 6567.7 VEL 11.746 PTH 2.07 VHP 4.235 DPA 39.80 RAP 165.98 ECC 1.2728

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.95	6 34 22	1268.11	23.69	353.90	8.54	113.21	6 55 30	668.1	26.62	346.10
107.05	10 56 51	5716.93	23.70	269.52	8.55	113.20	12 32 8	5116.9	26.63	261.71
72.95	6 34 22	1268.11	23.69	353.90	8.54	113.21	6 55 30	668.1	26.62	346.10
107.05	10 56 51	5716.93	23.70	269.52	8.55	113.20	12 32 8	5116.9	26.63	261.71
110.00	9 58 50	607.84	17.35	302.03	5.16	119.92	10 8 58	7.8	21.20	295.01
110.00	12 31 34	5425.20	30.36	249.70	11.25	106.52	14 1 59	4825.2	32.32	241.03

DIFFERENTIAL CORRECTIONS
TDE-1.7785 TRA-1.0065 TC3-3.0166 BAU .6826
RDE .5584 RRA .0837 RC3 .6236 FAU .09984
FDE-3.4765 FRA -.7096 FC3-5.2142 BSP 12249
BDE 1.8641 BRA 1.0100 BC3 3.0804 FSP -1800

MID-COURSE EXECUTION ACCURACY
SGT 3889.8 SGR 946.0 SG3 569.0
RRT -.9374 RRF -.9898 RTF .9631
SGB 4003.2 R23 .2319 R13 -.9675
SG1 3990.3 SG2 321.0 THA 167.07

ORBIT DETERMINATION ACCURACY
ST 2554.4 SR 787.1 SS 1795.3
CRT -.9894 CRS .9998 CST -.9920
LSA 3213.5 MSA 201.8 SSA 4.3
EL1 2670.6 EL2 109.5 ALF 163.02

LAUNCH DATE JUN 23 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 22 1967

DISTANCE 431.808

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.771 GAL -1.97 AZL 95.64 HCA 199.84 SMA 128.97 ECC .18210 INC 5.6391 V1 29.302
RP 107.52 LAP 1.91 LOP 110.62 VP 37.941 GAP 4.32 AZP 84.69 TAL 188.92 TAP 28.75 RCA 105.48 APO 152.45 V2 35.244
RC 116.961 GL -42.55 GP 22.96 ZAL 105.21 ZAP 134.05 ETS 25.16 ZAE 133.11 ETE 155.50 ZAC 105.30 ETC 24.08 CLP-139.03

PLANETOCENTRIC CONIC
C3 15.116 VHL 3.888 DLA -31.34 RAL 144.15 RAD 6567.6 VEL 11.683 PTH 2.05 VHP 4.230 DPA 35.27 RAP 164.36 ECC 1.2488

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.97	7 4 29	1183.70	23.29	347.31	9.14	111.59	7 24 13	583.7	26.02	339.44
104.03	10 46 18	5759.53	23.31	272.59	9.15	111.57	12 22 18	5159.5	26.03	264.72
75.97	7 4 29	1183.70	23.29	347.31	9.14	111.59	7 24 13	583.7	26.02	339.44
104.03	10 46 18	5759.53	23.31	272.59	9.15	111.57	12 22 18	5159.5	26.03	264.72
110.00	9 40 11	677.85	14.93	306.01	4.76	121.11	9 51 29	77.9	18.94	299.19
110.00	13 9 47	5313.37	32.24	241.53	12.19	102.03	14 38 20	4713.4	33.56	232.55

DIFFERENTIAL CORRECTIONS
TDE-1.7376 TRA -.9250 TC3-3.4766 BAU .7101
RDE .4380 RRA .0500 RC3 .5111 FAU .10039
FDE-3.2609 FRA -.5247 FC3-5.7496 BSP 12679
BDE 1.7920 BRA .9264 BC3 3.5140 FSP -1824

MID-COURSE EXECUTION ACCURACY
SGT 4051.3 SGR 762.9 SG3 572.5
RRT -.9269 RRF -.9806 RTF .9625
SGB 4122.5 R23 .2240 R13 -.9653
SG1 4112.8 SG2 282.0 THA 170.05

ORBIT DETERMINATION ACCURACY
ST 2606.4 SR 646.1 SS 1759.8
CRT -.9895 CRS .9998 CST -.9918
LSA 3204.4 MSA 198.5 SSA 5.4
EL1 2683.7 EL2 90.8 ALF 166.20

LAUNCH DATE JUN 23 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 24 1967

DISTANCE 437.918

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.739 GAL -1.76 AZL 95.28 HCA 203.08 SMA 128.75 ECC .18342 INC 5.2780 V1 29.302
RP 107.51 LAP 2.07 LOP 113.86 VP 37.922 GAP 4.66 AZP 85.14 TAL 187.88 TAP 30.96 RCA 105.13 APO 152.36 V2 35.248
RC 119.197 GL -40.86 GP 19.47 ZAL 104.18 ZAP 137.41 ETS 23.50 ZAE 133.54 ETE 159.51 ZAC 105.82 ETC 22.66 CLP-141.34

PLANETOCENTRIC CONIC
C3 14.124 VHL 3.758 DLA -30.46 RAL 146.55 RAD 6567.6 VEL 11.641 PTH 2.04 VHP 4.282 DPA 31.72 RAP 163.62 ECC 1.2325

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.27	7 30 34	1116.45	23.04	342.14	10.24	110.51	7 49 11	516.5	25.62	334.25
101.73	10 39 22	5796.63	23.05	275.27	10.24	110.49	12 15 58	5196.6	25.63	267.37
78.27	7 30 34	1116.45	23.04	342.14	10.24	110.51	7 49 11	516.5	25.62	334.25
101.73	10 39 22	5796.63	23.05	275.27	10.24	110.49	12 15 58	5196.6	25.63	267.37
110.00	9 34 54	711.47	13.74	307.89	5.45	121.61	9 46 45	111.5	17.82	301.15
110.00	13 34 13	5249.61	33.04	236.73	13.25	99.29	15 1 42	4649.6	33.97	227.61

DIFFERENTIAL CORRECTIONS
TDE-1.7222 TRA -.8451 TC3-3.8771 BAU .7360
RDE .3585 RRA .0294 RC3 .3981 FAU .09780
FDE-3.0369 FRA -.3436 FC3-5.9942 BSP 13066
BDE 1.7591 BRA .8456 BC3 3.8975 FSP -1788

MID-COURSE EXECUTION ACCURACY
SGT 4197.6 SGR 625.3 SG3 560.6
RRT -.9086 RRF -.9638 RTF .9617
SGB 4243.9 R23 .2074 R13 -.9634
SG1 4236.0 SG2 258.8 THA 172.26

ORBIT DETERMINATION ACCURACY
ST 2664.9 SR 546.8 SS 1714.8
CRT -.9900 CRS .9999 CST -.9916
LSA 3209.9 MSA 195.0 SSA 6.4
EL1 2719.4 EL2 75.6 ALF 168.51

LAUNCH DATE JUN 23 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 26 1967

DISTANCE 444.011

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.706 GAL -1.54 AZL 95.00 HCA 206.32 SMA 128.53 ECC .18484 INC 5.0016 V1 29.302
RP 107.50 LAP 2.22 LOP 117.11 VP 37.902 GAP 5.00 AZP 85.51 TAL 186.81 TAP 33.14 RCA 104.77 APO 152.29 V2 35.252
RC 121.426 GL -39.45 GP 16.78 ZAL 102.88 ZAP 140.34 ETS 22.12 ZAE 133.51 ETE 162.73 ZAC 105.86 ETC 21.43 CLP-143.52

PLANETOCENTRIC CONIC
C3 13.416 VHL 3.663 DLA -29.92 RAL 148.95 RAD 6567.5 VEL 11.610 PTH 2.03 VHP 4.366 DPA 28.85 RAP 163.45 ECC 1.2208

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.92	7 52 30	1065.89	22.90	338.32	11.70	109.80	8 10 16	465.9	25.39	330.40
100.08	10 36 35	5824.68	22.91	277.31	11.70	109.78	12 13 40	5224.7	25.40	269.39
79.92	7 52 30	1065.89	22.90	338.32	11.70	109.80	8 10 16	465.9	25.39	330.40
100.08	10 36 35	5824.68	22.91	277.31	11.70	109.78	12 13 40	5224.7	25.40	269.39
110.00	9 36 9	727.93	13.15	308.80	6.75	121.84	9 48 16	127.9	17.26	302.10
110.00	13 52 7	5210.64	33.43	233.75	14.60	97.57	15 18 58	4610.6	34.12	224.58

DIFFERENTIAL CORRECTIONS
TDE-1.7258 TRA -.7654 TC3-4.239[illegible] BAU .7623
RDE .3051 RRA .0178 RC3 .2963 FAU .09396
FDE-2.8306 FRA -.1799 FC3-6.0630 BSP 13495
BDE 1.7526 BRA .7656 BC3 4.2498 FSP -1735

MID-COURSE EXECUTION ACCURACY
SGT 4340.7 SGR 525.4 SG3 542.6
RRT -.8802 RRF -.9360 RTF .9610
SGB 4372.3 R23 .1841 R13 -.9621
SG1 4365.3 SG2 247.9 THA 173.90

ORBIT DETERMINATION ACCURACY
ST 2732.8 SR 477.5 SS 1671.4
CRT -.9911 CRS .9999 CST -.9915
LSA 3233.1 MSA 191.2 SSA 7.5
EL1 2773.5 EL2 62.7 ALF 170.17

LAUNCH DATE JUN 23 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 28 1967

HELIOCENTRIC CONIC DISTANCE 450.085

RL 152.04 LAL .00 LOL 270.87 VL 26.672 GAL -1.31 AZL 94.78 HCA 209.57 SMA 128.30 ECC .18639 INC 4.7821 V1 29.302
RP 107.49 LAP 2.36 LOP 120.35 VP 37.881 GAP 5.34 AZP 85.84 TAL 185.71 TAP 35.28 RCA 104.39 APO 152.21 V2 35.255
RC 123.648 GL -38.24 GP 14.65 ZAL 101.35 ZAP 142.95 ETS 20.98 ZAE 133.24 ETE 165.31 ZAC 105.51 ETC 20.36 CLP-145.59

PLANETOCENTRIC CONIC

C3 12.897 VHL 3.591 DLA -29.62 RAL 151.39 RAD 6567.5 VEL 11.588 PTH 2.03 VHP 4.471 DPA 26.45 RAP 163.70 ECC 1.2123

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.94	8 10 7	1032.16	22.87	335.80	13.46	109.34	8 27 19	432.2	25.30	327.87
99.06	10 38 26	5841.34	22.88	278.53	13.46	109.33	12 15 48	5241.3	25.31	270.60
100.00	10 11 25	639.72	20.42	306.03	12.45	112.32	10 22 5	39.7	23.27	298.39
100.00	11 19 49	5709.00	25.38	269.59	14.34	106.34	12 54 58	5109.0	27.38	261.36
110.00	9 41 30	734.05	12.93	309.13	8.45	121.92	9 53 44	134.1	17.06	302.46
110.00	14 6 14	5187.44	33.63	231.97	16.26	96.53	15 32 41	4587.4	34.17	222.77

DIFFERENTIAL CORRECTIONS
TOE-1.7418 TRA -.6813 TC3-4.5638 BAU .7877
RDE .2685 RRA .0117 RC3 .2065 FAU .08943
FDE-2.6430 FRA -.0293 FC3-6.0034 BSP 13917
BDE 1.7624 BRA .6814 BC3 4.5685 FSP -1670

MID-COURSE EXECUTION ACCURACY
SGT 4475.6 SGR 453.9 SG3 521.1
RRT -.8387 RRF -.8940 RTF .9602
SGB 4498.5 R23 .1584 R13 -.9610
SG1 4491.8 SG2 246.3 THA 175.12

ORBIT DETERMINATION ACCURACY
ST 2805.9 SR 428.5 SS 1629.7
CRT -.9926 CRS .9997 CST -.9915
LSA 3267.6 MSA 187.2 SSA 8.6
EL1 2837.9 EL2 51.4 ALF 171.38

LAUNCH DATE JUN 23 1967 FLIGHT TIME 160.00 ARRIVAL DATE NOV 30 1967

HELIOCENTRIC CONIC DISTANCE 456.142

RL 152.04 LAL .00 LOL 270.87 VL 26.636 GAL -1.06 AZL 94.60 HCA 212.82 SMA 128.07 ECC .18806 INC 4.6023 V1 29.302
RP 107.48 LAP 2.49 LOP 123.60 VP 37.858 GAP 5.68 AZP 86.13 TAL 184.58 TAP 37.40 RCA 103.99 APO 152.15 V2 35.257
RC 125.861 GL -37.16 GP 12.95 ZAL 99.63 ZAP 145.31 ETS 20.03 ZAE 132.85 ETE 167.39 ZAC 104.88 ETC 19.42 CLP-147.53

PLANETOCENTRIC CONIC

C3 12.514 VHL 3.538 DLA -29.50 RAL 153.89 RAD 6567.5 VEL 11.572 PTH 2.02 VHP 4.591 DPA 24.39 RAP 164.25 ECC 1.2059

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.38	8 23 31	1014.75	22.93	334.53	15.48	109.08	8 40 26	414.7	25.32	326.59
98.62	10 45 0	5845.83	22.94	278.88	15.48	109.07	12 22 26	5245.8	25.33	270.93
100.00	10 14 40	654.89	20.02	306.98	14.29	112.67	10 25 35	54.9	22.92	299.39
100.00	11 36 32	5680.92	25.91	267.67	16.49	105.46	13 11 13	5080.9	27.78	259.37
110.00	9 49 47	733.30	12.96	309.09	10.49	121.91	10 2 1	133.3	17.08	302.41
110.00	14 17 54	5175.28	33.72	231.03	18.20	95.99	15 44 9	4575.3	34.18	221.82

DIFFERENTIAL CORRECTIONS
TOE-1.7675 TRA -.5930 TC3-4.8532 BAU .8122
RDE .2434 RRA .0095 RC3 .1288 FAU .08464
FDE-2.4753 FRA .1039 FC3-5.8554 BSP 14321
BDE 1.7842 BRA .5931 BC3 4.8549 FSP -1599

MID-COURSE EXECUTION ACCURACY
SGT 4604.7 SGR 405.0 SG3 498.4
RRT -.7834 RRF -.8366 RTF .9596
SGB 4622.5 R23 .1329 R13 -.9601
SG1 4615.6 SG2 251.1 THA 176.05

ORBIT DETERMINATION ACCURACY
ST 2883.6 SR 394.3 SS 1591.0
CRT -.9944 CRS .9993 CST -.9916
LSA 3311.9 MSA 182.5 SSA 9.7
EL1 2910.2 EL2 41.2 ALF 172.26

LAUNCH DATE JUN 23 1967 FLIGHT TIME 162.00 ARRIVAL DATE DEC 2 1967

HELIOCENTRIC CONIC DISTANCE 462.180

RL 152.04 LAL .00 LOL 270.87 VL 26.601 GAL -.80 AZL 94.45 HCA 216.06 SMA 127.83 ECC .18986 INC 4.4517 V1 29.302
RP 107.48 LAP 2.62 LOP 126.85 VP 37.834 GAP 6.01 AZP 86.40 TAL 183.42 TAP 39.49 RCA 103.56 APO 152.11 V2 35.258
RC 128.066 GL -36.17 GP 11.56 ZAL 97.75 ZAP 147.46 ETS 19.24 ZAE 132.40 ETE 169.08 ZAC 104.02 ETC 18.58 CLP-149.37

PLANETOCENTRIC CONIC

C3 12.238 VHL 3.498 DLA -29.51 RAL 156.47 RAD 6567.5 VEL 11.560 PTH 2.02 VHP 4.720 DPA 22.57 RAP 165.04 ECC 1.2014

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.32	8 33 17	1011.68	23.05	334.35	17.73	108.96	8 50 8	411.7	25.42	326.39
98.68	10 55 49	5839.41	23.06	278.45	17.73	108.95	12 33 8	5239.4	25.43	270.49
100.00	10 25 52	647.21	20.23	306.50	16.58	112.49	10 36 40	47.2	23.10	298.88
100.00	11 45 54	5679.12	25.94	267.55	18.71	105.40	13 20 33	5079.1	27.80	259.24
110.00	10 0 19	727.73	13.16	308.79	12.80	121.84	10 12 27	127.7	17.27	302.09
110.00	14 27 56	5171.37	33.75	230.73	20.39	95.81	15 54 8	4571.4	34.18	221.51

DIFFERENTIAL CORRECTIONS
TOE-1.7987 TRA -.4958 TC3-5.1045 BAU .8352
RDE .2261 RRA .0095 RC3 .0619 FAU .07971
FDE-2.3224 FRA .2299 FC3-5.6392 BSP 14678
BDE 1.8129 BRA .4959 BC3 5.1048 FSP -1520

MID-COURSE EXECUTION ACCURACY
SGT 4722.7 SGR 373.3 SG3 475.0
RRT -.7160 RRF -.7659 RTF .9588
SGB 4737.4 R23 .1107 R13 -.9591
SG1 4730.3 SG2 260.2 THA 176.75

ORBIT DETERMINATION ACCURACY
ST 2961.2 SR 370.4 SS 1553.0
CRT -.9962 CRS .9984 CST -.9917
LSA 3359.4 MSA 178.1 SSA 10.8
EL1 2984.1 EL2 31.8 ALF 172.90

LAUNCH DATE JUN 23 1967 FLIGHT TIME 164.00 ARRIVAL DATE DEC 4 1967

HELIOCENTRIC CONIC DISTANCE 468.200

RL 152.04 LAL .00 LOL 270.87 VL 26.564 GAL -.53 AZL 94.32 HCA 219.31 SMA 127.60 ECC .19179 INC 4.3228 V1 29.302
RP 107.48 LAP 2.74 LOP 130.10 VP 37.809 GAP 6.35 AZP 86.65 TAL 182.24 TAP 41.55 RCA 103.12 APO 152.07 V2 35.259
RC 130.261 GL -35.22 GP 10.41 ZAL 95.71 ZAP 149.45 ETS 18.58 ZAE 131.93 ETE 170.46 ZAC 102.96 ETC 17.82 CLP-151.12

PLANETOCENTRIC CONIC

C3 12.051 VHL 3.471 DLA -29.63 RAL 159.14 RAD 6567.5 VEL 11.552 PTH 2.02 VHP 4.859 DPA 20.94 RAP 166.03 ECC 1.1983

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.88	8 40 32	1019.26	23.21	334.97	20.20	108.96	8 57 31	419.3	25.58	327.00
99.12	11 9 50	5825.34	23.22	277.47	20.20	108.95	12 46 55	5225.3	25.59	269.50
100.00	10 43 25	621.74	20.88	304.89	19.27	111.89	10 53 47	21.7	23.67	297.20
100.00	11 49 37	5698.09	25.59	268.85	21.02	106.00	13 24 35	5098.1	27.54	260.59
110.00	10 12 39	718.76	13.48	308.29	15.36	121.71	10 24 38	118.8	17.58	301.57
110.00	14 36 53	5173.83	33.73	230.92	22.84	95.92	16 3 7	4573.8	34.18	221.71

DIFFERENTIAL CORRECTIONS
TOE-1.8383 TRA -.3929 TC3-5.3195 BAU .8570
RDE .2152 RRA .0114 RC3 .0051 FAU .07483
FDE-2.1910 FRA .3410 FC3-5.3760 BSP 15071
BDE 1.8509 BRA .3931 BC3 5.3195 FSP -1453

MID-COURSE EXECUTION ACCURACY
SGT 4837.6 SGR 355.8 SG3 452.5
RRT -.6430 RRF -.6888 RTF .9581
SGB 4850.7 R23 .0924 R13 -.9584
SG1 4843.1 SG2 272.2 THA 177.28

ORBIT DETERMINATION ACCURACY
ST 3044.3 SR 355.2 SS 1520.9
CRT -.9978 CRS .9969 CST -.9919
LSA 3417.2 MSA 173.4 SSA 11.9
EL1 3064.9 EL2 23.3 ALF 173.36

LAUNCH DATE JUN 23 1967 FLIGHT TIME 166.00 ARRIVAL DATE DEC 6 1967

DISTANCE 474.199

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.527 GAL -.25 AZL 94.21 HCA 222.56 SMA 127.36 ECC .19387 INC 4.2107 V1 29.302
RP 107.48 LAP 2.85 LOP 133.35 VP 37.783 GAP 6.69 AZP 86.90 TAL 181.03 TAP 43.59 RCA 102.67 APO 152.05 V2 35.259
RC 132.447 GL -34.30 GP 9.44 ZAL 93.55 ZAP 151.30 ETS 18.03 ZAE 131.47 ETE 171.60 ZAC 101.74 ETC 17.15 CLP-152.77

PLANETOCENTRIC CONIC
C3 11.944 VHL 3.456 DLA -29.83 RAL 161.90 RAD 6567.5 VEL 11.547 PTH 2.02 VHP 5.004 DPA 19.43 RAP 167.16 ECC 1.1966

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.22	8 46 24	1033.77	23.40	336.12	22.88	109.05	9 3 38	433.8	25.78	328.14
99.78	11 25 57	5807.06	23.41	276.19	22.88	109.03	13 2 44	5207.1	25.79	268.20
100.00	11 10 53	5855.17	22.23	279.30	22.42	110.52	12 48 28	5255.2	24.82	271.46
100.00	11 44 9	5748.93	24.59	272.29	23.31	107.56	13 19 58	5148.9	26.76	264.17
110.00	10 26 27	707.50	13.88	307.67	18.14	121.56	10 38 14	107.5	17.95	300.92
110.00	14 45 5	5181.33	33.67	231.50	25.50	96.26	16 11 26	4581.3	34.17	222.29

DIFFERENTIAL CORRECTIONS
TDE-1.8852 TRA -.2863 TC3-5.5088 BAU .8797
RDE .2089 RRA .0147 RC3 -.0409 FAU .07041
FDE-2.0771 FRA .4357 FC3-5.1038 BSP 15512
BDE 1.8967 BRA .2867 BC3 5.5089 FSP -1397

MID-COURSE EXECUTION ACCURACY
SGT 4956.4 SGR 348.6 SG3 432.0
RRT -.5731 RRF -.6136 RTF .9580
SGB 4968.6 R23 .0766 R13 -.9582
SG1 4960.4 SG2 285.5 THA 177.68

ORBIT DETERMINATION ACCURACY
ST 3131.8 SR 346.4 SS 1493.3
CRT -.9988 CRS .9948 CST -.9922
LSA 3482.7 MSA 168.2 SSA 13.0
EL1 3150.8 EL2 16.5 ALF 173.69

LAUNCH DATE JUN 23 1967 FLIGHT TIME 168.00 ARRIVAL DATE DEC 8 1967

DISTANCE 480.179

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.490 GAL .05 AZL 94.11 HCA 225.80 SMA 127.11 ECC .19610 INC 4.1115 V1 29.302
RP 107.48 LAP 2.95 LOP 136.60 VP 37.756 GAP 7.02 AZP 87.13 TAL 179.80 TAP 45.60 RCA 102.19 APO 152.04 V2 35.258
RC 134.624 GL -33.39 GP 8.63 ZAL 91.27 ZAP 153.02 ETS 17.59 ZAE 131.03 ETE 172.55 ZAC 100.39 ETC 16.54 CLP-154.34

PLANETOCENTRIC CONIC
C3 11.911 VHL 3.451 DLA -30.07 RAL 164.75 RAD 6567.5 VEL 11.545 PTH 2.02 VHP 5.155 DPA 18.03 RAP 168.43 ECC 1.1960

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.43	8 51 47	1052.30	23.60	337.57	25.76	109.21	9 9 20	452.3	26.00	329.58
100.57	11 43 19	5787.38	23.61	274.80	25.77	109.19	13 19 46	5187.4	26.01	266.80
79.43	8 51 47	1052.30	23.60	337.57	25.76	109.21	9 9 20	452.3	26.00	329.58
100.57	11 43 19	5787.38	23.61	274.80	25.77	109.19	13 19 46	5187.4	26.01	266.80
110.00	10 41 28	694.75	14.33	306.96	21.14	121.37	10 53 3	94.8	18.38	300.18
110.00	14 52 49	5192.92	33.58	232.39	28.38	96.78	16 19 22	4592.9	34.16	223.20

DIFFERENTIAL CORRECTIONS
TDE-1.9148 TRA -.1575 TC3-5.5934 BAU .8908
RDE .2039 RRA .0175 RC3 -.0849 FAU .06445
FDE-1.9319 FRA .5457 FC3-4.6847 BSP 15386
BDE 1.9257 BRA .1585 BC3 5.5940 FSP -1248

MID-COURSE EXECUTION ACCURACY
SGT 5010.3 SGR 345.2 SG3 403.8
RRT -.4973 RRF -.5338 RTF .9551
SGB 5022.1 R23 .0658 R13 -.9553
SG1 5013.2 SG2 299.3 THA 178.03

ORBIT DETERMINATION ACCURACY
ST 3182.3 SR 338.7 SS 1436.0
CRT -.9991 CRS .9913 CST -.9920
LSA 3503.8 MSA 165.1 SSA 14.0
EL1 3200.3 EL2 14.0 ALF 173.93

LAUNCH DATE JUN 23 1967 FLIGHT TIME 170.00 ARRIVAL DATE DEC 10 1967

DISTANCE 486.138

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.452 GAL .36 AZL 94.02 HCA 229.05 SMA 126.87 ECC .19849 INC 4.0228 V1 29.302
RP 107.48 LAP 3.04 LOP 139.85 VP 37.728 GAP 7.37 AZP 87.36 TAL 178.54 TAP 47.60 RCA 101.69 APO 152.05 V2 35.256
RC 136.791 GL -32.46 GP 7.93 ZAL 88.89 ZAP 154.65 ETS 17.24 ZAE 130.62 ETE 173.35 ZAC 98.92 ETC 15.98 CLP-155.84

PLANETOCENTRIC CONIC
C3 11.951 VHL 3.457 DLA -30.35 RAL 167.69 RAD 6567.5 VEL 11.547 PTH 2.02 VHP 5.312 DPA 16.71 RAP 169.81 ECC 1.1967

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.60	8 57 19	1072.74	23.79	339.17	28.83	109.43	9 15 11	472.7	26.22	331.18
101.40	12 1 14	5768.34	23.80	273.45	28.83	109.41	13 37 23	5168.3	26.23	265.45
78.60	8 57 19	1072.74	23.79	339.17	28.83	109.43	9 15 11	472.7	26.22	331.18
101.40	12 1 14	5768.34	23.80	273.45	28.83	109.41	13 37 23	5168.3	26.23	265.45
110.00	10 57 24	681.46	14.80	306.21	24.34	121.17	11 8 45	81.5	18.82	299.40
110.00	15 0 20	5207.62	33.46	233.52	31.46	97.44	16 27 7	4607.6	34.13	224.34

DIFFERENTIAL CORRECTIONS
TDE-1.9777 TRA -.0372 TC3-5.7507 BAU .9190
RDE .2051 RRA .0222 RC3 -.1098 FAU .06162
FDE-1.8587 FRA .6170 FC3-4.4636 BSP 16162
BDE 1.9884 BRA .0434 BC3 5.7518 FSP -1264

MID-COURSE EXECUTION ACCURACY
SGT 5153.5 SGR 350.9 SG3 390.4
RRT -.4509 RRF -.4807 RTF .9569
SGB 5165.4 R23 .0534 R13 -.9570
SG1 5155.9 SG2 313.1 THA 178.23

ORBIT DETERMINATION ACCURACY
ST 3280.1 SR 340.2 SS 1423.9
CRT -.9986 CRS .9877 CST -.9926
LSA 3588.4 MSA 159.4 SSA 15.0
EL1 3297.6 EL2 18.0 ALF 174.09

LAUNCH DATE JUN 23 1967 FLIGHT TIME 172.00 ARRIVAL DATE DEC 12 1967

DISTANCE 492.076

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.414 GAL .69 AZL 93.94 HCA 232.30 SMA 126.63 ECC .20106 INC 3.9423 V1 29.302
RP 107.49 LAP 3.12 LOP 143.10 VP 37.699 GAP 7.71 AZP 87.59 TAL 177.27 TAP 49.57 RCA 101.17 APO 152.09 V2 35.254
RC 138.949 GL -31.52 GP 7.33 ZAL 86.42 ZAP 156.18 ETS 16.97 ZAE 130.23 ETE 174.02 ZAC 97.35 ETC 15.48 CLP-157.27

PLANETOCENTRIC CONIC
C3 12.064 VHL 3.473 DLA -30.64 RAL 170.71 RAD 6567.5 VEL 11.552 PTH 2.02 VHP 5.475 DPA 15.44 RAP 171.28 ECC 1.1985

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.78	9 3 24	1093.70	23.96	340.81	32.08	109.69	9 21 37	493.7	26.42	332.81
102.22	12 19 17	5751.36	23.97	272.25	32.08	109.68	13 55 9	5151.4	26.43	264.25
77.78	9 3 24	1093.70	23.96	340.81	32.08	109.69	9 21 37	493.7	26.42	332.81
102.22	12 19 17	5751.36	23.97	272.25	32.08	109.68	13 55 9	5151.4	26.43	264.25
110.00	11 14 4	668.25	15.27	305.47	27.72	120.96	11 25 12	68.2	19.26	298.62
110.00	15 7 48	5224.80	33.30	234.84	34.72	98.20	16 34 52	4624.8	34.08	225.68

DIFFERENTIAL CORRECTIONS
TDE-2.0253 TRA .1026 TC3-5.7989 BAU .9355
RDE .2071 RRA .0262 RC3 -.1333 FAU .05740
FDE-1.7615 FRA .6983 FC3-4.1192 BSP 16390
BDE 2.0358 BRA .1059 BC3 5.8004 FSP -1195

MID-COURSE EXECUTION ACCURACY
SGT 5237.1 SGR 357.5 SG3 370.9
RRT -.4050 RRF -.4304 RTF .9563
SGB 5249.3 R23 .0454 R13 -.9564
SG1 5239.1 SG2 326.8 THA 178.41

ORBIT DETERMINATION ACCURACY
ST 3343.5 SR 342.0 SS 1388.1
CRT -.9971 CRS .9829 CST -.9928
LSA 3633.0 MSA 155.6 SSA 16.0
EL1 3360.9 EL2 25.8 ALF 174.18

LAUNCH DATE JUN 23 1967 FLIGHT TIME 174.00 ARRIVAL DATE DEC 14 1967

HELIOCENTRIC CONIC DISTANCE 497.991

RL 152.04 LAL .00 LOL 270.87 VL 26.375 GAL 1.03 AZL 93.87 HCA 235.54 SMA 126.38 ECC .20380 INC 3.8687 V1 29.302
RP 107.50 LAP 3.19 LOP 146.35 VP 37.669 GAP 8.06 AZP 87.81 TAL 175.98 TAP 51.53 RCA 100.62 APO 152.14 V2 35.251
RC 141.095 GL -30.55 GP 6.81 ZAL 83.88 ZAP 157.63 ETS 16.79 ZAE 129.87 ETE 174.59 ZAC 95.69 ETC 15.03 CLP-158.65

PLANETOCENTRIC CONIC

C3 12.253 VHL 3.500 DLA -30.92 RAL 173.81 RAD 6567.5 VEL 11.560 PTH 2.02 VHP 5.643 DPA 14.22 RAP 172.82 ECC 1.2017

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.02	9 10 15	1114.42	24.10	342.42	35.49	109.99	9 28 49	514.4	26.60	334.43
102.98	12 37 9	5737.21	24.11	271.24	35.50	109.98	14 12 47	5137.2	26.61	263.24
77.02	9 10 15	1114.42	24.10	342.42	35.49	109.99	9 28 49	514.4	26.60	334.43
102.98	12 37 9	5737.21	24.11	271.24	35.50	109.98	14 12 47	5137.2	26.61	263.24
110.00	11 31 10	655.96	15.70	304.78	31.26	120.76	11 42 6	56.0	19.66	297.90
110.00	15 15 25	5243.67	33.11	236.28	38.15	99.03	16 42 49	4643.7	34.00	227.15

DIFFERENTIAL CORRECTIONS
TDE-2.0789 TRA .2465 TC3-5.8228 BAU .9542
RDE .2117 RRA .0304 RC3 -.1490 FAU .05378
FDE-1.6790 FRA .7660 FC3-3.7993 BSP 16734
BDE 2.0897 BRA .2484 BC3 5.8247 FSP -1146

MID-COURSE EXECUTION ACCURACY
SGT 5330.8 SGR 366.4 SG3 353.8
RRT -.3719 RRF -.3933 RTF .9567
SGB 5343.4 R23 .0388 R13 -.9568
SG1 5332.6 SG2 340.0 THA 178.53

ORBIT DETERMINATION ACCURACY
ST 3407.9 SR 346.9 SS 1357.5
CRT -.9948 CRS .9777 CST -.9932
LSA 3681.5 MSA 151.6 SSA 16.8
EL1 3425.3 EL2 35.1 ALF 174.22

LAUNCH DATE JUN 23 1967 FLIGHT TIME 176.00 ARRIVAL DATE DEC 16 1967

HELIOCENTRIC CONIC DISTANCE 503.882

RL 152.04 LAL .00 LOL 270.87 VL 26.337 GAL 1.38 AZL 93.80 HCA 238.79 SMA 126.14 ECC .20674 INC 3.8006 V1 29.302
RP 107.51 LAP 3.25 LOP 149.60 VP 37.639 GAP 8.41 AZP 88.03 TAL 174.68 TAP 53.47 RCA 100.06 APO 152.21 V2 35.247
RC 143.232 GL -29.55 GP 6.36 ZAL 81.28 ZAP 159.02 ETS 16.69 ZAE 129.54 ETE 175.08 ZAC 93.96 ETC 14.61 CLP-159.96

PLANETOCENTRIC CONIC

C3 12.523 VHL 3.539 DLA -31.19 RAL 176.97 RAD 6567.5 VEL 11.572 PTH 2.02 VHP 5.817 DPA 13.03 RAP 174.44 ECC 1.2061

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.34	9 17 59	1134.42	24.19	343.96	39.06	110.32	9 36 54	534.4	26.73	335.98
103.66	12 54 39	5726.46	24.20	270.47	39.06	110.31	14 30 5	5126.5	26.74	262.48
76.34	9 17 59	1134.42	24.19	343.96	39.06	110.32	9 36 54	534.4	26.73	335.98
103.66	12 54 39	5726.46	24.20	270.47	39.06	110.31	14 30 5	5126.5	26.74	262.48
110.00	11 48 27	645.33	16.07	304.17	34.94	120.59	11 59 12	45.3	20.00	297.27
110.00	15 23 22	5263.55	32.89	237.79	41.73	99.90	16 51 5	4663.5	33.90	228.70

DIFFERENTIAL CORRECTIONS
TDE-2.1301 TRA .4024 TC3-5.7950 BAU .9706
RDE .2179 RRA .0340 RC3 -.1594 FAU .05013
FDE-1.5976 FRA .8323 FC3-3.4659 BSP 17018
BDE 2.1412 BRA .4039 BC3 5.7972 FSP -1094

MID-COURSE EXECUTION ACCURACY
SGT 5412.6 SGR 376.0 SG3 336.7
RRT -.3465 RRF -.3647 RTF .9567
SGB 5425.7 R23 .0339 R13 -.9568
SG1 5414.2 SG2 352.6 THA 178.62

ORBIT DETERMINATION ACCURACY
ST 3458.6 SR 353.4 SS 1322.1
CRT -.9917 CRS .9717 CST -.9934
LSA 3716.5 MSA 149.0 SSA 17.6
EL1 3476.3 EL2 45.2 ALF 174.21

LAUNCH DATE JUN 23 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 18 1967

HELIOCENTRIC CONIC DISTANCE 509.748

RL 152.04 LAL .00 LOL 270.87 VL 26.298 GAL 1.76 AZL 93.74 HCA 242.04 SMA 125.89 ECC .20988 INC 3.7370 V1 29.302
RP 107.53 LAP 3.30 LOP 152.85 VP 37.607 GAP 8.77 AZP 88.25 TAL 173.36 TAP 55.39 RCA 99.47 APO 152.31 V2 35.243
RC 145.356 GL -28.52 GP 5.96 ZAL 78.64 ZAP 160.34 ETS 16.67 ZAE 129.23 ETE 175.50 ZAC 92.16 ETC 14.23 CLP-161.23

PLANETOCENTRIC CONIC

C3 12.878 VHL 3.589 DLA -31.44 RAL 180.18 RAD 6567.5 VEL 11.587 PTH 2.03 VHP 5.998 DPA 11.87 RAP 176.11 ECC 1.2119

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.75	9 26 40	1153.41	24.23	345.41	42.76	110.67	9 45 53	553.4	26.82	337.44
104.25	13 11 35	5719.45	24.24	269.95	42.77	110.66	14 46 55	5119.5	26.83	261.98
75.75	9 26 40	1153.41	24.23	345.41	42.76	110.67	9 45 53	553.4	26.82	337.44
104.25	13 11 35	5719.45	24.24	269.95	42.77	110.66	14 46 55	5119.5	26.83	261.98
110.00	12 5 37	637.15	16.35	303.71	38.75	120.45	12 16 14	37.1	20.27	296.78
110.00	15 31 48	5283.71	32.64	239.31	45.45	100.77	16 59 52	4683.7	33.78	230.26

DIFFERENTIAL CORRECTIONS
TDE-2.1774 TRA .5717 TC3-5.7181 BAU .9849
RDE .2258 RRA .0371 RC3 -.1646 FAU .04663
FDE-1.5174 FRA .8974 FC3-3.1349 BSP 17215
BDE 2.1891 BRA .5729 BC3 5.7204 FSP -1038

MID-COURSE EXECUTION ACCURACY
SGT 5483.9 SGR 385.7 SG3 320.4
RRT -.3284 RRF -.3434 RTF .9566
SGB 5497.4 R23 .0296 R13 -.9566
SG1 5485.4 SG2 364.2 THA 178.67

ORBIT DETERMINATION ACCURACY
ST 3493.5 SR 361.2 SS 1282.8
CRT -.9878 CRS .9650 CST -.9936
LSA 3736.1 MSA 147.8 SSA 18.1
EL1 3511.7 EL2 55.9 ALF 174.17

LAUNCH DATE JUN 23 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 20 1967

HELIOCENTRIC CONIC DISTANCE 515.586

RL 152.04 LAL .00 LOL 270.87 VL 26.259 GAL 2.15 AZL 93.68 HCA 245.28 SMA 125.65 ECC .21325 INC 3.6772 V1 29.302
RP 107.54 LAP 3.34 LOP 156.10 VP 37.575 GAP 9.14 AZP 88.46 TAL 172.02 TAP 57.30 RCA 98.85 APO 152.44 V2 35.237
RC 147.469 GL -27.45 GP 5.61 ZAL 75.97 ZAP 161.61 ETS 16.73 ZAE 128.95 ETE 175.85 ZAC 90.30 ETC 13.89 CLP-162.46

PLANETOCENTRIC CONIC

C3 13.326 VHL 3.651 DLA -31.64 RAL 183.42 RAD 6567.5 VEL 11.607 PTH 2.03 VHP 6.185 DPA 10.72 RAP 177.84 ECC 1.2193

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.27	9 36 17	1171.21	24.19	346.74	46.58	111.03	9 55 48	571.2	26.83	338.79
104.73	13 27 50	5716.43	24.21	269.71	46.59	111.02	15 3 7	5116.4	26.84	261.76
75.27	9 36 17	1171.21	24.19	346.74	46.58	111.03	9 55 48	571.2	26.83	338.79
104.73	13 27 50	5716.43	24.21	269.71	46.59	111.02	15 3 7	5116.4	26.84	261.76
110.00	12 22 22	632.20	16.52	303.42	42.65	120.36	12 32 54	32.2	20.43	296.48
110.00	15 40 55	5303.44	32.38	240.79	49.30	101.61	17 9 19	4703.4	33.64	231.78

DIFFERENTIAL CORRECTIONS
TDE-2.2265 TRA .7478 TC3-5.6099 BAU .9999
RDE .2355 RRA .0397 RC3 -.1647 FAU .04344
FDE-1.4452 FRA .9543 FC3-2.8218 BSP 17487
BDE 2.2389 BRA .7488 BC3 5.6123 FSP -993

MID-COURSE EXECUTION ACCURACY
SGT 5557.7 SGR 395.6 SG3 305.3
RRT -.3177 RRF -.3305 RTF .9569
SGB 5571.8 R23 .0266 R13 -.9569
SG1 5559.1 SG2 375.0 THA 178.70

ORBIT DETERMINATION ACCURACY
ST 3521.1 SR 370.3 SS 1245.0
CRT -.9834 CRS .9582 CST -.9938
LSA 3750.1 MSA 147.2 SSA 18.6
EL1 3539.9 EL2 66.9 ALF 174.09

LAUNCH DATE JUN 23 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 22 1967

DISTANCE 521.396

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.219 GAL 2.56 AZL 93.62 HCA 248.52 SMA 125.40 ECC .21686 INC 3.6204 V1 29.302
RP 107.56 LAP 3.37 LOP 159.35 VP 37.542 GAP 9.52 AZP 88.67 TAL 170.68 TAP 59.20 RCA 98.21 APO 152.60 V2 35.231
RC 149.570 GL -26.36 GP 5.29 ZAL 73.29 ZAP 162.83 ETS 16.89 ZAE 128.70 ETE 176.16 ZAC 88.39 ETC 13.58 CLP-163.64

PLANETOCENTRIC CONIC
C3 13.876 VHL 3.725 DLA -31.79 RAL 186.68 RAD 6567.5 VEL 11.630 PTH 2.04 VHP 6.380 DPA 9.60 RAP 179.60 ECC 1.2284

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.90	9 46 48	1187.77	24.09	347.96	50.50	111.40	10 6 36	587.8	26.78	340.03
105.10	13 43 18	5717.52	24.10	269.75	50.50	111.39	15 18 36	5117.5	26.79	261.82
74.90	9 46 48	1187.77	24.09	347.96	50.50	111.40	10 6 36	587.8	26.78	340.03
105.10	13 43 18	5717.52	24.10	269.75	50.50	111.39	15 18 36	5117.5	26.79	261.82
110.00	12 38 24	631.23	16.55	303.37	46.61	120.34	12 48 56	31.2	20.46	296.42
110.00	15 50 52	5322.07	32.12	242.18	53.26	102.39	17 19 34	4722.1	33.49	233.21

DIFFERENTIAL CORRECTIONS
TOE-2.2731 TRA .9355 TC3-5.4622 BAU 1.0138
RDE .2467 RRA .0415 RC3 -.1610 FAU .04041
FDE-1.3757 FRA 1.0093 FC3-2.5211 BSP 17747
BDE 2.2864 BRA .9365 BC3 5.4645 FSP -952

MID-COURSE EXECUTION ACCURACY
SGT 5625.8 SGR 405.0 SG3 291.0
RRT -.3124 RRF -.3232 RTF .9571
SGB 5640.4 R23 .0240 R13 -.9572
SG1 5627.3 SG2 384.7 THA 178.71

ORBIT DETERMINATION ACCURACY
ST 3535.0 SR 380.2 SS 1205.2
CRT -.9784 CRS .9509 CST -.9940
LSA 3751.2 MSA 148.1 SSA 18.8
EL1 3554.6 EL2 78.1 ALF 173.99

LAUNCH DATE JUN 23 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 24 1967

DISTANCE 527.175

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.180 GAL 2.99 AZL 93.57 HCA 251.76 SMA 125.16 ECC .22073 INC 3.5661 V1 29.302
RP 107.58 LAP 3.39 LOP 162.60 VP 37.508 GAP 9.90 AZP 88.88 TAL 169.33 TAP 61.09 RCA 97.53 APO 152.79 V2 35.225
RC 151.657 GL -25.25 GP 5.02 ZAL 70.62 ZAP 164.00 ETS 17.15 ZAE 128.46 ETE 176.42 ZAC 86.43 ETC 13.31 CLP-164.79

PLANETOCENTRIC CONIC
C3 14.539 VHL 3.813 DLA -31.90 RAL 189.93 RAD 6567.6 VEL 11.659 PTH 2.05 VHP 6.582 DPA 8.49 RAP 181.41 ECC 1.2393

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.67	9 58 10	1203.11	23.90	349.04	54.50	111.77	10 18 13	603.1	26.65	341.14
105.33	13 57 53	5722.77	23.92	270.07	54.50	111.76	15 33 16	5122.8	26.66	262.17
74.67	9 58 10	1203.11	23.90	349.04	54.50	111.77	10 18 13	603.1	26.65	341.14
105.33	13 57 53	5722.77	23.92	270.07	54.50	111.76	15 33 16	5122.8	26.66	262.17
110.00	12 53 27	634.85	16.43	303.58	50.60	120.41	13 4 2	34.9	20.34	296.64
110.00	16 1 46	5339.02	31.86	243.43	57.32	103.09	17 30 45	4739.0	33.33	234.51

DIFFERENTIAL CORRECTIONS
TOE-2.3164 TRA 1.1345 TC3-5.2786 BAU 1.0264
RDE .2594 RRA .0424 RC3 -.1541 FAU .03752
FDE-1.3091 FRA 1.0610 FC3-2.2343 BSP 17985
BDE 2.3309 BRA 1.1353 BC3 5.2808 FSP -912

MID-COURSE EXECUTION ACCURACY
SGT 5687.9 SGR 413.9 SG3 277.3
RRT -.3114 RRF -.3205 RTF .9574
SGB 5702.9 R23 .0220 R13 -.9575
SG1 5689.3 SG2 393.3 THA 178.70

ORBIT DETERMINATION ACCURACY
ST 3534.5 SR 390.4 SS 1164.0
CRT -.9730 CRS .9433 CST -.9942
LSA 3738.6 MSA 150.3 SSA 18.8
EL1 3554.9 EL2 89.6 ALF 173.86

LAUNCH DATE JUN 23 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 26 1967

DISTANCE 532.921

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.141 GAL 3.44 AZL 93.51 HCA 255.01 SMA 124.92 ECC .22489 INC 3.5138 V1 29.302
RP 107.60 LAP 3.39 LOP 165.85 VP 37.474 GAP 10.30 AZP 89.09 TAL 167.97 TAP 62.97 RCA 96.83 APO 153.01 V2 35.217
RC 153.730 GL -24.11 GP 4.77 ZAL 67.96 ZAP 165.14 ETS 17.51 ZAE 128.24 ETE 176.65 ZAC 84.44 ETC 13.06 CLP-165.90

PLANETOCENTRIC CONIC
C3 15.326 VHL 3.915 DLA -31.94 RAL 193.16 RAD 6567.6 VEL 11.692 PTH 2.06 VHP 6.793 DPA 7.38 RAP 183.26 ECC 1.2522

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.56	10 10 21	1217.07	23.64	349.99	58.55	112.13	10 30 38	617.1	26.43	342.13
105.44	14 11 28	5732.36	23.65	270.68	58.56	112.12	15 47 0	5132.4	26.44	262.82
74.56	10 10 21	1217.07	23.64	349.99	58.55	112.13	10 30 38	617.1	26.43	342.13
105.44	14 11 28	5732.36	23.65	270.68	58.56	112.12	15 47 0	5132.4	26.44	262.82
110.00	13 7 18	643.53	16.13	304.07	54.60	120.56	13 18 1	43.5	20.06	297.16
110.00	16 13 41	5353.89	31.63	244.53	61.47	103.70	17 42 55	4753.9	33.19	235.65

DIFFERENTIAL CORRECTIONS
TOE-2.3532 TRA 1.3494 TC3-5.0549 BAU 1.0361
RDE .2733 RRA .0421 RC3 -.1449 FAU .03465
FDE-1.2428 FRA 1.1137 FC3-1.9574 BSP 18122
BDE 2.3690 BRA 1.3500 BC3 5.0570 FSP -868

MID-COURSE EXECUTION ACCURACY
SGT 5739.5 SGR 422.0 SG3 264.1
RRT -.3135 RRF -.3209 RTF .9574
SGB 5755.0 R23 .0203 R13 -.9575
SG1 5741.1 SG2 400.7 THA 178.67

ORBIT DETERMINATION ACCURACY
ST 3516.2 SR 400.6 SS 1120.2
CRT -.9669 CRS .9350 CST -.9943
LSA 3708.7 MSA 154.2 SSA 18.7
EL1 3537.5 EL2 101.5 ALF 173.71

LAUNCH DATE JUN 23 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 28 1967

DISTANCE 538.630

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 26.102 GAL 3.91 AZL 93.46 HCA 258.24 SMA 124.68 ECC .22935 INC 3.4631 V1 29.302
RP 107.63 LAP 3.39 LOP 169.09 VP 37.440 GAP 10.71 AZP 89.29 TAL 166.60 TAP 64.85 RCA 96.08 APO 153.27 V2 35.210
RC 155.789 GL -22.97 GP 4.54 ZAL 65.34 ZAP 166.23 ETS 18.01 ZAE 128.04 ETE 176.85 ZAC 82.41 ETC 12.85 CLP-166.99

PLANETOCENTRIC CONIC
C3 16.251 VHL 4.031 DLA -31.93 RAL 196.35 RAD 6567.7 VEL 11.732 PTH 2.07 VHP 7.014 DPA 6.29 RAP 185.13 ECC 1.2675

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.59	10 23 12	1229.87	23.29	350.80	62.65	112.49	10 43 42	629.9	26.13	342.98
105.41	14 24 2	5746.11	23.30	271.57	62.65	112.48	15 59 48	5146.1	26.14	263.75
74.59	10 23 12	1229.87	23.29	350.80	62.65	112.49	10 43 42	629.9	26.13	342.98
105.41	14 24 2	5746.11	23.30	271.57	62.65	112.48	15 59 48	5146.1	26.14	263.75
110.00	13 19 47	657.52	15.64	304.86	58.58	120.79	13 30 45	57.5	19.61	297.99
110.00	16 26 37	5366.46	31.42	245.45	65.68	104.21	17 56 4	4766.5	33.05	236.61

DIFFERENTIAL CORRECTIONS
TOE-2.3899 TRA 1.5723 TC3-4.8149 BAU 1.0465
RDE .2885 RRA .0409 RC3 -.1336 FAU .03207
FDE-1.1823 FRA 1.1608 FC3-1.7083 BSP 18331
BDE 2.4072 BRA 1.5728 BC3 4.8168 FSP -832

MID-COURSE EXECUTION ACCURACY
SGT 5791.5 SGR 429.5 SG3 251.9
RRT -.3194 RRF -.3255 RTF .9579
SGB 5807.4 R23 .0190 R13 -.9579
SG1 5793.1 SG2 406.9 THA 178.64

ORBIT DETERMINATION ACCURACY
ST 3489.3 SR 410.6 SS 1078.2
CRT -.9606 CRS .9267 CST -.9944
LSA 3671.6 MSA 158.8 SSA 18.4
EL1 3511.5 EL2 113.4 ALF 173.54

LAUNCH DATE JUN 23 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 30 1967

HELIOCENTRIC CONIC DISTANCE 544.298

```
RL  152.04 LAL    .00 LOL 270.87 VL  26.063 GAL   4.41 AZL  93.41 HCA 261.48 SMA 124.44 ECC .23414 INC 3.4136 VI  29.302
RP  107.65 LAP   3.38 LOP 172.33 VP  37.404 GAP  11.14 AZP  89.49 TAL 165.23 TAP  66.72 RCA  95.30 APO 153.58 V2  35.201
RC 157.834 GL  -21.82 GP    4.34 ZAL  62.76 ZAP 167.30 ETS  18.65 ZAE 127.85 ETE 177.02 ZAC  80.35 ETC  12.66 CLP-168.06
```

PLANETOCENTRIC CONIC

```
C3  17.332 VHL  4.163 DLA -31.86 RAL 199.48 RAD 6567.7 VEL 11.778 PTH   2.08 VHP  7.245 DPA   5.21 RAP 187.03 ECC 1.2852
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.74	10 36 44	1241.38	22.85	351.48	66.76	112.83	10 57 25	641.4	25.75	343.71
105.26	14 35 27	5764.19	22.87	272.75	66.77	112.82	16 11 31	5164.2	25.76	264.97
74.74	10 36 44	1241.38	22.85	351.48	66.76	112.83	10 57 25	641.4	25.75	343.71
105.26	14 35 27	5764.19	22.87	272.75	66.77	112.82	16 11 31	5164.2	25.76	264.97
110.00	13 30 52	676.78	14.97	305.95	62.53	121.10	13 42 9	76.8	18.98	299.13
110.00	16 40 29	5376.79	31.24	246.20	69.95	104.63	18 10 6	4776.8	32.94	237.39

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.4229 TRA 1.8088 TC3-4.5529 BAU 1.0553   SGT 5838.0 SGR  436.1 SG3  240.3     ST  3450.4 SR   420.1 SS  1036.2
RDE  .3050 RRA  .0385 RC3 -.1211 FAU .02958   RRT -.3278 RRF -.3326 RTF  .9582    CRT -.9539 CRS  .9179 CST -.9945
FDE-1.1244 FRA 1.2072 FC3-1.4776 BSP  18529   SGB 5854.2 R23  .0180 R13 -.9582   LSA 3623.3 MSA  164.6 SSA   18.0
BDE 2.4420 BRA 1.8092 BC3 4.5545 FSP   -798   SG1 5839.7 SG2  411.9 THA 178.59   EL1 3473.7 EL2  125.3 ALF 173.37
```

LAUNCH DATE JUN 23 1967 FLIGHT TIME 192.00 ARRIVAL DATE JAN 1 1968

HELIOCENTRIC CONIC DISTANCE 549.923

```
RL  152.04 LAL    .00 LOL 270.87 VL  26.024 GAL   4.94 AZL  93.37 HCA 264.72 SMA 124.20 ECC .23930 INC 3.3650 VI  29.302
RP  107.68 LAP   3.35 LOP 175.58 VP  37.369 GAP  11.58 AZP  89.69 TAL 163.86 TAP  68.58 RCA  94.48 APO 153.93 V2  35.192
RC 159.863 GL  -20.67 GP    4.16 ZAL  60.24 ZAP 168.34 ETS  19.48 ZAE 127.67 ETE 177.16 ZAC  78.26 ETC  12.51 CLP-169.10
```

PLANETOCENTRIC CONIC

```
C3  18.587 VHL  4.311 DLA -31.74 RAL 202.53 RAD 6567.8 VEL 11.831 PTH   2.10 VHP  7.488 DPA   4.14 RAP 188.95 ECC 1.3059
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.03	10 50 52	1251.54	22.34	352.01	70.88	113.15	11 11 44	651.5	25.28	344.30
104.97	14 45 40	5786.62	22.35	274.21	70.89	113.14	16 22 7	5186.6	25.29	266.49
75.03	10 50 52	1251.54	22.34	352.01	70.88	113.15	11 11 44	651.5	25.28	344.30
104.97	14 45 40	5786.62	22.35	274.21	70.89	113.14	16 22 7	5186.6	25.29	266.49
110.00	13 40 34	701.04	14.11	307.31	66.42	121.46	13 52 15	101.0	18.17	300.55
110.00	16 55 9	5385.11	31.10	246.81	74.27	104.96	18 24 54	4785.1	32.84	238.02

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.4522 TRA 2.0586 TC3-4.2754 BAU 1.0627   SGT 5878.7 SGR  441.8 SG3  229.3     ST  3400.6 SR   428.8 SS   994.9
RDE  .3224 RRA  .0347 RC3 -.1080 FAU .02723   RRT -.3382 RRF -.3418 RTF  .9587    CRT -.9466 CRS  .9087 CST -.9946
FDE-1.0692 FRA 1.2520 FC3-1.2683 BSP  18704   SGB 5895.3 R23  .0170 R13 -.9587   LSA 3564.9 MSA  171.3 SSA   17.6
BDE 2.4733 BRA 2.0589 BC3 4.2767 FSP   -766   SG1 5880.6 SG2  415.7 THA 178.54   EL1 3424.8 EL2  137.2 ALF 173.18
```

LAUNCH DATE JUN 23 1967 FLIGHT TIME 194.00 ARRIVAL DATE JAN 3 1968

HELIOCENTRIC CONIC DISTANCE 555.499

```
RL  152.04 LAL    .00 LOL 270.87 VL  25.985 GAL   5.49 AZL  93.32 HCA 267.95 SMA 123.97 ECC .24485 INC 3.3169 VI  29.302
RP  107.71 LAP   3.31 LOP 178.82 VP  37.333 GAP  12.04 AZP  89.88 TAL 162.49 TAP  70.45 RCA  93.62 APO 154.32 V2  35.183
RC 161.876 GL  -19.53 GP    4.00 ZAL  57.79 ZAP 169.35 ETS  20.54 ZAE 127.51 ETE 177.29 ZAC  76.16 ETC  12.38 CLP-170.12
```

PLANETOCENTRIC CONIC

```
C3  20.040 VHL  4.477 DLA -31.56 RAL 205.49 RAD 6567.8 VEL 11.892 PTH   2.11 VHP  7.744 DPA   3.08 RAP 190.90 ECC 1.3298
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.44	11 5 32	1260.44	21.74	352.41	74.99	113.46	11 26 32	660.4	24.73	344.75
104.56	14 54 39	5813.30	21.75	275.96	75.00	113.45	16 31 33	5213.3	24.74	268.29
75.44	11 5 32	1260.44	21.74	352.41	74.99	113.46	11 26 32	660.4	24.73	344.75
104.56	14 54 39	5813.30	21.75	275.96	75.00	113.45	16 31 33	5213.3	24.74	268.29
110.00	13 48 58	729.89	13.08	308.91	70.24	121.87	14 1 8	129.9	17.20	302.22
110.00	17 10 24	5391.86	30.98	247.30	78.61	105.23	18 40 15	4791.9	32.76	238.53

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.4743 TRA 2.3269 TC3-3.9790 BAU 1.0663   SGT 5910.7 SGR  446.5 SG3  218.9     ST  3337.6 SR   436.3 SS   953.3
RDE  .3407 RRA  .0295 RC3 -.0950 FAU .02487   RRT -.3498 RRF -.3519 RTF  .9589    CRT -.9386 CRS  .8985 CST -.9946
FDE-1.0147 FRA 1.2985 FC3-1.0745 BSP  18771   SGB 5927.6 R23  .0159 R13 -.9589   LSA 3493.8 MSA  179.1 SSA   17.1
BDE 2.4976 BRA 2.3271 BC3 3.9801 FSP   -730   SG1 5912.8 SG2  418.1 THA 178.48   EL1 3362.7 EL2  149.4 ALF 172.99
```

LAUNCH DATE JUN 23 1967 FLIGHT TIME 196.00 ARRIVAL DATE JAN 5 1968

HELIOCENTRIC CONIC DISTANCE 561.019

```
RL  152.04 LAL    .00 LOL 270.87 VL  25.947 GAL   6.07 AZL  93.27 HCA 271.19 SMA 123.74 ECC .25084 INC 3.2690 VI  29.302
RP  107.74 LAP   3.27 LOP 182.05 VP  37.296 GAP  12.52 AZP  90.07 TAL 161.13 TAP  72.32 RCA  92.70 APO 154.78 V2  35.172
RC 163.875 GL  -18.40 GP    3.85 ZAL  55.41 ZAP 170.33 ETS  21.88 ZAE 127.34 ETE 177.40 ZAC  74.03 ETC  12.29 CLP-171.13
```

PLANETOCENTRIC CONIC

```
C3  21.717 VHL  4.660 DLA -31.34 RAL 208.36 RAD 6567.9 VEL 11.962 PTH   2.13 VHP  8.015 DPA   2.02 RAP 192.86 ECC 1.3574
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.99	11 20 44	1267.86	21.07	352.66	79.08	113.75	11 41 52	667.9	24.10	345.05
104.01	15 2 18	5844.43	21.08	278.00	79.09	113.73	16 39 43	5244.4	24.11	270.39
75.99	11 20 44	1267.86	21.07	352.66	79.08	113.75	11 41 52	667.9	24.10	345.05
104.01	15 2 18	5844.43	21.08	278.00	79.09	113.73	16 39 43	5244.4	24.11	270.39
110.00	13 56 11	762.79	11.89	310.71	74.00	122.29	14 8 54	162.8	16.07	304.10
110.00	17 26 1	5397.49	30.88	247.71	82.96	105.45	18 55 59	4797.5	32.69	238.95

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.4978 TRA 2.6060 TC3-3.6852 BAU 1.0702   SGT 5941.4 SGR  450.3 SG3  209.1     ST  3272.4 SR   442.7 SS   915.2
RDE  .3599 RRA  .0229 RC3 -.0820 FAU .02273   RRT -.3635 RRF -.3645 RTF  .9595    CRT -.9304 CRS  .8884 CST -.9947
FDE -.9659 FRA 1.3420 FC3 -.9062 BSP  18932   SGB 5958.4 R23  .0150 R13 -.9595   LSA 3421.5 MSA  186.9 SSA   16.5
BDE 2.5236 BRA 2.6061 BC3 3.6861 FSP   -700   SG1 5943.6 SG2  419.3 THA 178.41   EL1 3298.3 EL2  161.0 ALF 172.81
```

LAUNCH DATE JUN 23 1967 FLIGHT TIME 198.00 ARRIVAL DATE JAN 7 1968

DISTANCE 566.478

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 25.908 GAL 6.69 AZL 93.22 HCA 274.42 SMA 123.51 ECC .25732 INC 3.2210 V1 29.302
RP 107.78 LAP 3.21 LOP 185.29 VP 37.260 GAP 13.03 AZP 90.25 TAL 159.77 TAP 74.19 RCA 91.73 APO 155.29 V2 35.162
RC 165.860 GL -17.30 GP 3.72 ZAL 53.12 ZAP 171.29 ETS 23.58 ZAE 127.19 ETE 177.49 ZAC 71.90 ETC 12.22 CLP-172.12

PLANETOCENTRIC CONIC
C3 23.649 VHL 4.863 DLA -31.06 RAL 211.11 RAD 6568.0 VEL 12.043 PTH 2.15 VHP 8.302 DPA .98 RAP 194.84 ECC 1.3892

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.66	11 36 30	1273.49	20.33	352.73	83.13	114.01	11 57 44	673.5	23.40	345.19
103.34	15 8 30	5880.23	20.34	280.35	83.14	114.00	16 46 30	5280.2	23.41	272.80
76.66	11 36 30	1273.49	20.33	352.73	83.13	114.01	11 57 44	673.5	23.40	345.19
103.34	15 8 30	5880.23	20.34	280.35	83.14	114.00	16 46 30	5280.2	23.41	272.80
110.00	14 2 21	799.19	10.56	312.69	77.67	122.70	14 15 41	199.2	14.80	306.15
110.00	17 41 50	5402.52	30.79	248.07	87.31	105.65	19 11 52	4802.5	32.62	239.33

DIFFERENTIAL CORRECTIONS
TDE-2.5186 TRA 2.9011 TC3-3.3902 BAU 1.0721
RDE .3799 RRA .0148 RC3 -.0697 FAU .02069
FDE -.9200 FRA 1.3855 FC3 -.7574 BSP 19070
BDE 2.5471 BRA 2.9012 BC3 3.3909 FSP -672

MID-COURSE EXECUTION ACCURACY
SGT 5966.6 SGR 453.2 SG3 199.8
RRT -.3785 RRF -.3782 RTF .9601
SGB 5983.8 R23 .0140 R13 -.9602
SG1 5969.1 SG2 419.3 THA 178.35

ORBIT DETERMINATION ACCURACY
ST 3201.3 SR 447.7 SS 879.1
CRT -.9216 CRS .8778 CST -.9947
LSA 3344.1 MSA 195.0 SSA 16.0
EL1 3227.8 EL2 172.4 ALF 172.64

LAUNCH DATE JUN 23 1967 FLIGHT TIME 200.00 ARRIVAL DATE JAN 9 1968

DISTANCE 571.867

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 25.870 GAL 7.34 AZL 93.17 HCA 277.64 SMA 123.28 ECC .26432 INC 3.1727 V1 29.302
RP 107.81 LAP 3.14 LOP 188.52 VP 37.223 GAP 13.56 AZP 90.42 TAL 158.42 TAP 76.07 RCA 90.70 APO 155.87 V2 35.151
RC 167.829 GL -16.21 GP 3.60 ZAL 50.91 ZAP 172.23 ETS 25.78 ZAE 127.03 ETE 177.57 ZAC 69.75 ETC 12.19 CLP-173.11

PLANETOCENTRIC CONIC
C3 25.874 VHL 5.087 DLA -30.75 RAL 213.75 RAD 6568.0 VEL 12.135 PTH 2.17 VHP 8.607 DPA -.05 RAP 196.83 ECC 1.4258

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.47	11 52 50	1277.25	19.53	352.63	87.14	114.24	12 14 8	677.3	22.63	345.15
102.53	15 13 13	632.65	19.54	305.10	87.15	114.23	15 23 46	32.7	22.65	297.61
77.47	11 52 50	1277.25	19.53	352.63	87.14	114.24	12 14 8	677.3	22.63	345.15
102.53	15 13 13	632.65	19.54	305.10	87.15	114.23	15 23 46	32.7	22.65	297.61
110.00	14 7 37	838.55	9.10	314.81	81.28	123.09	14 21 36	238.5	13.40	308.34
110.00	17 57 37	5407.40	30.70	248.42	91.63	105.83	19 27 44	4807.4	32.56	239.70

DIFFERENTIAL CORRECTIONS
TDE-2.5369 TRA 3.2138 TC3-3.0965 BAU 1.0713
RDE .4005 RRA .0051 RC3 -.0582 FAU .01872
FDE -.8770 FRA 1.4294 FC3 -.6265 BSP 19189
BDE 2.5683 BRA 3.2138 BC3 3.0971 FSP -646

MID-COURSE EXECUTION ACCURACY
SGT 5986.1 SGR 455.1 SG3 191.1
RRT -.3944 RRF -.3928 RTF .9609
SGB 6003.4 R23 .0130 R13 -.9609
SG1 5988.8 SG2 418.0 THA 178.27

ORBIT DETERMINATION ACCURACY
ST 3125.9 SR 451.1 SS 845.3
CRT -.9122 CRS .8668 CST -.9948
LSA 3263.1 MSA 203.2 SSA 15.5
EL1 3153.0 EL2 183.3 ALF 172.47

LAUNCH DATE JUN 23 1967 FLIGHT TIME 202.00 ARRIVAL DATE JAN 11 1968

DISTANCE 577.178

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 25.832 GAL 8.04 AZL 93.12 HCA 280.87 SMA 123.06 ECC .27191 INC 3.1236 V1 29.302
RP 107.84 LAP 3.07 LOP 191.75 VP 37.186 GAP 14.13 AZP 90.59 TAL 157.09 TAP 77.96 RCA 89.60 APO 156.52 V2 35.139
RC 169.783 GL -15.15 GP 3.49 ZAL 48.79 ZAP 173.14 ETS 28.65 ZAE 126.87 ETE 177.64 ZAC 67.60 ETC 12.18 CLP-174.09

PLANETOCENTRIC CONIC
C3 28.436 VHL 5.333 DLA -30.41 RAL 216.27 RAD 6568.1 VEL 12.240 PTH 2.20 VHP 8.932 DPA -1.07 RAP 198.83 ECC 1.4680

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.43	12 9 53	1278.53	18.66	352.31	91.10	114.45	12 31 11	678.5	21.81	344.89
101.57	15 16 16	678.31	18.68	308.11	91.11	114.44	15 27 34	78.3	21.82	300.68
78.43	12 9 53	1278.53	18.66	352.31	91.10	114.45	12 31 11	678.5	21.81	344.89
101.57	15 16 16	678.31	18.68	308.11	91.11	114.44	15 27 34	78.3	21.82	300.68
110.00	14 12 5	880.39	7.54	317.04	84.80	123.44	14 26 46	280.4	11.89	310.64
110.00	18 13 14	5412.49	30.60	248.79	95.94	106.03	19 43 26	4812.5	32.49	240.08

DIFFERENTIAL CORRECTIONS
TDE-2.5501 TRA 3.5485 TC3-2.8031 BAU 1.0658
RDE .4215 RRA -.0064 RC3 -.0481 FAU .01675
FDE -.8354 FRA 1.4757 FC3 -.5100 BSP 19203
BDE 2.5847 BRA 3.5485 BC3 2.8035 FSP -616

MID-COURSE EXECUTION ACCURACY
SGT 5998.9 SGR 455.8 SG3 182.9
RRT -.4106 RRF -.4076 RTF .9617
SGB 6016.2 R23 .0118 R13 -.9617
SG1 6001.8 SG2 415.4 THA 178.20

ORBIT DETERMINATION ACCURACY
ST 3045.3 SR 452.9 SS 813.1
CRT -.9019 CRS .8546 CST -.9949
LSA 3177.3 MSA 211.5 SSA 14.9
EL1 3072.7 EL2 193.9 ALF 172.33

LAUNCH DATE JUN 23 1967 FLIGHT TIME 204.00 ARRIVAL DATE JAN 13 1968

DISTANCE 582.398

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 25.795 GAL 8.78 AZL 93.07 HCA 284.10 SMA 122.84 ECC .28016 INC 3.0735 V1 29.302
RP 107.88 LAP 2.98 LOP 194.98 VP 37.149 GAP 14.73 AZP 90.75 TAL 155.77 TAP 79.87 RCA 88.42 APO 157.25 V2 35.128
RC 171.722 GL -14.12 GP 3.39 ZAL 46.77 ZAP 174.02 ETS 32.48 ZAE 126.70 ETE 177.70 ZAC 65.45 ETC 12.22 CLP-175.06

PLANETOCENTRIC CONIC
C3 31.388 VHL 5.603 DLA -30.03 RAL 218.66 RAD 6568.3 VEL 12.360 PTH 2.23 VHP 9.281 DPA -2.07 RAP 200.84 ECC 1.5166

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.56	12 27 52	1276.41	17.75	351.72	95.01	114.63	12 49 8	676.4	20.93	344.35
100.44	15 17 21	729.94	17.77	311.52	95.01	114.62	15 29 31	129.9	20.94	304.15
79.56	12 27 52	1276.41	17.75	351.72	95.01	114.63	12 49 8	676.4	20.93	344.35
100.44	15 17 21	729.94	17.77	311.52	95.01	114.62	15 29 31	129.9	20.94	304.15
110.00	14 15 52	924.30	5.89	319.36	88.26	123.73	14 31 16	324.3	10.28	313.03
110.00	18 28 32	5418.09	30.50	249.19	100.20	106.25	19 58 50	4818.1	32.42	240.50

DIFFERENTIAL CORRECTIONS
TDE-2.5671 TRA 3.8987 TC3-2.5247 BAU 1.0596
RDE .4430 RRA -.0195 RC3 -.0389 FAU .01495
FDE -.7993 FRA 1.5210 FC3 -.4124 BSP 19311
BDE 2.6051 BRA 3.8988 BC3 2.5250 FSP -592

MID-COURSE EXECUTION ACCURACY
SGT 6008.7 SGR 455.7 SG3 175.1
RRT -.4281 RRF -.4239 RTF .9628
SGB 6025.9 R23 .0108 R13 -.9628
SG1 6011.9 SG2 411.6 THA 178.13

ORBIT DETERMINATION ACCURACY
ST 2967.9 SR 453.1 SS 785.1
CRT -.8915 CRS .8430 CST -.9950
LSA 3095.5 MSA 219.0 SSA 14.4
EL1 2995.4 EL2 203.4 ALF 172.21

LAUNCH DATE JUN 23 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 15 1968

HELIOCENTRIC CONIC DISTANCE 587.513

RL 152.04 LAL .00 LOL 270.87 VL 25.758 GAL 9.57 AZL 93.02 HCA 287.32 SMA 122.62 ECC .28914 INC 3.0220 V1 29.302
RP 107.92 LAP 2.88 LOP 198.21 VP 37.112 GAP 15.37 AZP 90.90 TAL 154.47 TAP 83.79 RCA 87.17 APO 158.08 V2 35.116
RC 173.647 GL -13.12 GP 3.29 ZAL 44.84 ZAP 174.85 ETS 37.70 ZAE 126.53 ETE 177.75 ZAC 63.30 ETC 12.28 CLP-176.04

PLANETOCENTRIC CONIC

C3 34.794 VHL 5.899 DLA -29.63 RAL 220.92 RAD 6568.4 VEL 12.497 PTH 2.26 VHP 9.655 DPA -3.06 RAP 202.86 ECC 1.5726

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.90	12 47 9	1269.60	16.80	350.75	98.85	114.77	13 8 19	669.6	20.00	343.44
99.10	15 16 8	788.67	16.81	315.42	98.85	114.76	15 29 16	188.7	20.01	308.11
100.00	14 49 31	873.79	13.76	320.21	97.33	116.80	15 4 5	273.8	17.24	313.15
100.00	15 56 27	659.71	19.90	307.28	100.29	112.78	16 7 27	59.7	22.81	299.70
110.00	14 19 2	969.90	4.16	321.76	91.64	123.96	14 35 12	369.9	8.59	315.48
110.00	18 43 25	5424.40	30.37	249.64	104.41	106.49	20 13 50	4824.4	32.33	240.97

DIFFERENTIAL CORRECTIONS
TDE-2.5837 TRA 4.2708 TC3-2.2564 BAU 1.0497
RDE .4648 RRA -.0344 RC3 -.0309 FAU .01321
FDE -.7661 FRA 1.5679 FC3 -.3288 BSP 19390
BDE 2.6252 BRA 4.2709 BC3 2.2566 FSP -569

MID-COURSE EXECUTION ACCURACY
SGT 6013.2 SGR 454.6 SG3 167.8
RRT -.4461 RRF -.4407 RTF .9640
SGB 6030.4 R23 .0097 R13 -.9641
SG1 6016.7 SG2 406.6 THA 178.06

ORBIT DETERMINATION ACCURACY
ST 2890.4 SR 451.7 SS 760.1
CRT -.8806 CRS .8312 CST -.9952
LSA 3014.2 MSA 225.8 SSA 13.9
EL1 2917.8 EL2 212.0 ALF 172.12

LAUNCH DATE JUN 23 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 17 1968

HELIOCENTRIC CONIC DISTANCE 592.507

RL 152.04 LAL .00 LOL 270.87 VL 25.721 GAL 10.41 AZL 92.97 HCA 290.54 SMA 122.41 ECC .29893 INC 2.9687 V1 29.302
RP 107.96 LAP 2.78 LOP 201.43 VP 37.075 GAP 16.05 AZP 91.04 TAL 153.21 TAP 83.74 RCA 85.82 APO 159.00 V2 35.103
RC 175.555 GL -12.15 GP 3.21 ZAL 43.02 ZAP 175.62 ETS 45.01 ZAE 126.35 ETE 177.79 ZAC 61.16 ETC 12.39 CLP-177.02

PLANETOCENTRIC CONIC

C3 38.730 VHL 6.223 DLA -29.20 RAL 223.06 RAD 6568.5 VEL 12.653 PTH 2.30 VHP 10.059 DPA -4.03 RAP 204.88 ECC 1.6374

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.55	13 8 35	1255.25	15.80	349.21	102.62	114.88	13 29 30	655.3	19.03	341.95
97.45	15 11 44	857.18	15.82	320.01	102.63	114.87	15 26 1	257.2	19.04	312.75
100.00	14 37 35	966.72	10.84	325.57	100.08	118.03	14 53 42	366.7	14.51	318.70
100.00	16 25 25	620.94	20.90	304.84	104.94	111.87	16 35 45	20.9	23.69	297.15
110.00	14 21 39	1016.89	2.37	324.22	94.95	124.11	14 38 36	416.9	6.83	317.98
110.00	18 57 50	5431.58	30.24	250.15	108.56	106.76	20 28 22	4831.6	32.23	241.51

DIFFERENTIAL CORRECTIONS
TDE-2.6009 TRA 4.6662 TC3-1.9999 BAU 1.0356
RDE .4869 RRA -.0511 RC3 -.0242 FAU .01152
FDE -.7361 FRA 1.6168 FC3 -.2576 BSP 19458
BDE 2.6461 BRA 4.6665 BC3 2.0001 FSP -547

MID-COURSE EXECUTION ACCURACY
SGT 6012.6 SGR 452.5 SG3 160.9
RRT -.4646 RRF -.4581 RTF .9655
SGB 6029.6 R23 .0085 R13 -.9655
SG1 6016.3 SG2 400.4 THA 177.99

ORBIT DETERMINATION ACCURACY
ST 2814.1 SR 448.5 SS 738.0
CRT -.8692 CRS .8193 CST -.9955
LSA 2934.5 MSA 231.9 SSA 13.4
EL1 2841.2 EL2 219.7 ALF 172.06

LAUNCH DATE JUN 23 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 19 1968

HELIOCENTRIC CONIC DISTANCE 597.359

RL 152.04 LAL .00 LOL 270.87 VL 25.685 GAL 11.32 AZL 92.91 HCA 293.76 SMA 122.20 ECC .30964 INC 2.9131 V1 29.302
RP 107.99 LAP 2.67 LOP 204.65 VP 37.038 GAP 16.79 AZP 91.17 TAL 151.97 TAP 85.73 RCA 84.36 APO 160.04 V2 35.091
RC 177.448 GL -11.22 GP 3.13 ZAL 41.30 ZAP 176.29 ETS 55.39 ZAE 126.15 ETE 177.83 ZAC 59.02 ETC 12.53 CLP-178.01

PLANETOCENTRIC CONIC

C3 43.292 VHL 6.580 DLA -28.76 RAL 225.06 RAD 6568.6 VEL 12.832 PTH 2.34 VHP 10.496 DPA -4.98 RAP 206.89 ECC 1.7125

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.75	13 34 22	1226.08	14.78	346.57	106.32	114.96	13 54 48	626.1	18.02	339.36
95.25	15 1 57	942.54	14.79	325.80	106.33	114.95	15 17 40	342.5	18.03	318.60
100.00	14 30 28	1043.94	8.34	329.93	102.99	118.81	14 47 52	443.9	12.12	323.19
100.00	16 48 31	5887.96	21.43	281.41	109.31	111.36	18 26 39	5288.0	24.14	273.66
110.00	14 23 47	1065.00	.53	326.73	98.20	124.18	14 41 32	465.0	5.01	320.51
110.00	19 11 42	5439.67	30.07	250.73	112.65	107.07	20 42 22	4839.7	32.11	242.11

DIFFERENTIAL CORRECTIONS
TDE-2.6196 TRA 5.0879 TC3-1.7563 BAU 1.0165
RDE .5090 RRA -.0698 RC3 -.0187 FAU .00987
FDE -.7090 FRA 1.6685 FC3 -.1974 BSP 19507
BDE 2.6686 BRA 5.0884 BC3 1.7564 FSP -525

MID-COURSE EXECUTION ACCURACY
SGT 6007.3 SGR 449.3 SG3 154.4
RRT -.4833 RRF -.4758 RTF .9671
SGB 6024.1 R23 .0073 R13 -.9671
SG1 6011.2 SG2 393.1 THA 177.92

ORBIT DETERMINATION ACCURACY
ST 2739.9 SR 443.8 SS 718.9
CRT -.8575 CRS .8073 CST -.9957
LSA 2857.4 MSA 237.0 SSA 13.0
EL1 2766.4 EL2 226.1 ALF 172.04

LAUNCH DATE JUN 23 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 21 1968

HELIOCENTRIC CONIC DISTANCE 602.045

RL 152.04 LAL .00 LOL 270.87 VL 25.650 GAL 12.30 AZL 92.85 HCA 296.97 SMA 122.00 ECC .32138 INC 2.8547 V1 29.302
RP 108.03 LAP 2.54 LOP 207.87 VP 37.001 GAP 17.60 AZP 91.30 TAL 150.78 TAP 87.75 RCA 82.79 APO 161.20 V2 35.078
RC 179.325 GL -10.31 GP 3.06 ZAL 39.68 ZAP 176.79 ETS 69.91 ZAE 125.93 ETE 177.86 ZAC 56.91 ETC 12.71 CLP-179.02

PLANETOCENTRIC CONIC

C3 48.594 VHL 6.971 DLA -28.30 RAL 226.94 RAD 6568.8 VEL 13.037 PTH 2.38 VHP 10.971 DPA -5.90 RAP 208.91 ECC 1.7997

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	14 17 23	1140.06	12.97	339.39	109.57	115.39	14 36 23	540.1	16.28	332.29
90.00	14 33 53	1086.56	14.51	336.22	110.31	114.59	14 52 0	486.6	17.71	329.00
100.00	14 25 14	1114.63	6.00	333.88	105.91	119.34	14 43 49	514.6	9.86	327.22
100.00	17 8 43	5875.27	21.74	280.60	113.51	111.04	18 46 38	5275.3	24.41	272.81
110.00	14 25 26	1113.98	-1.35	329.29	101.37	124.16	14 44 0	514.0	3.15	323.08
110.00	19 25 0	5448.68	29.89	251.37	116.66	107.41	20 55 49	4848.7	31.98	242.78

DIFFERENTIAL CORRECTIONS
TDE-2.6372 TRA 5.5413 TC3-1.5236 BAU .9898
RDE .5311 RRA -.0905 RC3 -.0145 FAU .00819
FDE -.6840 FRA 1.7244 FC3 -.1460 BSP 19446
BDE 2.6902 BRA 5.5420 BC3 1.5236 FSP -502

MID-COURSE EXECUTION ACCURACY
SGT 5997.4 SGR 445.1 SG3 148.4
RRT -.5021 RRF -.4936 RTF .9688
SGB 6013.9 R23 .0059 R13 -.9689
SG1 6001.6 SG2 384.6 THA 177.86

ORBIT DETERMINATION ACCURACY
ST 2666.6 SR 437.3 SS 702.6
CRT -.8452 CRS .7950 CST -.9960
LSA 2781.6 MSA 241.2 SSA 12.5
EL1 2692.3 EL2 231.5 ALF 172.05

LAUNCH DATE JUN 23 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 23 1968

DISTANCE 606.533

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 25.615 GAL 13.36 AZL 92.79 HCA 300.18 SMA 121.80 ECC .33430 INC 2.7930 V1 29.302
RP 108.07 LAP 2.41 LOP 211.08 VP 36.964 GAP 18.47 AZP 91.41 TAL 149.64 TAP 89.82 RCA 81.08 APO 162.51 V2 35.065
RC 181.185 GL -9.44 GP 2.99 ZAL 38.17 ZAP 177.00 ETS 88.40 ZAE 125.69 ETE 177.88 ZAC 54.81 ETC 12.93 CLP 179.96

PLANETOCENTRIC CONIC
C3 54.778 VHL 7.401 DLA -27.83 RAL 228.68 RAD 6569.0 VEL 13.272 PTH 2.42 VHP 11.490 DPA -6.81 RAP 210.92 ECC 1.9015

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 46 31	1292.87	8.35	348.25	111.32	117.16	14 8 4	692.9	11.93	341.39
90.00	15 18 40	993.27	17.07	330.57	115.49	112.94	15 35 13	393.3	20.03	323.15
100.00	14 20 56	1181.61	3.75	337.58	108.82	119.68	14 40 38	581.6	7.67	330.99
100.00	17 26 56	5867.81	21.92	280.12	117.56	110.85	19 4 44	5267.8	24.56	272.31
110.00	14 26 39	1163.63	-3.24	331.88	104.48	124.05	14 46 3	563.6	1.25	325.67
110.00	19 37 42	5458.56	29.69	252.07	120.58	107.78	21 8 40	4858.6	31.83	243.51

DIFFERENTIAL CORRECTIONS
TOE-2.6624 TRA 6.0215 TC3-1.3054 BAU .9560
RDE .5533 RRA -.1130 RC3 -.0112 FAU .00661
FDE -.6637 FRA 1.7826 FC3 -.1044 BSP 19585
BDE 2.7193 BRA 6.0226 BC3 1.3055 FSP -483

MID-COURSE EXECUTION ACCURACY
SGT 5980.6 SGR 439.9 SG3 142.6
RRT -.5215 RRF -.5122 RTF .9711
SGB 5996.7 R23 .0045 R13 -.9711
SG1 5985.0 SG2 375.1 THA 177.79

ORBIT DETERMINATION ACCURACY
ST 2598.5 SR 429.4 SS 690.1
CRT -.8333 CRS .7839 CST -.9963
LSA 2711.7 MSA 243.7 SSA 12.0
EL1 2623.2 EL2 235.1 ALF 172.10

LAUNCH DATE JUN 23 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 25 1968

DISTANCE 610.784

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 25.581 GAL 14.51 AZL 92.73 HCA 303.39 SMA 121.60 ECC .34854 INC 2.7272 V1 29.302
RP 108.11 LAP 2.28 LOP 214.29 VP 36.928 GAP 19.42 AZP 91.50 TAL 148.56 TAP 91.96 RCA 79.22 APO 163.98 V2 35.052
RC 183.028 GL -8.60 GP 2.93 ZAL 36.77 ZAP 176.87 ETS 107.90 ZAE 125.41 ETE 177.91 ZAC 52.75 ETC 13.19 CLP 178.91

PLANETOCENTRIC CONIC
C3 62.024 VHL 7.876 DLA -27.35 RAL 230.29 RAD 6569.2 VEL 13.542 PTH 2.48 VHP 12.060 DPA -7.68 RAP 212.91 ECC 2.0208

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 34 3	1385.32	5.44	353.48	113.82	117.83	13 57 8	785.3	9.13	346.74
90.00	15 43 59	961.58	17.90	328.61	119.75	112.31	16 0 1	361.6	20.77	321.12
100.00	14 17 8	1246.13	1.57	341.13	111.68	119.86	14 37 54	646.1	5.53	334.58
100.00	17 43 35	5864.04	22.01	279.87	121.48	110.75	19 21 19	5264.0	24.64	272.06
110.00	14 27 26	1213.74	-5.15	334.51	107.51	123.84	14 47 40	613.7	-.67	328.29
110.00	19 49 46	5469.20	29.47	252.81	124.40	108.17	21 20 55	4869.2	31.66	244.29

DIFFERENTIAL CORRECTIONS
TOE-2.6929 TRA 6.5380 TC3-1.1094 BAU .9200
RDE .5754 RRA -.1375 RC3 -.0088 FAU .00500
FDE -.6464 FRA 1.8457 FC3 -.0699 BSP 19513
BDE 2.7536 BRA 6.5394 BC3 1.1094 FSP -465

MID-COURSE EXECUTION ACCURACY
SGT 5963.8 SGR 433.7 SG3 137.1
RRT -.5408 RRF -.5311 RTF .9730
SGB 5979.6 R23 .0035 R13 -.9730
SG1 5968.5 SG2 364.6 THA 177.74

ORBIT DETERMINATION ACCURACY
ST 2534.1 SR 420.0 SS 680.8
CRT -.8216 CRS .7733 CST -.9966
LSA 2646.0 MSA 244.9 SSA 11.5
EL1 2557.7 EL2 237.2 ALF 172.18

LAUNCH DATE JUN 23 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 27 1968

DISTANCE 614.750

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 25.548 GAL 15.76 AZL 92.66 HCA 306.60 SMA 121.41 ECC .36430 INC 2.6563 V1 29.302
RP 108.16 LAP 2.13 LOP 217.50 VP 36.893 GAP 20.47 AZP 91.58 TAL 147.55 TAP 94.16 RCA 77.18 APO 165.64 V2 35.039
RC 184.853 GL -7.80 GP 2.88 ZAL 35.49 ZAP 176.40 ETS 124.45 ZAE 125.10 ETE 177.93 ZAC 50.72 ETC 13.50 CLP 177.83

PLANETOCENTRIC CONIC
C3 70.555 VHL 8.400 DLA -26.86 RAL 231.77 RAD 6569.4 VEL 13.853 PTH 2.53 VHP 12.687 DPA -8.52 RAP 214.88 ECC 2.1612

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 25 10	1465.08	2.89	357.96	116.40	118.18	13 49 35	865.1	6.64	351.28
90.00	16 4 38	943.46	18.36	327.49	123.73	111.94	16 20 22	343.5	21.18	319.95
100.00	14 13 33	1308.81	-.56	344.57	114.48	119.89	14 35 22	708.8	3.42	338.04
100.00	17 58 57	5863.00	22.04	279.81	125.26	110.72	19 36 40	5263.0	24.66	271.99
110.00	14 27 47	1264.13	-7.05	337.17	110.47	123.54	14 48 51	664.1	-2.59	330.92
110.00	20 1 12	5480.45	29.22	253.60	128.10	108.58	21 32 33	4880.5	31.48	245.12

DIFFERENTIAL CORRECTIONS
TOE-2.7287 TRA 7.0934 TC3 -.9235 BAU .8711
RDE .5974 RRA -.1640 RC3 -.0073 FAU .00337
FDE -.6324 FRA 1.9144 FC3 -.0414 BSP 19502
BDE 2.7934 BRA 7.0953 BC3 .9235 FSP -447

MID-COURSE EXECUTION ACCURACY
SGT 5940.2 SGR 426.5 SG3 132.0
RRT -.5602 RRF -.5501 RTF .9752
SGB 5955.5 R23 .0023 R13 -.9752
SG1 5945.0 SG2 353.0 THA 177.69

ORBIT DETERMINATION ACCURACY
ST 2472.6 SR 409.2 SS 674.8
CRT -.8100 CRS .7634 CST -.9970
LSA 2583.9 MSA 244.7 SSA 11.1
EL1 2495.0 EL2 237.8 ALF 172.29

LAUNCH DATE JUN 23 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 29 1968

DISTANCE 618.369

HELIOCENTRIC CONIC
RL 152.04 LAL .00 LOL 270.87 VL 25.515 GAL 17.13 AZL 92.58 HCA 309.81 SMA 121.23 ECC .38180 INC 2.5794 V1 29.302
RP 108.20 LAP 1.98 LOP 220.70 VP 36.858 GAP 21.62 AZP 91.65 TAL 146.64 TAP 96.45 RCA 74.94 APO 167.51 V2 35.025
RC 186.660 GL -7.02 GP 2.83 ZAL 34.33 ZAP 175.66 ETS 136.70 ZAE 124.74 ETE 177.95 ZAC 48.73 ETC 13.85 CLP 176.71

PLANETOCENTRIC CONIC
C3 80.656 VHL 8.981 DLA -26.36 RAL 233.11 RAD 6569.6 VEL 14.213 PTH 2.59 VHP 13.382 DPA -9.33 RAP 216.82 ECC 2.3274

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 17 53	1538.37	.53	2.05	118.97	118.31	13 43 31	938.4	4.31	355.41
90.00	16 22 36	932.33	18.65	326.79	127.49	111.71	16 38 8	332.3	21.43	319.22
100.00	14 10 1	1370.02	-2.63	347.93	117.21	119.79	14 32 51	770.0	1.35	341.40
100.00	18 13 9	5863.96	22.02	279.87	128.88	110.75	19 50 53	5264.0	24.64	272.05
110.00	14 27 40	1314.61	-8.94	339.86	113.34	123.13	14 49 35	714.6	-4.52	333.56
110.00	20 11 59	5492.13	28.97	254.41	131.67	108.99	21 43 32	4892.1	31.28	245.97

DIFFERENTIAL CORRECTIONS
TOE-2.7687 TRA 7.6970 TC3 -.7501 BAU .8088
RDE .6191 RRA -.1926 RC3 -.0066 FAU .00164
FDE -.6208 FRA 1.9908 FC3 -.0176 BSP 19398
BDE 2.8371 BRA 7.6994 BC3 .7501 FSP -428

MID-COURSE EXECUTION ACCURACY
SGT 5913.2 SGR 418.3 SG3 127.2
RRT -.5795 RRF -.5692 RTF .9776
SGB 5928.0 R23 .0010 R13 -.9776
SG1 5918.2 SG2 340.6 THA 177.65

ORBIT DETERMINATION ACCURACY
ST 2413.4 SR 397.1 SS 671.9
CRT -.7985 CRS .7537 CST -.9973
LSA 2524.7 MSA 243.1 SSA 10.6
EL1 2434.3 EL2 237.0 ALF 172.44

LAUNCH DATE JUN 24 1967 FLIGHT TIME 70.00 ARRIVAL DATE SEP 2 1967

HELIOCENTRIC CONIC DISTANCE 166.195

RL 152.05 LAL .00 LOL 271.82 VL 23.712 GAL -2.50 AZL 93.62 HCA 68.99 SMA 112.15 ECC .35816 INC 3.6189 V1 29.301
RP 108.85 LAP -3.38 LOP 340.77 VP 35.428 GAP -20.92 AZP 91.30 TAL 184.49 TAP 253.48 RCA 71.98 APO 152.31 V2 34.815
RC 42.995 GL -14.53 GP -2.53 ZAL 100.88 ZAP 8.24 ETS 162.14 ZAE 162.59 ETE 33.14 ZAC 97.18 ETC 13.89 CLP 7.85

PLANETOCENTRIC CONIC

C3 35.520 VHL 5.960 DLA -9.62 RAL 165.60 RAD 6568.4 VEL 12.526 PTH 2.27 VHP 12.665 DPA 5.30 RAP 169.88 ECC 1.5846

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 31 9	2053.34	-15.36	31.52	34.58	114.09	6 5 22	1453.3	-11.98	24.48
90.00	15 2 54	5303.41	27.30	240.59	40.56	82.16	16 31 17	4703.4	25.93	232.19
100.00	6 47 45	1806.18	-16.60	12.76	33.99	115.22	7 17 51	1206.2	-13.07	5.75
100.00	16 28 58	5025.80	28.65	219.95	40.33	81.08	17 52 44	4425.8	27.12	211.48
110.00	7 45 14	1626.17	-19.89	357.35	32.24	118.39	8 12 21	1026.2	-15.94	350.45
110.00	17 47 58	4778.57	32.27	200.40	39.56	78.07	19 7 37	4178.6	30.29	191.75

DIFFERENTIAL CORRECTIONS

TDE .3683 TRA -.6571 TC3 .1816 BAU .0956
RDE -.4018 RRA -.1606 RC3 .0868 FAU .02229
FDE -.3063 FRA .2085 FC3 -.5433 BSP 2049
BDE .5450 BRA .6764 BC3 .2013 FSP -144

MID-COURSE EXECUTION ACCURACY

SGT 763.4 SGR 429.4 SG3 63.9
RRT -.0428 RRF .0470 RTF -.6634
SGB 875.9 R23 -.0055 R13 .6637
SG1 763.7 SG2 428.8 THA 177.98

ORBIT DETERMINATION ACCURACY

ST 402.9 SR 389.1 SS 329.8
CRT -.8145 CRS -.9451 CST .9562
LSA 627.0 MSA 170.5 SSA 16.7
EL1 533.6 EL2 170.5 ALF 136.22

LAUNCH DATE JUN 24 1967 FLIGHT TIME 72.00 ARRIVAL DATE SEP 4 1967

HELIOCENTRIC CONIC DISTANCE 172.859

RL 152.05 LAL .00 LOL 271.82 VL 24.055 GAL -2.56 AZL 93.56 HCA 72.15 SMA 113.72 ECC .33965 INC 3.5627 V1 29.301
RP 108.83 LAP -3.39 LOP 343.94 VP 35.666 GAP -19.71 AZP 91.09 TAL 184.49 TAP 257.15 RCA 75.10 APO 152.35 V2 34.822
RC 43.312 GL -15.34 GP -2.66 ZAL 101.92 ZAP 6.56 ETS 155.97 ZAE 160.54 ETE 28.82 ZAC 95.94 ETC 13.82 CLP 6.00

PLANETOCENTRIC CONIC

C3 31.845 VHL 5.643 DLA -9.94 RAL 164.26 RAD 6568.3 VEL 12.378 PTH 2.23 VHP 11.977 DPA 4.66 RAP 171.04 ECC 1.5241

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 28 22	2015.43	-14.29	29.25	31.45	114.71	6 1 57	1415.4	-10.84	22.27
90.00	14 55 0	5286.23	27.13	239.36	37.28	81.57	16 23 7	4686.2	25.69	230.99
100.00	6 44 48	1768.83	-15.50	10.53	30.86	115.88	7 14 17	1168.8	-11.90	3.59
100.00	16 21 15	5008.06	28.46	218.67	37.04	80.44	17 44 43	4408.1	26.84	210.24
110.00	7 41 55	1590.05	-18.71	355.22	29.11	119.15	8 8 23	990.1	-14.68	348.42
110.00	17 40 39	4759.60	32.00	198.99	36.23	77.28	18 59 59	4159.6	29.92	190.40

DIFFERENTIAL CORRECTIONS

TDE .3703 TRA -.6298 TC3 .2327 BAU .1069
RDE -.3828 RRA -.1505 RC3 .0943 FAU .02366
FDE -.3261 FRA .1977 FC3 -.6431 BSP 2178
BDE .5326 BRA .6475 BC3 .2511 FSP -164

MID-COURSE EXECUTION ACCURACY

SGT 794.9 SGR 431.8 SG3 71.1
RRT -.0510 RRF .0558 RTF -.6836
SGB 904.6 R23 -.0064 R13 .6839
SG1 795.3 SG2 431.0 THA 177.75

ORBIT DETERMINATION ACCURACY

ST 423.5 SR 391.5 SS 349.1
CRT -.8266 CRS -.9523 CST .9557
LSA 652.3 MSA 169.3 SSA 17.4
EL1 551.3 EL2 169.2 ALF 137.72

LAUNCH DATE JUN 24 1967 FLIGHT TIME 74.00 ARRIVAL DATE SEP 6 1967

HELIOCENTRIC CONIC DISTANCE 179.547

RL 152.05 LAL .00 LOL 271.82 VL 24.371 GAL -2.64 AZL 93.51 HCA 75.32 SMA 115.23 ECC .32251 INC 3.5085 V1 29.301
RP 108.80 LAP -3.39 LOP 347.11 VP 35.886 GAP -18.55 AZP 90.89 TAL 185.57 TAP 260.89 RCA 78.07 APO 152.39 V2 34.830
RC 43.796 GL -16.15 GP -2.80 ZAL 103.08 ZAP 4.98 ETS 145.53 ZAE 158.52 ETE 25.29 ZAC 94.72 ETC 13.77 CLP 4.12

PLANETOCENTRIC CONIC

C3 28.706 VHL 5.358 DLA -10.19 RAL 162.80 RAD 6568.2 VEL 12.251 PTH 2.20 VHP 11.320 DPA 4.01 RAP 172.17 ECC 1.4724

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 24 36	1981.12	-13.31	27.21	28.33	115.23	5 57 37	1381.1	-9.80	20.29
90.00	14 47 9	5268.47	26.95	238.10	33.97	80.96	16 14 58	4668.5	25.42	229.76
100.00	6 40 53	1734.98	-14.49	8.53	27.74	116.44	7 9 48	1135.0	-10.82	1.66
100.00	16 13 33	4989.84	28.24	217.35	33.72	79.78	17 36 43	4389.8	26.54	208.97
110.00	7 37 40	1557.19	-17.60	353.30	26.00	119.79	8 3 37	957.2	-13.51	346.59
110.00	17 33 16	4740.41	31.70	197.58	32.88	76.49	18 52 16	4140.4	29.52	189.05

DIFFERENTIAL CORRECTIONS

TDE .3724 TRA -.6018 TC3 .2911 BAU .1183
RDE -.3653 RRA -.1410 RC3 .1012 FAU .02520
FDE -.3474 FRA .1842 FC3 -.7600 BSP 2307
BDE .5217 BRA .6181 BC3 .3082 FSP -187

MID-COURSE EXECUTION ACCURACY

SGT 826.7 SGR 433.4 SG3 79.2
RRT -.0602 RRF .0658 RTF -.7026
SGB 933.4 R23 -.0076 R13 .7030
SG1 827.3 SG2 432.4 THA 177.51

ORBIT DETERMINATION ACCURACY

ST 444.0 SR 393.4 SS 368.9
CRT -.8389 CRS -.9592 CST .9552
LSA 677.9 MSA 167.6 SSA 18.1
EL1 569.2 EL2 167.0 ALF 139.11

LAUNCH DATE JUN 24 1967 FLIGHT TIME 76.00 ARRIVAL DATE SEP 8 1967

HELIOCENTRIC CONIC DISTANCE 186.253

RL 152.05 LAL .00 LOL 271.82 VL 24.659 GAL -2.73 AZL 93.46 HCA 78.49 SMA 116.66 ECC .30669 INC 3.4558 V1 29.301
RP 108.78 LAP -3.39 LOP 350.29 VP 36.091 GAP -17.45 AZP 90.69 TAL 186.20 TAP 264.69 RCA 80.88 APO 152.44 V2 34.838
RC 44.440 GL -16.92 GP -2.97 ZAL 104.36 ZAP 3.70 ETS 126.34 ZAE 156.58 ETE 22.34 ZAC 93.54 ETC 13.72 CLP 2.21

PLANETOCENTRIC CONIC

C3 26.027 VHL 5.102 DLA -10.37 RAL 161.24 RAD 6568.1 VEL 12.141 PTH 2.18 VHP 10.693 DPA 3.36 RAP 173.26 ECC 1.4283

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 19 52	1950.69	-12.42	25.42	25.22	115.65	5 52 23	1350.7	-8.86	18.55
90.00	14 39 26	5250.16	26.75	236.79	30.65	80.33	16 6 56	4650.2	25.14	228.49
100.00	6 36 3	1704.89	-13.57	6.77	24.64	116.89	7 4 28	1104.9	-9.85	359.95
100.00	16 5 56	4971.20	28.01	216.02	30.40	79.11	17 28 47	4371.2	26.22	207.67
110.00	7 32 36	1527.82	-16.60	351.62	22.92	120.32	7 58 4	927.8	-12.45	344.97
110.00	17 25 52	4721.03	31.38	196.15	29.53	75.70	18 44 34	4121.0	29.10	187.69

DIFFERENTIAL CORRECTIONS

TDE .3741 TRA -.5736 TC3 .3557 BAU .1293
RDE -.3493 RRA -.1322 RC3 .1072 FAU .02692
FDE -.3705 FRA .1680 FC3 -.8955 BSP 2426
BDE .5118 BRA .5887 BC3 .3715 FSP -212

MID-COURSE EXECUTION ACCURACY

SGT 858.6 SGR 434.3 SG3 88.3
RRT -.0704 RRF .0774 RTF -.7202
SGB 962.2 R23 -.0094 R13 .7206
SG1 859.4 SG2 432.9 THA 177.27

ORBIT DETERMINATION ACCURACY

ST 464.0 SR 394.9 SS 388.9
CRT -.8508 CRS -.9657 CST .9546
LSA 703.4 MSA 165.6 SSA 18.8
EL1 586.8 EL2 164.1 ALF 140.39

LAUNCH DATE JUN 24 1967 FLIGHT TIME 78.00 ARRIVAL DATE SEP 10 1967

DISTANCE 192.974

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 24.924 GAL -2.83 AZL 93.40 HCA 81.66 SMA 118.02 ECC .29214 INC 3.4043 VI 29.301
RP 108.75 LAP -3.37 LOP 353.47 VP 36.280 GAP -16.39 AZP 90.49 TAL 186.90 TAP 268.56 RCA 83.54 APO 152.50 V2 34.846
RC 45.237 GL -17.66 GP -3.15 ZAL 105.74 ZAP 3.16 ETS 94.23 ZAE 154.75 ETE 19.84 ZAC 92.40 ETC 13.69 CLP .26

PLANETOCENTRIC CONIC
C3 23.743 VHL 4.873 DLA -10.49 RAL 159.60 RAD 6568.0 VEL 12.047 PTH 2.15 VHP 10.095 DPA 2.70 RAP 174.30 ECC 1.3907

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 14 13	1924.35	-11.63	23.88	22.16	116.00	5 46 18	1324.3	-8.04	17.04
90.00	14 31 57	5231.31	26.52	235.46	27.36	79.70	15 59 8	4631.3	24.83	227.20
100.00	6 30 21	1678.75	-12.76	5.25	21.58	117.26	6 58 20	1078.8	-9.00	358.47
100.00	15 58 30	4952.13	27.76	214.66	27.09	78.44	17 21 2	4352.1	25.88	206.36
110.00	7 26 45	1502.13	-15.71	350.16	19.89	120.75	7 51 47	902.1	-11.52	343.56
110.00	17 18 35	4701.52	31.05	194.73	26.20	74.92	18 36 57	4101.5	28.67	186.34

DIFFERENTIAL CORRECTIONS
TDE .3760 TRA -.5449 TC3 .4266 BAU .1400
RDE -.3346 RRA -.1242 RC3 .1117 FAU .02889
FDE -.3955 FRA .1480 FC3-1.0534 BSP 2555
BDE .5034 BRA .5589 BC3 .4410 FSP -241

MID-COURSE EXECUTION ACCURACY
SGT 890.5 SGR 434.4 SG3 98.6
RRT -.0827 RRF .0908 RTF -.7361
SGB 990.8 R23 -.0112 R13 .7366
SG1 891.4 SG2 432.5 THA 176.98

ORBIT DETERMINATION ACCURACY
ST 483.6 SR 396.0 SS 409.2
CRT -.8628 CRS -.9718 CST .9539
LSA 728.8 MSA 163.2 SSA 19.6
EL1 604.2 EL2 160.3 ALF 141.56

LAUNCH DATE JUN 24 1967 FLIGHT TIME 80.00 ARRIVAL DATE SEP 12 1967

DISTANCE 199.705

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 25.166 GAL -2.94 AZL 93.35 HCA 84.83 SMA 119.31 ECC .27880 INC 3.3536 VI 29.301
RP 108.72 LAP -3.34 LOP 356.65 VP 36.456 GAP -15.39 AZP 90.30 TAL 187.65 TAP 272.48 RCA 86.05 APO 152.57 V2 34.856
RC 46.178 GL -18.35 GP -3.35 ZAL 107.20 ZAP 3.77 ETS 61.95 ZAE 153.08 ETE 17.66 ZAC 91.32 ETC 13.67 CLP -1.74

PLANETOCENTRIC CONIC
C3 21.799 VHL 4.669 DLA -10.53 RAL 157.89 RAD 6567.9 VEL 11.966 PTH 2.13 VHP 9.524 DPA 2.05 RAP 175.30 ECC 1.3588

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 7 45	1902.19	-10.97	22.59	19.15	116.27	5 39 27	1302.2	-7.35	15.78
90.00	14 24 47	5211.92	26.28	234.09	24.12	79.06	15 51 39	4611.9	24.50	225.87
100.00	6 23 51	1656.67	-12.07	3.97	18.58	117.56	6 51 27	1056.7	-8.28	357.23
100.00	15 51 22	4932.67	27.48	213.27	23.84	77.76	17 13 34	4332.7	25.52	205.02
110.00	7 20 11	1480.22	-14.95	348.92	16.92	121.11	7 44 52	880.2	-10.72	342.37
110.00	17 11 30	4681.89	30.69	193.31	22.92	74.15	18 29 32	4081.9	28.21	184.99

DIFFERENTIAL CORRECTIONS
TDE .3776 TRA -.5150 TC3 .5054 BAU .1510
RDE -.3213 RRA -.1168 RC3 .1144 FAU .03110
FDE -.4226 FRA .1246 FC3-1.2353 BSP 2679
BDE .4958 BRA .5281 BC3 .5182 FSP -274

MID-COURSE EXECUTION ACCURACY
SGT 922.3 SGR 433.8 SG3 110.1
RRT -.0965 RRF .1060 RTF -.7527
SGB 1019.2 R23 -.0131 R13 .7534
SG1 923.5 SG2 431.2 THA 176.68

ORBIT DETERMINATION ACCURACY
ST 502.1 SR 396.8 SS 429.4
CRT -.8746 CRS -.9773 CST .9533
LSA 753.5 MSA 160.5 SSA 20.4
EL1 620.7 EL2 155.6 ALF 142.60

LAUNCH DATE JUN 24 1967 FLIGHT TIME 82.00 ARRIVAL DATE SEP 14 1967

DISTANCE 206.441

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 25.387 GAL -3.05 AZL 93.30 HCA 88.01 SMA 120.52 ECC .26661 INC 3.3034 VI 29.301
RP 108.69 LAP -3.30 LOP 359.83 VP 36.618 GAP -14.42 AZP 90.11 TAL 188.45 TAP 276.46 RCA 88.39 APO 152.65 V2 34.865
RC 47.255 GL -18.99 GP -3.57 ZAL 108.72 ZAP 5.21 ETS 42.56 ZAE 151.58 ETE 15.74 ZAC 90.29 ETC 13.67 CLP -3.80

PLANETOCENTRIC CONIC
C3 20.145 VHL 4.488 DLA -10.50 RAL 156.14 RAD 6567.8 VEL 11.896 PTH 2.11 VHP 8.980 DPA 1.39 RAP 176.23 ECC 1.3315

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 0 31	1884.23	-10.43	21.55	16.22	116.48	5 31 55	1284.2	-6.79	14.76
90.00	14 18 2	5192.02	26.02	232.69	20.94	78.40	15 44 34	4592.0	24.15	224.52
100.00	6 16 38	1638.67	-11.50	2.94	15.67	117.78	6 43 56	1038.7	-7.69	356.22
100.00	15 44 36	4912.82	27.19	211.87	20.66	77.08	17 6 29	4312.8	25.14	203.67
110.00	7 13 1	1462.09	-14.31	347.91	14.03	121.38	7 37 23	862.1	-10.05	341.39
110.00	17 4 42	4662.16	30.32	191.90	19.72	73.39	18 22 24	4062.2	27.74	183.65

DIFFERENTIAL CORRECTIONS
TDE .3784 TRA -.4854 TC3 .5864 BAU .1609
RDE -.3094 RRA -.1102 RC3 .1148 FAU .03361
FDE -.4527 FRA .0968 FC3-1.4443 BSP 2803
BDE .4888 BRA .4977 BC3 .5976 FSP -312

MID-COURSE EXECUTION ACCURACY
SGT 952.6 SGR 432.5 SG3 123.1
RRT -.1127 RRF .1244 RTF -.7668
SGB 1046.2 R23 -.0161 R13 .7675
SG1 954.2 SG2 429.0 THA 176.33

ORBIT DETERMINATION ACCURACY
ST 518.9 SR 397.3 SS 450.3
CRT -.8857 CRS -.9822 CST .9524
LSA 777.5 MSA 157.9 SSA 21.3
EL1 636.0 EL2 150.5 ALF 143.49

LAUNCH DATE JUN 24 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 16 1967

DISTANCE 213.181

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 25.588 GAL -3.16 AZL 93.25 HCA 91.19 SMA 121.65 ECC .25552 INC 3.2533 VI 29.301
RP 108.66 LAP -3.25 LOP 3.01 VP 36.767 GAP -13.50 AZP 89.93 TAL 189.29 TAP 280.47 RCA 90.57 APO 152.73 V2 34.875
RC 48.458 GL -19.57 GP -3.82 ZAL 110.28 ZAP 7.04 ETS 32.05 ZAE 150.28 ETE 14.00 ZAC 89.33 ETC 13.68 CLP -5.92

PLANETOCENTRIC CONIC
C3 18.741 VHL 4.329 DLA -10.40 RAL 154.37 RAD 6567.8 VEL 11.837 PTH 2.10 VHP 8.461 DPA .74 RAP 177.09 ECC 1.3084

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 52 39	1870.40	-10.01	20.76	13.40	116.63	5 23 49	1270.4	-6.35	13.98
90.00	14 11 47	5171.64	25.73	231.27	17.87	77.75	15 37 58	4571.6	23.78	223.14
100.00	6 8 49	1624.65	-11.05	2.14	12.85	117.95	6 35 54	1024.6	-7.23	355.44
100.00	15 38 17	4892.63	26.87	210.46	17.58	76.39	16 59 50	4292.6	24.74	202.31
110.00	7 5 20	1447.68	-13.80	347.10	11.24	121.59	7 29 28	847.7	-9.52	340.62
110.00	16 58 16	4642.36	29.92	190.49	16.62	72.64	18 15 38	4042.4	27.26	182.32

DIFFERENTIAL CORRECTIONS
TDE .3779 TRA -.4563 TC3 .6701 BAU .1702
RDE -.2987 RRA -.1043 RC3 .1123 FAU .03644
FDE -.4847 FRA .0648 FC3-1.6833 BSP 2908
BDE .4817 BRA .4681 BC3 .6795 FSP -354

MID-COURSE EXECUTION ACCURACY
SGT 981.7 SGR 430.6 SG3 137.8
RRT -.1304 RRF .1451 RTF -.7792
SGB 1072.0 R23 -.0201 R13 .7802
SG1 983.7 SG2 426.0 THA 175.97

ORBIT DETERMINATION ACCURACY
ST 533.3 SR 397.5 SS 470.5
CRT -.8958 CRS -.9864 CST .9512
LSA 799.4 MSA 155.7 SSA 22.1
EL1 649.1 EL2 145.2 ALF 144.20

LAUNCH DATE JUN 24 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 18 1967

HELIOCENTRIC CONIC DISTANCE 219.918

RL 152.05 LAL .00 LOL 271.82 VL 25.770 GAL -3.27 AZL 93.20 HCA 94.36 SMA 122.71 ECC .24546 INC 3.2031 V1 29.301
RP 108.63 LAP -3.19 LOP 6.19 VP 36.904 GAP -12.62 AZP 89.76 TAL 190.16 TAP 284.52 RCA 92.59 APO 152.83 V2 34.886
RC 49.776 GL -20.07 GP -4.09 ZAL 111.86 ZAP 9.09 ETS 25.89 ZAE 149.20 ETE 12.41 ZAC 88.46 ETC 13.70 CLP -8.12

PLANETOCENTRIC CONIC

C3 17.550 VHL 4.189 DLA -10.24 RAL 152.61 RAD 6567.7 VEL 11.787 PTH 2.08 VHP 7.967 DPA .09 RAP 177.86 ECC 1.2888

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 44 16	1860.51	-9.70	20.19	10.69	116.73	5 15 17	1260.5	-6.04	13.42
90.00	14 6 6	5150.84	25.42	229.82	14.91	77.08	15 31 57	4550.8	23.39	221.74
100.00	6 0 33	1614.46	-10.72	1.56	10.15	118.07	6 27 27	1014.5	-6.89	354.87
100.00	15 32 31	4872.13	26.54	209.02	14.61	75.71	16 53 43	4272.1	24.31	200.93
110.00	6 57 16	1436.84	-13.41	346.50	8.57	121.74	7 21 13	836.8	-9.11	340.04
110.00	16 52 17	4622.51	29.51	189.09	13.64	71.91	18 9 20	4022.5	26.76	180.99

DIFFERENTIAL CORRECTIONS

TDE .3771 TRA -.4268 TC3 .7553 BAU .1790
RDE -.2892 RRA -.0992 RC3 .1065 FAU .03967
FDE -.5205 FRA .0272 FC3-1.9568 BSP 3011
BDE .4752 BRA -.4382 BC3 .7628 FSP -403

MID-COURSE EXECUTION ACCURACY

SGT 1009.1 SGR 428.2 SG3 154.5
RRT -.1522 RRF .1700 RTF -.7910
SGB 1096.2 R23 -.0243 R13 .7922
SG1 1011.6 SG2 422.2 THA 175.52

ORBIT DETERMINATION ACCURACY

ST 545.9 SR 397.7 SS 491.3
CRT -.9055 CRS -.9900 CST .9499
LSA 820.6 MSA 153.7 SSA 22.9
EL1 660.9 EL2 139.4 ALF 144.79

LAUNCH DATE JUN 24 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 20 1967

HELIOCENTRIC CONIC DISTANCE 226.651

RL 152.05 LAL .00 LOL 271.82 VL 25.936 GAL -3.37 AZL 93.15 HCA 97.54 SMA 123.69 ECC .23638 INC 3.1524 V1 29.301
RP 108.59 LAP -3.13 LOP 9.38 VP 37.031 GAP -11.77 AZP 89.59 TAL 191.04 TAP 288.59 RCA 94.45 APO 152.92 V2 34.897
RC 51.201 GL -20.49 GP -4.41 ZAL 113.44 ZAP 11.30 ETS 21.95 ZAE 148.34 ETE 10.92 ZAC 87.67 ETC 13.73 CLP -10.41

PLANETOCENTRIC CONIC

C3 16.539 VHL 4.067 DLA -10.01 RAL 150.88 RAD 6567.7 VEL 11.744 PTH 2.07 VHP 7.496 DPA -.56 RAP 178.55 ECC 1.2722

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 35 32	1854.33	-9.51	19.83	8.11	116.80	5 6 26	1254.3	-5.84	13.08
90.00	14 1 3	5129.67	25.09	228.36	12.10	76.42	15 26 33	4529.7	22.97	220.33
100.00	5 51 55	1607.83	-10.51	1.18	7.59	118.14	6 18 43	1007.8	-6.67	354.50
100.00	15 27 21	4851.37	26.18	207.59	11.79	75.03	16 48 12	4251.4	23.87	199.55
110.00	6 48 56	1429.35	-13.14	346.09	6.04	121.84	7 12 45	829.4	-8.84	339.63
110.00	16 46 49	4602.65	29.08	187.71	10.80	71.19	18 3 32	4002.6	26.24	179.68

DIFFERENTIAL CORRECTIONS

TDE .3751 TRA -.3976 TC3 .8392 BAU .1868
RDE -.2807 RRA -.0949 RC3 .0968 FAU .04334
FDE -.5594 FRA -.0164 FC3-2.2685 BSP 3114
BDE .4685 BRA .4088 BC3 .8448 FSP -459

MID-COURSE EXECUTION ACCURACY

SGT 1033.8 SGR 425.5 SG3 173.4
RRT -.1775 RRF .1987 RTF -.8015
SGB 1117.9 R23 -.0292 R13 .8030
SG1 1037.1 SG2 417.4 THA 175.01

ORBIT DETERMINATION ACCURACY

ST 555.7 SR 397.6 SS 511.8
CRT -.9143 CRS -.9927 CST .9484
LSA 839.7 MSA 152.2 SSA 23.6
EL1 670.1 EL2 133.6 ALF 145.22

LAUNCH DATE JUN 24 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 22 1967

HELIOCENTRIC CONIC DISTANCE 233.377

RL 152.05 LAL .00 LOL 271.82 VL 26.086 GAL -3.48 AZL 93.10 HCA 100.73 SMA 124.59 ECC .22820 INC 3.1009 V1 29.301
RP 108.56 LAP -3.05 LOP 12.56 VP 37.146 GAP -10.96 AZP 89.42 TAL 191.93 TAP 292.66 RCA 96.16 APO 153.02 V2 34.908
RC 52.722 GL -20.84 GP -4.76 ZAL 114.99 ZAP 13.64 ETS 19.26 ZAE 147.73 ETE 9.49 ZAC 87.00 ETC 13.77 CLP -12.80

PLANETOCENTRIC CONIC

C3 15.681 VHL 3.960 DLA -9.72 RAL 149.20 RAD 6567.6 VEL 11.707 PTH 2.06 VHP 7.050 DPA -1.21 RAP 179.12 ECC 1.2581

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 26 33	1851.55	-9.43	19.67	5.69	116.82	4 57 24	1251.6	-5.75	12.92
90.00	13 56 40	5108.21	24.74	226.89	9.44	75.76	15 21 49	4508.2	22.54	218.91
100.00	5 43 6	1604.57	-10.41	.99	5.17	118.18	6 9 51	1004.6	-6.56	354.32
100.00	15 22 48	4830.42	25.80	206.14	9.12	74.36	16 43 19	4230.4	23.41	198.16
110.00	6 40 28	1424.95	-12.98	345.85	3.65	121.90	7 4 13	825.0	-8.67	339.40
110.00	16 41 56	4582.80	28.64	186.33	8.11	70.49	17 58 19	3982.8	25.71	178.38

DIFFERENTIAL CORRECTIONS

TDE .3719 TRA -.3694 TC3 .9202 BAU .1937
RDE -.2733 RRA -.0914 RC3 .0827 FAU .04752
FDE -.6024 FRA -.0665 FC3-2.6234 BSP 3209
BDE .4615 BRA .3805 BC3 .9239 FSP -524

MID-COURSE EXECUTION ACCURACY

SGT 1055.8 SGR 422.7 SG3 194.9
RRT -.2069 RRF .2326 RTF -.8107
SGB 1137.3 R23 -.0355 R13 .8126
SG1 1060.0 SG2 411.9 THA 174.42

ORBIT DETERMINATION ACCURACY

ST 562.6 SR 397.5 SS 532.5
CRT -.9221 CRS -.9948 CST .9466
LSA 857.1 MSA 151.4 SSA 24.2
EL1 676.9 EL2 127.9 ALF 145.51

LAUNCH DATE JUN 24 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 24 1967

HELIOCENTRIC CONIC DISTANCE 240.093

RL 152.05 LAL .00 LOL 271.82 VL 26.221 GAL -3.57 AZL 93.05 HCA 103.91 SMA 125.42 ECC .22088 INC 3.0483 V1 29.301
RP 108.52 LAP -2.96 LOP 15.75 VP 37.252 GAP -10.17 AZP 89.27 TAL 192.82 TAP 296.73 RCA 97.72 APO 153.12 V2 34.920
RC 54.330 GL -21.09 GP -5.15 ZAL 116.51 ZAP 16.13 ETS 17.34 ZAE 147.37 ETE 8.08 ZAC 86.44 ETC 13.82 CLP -15.31

PLANETOCENTRIC CONIC

C3 14.952 VHL 3.867 DLA -9.38 RAL 147.60 RAD 6567.6 VEL 11.676 PTH 2.05 VHP 6.626 DPA -1.84 RAP 179.58 ECC 1.2461

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 17 28	1851.84	-9.44	19.69	3.43	116.82	4 48 20	1251.8	-5.76	12.93
90.00	13 53 0	5086.51	24.37	225.41	6.94	75.11	15 17 46	4486.5	22.09	217.48
100.00	5 34 12	1604.26	-10.40	.98	2.92	118.18	6 0 56	1004.3	-6.55	354.30
100.00	15 18 56	4809.33	25.41	204.70	6.62	73.70	16 39 6	4209.3	22.93	196.78
110.00	6 31 59	1423.35	-12.92	345.76	1.43	121.92	6 55 42	823.3	-8.61	339.31
110.00	16 37 39	4563.00	28.18	184.97	5.60	69.80	17 53 42	3963.0	25.17	177.09

DIFFERENTIAL CORRECTIONS

TDE .3688 TRA -.3405 TC3 .9996 BAU .2002
RDE -.2669 RRA -.0889 RC3 .0634 FAU .05233
FDE -.6504 FRA -.1251 FC3-3.0302 BSP 3325
BDE .4552 BRA .3519 BC3 1.0016 FSP -601

MID-COURSE EXECUTION ACCURACY

SGT 1075.9 SGR 420.3 SG3 219.5
RRT -.2431 RRF .2728 RTF -.8201
SGB 1155.1 R23 -.0416 R13 .8226
SG1 1081.6 SG2 405.5 THA 173.68

ORBIT DETERMINATION ACCURACY

ST 568.0 SR 397.5 SS 554.1
CRT -.9297 CRS -.9962 CST .9450
LSA 874.3 MSA 150.9 SSA 24.7
EL1 682.5 EL2 121.8 ALF 145.71

LAUNCH DATE JUN 24 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 26 1967

DISTANCE 246.796

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.342 GAL -3.67 AZL 92.99 HCA 107.10 SMA 126.18 ECC .21434 INC 2.9942 VI 29.301
RP 108.48 LAP -2.86 LOP 18.94 VP 37.349 GAP -9.42 AZP 89.12 TAL 193.69 TAP 300.79 RCA 99.14 APO 153.23 V2 34.932
RC 56.016 GL -21.27 GP -5.60 ZAL 117.97 ZAP 18.77 ETS 15.91 ZAE 147.27 ETE 6.67 ZAC 86.02 ETC 13.88 CLP -17.94

PLANETOCENTRIC CONIC
C3 14.331 VHL 3.786 DLA -9.00 RAL 146.10 RAD 6567.6 VEL 11.650 PTH 2.05 VHP 6.225 DPA -2.48 RAP 179.90 ECC 1.2358

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 8 25	1854.82	-9.53	19.86	1.35	116.79	4 39 19	1254.8	-5.86	13.10
90.00	13 50 2	5064.67	23.98	223.93	4.63	74.47	15 14 26	4464.7	21.61	216.05
100.00	5 25 22	1606.55	-10.47	1.11	.85	118.16	5 52 8	1006.6	-6.63	354.43
100.00	15 15 46	4788.15	25.00	203.26	4.30	73.05	16 35 34	4188.1	22.44	195.40
110.00	6 23 36	1424.20	-12.95	345.80	359.38	121.91	6 47 20	824.2	-8.64	339.36
110.00	16 34 1	4543.28	27.71	183.63	3.26	69.13	17 49 44	3943.3	24.62	175.82

DIFFERENTIAL CORRECTIONS
TDE .3620 TRA -.3152 TC3 1.0651 BAU .2042
RDE -.2612 RRA -.0872 RC3 .0388 FAU .05772
FDE -.7016 FRA -.1898 FC3-3.4867 BSP 3378
BDE .4464 BRA .3270 BC3 1.0658 FSP -685

MID-COURSE EXECUTION ACCURACY
SGT 1088.0 SGR 418.4 SG3 247.1
RRT -.2820 RRF .3185 RTF -.8259
SGB 1165.7 R23 -.0515 R13 .8291
SG1 1095.4 SG2 398.7 THA 172.86

ORBIT DETERMINATION ACCURACY
ST 567.2 SR 397.4 SS 574.6
CRT -.9351 CRS -.9969 CST .9423
LSA 886.7 MSA 151.8 SSA 25.0
EL1 682.6 EL2 117.0 ALF 145.62

LAUNCH DATE JUN 24 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 28 1967

DISTANCE 253.486

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.451 GAL -3.75 AZL 92.94 HCA 110.29 SMA 126.87 ECC .20853 INC 2.9382 VI 29.301
RP 108.45 LAP -2.76 LOP 22.13 VP 37.437 GAP -8.70 AZP 88.98 TAL 194.53 TAP 304.81 RCA 100.42 APO 153.33 V2 34.945
RC 57.772 GL -21.36 GP -6.10 ZAL 119.36 ZAP 21.57 ETS 14.81 ZAE 147.44 ETE 5.20 ZAC 85.76 ETC 13.94 CLP -20.73

PLANETOCENTRIC CONIC
C3 13.799 VHL 3.715 DLA -8.58 RAL 144.70 RAD 6567.5 VEL 11.627 PTH 2.04 VHP 5.847 DPA -3.10 RAP 180.06 ECC 1.2271

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 59 30	1860.14	-9.69	20.16	359.44	116.74	4 30 30	1260.1	-6.03	13.40
90.00	13 47 48	5042.71	23.57	222.45	2.49	73.83	15 11 50	4442.7	21.13	214.62
100.00	5 16 40	1611.18	-10.62	1.37	358.95	118.11	5 43 31	1011.2	-6.78	354.69
100.00	15 13 18	4766.91	24.57	201.83	2.16	72.41	16 32 45	4166.9	21.93	194.02
110.00	6 15 25	1427.22	-13.06	345.97	357.51	121.87	6 39 12	827.2	-8.76	339.52
110.00	16 31 3	4523.63	27.23	182.31	1.11	68.48	17 46 26	3923.6	24.06	174.57

DIFFERENTIAL CORRECTIONS
TDE .3534 TRA -.2918 TC3 1.1195 BAU .2065
RDE -.2563 RRA -.0865 RC3 .0080 FAU .06381
FDE -.7573 FRA -.2630 FC3-4.0031 BSP 3417
BDE .4365 BRA .3044 BC3 1.1195 FSP -781

MID-COURSE EXECUTION ACCURACY
SGT 1093.6 SGR 417.8 SG3 278.3
RRT -.3264 RRF .3711 RTF -.8298
SGB 1170.7 R23 -.0639 R13 .8341
SG1 1103.3 SG2 391.4 THA 171.86

ORBIT DETERMINATION ACCURACY
ST 562.4 SR 397.5 SS 595.0
CRT -.9393 CRS -.9971 CST .9389
LSA 896.7 MSA 153.5 SSA 25.2
EL1 679.4 EL2 112.9 ALF 145.33

LAUNCH DATE JUN 24 1967 FLIGHT TIME 98.00 ARRIVAL DATE SEP 30 1967

DISTANCE 260.158

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.547 GAL -3.83 AZL 92.88 HCA 113.48 SMA 127.50 ECC .20339 INC 2.8798 VI 29.301
RP 108.41 LAP -2.64 LOP 25.32 VP 37.517 GAP -8.00 AZP 88.85 TAL 195.33 TAP 308.80 RCA 101.57 APO 153.43 V2 34.957
RC 59.590 GL -21.37 GP -6.67 ZAL 120.67 ZAP 24.55 ETS 13.95 ZAE 147.89 ETE 3.63 ZAC 85.68 ETC 14.00 CLP -23.68

PLANETOCENTRIC CONIC
C3 13.341 VHL 3.653 DLA -8.12 RAL 143.42 RAD 6567.5 VEL 11.607 PTH 2.03 VHP 5.491 DPA -3.72 RAP 180.04 ECC 1.2196

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 50 48	1867.49	-9.92	20.59	357.71	116.66	4 21 56	1267.5	-6.26	13.82
90.00	13 46 17	5020.64	23.14	220.97	.55	73.21	15 9 58	4420.6	20.62	213.20
100.00	5 8 13	1617.74	-10.83	1.74	357.23	118.03	5 35 11	1017.7	-7.00	355.05
100.00	15 11 34	4745.63	24.12	200.40	.21	71.79	16 30 39	4145.6	21.41	192.66
110.00	6 7 31	1432.09	-13.24	346.24	355.82	121.81	6 31 23	832.1	-8.94	339.78
110.00	16 28 46	4504.03	26.73	181.00	359.15	67.85	17 43 50	3904.0	23.49	173.34

DIFFERENTIAL CORRECTIONS
TDE .3422 TRA -.2712 TC3 1.1596 BAU .2069
RDE -.2521 RRA -.0868 RC3 -.0299 FAU .07068
FDE -.8168 FRA -.3448 FC3-4.5867 BSP 3421
BDE .4251 BRA .2847 BC3 1.1599 FSP -889

MID-COURSE EXECUTION ACCURACY
SGT 1091.0 SGR 419.3 SG3 313.5
RRT -.3754 RRF .4305 RTF -.8314
SGB 1168.8 R23 -.0801 R13 .8373
SG1 1103.9 SG2 384.1 THA 170.65

ORBIT DETERMINATION ACCURACY
ST 552.7 SR 397.7 SS 614.7
CRT -.9420 CRS -.9968 CST .9346
LSA 903.5 MSA 156.0 SSA 25.2
EL1 671.9 EL2 109.8 ALF 144.79

LAUNCH DATE JUN 24 1967 FLIGHT TIME 100.00 ARRIVAL DATE OCT 2 1967

DISTANCE 266.813

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.633 GAL -3.89 AZL 92.82 HCA 116.67 SMA 128.06 ECC .19887 INC 2.8184 VI 29.301
RP 108.37 LAP -2.52 LOP 28.52 VP 37.590 GAP -7.33 AZP 88.73 TAL 196.08 TAP 312.75 RCA 102.59 APO 153.53 V2 34.970
RC 61.464 GL -21.30 GP -7.32 ZAL 121.88 ZAP 27.72 ETS 13.26 ZAE 148.62 ETE 1.90 ZAC 85.79 ETC 14.05 CLP -26.81

PLANETOCENTRIC CONIC
C3 12.943 VHL 3.598 DLA -7.63 RAL 142.27 RAD 6567.5 VEL 11.590 PTH 2.03 VHP 5.158 DPA -4.33 RAP 179.82 ECC 1.2130

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 42 25	1876.57	-10.19	21.11	356.17	116.56	4 13 42	1276.6	-6.55	14.33
90.00	13 45 32	4998.45	22.70	219.49	358.79	72.60	15 8 50	4398.4	20.10	211.78
100.00	5 0 5	1626.00	-11.09	2.22	355.70	117.94	5 27 11	1026.0	-7.27	355.51
100.00	15 10 32	4724.25	23.66	198.98	358.45	71.18	16 29 17	4124.2	20.87	191.30
110.00	5 59 57	1438.57	-13.47	346.60	354.31	121.72	6 23 56	838.6	-9.18	340.13
110.00	16 27 10	4484.44	26.22	179.70	357.37	67.24	17 41 55	3884.4	22.91	172.11

DIFFERENTIAL CORRECTIONS
TDE .3294 TRA -.2533 TC3 1.1843 BAU .2053
RDE -.2486 RRA -.0882 RC3 -.0759 FAU .07844
FDE -.8817 FRA -.4358 FC3-5.2469 BSP 3409
BDE .4127 BRA .2682 BC3 1.1868 FSP -1014

MID-COURSE EXECUTION ACCURACY
SGT 1080.3 SGR 424.1 SG3 353.2
RRT -.4291 RRF .4969 RTF -.8307
SGB 1160.5 R23 -.1005 R13 .8391
SG1 1097.6 SG2 377.1 THA 169.14

ORBIT DETERMINATION ACCURACY
ST 539.2 SR 398.3 SS 634.7
CRT -.9433 CRS -.9963 CST .9295
LSA 909.0 MSA 159.2 SSA 25.1
EL1 661.6 EL2 107.7 ALF 144.03

LAUNCH DATE JUN 24 1967 FLIGHT TIME 102.00 ARRIVAL DATE OCT 4 1967

HELIOCENTRIC CONIC DISTANCE 273.449

RL 152.05 LAL .00 LOL 271.82 VL 26.708 GAL -3.95 AZL 92.75 HCA 119.87 SMA 128.56 ECC .19490 INC 2.7535 VI 29.301
RP 108.33 LAP -2.39 LOP 31.71 VP 37.656 GAP -6.69 AZP 88.63 TAL 196.76 TAP 316.63 RCA 103.50 APO 153.61 V2 34.983
RC 63.388 GL -21.14 GP -8.06 ZAL 123.00 ZAP 31.11 ETS 12.68 ZAE 149.64 ETE 359.92 ZAC 86.12 ETC 14.09 CLP -30.16

PLANETOCENTRIC CONIC

C3 12.592 VHL 3.549 DLA -7.12 RAL 141.26 RAD 6567.5 VEL 11.575 PTH 2.02 VHP 4.847 DPA -4.95 RAP 179.39 ECC 1.2072

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 34 23	1887.18	-10.52	21.72	354.81	116.44	4 5 50	1287.2	-6.88	14.93
90.00	13 45 30	4976.05	22.23	218.01	357.21	72.00	15 8 26	4376.1	19.57	210.36
100.00	4 52 19	1635.76	-11.40	2.77	354.35	117.82	5 19 35	1035.8	-7.59	356.06
100.00	15 10 15	4702.71	23.18	197.56	356.86	70.58	16 28 38	4102.7	20.32	189.94
110.00	5 52 46	1446.45	-13.75	347.04	352.98	121.61	6 16 53	846.5	-9.47	340.55
110.00	16 26 17	4464.77	25.70	178.42	355.78	66.64	17 40 42	3864.8	22.31	170.90

DIFFERENTIAL CORRECTIONS
TDE .3154 TRA -.2373 TC3 1.1939 BAU .2022
RDE -.2460 RRA -.0910 RC3 -.1318 FAU .08724
FDE -.9531 FRA -.5387 FC3-5.9980 BSP 3397
BDE .4000 BRA .2542 BC3 1.2012 FSP -1159

MID-COURSE EXECUTION ACCURACY
SGT 1061.3 SGR 434.1 SG3 398.4
RRT -.4870 RRF .5693 RTF -.8281
SGB 1146.7 R23 -.1255 R13 .8403
SG1 1085.1 SG2 370.8 THA 167.22

ORBIT DETERMINATION ACCURACY
ST 522.9 SR 399.6 SS 656.1
CRT -.9436 CRS -.9956 CST .9236
LSA 914.6 MSA 162.8 SSA 24.8
EL1 649.4 EL2 106.5 ALF 143.04

LAUNCH DATE JUN 24 1967 FLIGHT TIME 104.00 ARRIVAL DATE OCT 6 1967

HELIOCENTRIC CONIC DISTANCE 280.065

RL 152.05 LAL .00 LOL 271.82 VL 26.774 GAL -4.00 AZL 92.68 HCA 123.06 SMA 129.00 ECC .19145 INC 2.6841 VI 29.301
RP 108.29 LAP -2.25 LOP 34.91 VP 37.715 GAP -6.06 AZP 88.53 TAL 197.38 TAP 320.45 RCA 104.30 APO 153.69 V2 34.996
RC 65.357 GL -20.91 GP -8.89 ZAL 124.02 ZAP 34.74 ETS 12.17 ZAE 150.94 ETE 357.58 ZAC 86.68 ETC 14.10 CLP -33.72

PLANETOCENTRIC CONIC

C3 12.278 VHL 3.504 DLA -6.57 RAL 140.40 RAD 6567.5 VEL 11.561 PTH 2.02 VHP 4.561 DPA -5.56 RAP 178.71 ECC 1.2021

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 26 43	1899.13	-10.88	22.42	353.63	116.31	3 58 22	1299.1	-7.26	15.61
90.00	13 46 15	4953.35	21.75	216.53	355.81	71.41	15 8 48	4353.4	19.01	208.93
100.00	4 44 56	1646.82	-11.75	3.41	353.18	117.68	5 12 22	1046.8	-7.96	356.68
100.00	15 10 43	4680.89	22.68	196.14	355.46	69.99	16 28 44	4080.9	19.75	188.57
110.00	5 46 1	1455.57	-14.08	347.54	351.83	121.48	6 10 16	855.6	-9.81	341.04
110.00	16 26 7	4444.91	25.15	177.13	354.37	66.05	17 40 12	3844.9	21.70	169.68

DIFFERENTIAL CORRECTIONS
TDE .2969 TRA -.2274 TC3 1.1749 BAU .1956
RDE -.2437 RRA -.0949 RC3 -.1981 FAU .09682
FDE-1.0238 FRA -.6468 FC3-6.8267 BSP 3312
BDE .3841 BRA .2464 BC3 1.1915 FSP -1315

MID-COURSE EXECUTION ACCURACY
SGT 1026.5 SGR 450.0 SG3 447.5
RRT -.5398 RRF .6426 RTF -.8189
SGB 1120.8 R23 -.1605 R13 .8376
SG1 1058.9 SG2 367.2 THA 164.82

ORBIT DETERMINATION ACCURACY
ST 498.9 SR 401.3 SS 674.0
CRT -.9406 CRS -.9947 CST .9146
LSA 914.1 MSA 167.2 SSA 24.4
EL1 631.2 EL2 107.7 ALF 141.56

LAUNCH DATE JUN 24 1967 FLIGHT TIME 106.00 ARRIVAL DATE OCT 8 1967

HELIOCENTRIC CONIC DISTANCE 286.660

RL 152.05 LAL .00 LOL 271.82 VL 26.831 GAL -4.04 AZL 92.61 HCA 126.26 SMA 129.38 ECC .18845 INC 2.6095 VI 29.301
RP 108.25 LAP -2.10 LOP 38.11 VP 37.767 GAP -5.46 AZP 88.46 TAL 197.93 TAP 324.19 RCA 105.00 APO 153.77 V2 35.009
RC 67.365 GL -20.60 GP -9.84 ZAL 124.94 ZAP 38.62 ETS 11.71 ZAE 152.52 ETE 354.72 ZAC 87.51 ETC 14.07 CLP -37.53

PLANETOCENTRIC CONIC

C3 11.991 VHL 3.463 DLA -6.00 RAL 139.67 RAD 6567.5 VEL 11.549 PTH 2.02 VHP 4.298 DPA -6.17 RAP 177.76 ECC 1.1973

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 19 26	1912.35	-11.28	23.18	352.63	116.15	3 51 18	1312.4	-7.67	16.36
90.00	13 47 46	4930.15	21.24	215.02	354.59	70.82	15 9 57	4330.1	18.43	207.47
100.00	4 37 56	1659.12	-12.14	4.11	352.18	117.53	5 5 35	1059.1	-8.36	357.37
100.00	15 11 58	4658.62	22.15	194.69	354.23	69.40	16 29 36	4058.6	19.15	187.18
110.00	5 39 40	1465.83	-14.44	348.11	350.85	121.32	6 4 6	865.8	-10.19	341.59
110.00	16 26 43	4424.67	24.59	175.83	353.13	65.47	17 40 27	3824.7	21.07	168.45

DIFFERENTIAL CORRECTIONS
TDE .2753 TRA -.2223 TC3 1.1290 BAU .1864
RDE -.2421 RRA -.1001 RC3 -.2769 FAU .10726
FDE-1.0943 FRA -.7605 FC3-7.7440 BSP 3183
BDE .3666 BRA .2438 BC3 1.1624 FSP -1487

MID-COURSE EXECUTION ACCURACY
SGT 977.6 SGR 474.3 SG3 501.1
RRT -.5841 RRF .7141 RTF -.8025
SGB 1086.5 R23 -.2054 R13 .8326
SG1 1022.3 SG2 368.1 THA 161.73

ORBIT DETERMINATION ACCURACY
ST 469.4 SR 403.7 SS 689.6
CRT -.9343 CRS -.9940 CST .9022
LSA 910.3 MSA 171.9 SSA 24.0
EL1 609.1 EL2 110.9 ALF 139.60

LAUNCH DATE JUN 24 1967 FLIGHT TIME 108.00 ARRIVAL DATE OCT 10 1967

HELIOCENTRIC CONIC DISTANCE 293.234

RL 152.05 LAL .00 LOL 271.82 VL 26.880 GAL -4.07 AZL 92.53 HCA 129.47 SMA 129.72 ECC .18586 INC 2.5284 VI 29.301
RP 108.20 LAP -1.95 LOP 41.31 VP 37.814 GAP -4.88 AZP 88.39 TAL 198.40 TAP 327.86 RCA 105.61 APO 153.82 V2 35.023
RC 69.409 GL -20.21 GP -10.92 ZAL 125.76 ZAP 42.76 ETS 11.25 ZAE 154.34 ETE 351.11 ZAC 88.61 ETC 13.99 CLP -41.61

PLANETOCENTRIC CONIC

C3 11.725 VHL 3.424 DLA -5.39 RAL 139.10 RAD 6567.4 VEL 11.537 PTH 2.01 VHP 4.060 DPA -6.80 RAP 176.53 ECC 1.1930

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 12 29	1926.88	-11.71	24.03	351.80	115.97	3 44 36	1326.9	-8.12	17.19
90.00	13 50 8	4906.17	20.69	213.47	353.53	70.23	15 11 54	4306.2	17.81	205.98
100.00	4 31 17	1672.68	-12.57	4.90	351.36	117.35	4 59 10	1072.7	-8.81	358.13
100.00	15 14 1	4635.61	21.59	193.21	353.17	68.81	16 31 17	4035.6	18.52	185.76
110.00	5 33 43	1477.26	-14.84	348.75	350.05	121.15	5 58 20	877.3	-10.61	342.21
110.00	16 28 5	4403.80	23.99	174.50	352.06	64.89	17 41 29	3803.8	20.41	167.19

DIFFERENTIAL CORRECTIONS
TDE .2525 TRA -.2209 TC3 1.0578 BAU .1757
RDE -.2412 RRA -.1069 RC3 -.3712 FAU .11865
FDE-1.1665 FRA -.8815 FC3-8.7611 BSP 3057
BDE .3492 BRA .2454 BC3 1.1210 FSP -1681

MID-COURSE EXECUTION ACCURACY
SGT 917.1 SGR 509.7 SG3 560.0
RRT -.6161 RRF .7808 RTF -.7774
SGB 1049.2 R23 -.2572 R13 .8277
SG1 979.6 SG2 375.9 THA 157.63

ORBIT DETERMINATION ACCURACY
ST 437.4 SR 407.3 SS 705.1
CRT -.9243 CRS -.9933 CST .8860
LSA 907.0 MSA 176.8 SSA 23.4
EL1 586.3 EL2 115.9 ALF 137.21

LAUNCH DATE JUN 24 1967 FLIGHT TIME 110.00 ARRIVAL DATE OCT 12 1967

DISTANCE 299.785

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.922 GAL -4.09 AZL 92.44 HCA 132.67 SMA 130.00 ECC .18365 INC 2.4395 V1 29.301
RP 108.16 LAP -1.79 LOP 44.52 VP 37.856 GAP -4.32 AZP 88.35 TAL 198.78 TAP 331.45 RCA 106.12 APO 153.87 V2 35.036
RC 71.485 GL -19.72 GP -12.14 ZAL 126.47 ZAP 47.18 ETS 10.77 ZAE 156.36 ETE 346.42 ZAC 90.01 ETC 13.84 CLP -45.96

PLANETOCENTRIC CONIC
C3 11.471 VHL 3.387 DLA -4.73 RAL 138.68 RAD 6567.4 VEL 11.526 PTH 2.01 VHP 3.848 DPA -7.44 RAP 174.99 ECC 1.1888

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 5 52	1942.83	-12.18	24.96	351.14	115.76	3 38 15	1342.8	-8.62	18.10
90.00	13 53 24	4881.08	20.11	211.86	352.64	69.63	15 14 45	4281.1	17.15	204.43
100.00	4 24 59	1687.61	-13.03	5.76	350.70	117.14	4 53 7	1087.6	-9.29	358.97
100.00	15 16 58	4611.54	20.99	191.68	352.28	68.22	16 33 49	4011.5	17.85	184.29
110.00	5 28 8	1489.92	-15.29	349.47	349.41	120.95	5 52 57	889.9	-11.07	342.90
110.00	16 30 18	4381.99	23.35	173.13	351.15	64.30	17 43 20	3782.0	19.70	165.89

DIFFERENTIAL CORRECTIONS
TDE .2250 TRA -.2268 TC3 .9470 BAU .1629
RDE -.2405 RRA -.1147 RC3 -.4819 FAU .13041
FDE-1.2270 FRA -.9970 FC3-9.8425 BSP 2870
BDE .3294 BRA .2541 BC3 1.0626 FSP -1879

MID-COURSE EXECUTION ACCURACY
SGT 839.4 SGR 556.8 SG3 620.8
RRT -.6191 RRF .8375 RTF -.7321
SGB 1007.3 R23 -.3157 R13 .8221
SG1 926.0 SG2 396.4 THA 152.14

ORBIT DETERMINATION ACCURACY
ST 398.3 SR 411.2 SS 713.7
CRT -.9058 CRS -.9929 CST .8603
LSA 896.3 MSA 181.9 SSA 22.9
EL1 558.8 EL2 124.2 ALF 133.99

LAUNCH DATE JUN 24 1967 FLIGHT TIME 112.00 ARRIVAL DATE OCT 14 1967

DISTANCE 306.314

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.956 GAL -4.10 AZL 92.34 HCA 135.88 SMA 130.23 ECC .18178 INC 2.3408 V1 29.301
RP 108.12 LAP -1.63 LOP 47.72 VP 37.892 GAP -3.78 AZP 88.32 TAL 199.08 TAP 334.96 RCA 106.56 APO 153.91 V2 35.049
RC 73.590 GL -19.14 GP -13.51 ZAL 127.08 ZAP 51.87 ETS 10.23 ZAE 158.47 ETE 340.18 ZAC 91.69 ETC 13.59 CLP -50.58

PLANETOCENTRIC CONIC
C3 11.223 VHL 3.350 DLA -4.02 RAL 138.41 RAD 6567.4 VEL 11.516 PTH 2.01 VHP 3.664 DPA -8.12 RAP 173.15 ECC 1.1847

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 59 28	1960.48	-12.70	26.00	350.64	115.52	3 32 8	1360.5	-9.16	19.11
90.00	13 57 40	4854.39	19.47	210.17	351.90	69.02	15 18 34	4254.4	16.44	202.80
100.00	4 18 55	1704.16	-13.55	6.72	350.22	116.90	4 47 20	1104.2	-9.83	359.90
100.00	15 20 53	4585.94	20.34	190.06	351.53	67.61	16 37 19	3985.9	17.13	182.74
110.00	5 22 51	1504.05	-15.78	350.26	348.95	120.72	5 47 55	904.0	-11.59	343.67
110.00	16 33 27	4358.82	22.66	171.68	350.40	63.70	17 46 6	3758.8	18.94	164.52

DIFFERENTIAL CORRECTIONS
TDE .1950 TRA -.2385 TC3 .7976 BAU .1508
RDE -.2399 RRA -.1236 RC3 -.6120 FAU .14231
FDE-1.2732 FRA-1.1038 FC-10.9776 BSP 2681
BDE .3091 BRA .2687 BC3 1.0053 FSP -2081

MID-COURSE EXECUTION ACCURACY
SGT 751.0 SGR 617.6 SG3 682.6
RRT -.5806 RRF .8834 RTF -.6544
SGB 972.3 R23 -.3620 R13 .8244
SG1 870.1 SG2 434.0 THA 144.37

ORBIT DETERMINATION ACCURACY
ST 355.7 SR 415.3 SS 715.7
CRT -.8746 CRS -.9926 CST .8207
LSA 880.8 MSA 187.2 SSA 22.4
EL1 529.9 EL2 135.2 ALF 129.96

LAUNCH DATE JUN 24 1967 FLIGHT TIME 114.00 ARRIVAL DATE OCT 16 1967

DISTANCE 312.820

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.983 GAL -4.10 AZL 92.23 HCA 139.09 SMA 130.42 ECC .18020 INC 2.2299 V1 29.301
RP 108.08 LAP -1.46 LOP 50.93 VP 37.924 GAP -3.26 AZP 88.31 TAL 199.29 TAP 338.38 RCA 106.92 APO 153.93 V2 35.062
RC 75.721 GL -18.43 GP -15.06 ZAL 127.60 ZAP 56.82 ETS 9.59 ZAE 160.48 ETE 331.76 ZAC 93.65 ETC 13.22 CLP -55.48

PLANETOCENTRIC CONIC
C3 10.976 VHL 3.313 DLA -3.24 RAL 138.30 RAD 6567.4 VEL 11.505 PTH 2.00 VHP 3.507 DPA -8.86 RAP 171.00 ECC 1.1806

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 53 11	1980.30	-13.28	27.17	350.32	115.24	3 26 11	1380.3	-9.77	20.24
90.00	14 3 5	4825.42	18.75	208.34	351.32	68.38	15 23 30	4225.4	15.65	201.04
100.00	4 13 0	1722.79	-14.12	7.81	349.90	116.63	4 41 43	1122.8	-10.43	.96
100.00	15 25 56	4558.16	19.61	188.32	350.94	66.97	16 41 55	3958.2	16.32	181.06
110.00	5 17 47	1520.02	-16.33	351.17	348.65	120.45	5 43 7	920.0	-12.17	344.54
110.00	16 37 39	4333.70	21.90	170.14	349.80	63.07	17 49 53	3733.7	18.11	163.05

DIFFERENTIAL CORRECTIONS
TDE .1642 TRA -.2545 TC3 .6106 BAU .1437
RDE -.2394 RRA -.1339 RC3 -.7659 FAU .15415
FDE-1.3040 FRA-1.2018 FC-12.1582 BSP 2568
BDE .2903 BRA .2876 BC3 .9795 FSP -2292

MID-COURSE EXECUTION ACCURACY
SGT 662.3 SGR 694.8 SG3 744.9
RRT -.4794 RRF .9190 RTF -.5223
SGB 959.9 R23 -.3518 R13 .8541
SG1 826.1 SG2 488.9 THA 132.14

ORBIT DETERMINATION ACCURACY
ST 313.5 SR 420.1 SS 712.9
CRT -.8242 CRS -.9924 CST .7604
LSA 863.4 MSA 192.4 SSA 21.9
EL1 502.8 EL2 148.3 ALF 125.10

LAUNCH DATE JUN 24 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 18 1967

DISTANCE 319.304

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 27.005 GAL -4.09 AZL 92.10 HCA 142.30 SMA 130.57 ECC .17890 INC 2.1035 V1 29.301
RP 108.04 LAP -1.29 LOP 54.14 VP 37.952 GAP -2.75 AZP 88.34 TAL 199.41 TAP 341.71 RCA 107.21 APO 153.93 V2 35.075
RC 77.874 GL -17.57 GP -16.79 ZAL 128.03 ZAP 61.99 ETS 8.80 ZAE 162.11 ETE 320.57 ZAC 95.86 ETC 12.69 CLP -60.63

PLANETOCENTRIC CONIC
C3 10.726 VHL 3.275 DLA -2.36 RAL 138.36 RAD 6567.4 VEL 11.494 PTH 2.00 VHP 3.381 DPA -9.69 RAP 168.56 ECC 1.1765

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 46 50	2002.99	-13.94	28.51	350.17	114.90	3 20 13	1403.0	-10.46	21.55
90.00	14 9 53	4793.29	17.93	206.34	350.88	67.71	15 29 46	4193.3	14.75	199.11
100.00	4 7 5	1744.14	-14.76	9.07	349.76	116.29	4 36 9	1144.1	-11.11	2.18
100.00	15 32 19	4527.37	18.78	186.41	350.51	66.30	16 47 47	3927.4	15.41	179.23
110.00	5 12 48	1538.40	-16.97	352.22	348.53	120.13	5 38 27	938.4	-12.83	345.55
110.00	16 43 5	4305.88	21.03	168.44	349.36	62.41	17 54 51	3705.9	17.17	161.44

DIFFERENTIAL CORRECTIONS
TDE .1310 TRA -.2770 TC3 .3727 BAU .1453
RDE -.2374 RRA -.1440 RC3 -.9426 FAU .16459
FDE-1.2973 FRA-1.2670 FC-13.2850 BSP 2547
BDE .2711 BRA .3122 BC3 1.0136 FSP -2478

MID-COURSE EXECUTION ACCURACY
SGT 589.4 SGR 785.7 SG3 800.3
RRT -.2669 RRF .9447 RTF -.2873
SGB 982.2 R23 -.2029 R13 .9233
SG1 815.7 SG2 547.1 THA 111.24

ORBIT DETERMINATION ACCURACY
ST 271.5 SR 422.6 SS 695.2
CRT -.7346 CRS -.9923 CST .6579
LSA 834.3 MSA 197.8 SSA 21.5
EL1 474.8 EL2 164.0 ALF 119.06

LAUNCH DATE JUN 24 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 20 1967

HELIOCENTRIC CONIC DISTANCE 325.764

RL 152.05 LAL .00 LOL 271.82 VL 27.021 GAL -4.07 AZL 91.96 HCA 145.51 SMA 130.69 ECC .17784 INC 1.9572 V1 29.301
RP 108.00 LAP -1.11 LOP 57.35 VP 37.975 GAP -2.26 AZP 88.39 TAL 199.45 TAP 344.96 RCA 107.44 APO 153.93 V2 35.088
RC 80.046 GL -16.53 GP -18.74 ZAL 128.38 ZAP 67.34 ETS 7.84 ZAE 162.95 ETE 306.55 ZAC 98.29 ETC 11.98 CLP -66.00

PLANETOCENTRIC CONIC

C3 10.467 VHL 3.235 DLA -1.34 RAL 138.59 RAD 6567.4 VEL 11.483 PTH 2.00 VHP 3.287 DPA -10.64 RAP 165.85 ECC 1.1723

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 40 13	2029.63	-14.69	30.10	350.21	114.48	3 14 2	1429.6	-11.27	23.10
90.00	14 18 23	4756.75	16.97	204.09	350.61	66.99	15 37 39	4156.8	13.71	196.93
100.00	4 0 56	1769.25	-15.52	10.55	349.81	115.87	4 30 25	1169.3	-11.91	3.62
100.00	15 40 21	4492.37	17.81	184.26	350.23	65.59	16 55 13	3892.4	14.36	177.16
110.00	5 7 45	1560.10	-17.70	353.47	348.60	119.73	5 33 45	960.1	-13.61	346.75
110.00	16 50 1	4274.28	20.02	166.55	349.06	61.70	18 1 15	3674.3	16.08	159.64

DIFFERENTIAL CORRECTIONS
TDE .0983 TRA -.3034 TC3 .0875 BAU .1608
RDE -.2332 RRA -.1536 RC3-1.1460 FAU .17313
FDE-1.2481 FRA-1.2956 FC-14.3188 BSP 2714
BDE .2531 BRA .3401 BC3 1.1494 FSP -2630

MID-COURSE EXECUTION ACCURACY
SGT 567.8 SGR 891.4 SG3 846.5
RRT .0639 RRF .9627 RTF .0583
SGB 1056.9 R23 .0448 R13 .9617
SG1 892.6 SG2 565.9 THA 86.10

ORBIT DETERMINATION ACCURACY
ST 237.4 SR 421.6 SS 662.2
CRT -.5877 CRS -.9921 CST .4958
LSA 794.2 MSA 203.4 SSA 21.2
EL1 449.0 EL2 180.3 ALF 112.05

LAUNCH DATE JUN 24 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 22 1967

HELIOCENTRIC CONIC DISTANCE 332.202

RL 152.05 LAL .00 LOL 271.82 VL 27.032 GAL -4.04 AZL 91.78 HCA 148.73 SMA 130.76 ECC .17700 INC 1.7847 V1 29.301
RP 107.96 LAP -.93 LOP 60.56 VP 37.995 GAP -1.78 AZP 88.47 TAL 199.40 TAP 348.13 RCA 107.62 APO 153.91 V2 35.101
RC 82.236 GL -15.25 GP -20.94 ZAL 128.64 ZAP 72.79 ETS 6.64 ZAE 162.58 ETE 291.06 ZAC 100.87 ETC 11.05 CLP -71.53

PLANETOCENTRIC CONIC

C3 10.198 VHL 3.193 DLA -.13 RAL 139.02 RAD 6567.4 VEL 11.471 PTH 1.99 VHP 3.227 DPA -11.76 RAP 162.92 ECC 1.1678

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 32 57	2061.87	-15.59	32.04	350.46	113.94	3 7 19	1461.9	-12.23	24.98
90.00	14 29 3	4714.01	15.82	201.48	350.50	66.20	15 47 37	4114.0	12.47	194.41
100.00	3 54 14	1799.68	-16.41	12.37	350.07	115.34	4 24 14	1199.7	-12.86	5.37
100.00	15 50 27	4451.43	16.64	181.78	350.11	64.80	17 4 38	3851.4	13.10	174.77
110.00	5 2 20	1586.50	-18.59	355.01	348.89	119.22	5 28 47	986.5	-14.55	348.22
110.00	16 58 50	4237.38	18.81	164.36	348.94	60.92	18 9 27	3637.4	14.79	157.55

DIFFERENTIAL CORRECTIONS
TDE .0694 TRA -.3313 TC3 -.2433 BAU .1913
RDE -.2263 RRA -.1626 RC3-1.3821 FAU .17931
FDE-1.1577 FRA-1.2883 FC-15.2216 BSP 3135
BDE .2368 BRA .3690 BC3 1.4034 FSP -2761

MID-COURSE EXECUTION ACCURACY
SGT 626.9 SGR 1014.5 SG3 881.8
RRT .4088 RRF .9754 RTF .4104
SGB 1192.6 R23 .1643 R13 .9615
SG1 1059.2 SG2 547.9 THA 70.37

ORBIT DETERMINATION ACCURACY
ST 217.6 SR 416.3 SS 615.9
CRT -.3849 CRS -.9917 CST .2782
LSA 745.4 MSA 209.5 SSA 21.0
EL1 426.9 EL2 195.8 ALF 104.48

LAUNCH DATE JUN 24 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 24 1967

HELIOCENTRIC CONIC DISTANCE 338.618

RL 152.05 LAL .00 LOL 271.82 VL 27.038 GAL -3.99 AZL 91.58 HCA 151,95 SMA 130.80 ECC .17636 INC 1.5769 V1 29.301
RP 107.92 LAP -.74 LOP 63.78 VP 38.010 GAP -1.31 AZP 88.61 TAL 199.26 TAP 351.21 RCA 107.73 APO 153.87 V2 35.113
RC 84.440 GL -13.64 GP -23.42 ZAL 128.82 ZAP 78.24 ETS 5.16 ZAE 160.81 ETE 276.54 ZAC 103.53 ETC 9.85 CLP -77.17

PLANETOCENTRIC CONIC

C3 9.915 VHL 3.149 DLA 1.35 RAL 139.67 RAD 6567.4 VEL 11.459 PTH 1.99 VHP 3.204 DPA -13.15 RAP 159.80 ECC 1.1632

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 24 33	2102.23	-16.69	34.49	350.98	113.21	2 59 35	1502.2	-13.41	27.35
90.00	14 42 38	4662.43	14.38	198.38	350.59	65.34	16 0 20	4062.4	10.93	191.40
100.00	3 46 31	1837.83	-17.51	14.67	350.60	114.62	4 17 9	1237.8	-14.04	7.59
100.00	16 3 21	4402.07	15.18	178.84	350.19	63.94	17 16 43	3802.1	11.56	171.93
110.00	4 56 13	1619.70	-19.68	356.97	349.45	118.53	5 23 12	1019.7	-15.72	350.09
110.00	17 10 9	4192.96	17.32	161.78	349.01	60.06	18 20 2	3593.0	13.21	155.08

DIFFERENTIAL CORRECTIONS
TDE .0458 TRA -.3600 TC3 -.6262 BAU .2337
RDE -.2131 RRA -.1679 RC3-1.6476 FAU .18145
FDE-1.0007 FRA-1.2194 FC-15.8428 BSP 3748
BDE .2179 BRA .3973 BC3 1.7626 FSP -2816

MID-COURSE EXECUTION ACCURACY
SGT 769.4 SGR 1149.1 SG3 897.0
RRT .6530 RRF .9838 RTF .6557
SGB 1382.9 R23 .1991 R13 .9636
SG1 1280.1 SG2 523.1 THA 61.13

ORBIT DETERMINATION ACCURACY
ST 213.8 SR 399.6 SS 543.0
CRT -.1625 CRS -.9903 CST .0409
LSA 673.0 MSA 216.6 SSA 21.2
EL1 401.7 EL2 209.9 ALF 96.85

LAUNCH DATE JUN 24 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 26 1967

HELIOCENTRIC CONIC DISTANCE 345.011

RL 152.05 LAL .00 LOL 271.82 VL 27.040 GAL -3.94 AZL 91.32 HCA 155.17 SMA 130.82 ECC .17590 INC 1.3199 V1 29.301
RP 107.89 LAP -.55 LOP 67.00 VP 38.023 GAP -.86 AZP 88.80 TAL 199.05 TAP 354.22 RCA 107.81 APO 153.83 V2 35.125
RC 86.655 GL -11.56 GP -26.28 ZAL 128.92 ZAP 83.59 ETS 3.32 ZAE 157.72 ETE 264.84 ZAC 106.18 ETC 8.32 CLP -82.85

PLANETOCENTRIC CONIC

C3 9.620 VHL 3.102 DLA 3.24 RAL 140.59 RAD 6567.3 VEL 11.446 PTH 1.99 VHP 3.223 DPA -14.89 RAP 156.52 ECC 1.1583

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 14 10	2154.83	-18.08	37.73	351.84	112.17	2 50 5	1554.8	-14.91	30.49
90.00	15 0 18	4597.88	12.51	194.56	350.93	64.39	16 16 56	3997.9	8.96	187.68
100.00	3 37 2	1887.58	-18.89	17.72	351.47	113.61	4 8 29	1287.6	-15.54	10.53
100.00	16 20 8	4340.36	13.30	175.22	350.52	62.98	17 32 28	3740.4	9.58	168.42
110.00	4 48 45	1663.13	-21.07	359.57	350.36	117.56	5 16 28	1063.1	-17.21	352.56
110.00	17 24 55	4137.59	15.42	158.62	349.32	59.11	18 33 52	3537.6	11.21	152.05

DIFFERENTIAL CORRECTIONS
TDE .0332 TRA -.3852 TC3-1.0539 BAU .2854
RDE -.1915 RRA -.1695 RC3-1.9531 FAU .17957
FDE -.7836 FRA-1.1002 FC-16.1591 BSP 4546
BDE .1944 BRA .4208 BC3 2.2193 FSP -2818

MID-COURSE EXECUTION ACCURACY
SGT 969.1 SGR 1300.5 SG3 892.6
RRT .7886 RRF .9896 RTF .7906
SGB 1621.9 R23 .2010 R13 .9691
SG1 1542.0 SG2 502.6 THA 55.36

ORBIT DETERMINATION ACCURACY
ST 223.3 SR 367.8 SS 445.4
CRT -.0109 CRS -.9865 CST -.1332
LSA 576.0 MSA 226.3 SSA 22.0
EL1 367.9 EL2 223.3 ALF 90.60

LAUNCH DATE JUN 24 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 28 1967

DISTANCE 351.382

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 27.038 GAL -3.87 AZL 90.99 HCA 158.39 SMA 130.80 ECC .17561 INC .9915 V1 29.301
RP 107.85 LAP -.37 LOP 70.21 VP 38.032 GAP -.43 AZP 89.08 TAL 198.75 TAP 357.14 RCA 107.83 APO 153.77 V2 35.137
RC 88.880 GL -8.80 GP -29.64 ZAL 128.92 ZAP 88.69 ETS 1.06 ZAE 153.54 ETE 256.33 ZAC 108.71 ETC 6.38 CLP -88.49

PLANETOCENTRIC CONIC
C3 9.320 VHL 3.053 DLA 5.73 RAL 141.84 RAD 6567.3 VEL 11.433 PTH 1.98 VHP 3.291 DPA -17.14 RAP 153.11 ECC 1.1534

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 0 25	2226.67	-19.86	42.25	353.20	110.61	2 37 32	1626.7	-16.88	34.84
90.00	15 24 6	4513.61	9.98	189.66	351.64	63.36	16 39 20	3913.6	6.33	182.89
100.00	3 24 28	1955.56	-20.69	21.96	352.86	112.07	3 57 4	1355.6	-17.51	14.61
100.00	16 42 44	4259.96	10.77	170.59	351.23	61.95	17 53 44	3660.0	6.94	163.91
110.00	4 38 56	1722.53	-22.90	3.21	351.80	116.10	5 7 38	1122.5	-19.20	356.02
110.00	17 44 46	4065.74	12.86	154.62	349.99	58.05	18 52 32	3465.7	8.55	148.18

DIFFERENTIAL CORRECTIONS
TDE .0378 TRA -.4035 TC3-1.5263 BAU .3434
RDE -.1549 RRA -.1628 RC3-2.2950 FAU .17226
FDE -.4896 FRA -.9141 FC-16.0015 BSP 5449
BDE .1595 BRA .4351 BC3 2.7562 FSP -2720

MID-COURSE EXECUTION ACCURACY
SGT 1205.3 SGR 1463.6 SG3 860.8
RRT .8610 RRF .9934 RTF .8620
SGB 1896.0 R23 .1945 R13 .9743
SG1 1831.6 SG2 489.9 THA 51.39

ORBIT DETERMINATION ACCURACY
ST 240.7 SR 307.9 SS 311.2
CRT .0210 CRS -.9709 CST -.2316
LSA 436.1 MSA 242.4 SSA 24.7
EL1 308.0 EL2 240.6 ALF 87.59

LAUNCH DATE JUN 24 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 30 1967

DISTANCE 357.733

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 27.032 GAL -3.80 AZL 90.55 HCA 161.61 SMA 130.76 ECC .17546 INC .5536 V1 29.301
RP 107.82 LAP -.17 LOP 73.44 VP 38.038 GAP -.00 AZP 89.47 TAL 198.38 TAP 360.00 RCA 107.82 APO 153.70 V2 35.149
RC 91.113 GL -4.98 GP -33.70 ZAL 128.76 ZAP 93.36 ETS 358.24 ZAE 148.39 ETE 250.52 ZAC 111.02 ETC 3.93 CLP -94.04

PLANETOCENTRIC CONIC
C3 9.037 VHL 3.006 DLA 9.18 RAL 143.59 RAD 6567.3 VEL 11.420 PTH 1.98 VHP 3.426 DPA -20.11 RAP 149.52 ECC 1.1487

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 40 34	2330.86	-22.21	48.98	355.40	108.03	2 19 25	1730.9	-19.54	41.33
90.00	15 57 51	4397.49	6.37	183.04	353.00	62.35	17 11 8	3797.5	2.62	176.37
100.00	3 6 24	2054.03	-23.07	28.31	355.08	109.55	3 40 38	1454.0	-20.20	20.69
100.00	17 14 42	4149.55	7.17	164.37	352.56	60.90	18 23 52	3549.5	3.24	157.80
110.00	4 24 52	1808.49	-25.36	8.67	354.08	113.72	4 55 0	1208.5	-21.94	1.19
110.00	18 12 43	3967.86	9.28	149.30	351.27	56.95	19 18 51	3367.9	4.87	143.00

DIFFERENTIAL CORRECTIONS
TDE .0702 TRA -.4093 TC3-2.0326 BAU .4092
RDE -.1026 RRA -.1519 RC3-2.7097 FAU .16126
FDE -.1681 FRA -.7137 FC-15.4482 BSP 6596
BDE .1243 BRA .4366 BC3 3.3873 FSP -2619

MID-COURSE EXECUTION ACCURACY
SGT 1461.4 SGR 1666.9 SG3 811.7
RRT .9017 RRF .9960 RTF .9029
SGB 2216.8 R23 .1795 R13 .9798
SG1 2162.6 SG2 487.0 THA 49.16

ORBIT DETERMINATION ACCURACY
ST 274.6 SR 220.0 SS 175.4
CRT -.0581 CRS -.8642 CST -.4016
LSA 293.3 MSA 260.1 SSA 30.5
EL1 275.4 EL2 219.0 ALF 172.72

LAUNCH DATE JUN 24 1967 FLIGHT TIME 130.00 ARRIVAL DATE NOV 1 1967

DISTANCE 364.057

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 27.022 GAL -3.71 AZL 89.94 HCA 164.84 SMA 130.69 ECC .17545 INC .0469 V1 29.301
RP 107.78 LAP .02 LOP 76.66 VP 38.042 GAP .41 AZP 90.06 TAL 197.94 TAP 2.78 RCA 107.76 APO 153.62 V2 35.160
RC 93.352 GL .56 GP -38.79 ZAL 128.24 ZAP 97.36 ETS 354.71 ZAE 142.23 ETE 246.82 ZAC 112.94 ETC .78 CLP -99.46

PLANETOCENTRIC CONIC
C3 8.841 VHL 2.973 DLA 14.20 RAL 146.09 RAD 6567.3 VEL 11.412 PTH 1.98 VHP 3.659 DPA -24.11 RAP 145.61 ECC 1.1455

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 8 30	2495.27	-25.24	60.07	359.13	103.28	1 50 5	1895.3	-23.16	52.02
90.00	16 49 56	4224.64	.83	173.35	355.64	61.69	18 0 21	3624.6	-2.96	166.72
100.00	2 37 23	2208.58	-26.20	38.72	358.86	104.93	3 14 12	1608.6	-23.90	30.68
100.00	18 3 44	3986.55	1.70	155.37	355.16	60.15	19 10 10	3386.6	-2.28	148.85
110.00	4 2 33	1942.13	-28.71	17.61	357.99	109.40	4 34 55	1342.1	-25.80	9.64
110.00	18 55 3	3825.78	3.93	141.78	353.77	56.02	19 58 49	3225.8	-.56	135.57

DIFFERENTIAL CORRECTIONS
TDE .1523 TRA -.3915 TC3-2.5394 BAU .4725
RDE .0025 RRA -.1092 RC3-3.0875 FAU .14053
FDE .2897 FRA -.3922 FC-13.7612 BSP 7535
BDE .1523 BRA .4065 BC3 3.9977 FSP -2260

MID-COURSE EXECUTION ACCURACY
SGT 1724.0 SGR 1848.9 SG3 711.9
RRT .9233 RRF .9976 RTF .9242
SGB 2527.9 R23 .1732 R13 .9825
SG1 2479.2 SG2 493.7 THA 47.17

ORBIT DETERMINATION ACCURACY
ST 377.7 SR 85.4 SS 206.5
CRT .5929 CRS -.5641 CST -.9304
LSA 428.3 MSA 68.6 SSA 66.9
EL1 381.2 EL2 68.2 ALF 7.89

LAUNCH DATE JUN 24 1967 FLIGHT TIME 132.00 ARRIVAL DATE NOV 3 1967

DISTANCE 370.359

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 27.010 GAL -3.61 AZL 89.00 HCA 168.06 SMA 130.61 ECC .17557 INC 1.0025 V1 29.301
RP 107.75 LAP .21 LOP 79.88 VP 38.043 GAP .82 AZP 90.98 TAL 197.42 TAP 5.49 RCA 107.68 APO 153.54 V2 35.170
RC 95.596 GL 9.07 GP -45.45 ZAL 126.82 ZAP 100.32 ETS 350.24 ZAE 134.74 ETE 244.61 ZAC 114.27 ETC 356.66 CLP-104.80

PLANETOCENTRIC CONIC
C3 8.956 VHL 2.993 DLA 21.90 RAL 149.99 RAD 6567.3 VEL 11.417 PTH 1.98 VHP 4.067 DPA -29.59 RAP 141.04 ECC 1.1474

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	0 3 15	2802.05	-28.20	81.97	5.96	92.74	0 49 57	2202.0	-27.52	73.37
90.00	18 26 18	3922.84	-8.79	156.40	1.58	62.97	19 31 40	3322.8	-12.34	149.52
100.00	1 40 4	2489.86	-29.53	58.91	5.86	94.84	2 21 34	1889.9	-28.55	50.24
100.00	19 32 10	3710.26	-7.60	140.14	.94	61.00	20 34 0	3110.3	-11.41	133.42
110.00	3 20 33	2175.50	-32.81	34.53	5.36	100.18	3 56 49	1575.5	-31.06	25.74
110.00	20 8 10	3597.39	-4.78	129.85	359.21	56.11	21 8 7	2997.4	-9.20	123.54

DIFFERENTIAL CORRECTIONS
TDE .3213 TRA -.3369 TC3-2.9582 BAU .5417
RDE .1733 RRA -.0406 RC3-3.4226 FAU .11491
FDE .7410 FRA -.0817 FC-11.1079 BSP 8725
BDE .3651 BRA .3393 BC3 4.5239 FSP -1880

MID-COURSE EXECUTION ACCURACY
SGT 1999.2 SGR 2077.0 SG3 587.5
RRT .9367 RRF .9986 RTF .9387
SGB 2882.8 R23 .1615 R13 .9856
SG1 2836.9 SG2 512.3 THA 46.17

ORBIT DETERMINATION ACCURACY
ST 651.7 SR 338.4 SS 503.7
CRT .9641 CRS -.9983 CST -.9568
LSA 881.3 MSA 126.8 SSA 14.3
EL1 729.9 EL2 80.2 ALF 26.95

```
LAUNCH DATE  JUN 24 1967                          FLIGHT TIME 134.00                          ARRIVAL DATE  NOV  5 1967

 HELIOCENTRIC CONIC                                DISTANCE 376.636
  RL  152.05 LAL     .00 LOL 271.82 VL  26.994 GAL  -3.50 AZL  87.37 HCA 171.28 SMA 130.50 ECC .17580 INC 2.6263 V1  29.301
  RP  107.72 LAP     .40 LOP  83.11 VP  38.041 GAP   1.21 AZP  92.60 TAL 196.84 TAP   8.12 RCA 107.56 APO 153.44 V2  35.180
  RC  97.843 GL    22.69 GP  -54.48 ZAL 122.95 ZAP 101.65 ETS 344.49 ZAE 125.25 ETE 243.25 ZAC 114.62 ETC 351.10 CLP-110.34
 PLANETOCENTRIC CONIC
  C3  10.245 VHL  3.201 DLA  34.11 RAL 156.99 RAD 6567.4 VEL 11.473 PTH   1.99 VHP  4.858 DPA -37.20 RAP 134.93 ECC 1.1686
  LNCH AZMTH   LNCH TIME   L-I TIME    INJ LAT    INJ LONG   INJ RT ASC   INJ AZMTH   INJ TIME   PO CST TIM  INJ 2 LAT INJ 2 LONG
     70.13     19 12  1    3862.16     -27.40     160.68       17.07       68.84    20 16 24     3262.2     -30.03     152.47
    109.87      0 13 21    2915.56     -27.39      90.07       17.07       68.83     1  1 57     2315.6     -30.01      81.87
     70.13     19 12  1    3862.16     -27.40     160.68       17.07       68.84    20 16 24     3262.2     -30.03     152.47
    109.87      0 13 21    2915.56     -27.39      90.07       17.07       68.83     1  1 57     2315.6     -30.01      81.87
    110.00      0 30 58    2861.88     -28.66      86.41       17.60       70.52     1 18 40     2261.9     -31.04      78.02
    110.00     23 53 35    2963.84     -26.15      93.28       16.50       67.16    24 42 59     2363.8     -29.01      85.26
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TOE  .6853 TRA -.1997 TC3-2.9550 BAU  .6060      SGT 2295.5 SGR 2296.4 SG3  424.1            ST  1234.8 SR   887.8 SS   874.1
  ROE  .4933 RRA  .1040 RC3-3.2928 FAU .08172      RRT  .9435 RRF  .9991 RTF  .9480            CRT  .9833 CRS-1.0000 CST -.9839
  FOE 1.1578 FRA  .2369 FC3-6.9053 BSP   9875      SGB 3247.0 R23  .1519 R13  .9876            LSA 1746.9 MSA  158.9 SSA    4.5
  BOE  .8443 BRA  .2252 BC3 4.4243 FSP  -1364      SG1 3200.7 SG2  545.9 THA  45.01            EL1 1515.1 EL2  131.6 ALF  35.57

LAUNCH DATE  JUN 24 1967                          FLIGHT TIME 136.00                          ARRIVAL DATE  NOV  7 1967

 HELIOCENTRIC CONIC                                DISTANCE 382.876
  RL  152.05 LAL     .00 LOL 271.82 VL  26.976 GAL  -3.38 AZL  83.87 HCA 174.49 SMA 130.37 ECC .17614 INC 6.1267 V1  29.301
  RP  107.69 LAP     .59 LOP  86.34 VP  38.037 GAP   1.59 AZP  96.10 TAL 196.18 TAP  10.67 RCA 107.41 APO 153.34 V2  35.190
  RC 100.092 GL    43.45 GP  -67.21 ZAL 113.73 ZAP 100.42 ETS 336.41 ZAE 112.49 ETE 240.97 ZAC 113.35 ETC 342.72 CLP-117.84
 PLANETOCENTRIC CONIC
  C3  17.468 VHL  4.179 DLA  51.57 RAL 172.81 RAD 6567.7 VEL 11.784 PTH   2.08 VHP  6.766 DPA -47.63 RAP 124.61 ECC 1.2875
  LNCH AZMTH   LNCH TIME   L-I TIME    INJ LAT    INJ LONG   INJ RT ASC   INJ AZMTH   INJ TIME   PO CST TIM  INJ 2 LAT INJ 2 LONG
     44.91     18 25 50    4279.06     -35.13     202.33       48.89       49.46    19 37  9     3679.1     -40.08     194.80
    135.09      3  5 44    2730.13     -35.12      79.44       48.88       49.45     3 51 14     2130.1     -40.07      71.92
     44.91     18 25 50    4279.06     -35.13     202.33       48.89       49.46    19 37  9     3679.1     -40.08     194.80
    135.09      3  5 44    2730.13     -35.12      79.44       48.88       49.45     3 51 14     2130.1     -40.07      71.92
     44.91     18 25 50    4279.06     -35.13     202.33       48.89       49.46    19 37  9     3679.1     -40.08     194.80
    135.09      3  5 44    2730.13     -35.12      79.44       48.88       49.45     3 51 14     2130.1     -40.07      71.92
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TOE 1.5647 TRA  .1736 TC3-1.9095 BAU  .6409      SGT 2701.0 SGR 2389.9 SG3  239.0            ST  2148.6 SR  1469.1 SS  1061.8
  ROE 1.0501 RRA  .4359 RC3-1.9712 FAU .04390      RRT  .9428 RRF  .9984 RTF  .9564            CRT  .9896 CRS -.9998 CST -.9922
  FOE 1.3032 FRA  .4873 FC3-2.1756 BSP  10972      SGB 3606.6 R23  .1458 R13  .9888            LSA 2804.6 MSA  191.7 SSA    1.9
  BOE 1.8844 BRA  .4692 BC3 2.7444 FSP   -780      SG1 3555.4 SG2  605.1 THA  41.29            EL1 2596.9 EL2  175.2 ALF  34.26

LAUNCH DATE  JUN 24 1967                          FLIGHT TIME 138.00                          ARRIVAL DATE  NOV  9 1967

 HELIOCENTRIC CONIC                                DISTANCE 389.016
  RL  152.05 LAL     .00 LOL 271.82 VL  26.956 GAL  -3.23 AZL  70.99 HCA 177.62 SMA 130.23 ECC .17651 INC19.0144 V1  29.301
  RP  107.66 LAP     .78 LOP  89.57 VP  38.031 GAP   1.94 AZP 109.00 TAL 195.39 TAP  13.01 RCA 107.25 APO 153.22 V2  35.199
  RC 102.344 GL    64.52 GP  -84.27 ZAL  99.54 ZAP  95.72 ETS 296.09 ZAE  92.38 ETE 206.12 ZAC 109.94 ETC 300.38 CLP 178.68
 PLANETOCENTRIC CONIC
  C3  94.352 VHL  9.713 DLA  62.76 RAL 208.54 RAD 6569.8 VEL 14.687 PTH   2.66 VHP 14.498 DPA -59.88 RAP  96.20 ECC 2.5528
  LNCH AZMTH   LNCH TIME   L-I TIME    INJ LAT    INJ LONG   INJ RT ASC   INJ AZMTH   INJ TIME   PO CST TIM  INJ 2 LAT INJ 2 LONG
     31.33     20 11 38    4762.69     -17.15     234.31      109.42       28.62    21 31  1     4162.7     -24.13     230.54
    148.67      6  5  1    3066.10     -17.14      93.62      109.39       28.62     6 56  7     2466.1     -24.11      89.85
     31.33     20 11 38    4762.69     -17.15     234.31      109.42       28.62    21 31  1     4162.7     -24.13     230.54
    148.67      6  5  1    3066.10     -17.14      93.62      109.39       28.62     6 56  7     2466.1     -24.11      89.85
     31.33     20 11 38    4762.69     -17.15     234.31      109.42       28.62    21 31  1     4162.7     -24.13     230.54
    148.67      6  5  1    3066.10     -17.14      93.62      109.39       28.62     6 56  7     2466.1     -24.11      89.85
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TOE 3.5566 TRA 2.4169 TC3 -.2655 BAU  .3463      SGT 3790.6 SGR  678.9 SG3   91.2            ST  2296.6 SR   449.5 SS   691.2
  ROE -.7157 RRA  .3989 RC3 -.0698 FAU .00830      RRT  .3052 RRF  .4154 RTF  .9929            CRT -.7183 CRS  .6362 CST -.9938
  FOE  .8068 FRA  .7225 FC3 -.0762 BSP  11573      SGB 3851.0 R23  .1085 R13  .9940            LSA 2418.9 MSA  321.5 SSA     .6
  BOE 3.6279 BRA 2.4496 BC3  .2745 FSP   -292      SG1 3796.5 SG2  645.5 THA   3.22            EL1 2319.6 EL2  309.6 ALF 171.85

LAUNCH DATE  JUN 24 1967                          FLIGHT TIME 140.00                          ARRIVAL DATE  NOV 11 1967

 HELIOCENTRIC CONIC                                DISTANCE 395.804
  RL  152.05 LAL     .00 LOL 271.82 VL  26.933 GAL  -3.20 AZL 134.35 HCA 181.37 SMA 130.08 ECC .17766 INC44.3458 V1  29.301
  RP  107.63 LAP     .96 LOP  92.80 VP  38.023 GAP   2.47 AZP  45.66 TAL 195.11 TAP  16.48 RCA 106.97 APO 153.19 V2  35.208
  RC 104.596 GL   -61.52 GP   74.74 ZAL  94.28 ZAP  93.95 ETS 171.03 ZAE  73.11 ETE 258.26 ZAC  82.01 ETC 160.33 CLP 105.17
 PLANETOCENTRIC CONIC
  C3 457.262 VHL 21.384 DLA -51.51 RAL 139.48 RAD 6572.3 VEL 24.053 PTH   3.31 VHP 25.876 DPA  63.95 RAP 314.08 ECC 8.5254
  LNCH AZMTH   LNCH TIME   L-I TIME    INJ LAT    INJ LONG   INJ RT ASC   INJ AZMTH   INJ TIME   PO CST TIM  INJ 2 LAT INJ 2 LONG
     44.98      4 14 55    2284.43       2.37      62.66       47.58      141.48     4 53  0     1684.4       8.61      58.05
    135.02     12 50 43     735.95       2.38     299.85       47.60      141.48    13  2 59      135.9       8.62     295.24
     44.98      4 14 55    2284.43       2.37      62.66       47.58      141.48     4 53  0     1684.4       8.61      58.05
    135.02     12 50 43     735.95       2.38     299.85       47.60      141.48    13  2 59      135.9       8.62     295.24
     44.98      4 14 55    2284.43       2.37      62.66       47.58      141.48     4 53  0     1684.4       8.61      58.05
    135.02     12 50 43     735.95       2.38     299.85       47.60      141.48    13  2 59      135.9       8.62     295.24
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TOE 2.3167 TRA 1.7722 TC3 -.0544 BAU 1.2548      SGT 1010.8 SGR 3650.5 SG3   66.7            ST   661.6 SR  3335.9 SS  1613.5
  RO-12.3675 RRA-2.9639 RC3  .1979 FAU-.01957      RRT -.8747 RRF  .9984 RTF -.8491            CRT -.9717 CRS -.9999 CST  .9677
  FOE-2.6804 FRA -.5487 FC3  .0371 BSP -11161      SGB 3787.9 R23 -.0813 R13  .9964            LSA 3760.9 MSA  157.7 SSA    1.2
  BOE12.5826 BRA 3.4534 BC3  .2053 FSP   -199      SG1 3757.8 SG2  475.8 THA 103.84            EL1 3397.4 EL2  153.4 ALF 100.93
```

LAUNCH DATE JUN 24 1967 FLIGHT TIME 142.00 ARRIVAL DATE NOV 13 1967

DISTANCE 401.753

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.908 GAL -3.00 AZL 105.18 HCA 184.37 SMA 129.91 ECC .17808 INC15.1754 V1 29.301
RP 107.61 LAP 1.14 LOP 96.04 VP 38.013 GAP 2.76 AZP 74.87 TAL 194.08 TAP 18.45 RCA 106.77 APO 153.04 V2 35.216
RC 106.849 GL -62.35 GP 70.65 ZAL 100.88 ZAP 103.67 ETS 49.10 ZAE 102.03 ETE 139.24 ZAC 87.23 ETC 42.46 CLP-135.51

PLANETOCENTRIC CONIC
C3 63.064 VHL 7.941 DLA -47.99 RAL 129.94 RAD 6569.2 VEL 13.580 PTH 2.48 VHP 8.324 DPA 73.49 RAP 224.97 ECC 2.0379

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
49.49	3 51 32	1916.85	18.78	44.58	22.09	135.02	4 23 29	1316.9	24.33	38.80
130.51	11 58 2	5726.12	18.79	266.72	22.10	135.01	13 33 28	5126.1	24.34	260.94
49.49	3 51 32	1916.85	18.78	44.58	22.09	135.02	4 23 29	1316.9	24.33	38.80
130.51	11 58 2	5726.12	18.79	266.72	22.10	135.01	13 33 28	5126.1	24.34	260.94
49.49	3 51 32	1916.85	18.78	44.58	22.09	135.02	4 23 29	1316.9	24.33	38.80
130.51	11 58 2	5726.12	18.79	266.72	22.10	135.01	13 33 28	5126.1	24.34	260.94

DIFFERENTIAL CORRECTIONS
TOE-3.7755 TRA-2.0226 TC3 -.5235 BAU .4815
RDE 2.2154 RRA .3836 RC3 .2283 FAU .02511
FDE-2.5818 FRA -.8484 FC3 -.3447 BSP 12033
BDE 4.3775 BRA 2.0587 BC3 .5711 FSP -574

MID-COURSE EXECUTION ACCURACY
SGT 3586.9 SGR 1690.3 SG3 185.4
RRT -.9165 RRF -.9797 RTF .9773
SGB 3965.2 R23 .1407 R13 -.9896
SG1 3916.6 SG2 619.1 THA 156.00

ORBIT DETERMINATION ACCURACY
ST 2801.5 SR 1603.2 SS 1354.1
CRT -.9875 CRS .9976 CST -.9960
LSA 3492.9 MSA 228.7 SSA 1.3
EL1 3220.3 EL2 219.8 ALF 150.38

LAUNCH DATE JUN 24 1967 FLIGHT TIME 144.00 ARRIVAL DATE NOV 15 1967

DISTANCE 407.904

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.882 GAL -2.83 AZL 100.08 HCA 187.57 SMA 129.73 ECC .17883 INC10.0828 V1 29.301
RP 107.59 LAP 1.32 LOP 99.27 VP 38.001 GAP 3.11 AZP 80.00 TAL 193.19 TAP 20.76 RCA 106.53 APO 152.92 V2 35.223
RC 109.101 GL -55.77 GP 54.12 ZAL 104.45 ZAP 112.97 ETS 37.90 ZAE 115.81 ETE 135.01 ZAC 93.79 ETC 32.81 CLP-131.74

PLANETOCENTRIC CONIC
C3 32.325 VHL 5.685 DLA -41.74 RAL 133.31 RAD 6568.3 VEL 12.397 PTH 2.24 VHP 5.602 DPA 63.21 RAP 187.27 ECC 1.5320

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.95	4 37 20	1665.29	23.64	25.96	13.91	125.46	5 5 5	1065.3	28.10	19.00
122.05	11 39 5	5643.89	23.65	263.63	13.92	125.45	13 13 9	5043.9	28.12	256.66
57.95	4 37 20	1665.29	23.64	25.96	13.91	125.46	5 5 5	1065.3	28.10	19.00
122.05	11 39 5	5643.89	23.65	263.63	13.92	125.45	13 13 9	5043.9	28.12	256.66
57.95	4 37 20	1665.29	23.64	25.96	13.91	125.46	5 5 5	1065.3	28.10	19.00
122.05	11 39 5	5643.89	23.65	263.63	13.92	125.45	13 13 9	5043.9	28.12	256.66

DIFFERENTIAL CORRECTIONS
TOE-2.4610 TRA-1.4932 TC3-1.2744 BAU .6098
RDE 1.5126 RRA .3658 RC3 .6059 FAU .05738
FDE-3.2723 FRA-1.0412 FC3-1.5367 BSP 12003
BDE 2.8887 BRA 1.5373 BC3 1.4111 FSP -1087

MID-COURSE EXECUTION ACCURACY
SGT 3509.6 SGR 1744.3 SG3 344.6
RRT -.9434 RRF -.9956 RTF .9678
SGB 3919.2 R23 .1860 R13 -.9818
SG1 3884.2 SG2 522.7 THA 154.38

ORBIT DETERMINATION ACCURACY
ST 2553.2 SR 1531.7 SS 1609.4
CRT -.9899 CRS .9995 CST -.9937
LSA 3377.7 MSA 214.4 SSA 1.9
EL1 2971.5 EL2 186.7 ALF 149.16

LAUNCH DATE JUN 24 1967 FLIGHT TIME 146.00 ARRIVAL DATE NOV 17 1967

DISTANCE 414.060

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.854 GAL -2.66 AZL 98.01 HCA 190.80 SMA 129.53 ECC .17972 INC 8.0133 V1 29.301
RP 107.57 LAP 1.50 LOP 102.51 VP 37.988 GAP 3.46 AZP 82.13 TAL 192.28 TAP 23.08 RCA 106.25 APO 152.81 V2 35.230
RC 111.351 GL -50.83 GP 42.28 ZAL 106.07 ZAP 120.49 ETS 33.79 ZAE 124.08 ETE 139.81 ZAC 98.66 ETC 29.75 CLP-133.29

PLANETOCENTRIC CONIC
C3 23.263 VHL 4.823 DLA -37.47 RAL 136.55 RAD 6567.9 VEL 12.027 PTH 2.15 VHP 4.742 DPA 53.23 RAP 174.80 ECC 1.3828

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.36	5 20 13	1498.48	24.32	12.41	10.41	119.43	5 45 11	898.5	28.04	4.94
115.64	11 22 5	5647.19	24.33	264.37	10.42	119.43	12 56 12	5047.2	28.05	256.90
64.36	5 20 13	1498.48	24.32	12.41	10.41	119.43	5 45 11	898.5	28.04	4.94
115.64	11 22 5	5647.19	24.33	264.37	10.42	119.43	12 56 12	5047.2	28.05	256.90
64.36	5 20 13	1498.48	24.32	12.41	10.41	119.43	5 45 11	898.5	28.04	4.94
115.64	11 22 5	5647.19	24.33	264.37	10.42	119.43	12 56 12	5047.2	28.05	256.90

DIFFERENTIAL CORRECTIONS
TOE-2.0882 TRA-1.2990 TC3-1.9818 BAU .6581
RDE 1.0299 RRA .2424 RC3 .7420 FAU .08227
FDE-3.5847 FRA-1.0742 FC3-3.0617 BSP 12559
BDE 2.3283 BRA 1.3214 BC3 2.1161 FSP -1551

MID-COURSE EXECUTION ACCURACY
SGT 3686.3 SGR 1463.1 SG3 468.8
RRT -.9472 RRF -.9960 RTF .9667
SGB 3966.0 R23 .2093 R13 -.9765
SG1 3941.7 SG2 438.8 THA 159.13

ORBIT DETERMINATION ACCURACY
ST 2548.9 SR 1228.5 SS 1756.3
CRT -.9899 CRS .9997 CST -.9930
LSA 3323.7 MSA 208.1 SSA 2.6
EL1 2825.1 EL2 157.2 ALF 154.41

LAUNCH DATE JUN 24 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 19 1967

DISTANCE 420.211

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.824 GAL -2.47 AZL 96.89 HCA 194.03 SMA 129.33 ECC .18071 INC 6.8882 V1 29.301
RP 107.55 LAP 1.67 LOP 105.75 VP 37.972 GAP 3.81 AZP 83.32 TAL 191.33 TAP 25.36 RCA 105.96 APO 152.70 V2 35.236
RC 113.598 GL -47.26 GP 33.84 ZAL 106.56 ZAP 126.37 ETS 30.76 ZAE 128.80 ETE 145.70 ZAC 101.85 ETC 27.48 CLP-135.55

PLANETOCENTRIC CONIC
C3 19.150 VHL 4.376 DLA -34.63 RAL 139.39 RAD 6567.8 VEL 11.855 PTH 2.10 VHP 4.422 DPA 45.57 RAP 169.23 ECC 1.3152

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.18	5 57 55	1373.12	24.03	2.22	9.15	115.72	6 20 48	773.1	27.29	354.53
110.82	11 6 59	5679.10	24.05	266.76	9.16	115.71	12 41 38	5079.1	27.30	259.07
69.18	5 57 55	1373.12	24.03	2.22	9.15	115.72	6 20 48	773.1	27.29	354.53
110.82	11 6 59	5679.10	24.05	266.76	9.16	115.71	12 41 38	5079.1	27.30	259.07
69.18	5 57 55	1373.12	24.03	2.22	9.15	115.72	6 20 48	773.1	27.29	354.53
110.82	11 6 59	5679.10	24.05	266.76	9.16	115.71	12 41 38	5079.1	27.30	259.07

DIFFERENTIAL CORRECTIONS
TOE-1.8838 TRA-1.1414 TC3-2.5119 BAU .6659
RDE .7196 RRA .1346 RC3 .6751 FAU .09112
FDE-3.4769 FRA -.8704 FC3-4.1193 BSP 11936
BDE 2.0165 BRA 1.1493 BC3 2.6010 FSP -1609

MID-COURSE EXECUTION ACCURACY
SGT 3770.2 SGR 1132.6 SG3 515.8
RRT -.9395 RRF -.9933 RTF .9627
SGB 3936.7 R23 .2330 R13 -.9694
SG1 3918.9 SG2 373.2 THA 164.09

ORBIT DETERMINATION ACCURACY
ST 2526.7 SR 944.6 SS 1747.1
CRT -.9888 CRS .9997 CST -.9920
LSA 3207.2 MSA 206.2 SSA 3.5
EL1 2694.3 EL2 131.9 ALF 159.66

LAUNCH DATE JUN 24 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 21 1967

HELIOCENTRIC CONIC DISTANCE 426.344

RL 152.05 LAL .00 LOL 271.82 VL 26.793 GAL -2.28 AZL 96.18 HCA 197.27 SMA 129.12 ECC .18181 INC 6.1781 V1 29.301
RP 107.53 LAP 1.83 LOP 108.99 VP 37.955 GAP 4.15 AZP 84.10 TAL 190.34 TAP 27.83 RCA 105.65 APO 152.60 V2 35.241
RC 115.842 GL -44.59 GP 27.73 ZAL 106.35 ZAP 131.07 ETS 28.31 ZAE 131.30 ETE 151.19 ZAC 103.79 ETC 25.56 CLP-137.92

PLANETOCENTRIC CONIC

C3 16.842 VHL 4.104 DLA -32.71 RAL 141.97 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 4.318 DPA 39.79 RAP 166.38 ECC 1.2772

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.89	6 31 9	1272.91	23.61	354.24	9.07	113.33	6 52 22	672.9	26.56	346.44
107.11	10 54 22	5719.45	23.62	269.68	9.08	113.32	12 29 41	5119.5	26.57	261.88
72.89	6 31 9	1272.91	23.61	354.24	9.07	113.33	6 52 22	672.9	26.56	346.44
107.11	10 54 22	5719.45	23.62	269.68	9.08	113.32	12 29 41	5119.5	26.57	261.88
110.00	9 56 42	609.24	17.30	302.11	5.70	119.95	10 6 51	9.2	21.15	295.10
110.00	12 27 59	5431.11	30.24	250.12	11.79	106.75	13 58 30	4831.1	32.24	241.47

DIFFERENTIAL CORRECTIONS
TDE-1.7989 TRA-1.0484 TC3-3.0265 BAU .6943
RDE .5448 RRA .0830 RC3 .5898 FAU .09634
FDE-3.3230 FRA -.7062 FC3-4.9519 BSP 12365
BDE 1.8796 BRA 1.0517 BC3 3.0834 FSP -1716

MID-COURSE EXECUTION ACCURACY
SGT 3937.5 SGR 912.1 SG3 542.4
RRT -.9335 RRF -.9881 RTF .9622
SGB 4041.8 R23 .2339 R13 -.9664
SG1 4029.1 SG2 319.7 THA 167.72

ORBIT DETERMINATION ACCURACY
ST 2566.1 SR 761.9 SS 1736.1
CRT -.9886 CRS .9997 CST -.9917
LSA 3184.1 MSA 202.7 SSA 4.5
EL1 2674.6 EL2 109.9 ALF 163.61

LAUNCH DATE JUN 24 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 23 1967

HELIOCENTRIC CONIC DISTANCE 432.461

RL 152.05 LAL .00 LOL 271.82 VL 26.761 GAL -2.07 AZL 95.69 HCA 200.51 SMA 128.91 ECC .18303 INC 5.6867 V1 29.301
RP 107.52 LAP 1.99 LOP 112.24 VP 37.937 GAP 4.49 AZP 84.67 TAL 189.32 TAP 29.83 RCA 105.31 APO 152.50 V2 35.246
RC 118.080 GL -42.52 GP 23.22 ZAL 105.66 ZAP 134.95 ETS 26.29 ZAE 132.50 ETE 155.86 ZAC 104.84 ETC 23.91 CLP-140.24

PLANETOCENTRIC CONIC

C3 15.374 VHL 3.921 DLA -31.43 RAL 144.43 RAD 6567.6 VEL 11.694 PTH 2.06 VHP 4.314 DPA 35.34 RAP 164.92 ECC 1.2530

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.77	7 0 15	1191.98	23.26	347.91	9.71	111.75	7 20 7	592.0	26.00	340.06
104.23	10 44 54	5758.87	23.27	272.52	9.71	111.74	12 20 53	5158.9	26.01	264.67
75.77	7 0 15	1191.98	23.26	347.91	9.71	111.75	7 20 7	592.0	26.00	340.06
104.23	10 44 54	5758.87	23.27	272.52	9.71	111.74	12 20 53	5158.9	26.01	264.67
110.00	9 38 54	676.66	14.97	305.94	5.36	121.09	9 50 11	76.7	18.98	299.12
110.00	13 5 25	5322.18	32.11	242.18	12.78	102.40	14 34 7	4722.2	33.49	233.22

DIFFERENTIAL CORRECTIONS
TDE-1.7570 TRA -.9649 TC3-3.4781 BAU .7218
RDE .4319 RRA .0505 RC3 .4847 FAU .09676
FDE-3.1209 FRA -.5275 FC3-5.4488 BSP 12788
BDE 1.8093 BRA .9662 BC3 3.5117 FSP -1737

MID-COURSE EXECUTION ACCURACY
SGT 4094.0 SGR 741.8 SG3 545.6
RRT -.9219 RRF -.9779 RTF .9615
SGB 4160.7 R23 .2251 R13 -.9641
SG1 4151.0 SG2 283.4 THA 170.47

ORBIT DETERMINATION ACCURACY
ST 2616.1 SR 631.8 SS 1703.5
CRT -.9887 CRS .9998 CST -.9914
LSA 3178.9 MSA 199.5 SSA 5.5
EL1 2689.8 EL2 92.0 ALF 166.55

LAUNCH DATE JUN 24 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 25 1967

HELIOCENTRIC CONIC DISTANCE 438.561

RL 152.05 LAL .00 LOL 271.82 VL 26.727 GAL -1.85 AZL 95.32 HCA 203.75 SMA 128.68 ECC .18436 INC 5.3245 V1 29.301
RP 107.50 LAP 2.14 LOP 115.48 VP 37.917 GAP 4.83 AZP 85.12 TAL 188.25 TAP 32.01 RCA 104.96 APO 152.41 V2 35.250
RC 120.312 GL -40.85 GP 19.79 ZAL 104.61 ZAP 138.25 ETS 24.62 ZAE 132.95 ETE 159.68 ZAC 105.26 ETC 22.49 CLP-142.45

PLANETOCENTRIC CONIC

C3 14.364 VHL 3.790 DLA -30.58 RAL 146.85 RAD 6567.6 VEL 11.651 PTH 2.05 VHP 4.365 DPA 31.82 RAP 164.29 ECC 1.2364

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.94	7 25 25	1127.82	23.03	342.99	10.83	110.70	7 44 13	527.8	25.64	335.11
102.06	10 39 2	5792.69	23.04	274.97	10.83	110.68	12 15 35	5192.7	25.65	267.08
77.94	7 25 25	1127.82	23.03	342.99	10.83	110.70	7 44 13	527.8	25.64	335.11
102.06	10 39 2	5792.69	23.04	274.97	10.83	110.68	12 15 35	5192.7	25.65	267.08
110.00	9 34 2	708.99	13.83	307.75	6.08	121.58	9 45 51	109.0	17.90	301.01
110.00	13 29 36	5259.51	32.93	237.48	13.87	99.72	14 57 15	4659.5	33.92	228.38

DIFFERENTIAL CORRECTIONS
TDE-1.7402 TRA -.8829 TC3-3.8769 BAU .7480
RDE .3565 RRA .0304 RC3 .3793 FAU .09443
FDE-2.9116 FRA -.3525 FC3-5.6912 BSP 13194
BDE 1.7764 BRA .8835 BC3 3.8954 FSP -1709

MID-COURSE EXECUTION ACCURACY
SGT 4238.0 SGR 613.2 SG3 535.2
RRT -.9026 RRF -.9598 RTF .9606
SGB 4282.1 R23 .2079 R13 -.9623
SG1 4274.1 SG2 261.8 THA 172.53

ORBIT DETERMINATION ACCURACY
ST 2673.1 SR 539.3 SS 1662.4
CRT -.9893 CRS .9998 CST -.9912
LSA 3187.7 MSA 196.0 SSA 6.6
EL1 2725.9 EL2 77.1 ALF 168.70

LAUNCH DATE JUN 24 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 27 1967

HELIOCENTRIC CONIC DISTANCE 444.644

RL 152.05 LAL .00 LOL 271.82 VL 26.693 GAL -1.63 AZL 95.04 HCA 207.00 SMA 128.45 ECC .18580 INC 5.0448 V1 29.301
RP 107.49 LAP 2.29 LOP 118.73 VP 37.896 GAP 5.17 AZP 85.50 TAL 187.16 TAP 34.16 RCA 104.59 APO 152.32 V2 35.253
RC 122.538 GL -39.45 GP 17.12 ZAL 103.29 ZAP 141.13 ETS 23.23 ZAE 132.98 ETE 162.77 ZAC 105.20 ETC 21.26 CLP-144.55

PLANETOCENTRIC CONIC

C3 13.635 VHL 3.693 DLA -30.06 RAL 149.28 RAD 6567.5 VEL 11.620 PTH 2.04 VHP 4.449 DPA 28.94 RAP 164.21 ECC 1.2244

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.48	7 46 32	1080.07	22.92	339.38	12.31	109.99	8 4 32	480.1	25.44	331.47
100.52	10 37 19	5817.54	22.93	276.78	12.32	109.98	12 14 16	5217.5	25.45	268.87
79.48	7 46 32	1080.07	22.92	339.38	12.31	109.99	8 4 32	480.1	25.44	331.47
100.52	10 37 19	5817.54	22.93	276.78	12.32	109.98	12 14 16	5217.5	25.45	268.87
110.00	9 35 35	724.55	13.27	308.61	7.39	121.79	9 47 40	124.5	17.38	301.91
110.00	13 47 26	5221.05	33.34	234.55	15.26	98.04	15 14 27	4621.1	34.09	225.39

DIFFERENTIAL CORRECTIONS
TDE-1.7420 TRA -.7997 TC3-4.2351 BAU .7737
RDE .3055 RRA .0186 RC3 .2827 FAU .09077
FDE-2.7178 FRA -.1905 FC3-5.7634 BSP 13600
BDE 1.7686 BRA .7999 BC3 4.2445 FSP -1658

MID-COURSE EXECUTION ACCURACY
SGT 4375.4 SGR 519.1 SG3 518.5
RRT -.8728 RRF -.9307 RTF .9597
SGB 4406.1 R23 .1849 R13 -.9608
SG1 4398.9 SG2 252.0 THA 174.07

ORBIT DETERMINATION ACCURACY
ST 2738.6 SR 474.2 SS 1622.2
CRT -.9905 CRS .9998 CST -.9911
LSA 3212.4 MSA 192.2 SSA 7.7
EL1 2778.6 EL2 64.4 ALF 170.26

LAUNCH DATE JUN 24 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 29 1967

DISTANCE 450.708

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.658 GAL -1.39 AZL 94.82 HCA 210.24 SMA 128.22 ECC .18736 INC 4.8211 V1 29.301
RP 107.49 LAP 2.43 LOP 121.98 VP 37.873 GAP 5.50 AZP 85.83 TAL 186.04 TAP 36.28 RCA 104.20 APO 152.24 V2 35.256
RC 124.755 GL -38.24 GP 15.01 ZAL 101.74 ZAP 143.69 ETS 22.07 ZAE 132.77 ETE 165.27 ZAC 104.79 ETC 20.18 CLP-146.54

PLANETOCENTRIC CONIC
C3 13.095 VHL 3.619 DLA -29.77 RAL 151.76 RAD 6567.5 VEL 11.597 PTH 2.03 VHP 4.553 DPA 26.52 RAP 164.52 ECC 1.2155

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.41	8 3 31	1048.63	22.91	337.04	14.10	109.54	8 20 59	448.6	25.37	329.11
99.59	10 40 5	5831.44	22.92	277.81	14.10	109.53	12 17 16	5231.4	25.38	269.88
100.00	10 20 19	606.56	21.26	303.93	13.43	111.52	10 30 25	6.6	24.00	296.20
100.00	11 5 58	5748.73	24.59	272.28	14.71	107.55	12 41 47	5148.7	26.76	264.15
110.00	9 41 14	729.93	13.08	308.91	9.13	121.87	9 53 24	129.9	17.20	302.22
110.00	14 1 33	5198.13	33.54	232.79	16.94	97.01	15 28 11	4598.1	34.15	223.60

DIFFERENTIAL CORRECTIONS
TDE-1.7564 TRA -.7136 TC3-4.5590 BAU .7989
RDE .2704 RRA .0126 RC3 .1973 FAU .08652
FDE-2.5414 FRA -.0447 FC3-5.7197 BSP 14012
BDE 1.7771 BRA .7137 BC3 4.5633 FSP -1599

MID-COURSE EXECUTION ACCURACY
SGT 4507.2 SGR 451.8 SG3 498.8
RRT -.8306 RRF -.8876 RTF .9590
SGB 4529.8 R23 .1591 R13 -.9597
SG1 4522.9 SG2 250.8 THA 175.23

ORBIT DETERMINATION ACCURACY
ST 2810.0 SR 428.1 SS 1583.6
CRT -.9921 CRS .9997 CST -.9911
LSA 3248.3 MSA 187.9 SSA 8.8
EL1 2841.9 EL2 53.2 ALF 171.40

LAUNCH DATE JUN 24 1967 FLIGHT TIME 160.00 ARRIVAL DATE DEC 1 1967

DISTANCE 456.756

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.622 GAL -1.14 AZL 94.64 HCA 213.49 SMA 127.98 ECC .18904 INC 4.6370 V1 29.301
RP 107.48 LAP 2.56 LOP 125.22 VP 37.850 GAP 5.84 AZP 86.13 TAL 184.88 TAP 38.37 RCA 103.79 APO 152.18 V2 35.258
RC 126.964 GL -37.15 GP 13.30 ZAL 100.00 ZAP 146.00 ETS 21.11 ZAE 132.43 ETE 167.29 ZAC 104.09 ETC 19.23 CLP-148.42

PLANETOCENTRIC CONIC
C3 12.694 VHL 3.563 DLA -29.66 RAL 154.30 RAD 6567.5 VEL 11.579 PTH 2.03 VHP 4.671 DPA 24.43 RAP 165.13 ECC 1.2089

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.78	8 16 32	1032.71	22.98	335.89	16.14	109.28	8 33 45	432.7	25.40	327.94
99.22	10 47 20	5833.97	22.99	278.03	16.14	109.27	12 24 34	5234.0	25.41	270.08
100.00	10 21 59	627.00	20.75	305.23	15.23	112.02	10 32 26	27.0	23.55	297.55
100.00	11 24 34	5714.91	25.27	269.99	16.95	106.53	12 59 49	5114.9	27.29	261.78
110.00	9 49 48	728.48	13.13	308.83	11.19	121.85	10 1 57	128.5	17.25	302.13
110.00	14 13 14	5186.19	33.64	231.87	18.90	96.48	15 39 41	4586.2	34.17	222.67

DIFFERENTIAL CORRECTIONS
TDE-1.7783 TRA -.6194 TC3-4.8402 BAU .8217
RDE .2458 RRA .0099 RC3 .1216 FAU .08172
FDE-2.3791 FRA .0929 FC3-5.5736 BSP 14361
BDE 1.7952 BRA .6195 BC3 4.8418 FSP -1525

MID-COURSE EXECUTION ACCURACY
SGT 4624.7 SGR 405.1 SG3 476.7
RRT -.7741 RRF -.8292 RTF .9579
SGB 4642.4 R23 .1349 R13 -.9584
SG1 4635.4 SG2 255.9 THA 176.11

ORBIT DETERMINATION ACCURACY
ST 2882.2 SR 395.4 SS 1544.9
CRT -.9940 CRS .9993 CST -.9911
LSA 3288.9 MSA 183.6 SSA 9.9
EL1 2908.9 EL2 42.9 ALF 172.23

LAUNCH DATE JUN 24 1967 FLIGHT TIME 162.00 ARRIVAL DATE DEC 3 1967

DISTANCE 462.784

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.585 GAL -.87 AZL 94.48 HCA 216.74 SMA 127.74 ECC .19086 INC 4.4821 V1 29.301
RP 107.48 LAP 2.68 LOP 128.47 VP 37.825 GAP 6.17 AZP 86.41 TAL 183.70 TAP 40.44 RCA 103.36 APO 152.12 V2 35.259
RC 129.165 GL -36.15 GP 11.91 ZAL 98.09 ZAP 148.11 ETS 20.30 ZAE 132.04 ETE 168.94 ZAC 103.17 ETC 18.39 CLP-150.20

PLANETOCENTRIC CONIC
C3 12.401 VHL 3.522 DLA -29.69 RAL 156.92 RAD 6567.5 VEL 11.567 PTH 2.02 VHP 4.800 DPA 22.59 RAP 165.97 ECC 1.2041

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.69	8 26 16	1030.03	23.11	335.74	18.42	109.17	8 43 26	430.0	25.51	327.78
99.31	10 58 30	5826.70	23.13	277.54	18.42	109.15	12 35 37	5226.7	25.53	269.58
100.00	10 34 15	616.21	21.02	304.54	17.58	111.76	10 44 31	16.2	23.79	296.84
100.00	11 33 13	5715.76	25.25	270.05	19.17	106.55	13 8 29	5115.8	27.28	261.84
110.00	10 0 38	722.26	13.35	308.48	13.53	121.76	10 12 40	122.3	17.46	301.78
110.00	14 23 19	5182.47	33.67	231.59	21.13	96.31	15 49 42	4582.5	34.17	222.38

DIFFERENTIAL CORRECTIONS
TDE-1.8111 TRA -.5226 TC3-5.0970 BAU .8451
RDE .2295 RRA .0102 RC3 .0578 FAU .07716
FDE-2.2402 FRA .2108 FC3-5.3864 BSP 14766
BDE 1.8255 BRA .5227 BC3 5.0973 FSP -1462

MID-COURSE EXECUTION ACCURACY
SGT 4746.3 SGR 376.2 SG3 455.8
RRT -.7087 RRF -.7600 RTF .9574
SGB 4761.2 R23 .1125 R13 -.9577
SG1 4753.8 SG2 265.0 THA 176.78

ORBIT DETERMINATION ACCURACY
ST 2963.1 SR 373.5 SS 1513.1
CRT -.9959 CRS .9985 CST -.9913
LSA 3343.2 MSA 178.7 SSA 11.0
EL1 2986.4 EL2 33.4 ALF 172.84

LAUNCH DATE JUN 24 1967 FLIGHT TIME 164.00 ARRIVAL DATE DEC 5 1967

DISTANCE 468.794

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.548 GAL -.60 AZL 94.35 HCA 219.98 SMA 127.50 ECC .19281 INC 4.3489 V1 29.301
RP 107.48 LAP 2.79 LOP 131.72 VP 37.799 GAP 6.50 AZP 86.67 TAL 182.49 TAP 42.48 RCA 102.92 APO 152.08 V2 35.259
RC 131.355 GL -35.19 GP 10.75 ZAL 96.03 ZAP 150.06 ETS 19.64 ZAE 131.62 ETE 170.30 ZAC 102.06 ETC 17.63 CLP-151.89

PLANETOCENTRIC CONIC
C3 12.201 VHL 3.493 DLA -29.81 RAL 159.63 RAD 6567.5 VEL 11.558 PTH 2.02 VHP 4.937 DPA 20.92 RAP 166.99 ECC 1.2008

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.26	8 33 46	1037.19	23.29	336.33	20.92	109.16	8 51 3	437.2	25.69	328.36
99.74	11 12 38	5812.62	23.30	276.56	20.93	109.15	12 49 31	5212.6	25.70	268.59
100.00	10 56 19	5864.75	22.00	279.92	20.42	110.77	12 34 4	5264.7	24.62	272.11
100.00	11 32 46	5748.34	24.60	272.25	21.40	107.54	13 8 34	5148.3	26.77	264.12
110.00	10 13 17	712.63	13.70	307.95	16.13	121.63	10 25 9	112.6	17.78	301.22
110.00	14 32 18	5185.18	33.64	231.80	23.60	96.43	15 58 43	4585.2	34.17	222.59

DIFFERENTIAL CORRECTIONS
TDE-1.8473 TRA -.4152 TC3-5.3129 BAU .8666
RDE .2187 RRA .0117 RC3 .0033 FAU .07253
FDE-2.1113 FRA .3239 FC3-5.1465 BSP 15130
BDE 1.8602 BRA .4153 BC3 5.3129 FSP -1397

MID-COURSE EXECUTION ACCURACY
SGT 4855.3 SGR 359.4 SG3 434.5
RRT -.6378 RRF -.6843 RTF .9565
SGB 4868.5 R23 .0939 R13 -.9568
SG1 4860.7 SG2 276.5 THA 177.29

ORBIT DETERMINATION ACCURACY
ST 3041.3 SR 358.8 SS 1480.1
CRT -.9976 CRS .9970 CST -.9915
LSA 3396.9 MSA 174.0 SSA 12.1
EL1 3062.3 EL2 24.7 ALF 173.29

LAUNCH DATE JUN 24 1967 FLIGHT TIME 166.00 ARRIVAL DATE DEC 7 1967

HELIOCENTRIC CONIC DISTANCE 474.784

```
RL  152.05 LAL    .00 LOL 271.82 VL  26.510 GAL   -.31 AZL  94.23 HCA 223.23 SMA 127.26 ECC .19491 INC 4.2327 V1  29.301
RP  107.48 LAP   2.90 LOP 134.97 VP  37.772 GAP   6.84 AZP  86.91 TAL 181.26 TAP  44.49 RCA 102.45 APO 152.06 V2  35.259
RC 133.537 GL  -34.26 GP    9.77 ZAL  93.84 ZAP 151.87 ETS  19.09 ZAE 131.21 ETE 171.43 ZAC 100.80 ETC  16.96 CLP-153.49
```

PLANETOCENTRIC CONIC

```
C3  12.082 VHL  3.476 DLA -30.01 RAL 162.43 RAD 6567.5 VEL 11.553 PTH   2.02 VHP  5.081 DPA  19.39 RAP 168.16 ECC 1.1988
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.61	8 40 0	1050.91	23.48	337.43	23.64	109.25	8 57 31	450.9	25.89	329.45
100.39	11 28 46	5794.76	23.49	275.30	23.64	109.23	13 5 21	5194.8	25.90	267.32
79.61	8 40 0	1050.91	23.48	337.43	23.64	109.25	8 57 31	450.9	25.89	329.45
100.39	11 28 46	5794.76	23.49	275.30	23.64	109.23	13 5 21	5194.8	25.90	267.32
110.00	10 27 25	700.69	14.12	307.29	18.96	121.46	10 39 6	100.7	18.18	300.53
110.00	14 40 32	5192.98	33.58	232.40	26.29	96.78	16 7 5	4593.0	34.16	223.20

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.8903 TRA -.3045 TC3-5.5004 BAU  .8885   SGT 4966.5 SGR  352.6 SG3  415.0      ST  3122.8 SR   350.4 SS  1451.6
RDE  .2125 RRA  .0150 RC3 -.0410 FAU .06831   RRT -.5705 RRF -.6111 RTF  .9565     CRT -.9987 CRS  .9948 CST -.9918
FDE-1.9996 FRA  .4180 FC3-4.8948 BSP  15475   SGB 4979.0 R23  .0773 R13 -.9567     LSA 3457.4 MSA  168.4 SSA   13.2
BDE 1.9022 BRA  .3048 BC3 5.5006 FSP  -1334   SG1 4970.6 SG2  289.4 THA 177.67     EL1 3142.4 EL2   17.5 ALF 173.61
```

LAUNCH DATE JUN 24 1967 FLIGHT TIME 168.00 ARRIVAL DATE DEC 9 1967

HELIOCENTRIC CONIC DISTANCE .000

```
RL  152.05 LAL    .00 LOL 271.82 VL  26.472 GAL    .00 AZL  94.13 HCA 226.48 SMA 127.01 ECC .19716 INC 4.1297 V1  29.301
RP  107.48 LAP   2.99 LOP 138.22 VP  37.744 GAP   7.17 AZP  87.15 TAL 180.00 TAP  46.48 RCA 101.97 APO 152.05 V2  35.257
RC 135.709 GL  -33.33 GP    8.94 ZAL  91.51 ZAP 153.56 ETS  18.64 ZAE 130.81 ETE 172.36 ZAC  99.40 ETC  16.34 CLP-155.02
```

PLANETOCENTRIC CONIC

```
C3  12.039 VHL  3.470 DLA -30.28 RAL 165.35 RAD 6567.5 VEL 11.551 PTH   2.02 VHP  5.231 DPA  17.95 RAP 169.47 ECC 1.1981
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.81	8 45 41	1069.18	23.70	338.87	26.58	109.42	9 3 30	469.2	26.13	330.88
101.19	11 46 24	5775.00	23.71	273.91	26.59	109.40	13 22 39	5175.0	26.14	265.92
78.81	8 45 41	1069.18	23.70	338.87	26.58	109.42	9 3 30	469.2	26.13	330.88
101.19	11 46 24	5775.00	23.71	273.91	26.59	109.40	13 22 39	5175.0	26.14	265.92
110.00	10 43 2	686.78	14.62	306.51	22.04	121.25	10 54 29	86.8	18.65	299.71
110.00	14 48 14	5205.40	33.48	233.35	29.23	97.34	16 14 59	4605.4	34.13	224.17

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.8654 TRA -.0731 TC3-5.8995 BAU  .9496   SGT 5125.3 SGR  337.0 SG3  417.7      ST  3083.0 SR   335.3 SS  1337.1
RDE  .2031 RRA  .0079 RC3 -.0440 FAU .07217   RRT -.5268 RRF -.5226 RTF  .9515     CRT -.9991 CRS  .9879 CST -.9886
FDE-1.7733 FRA  .7067 FC3-5.1900 BSP  10890   SGB 5136.3 R23  .0233 R13 -.9515     LSA 3372.0 MSA  185.1 SSA   14.2
BDE 1.8764 BRA  .0735 BC3 5.8997 FSP   -420   SG1 5128.3 SG2  286.3 THA 178.01     EL1 3101.2 EL2   14.2 ALF 173.80
```

LAUNCH DATE JUN 24 1967 FLIGHT TIME 170.00 ARRIVAL DATE DEC 11 1967

HELIOCENTRIC CONIC DISTANCE 486.703

```
RL  152.05 LAL    .00 LOL 271.82 VL  26.433 GAL    .31 AZL  94.04 HCA 229.72 SMA 126.76 ECC .19957 INC 4.0372 V1  29.301
RP  107.49 LAP   3.08 LOP 141.47 VP  37.715 GAP   7.52 AZP  87.39 TAL 178.74 TAP  48.46 RCA 101.46 APO 152.06 V2  35.255
RC 137.871 GL  -32.39 GP    8.23 ZAL  89.11 ZAP 155.16 ETS  18.30 ZAE 130.43 ETE 173.16 ZAC  97.90 ETC  15.79 CLP-156.48
```

PLANETOCENTRIC CONIC

```
C3  12.072 VHL  3.474 DLA -30.55 RAL 168.32 RAD 6567.5 VEL 11.552 PTH   2.02 VHP  5.389 DPA  16.60 RAP 170.86 ECC 1.1987
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.04	8 51 49	1087.91	23.89	340.35	29.67	109.63	9 9 57	487.9	26.34	332.35
101.96	12 3 58	5757.42	23.90	272.67	29.68	109.61	13 39 55	5157.4	26.35	264.68
78.04	8 51 49	1087.91	23.89	340.35	29.67	109.63	9 9 57	487.9	26.34	332.35
101.96	12 3 58	5757.42	23.90	272.67	29.68	109.61	13 39 55	5157.4	26.35	264.68
110.00	10 59 6	673.34	15.09	305.76	25.26	121.04	11 10 20	73.3	19.09	298.92
110.00	14 55 51	5219.98	33.35	234.47	32.32	97.99	16 22 51	4620.0	34.09	225.31

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.9839 TRA -.0494 TC3-5.7376 BAU  .9262   SGT 5158.4 SGR  356.0 SG3  376.2      ST  3273.9 SR   345.6 SS  1390.6
RDE  .2095 RRA  .0220 RC3 -.1083 FAU .05969   RRT -.4541 RRF -.4851 RTF  .9551     CRT -.9987 CRS  .9878 CST -.9923
FDE-1.7984 FRA  .5996 FC3-4.2805 BSP  16124   SGB 5170.7 R23  .0558 R13 -.9552     LSA 3570.2 MSA  159.7 SSA   15.2
BDE 1.9950 BRA  .0541 BC3 5.7386 FSP  -1210   SG1 5160.9 SG2  317.0 THA 178.20     EL1 3292.1 EL2   17.6 ALF 173.98
```

LAUNCH DATE JUN 24 1967 FLIGHT TIME 172.00 ARRIVAL DATE DEC 13 1967

HELIOCENTRIC CONIC DISTANCE 492.631

```
RL  152.05 LAL    .00 LOL 271.82 VL  26.394 GAL    .65 AZL  93.95 HCA 232.97 SMA 126.51 ECC .20216 INC 3.9532 V1  29.301
RP  107.50 LAP   3.16 LOP 144.73 VP  37.685 GAP   7.86 AZP  87.62 TAL 177.45 TAP  50.42 RCA 100.94 APO 152.09 V2  35.253
RC 140.023 GL  -31.42 GP    7.62 ZAL  86.61 ZAP 156.67 ETS  18.05 ZAE 130.07 ETE 173.83 ZAC  96.30 ETC  15.29 CLP-157.88
```

PLANETOCENTRIC CONIC

```
C3  12.180 VHL  3.490 DLA -30.84 RAL 171.40 RAD 6567.5 VEL 11.557 PTH   2.02 VHP  5.551 DPA  15.30 RAP 172.35 ECC 1.2005
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.25	8 58 21	1107.93	24.06	341.92	32.97	109.89	9 16 49	607.9	26.55	333.92
102.75	12 21 58	5741.17	24.07	271.52	32.97	109.88	13 57 39	5141.2	26.56	263.53
77.25	8 58 21	1107.93	24.06	341.92	32.97	109.89	9 16 49	507.9	26.55	333.92
102.75	12 21 58	5741.17	24.07	271.52	32.97	109.88	13 57 39	5141.2	26.56	263.53
110.00	11 16 9	659.54	15.57	304.98	28.70	120.82	11 27 8	59.5	19.54	298.11
110.00	15 3 21	5237.55	33.17	235.81	35.61	98.76	16 30 38	4637.6	34.03	226.68

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.0317 TRA  .0897 TC3-5.8001 BAU  .9447   SGT 5248.3 SGR  362.5 SG3  358.4      ST  3338.0 SR   347.7 SS  1356.4
RDE  .2116 RRA  .0260 RC3 -.1300 FAU .05592   RRT -.4115 RRF -.4368 RTF  .9551     CRT -.9973 CRS  .9831 CST -.9925
FDE-1.7057 FRA  .6757 FC3-3.9744 BSP  16413   SGB 5260.8 R23  .0463 R13 -.9552     LSA 3616.5 MSA  155.5 SSA   16.1
BDE 2.0427 BRA  .0934 BC3 5.8015 FSP  -1153   SG1 5250.4 SG2  330.2 THA 178.37     EL1 3356.0 EL2   25.3 ALF 174.07
```

LAUNCH DATE JUN 24 1967 FLIGHT TIME 174.00 ARRIVAL DATE DEC 15 1967

DISTANCE 498.535

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.355 GAL .99 AZL 93.88 HCA 236.22 SMA 126.26 ECC .20493 INC 3.8762 V1 29.301
RP 107.51 LAP 3.22 LOP 147.98 VP 37.655 GAP 8.21 AZP 87.84 TAL 176.14 TAP 52.36 RCA 100.39 APO 152.14 V2 35.249
RC 142.165 GL -30.43 GP 7.09 ZAL 84.03 ZAP 158.09 ETS 17.88 ZAE 129.74 ETE 174.40 ZAC 94.61 ETC 14.84 CLP-159.22

PLANETOCENTRIC CONIC
C3 12.366 VHL 3.517 DLA -31.12 RAL 174.55 RAD 6567.5 VEL 11.565 PTH 2.02 VHP 5.719 DPA 14.06 RAP 173.92 ECC 1.2035

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.51	9 5 40	1127.77	24.20	343.46	36.43	110.19	9 24 28	527.8	26.73	335.47
103.49	12 39 48	5727.76	24.21	270.57	36.43	110.18	14 15 16	5127.8	26.74	262.58
76.51	9 5 40	1127.77	24.20	343.46	36.43	110.19	9 24 28	527.8	26.73	335.47
103.49	12 39 48	5727.76	24.21	270.57	36.43	110.18	14 15 16	5127.8	26.74	262.58
110.00	11 33 37	646.70	16.02	304.25	32.30	120.61	11 44 24	46.7	19.96	297.35
110.00	15 11 1	5256.83	32.96	237.28	39.08	99.61	16 38 38	4656.8	33.94	228.17

DIFFERENTIAL CORRECTIONS
TDE-2.0835 TRA .2389 TC3-5.8191 BAU .9624
RDE .2162 RRA .0298 RC3 -.1453 FAU .05232
FDE-1.6255 FRA .7473 FC3-3.6627 BSP 16740
BDE 2.0947 BRA .2407 BC3 5.8209 FSP -1105

MID-COURSE EXECUTION ACCURACY
SGT 5336.7 SGR 371.1 SG3 342.1
RRT -.3796 RRF -.4009 RTF .9551
SGB 5349.6 R23 .0398 R13 -.9552
SG1 5338.6 SG2 343.2 THA 178.48

ORBIT DETERMINATION ACCURACY
ST 3399.6 SR 352.7 SS 1326.0
CRT -.9951 CRS .9777 CST -.9928
LSA 3662.8 MSA 152.0 SSA 17.0
EL1 3417.6 EL2 34.7 ALF 174.11

LAUNCH DATE JUN 24 1967 FLIGHT TIME 176.00 ARRIVAL DATE DEC 17 1967

DISTANCE 504.416

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.316 GAL 1.36 AZL 93.80 HCA 239.46 SMA 126.02 ECC .20789 INC 3.8047 V1 29.301
RP 107.52 LAP 3.28 LOP 151.23 VP 37.623 GAP 8.56 AZP 88.06 TAL 174.82 TAP 54.28 RCA 99.82 APO 152.21 V2 35.245
RC 144.295 GL -29.41 GP 6.63 ZAL 81.40 ZAP 159.45 ETS 17.80 ZAE 129.44 ETE 174.88 ZAC 92.85 ETC 14.42 CLP-160.51

PLANETOCENTRIC CONIC
C3 12.635 VHL 3.555 DLA -31.39 RAL 177.77 RAD 6567.5 VEL 11.577 PTH 2.02 VHP 5.893 DPA 12.84 RAP 175.55 ECC 1.2079

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.85	9 13 49	1147.08	24.29	344.96	40.05	110.52	9 32 56	547.1	26.86	336.97
104.15	12 57 19	5717.61	24.30	269.84	40.05	110.51	14 32 36	5117.6	26.87	261.85
75.85	9 13 49	1147.08	24.29	344.96	40.05	110.52	9 32 56	547.1	26.86	336.97
104.15	12 57 19	5717.61	24.30	269.84	40.05	110.51	14 32 36	5117.6	26.87	261.85
110.00	11 51 16	635.64	16.40	303.62	36.04	120.42	12 1 51	35.6	20.32	296.69
110.00	15 19 2	5277.05	32.72	238.81	42.71	100.48	16 46 59	4677.1	33.82	229.74

DIFFERENTIAL CORRECTIONS
TDE-2.1335 TRA .3979 TC3-5.7931 BAU .9789
RDE .2226 RRA .0333 RC3 -.1548 FAU .04889
FDE-1.5475 FRA .8134 FC3-3.3496 BSP 17035
BDE 2.1451 BRA .3993 BC3 5.7952 FSP -1060

MID-COURSE EXECUTION ACCURACY
SGT 5417.8 SGR 380.5 SG3 326.2
RRT -.3557 RRF -.3734 RTF .9553
SGB 5431.2 R23 .0343 R13 -.9554
SG1 5419.5 SG2 355.5 THA 178.56

ORBIT DETERMINATION ACCURACY
ST 3448.6 SR 359.3 SS 1292.0
CRT -.9920 CRS .9718 CST -.9931
LSA 3697.1 MSA 149.2 SSA 17.7
EL1 3467.0 EL2 45.0 ALF 174.10

LAUNCH DATE JUN 24 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 19 1967

DISTANCE 510.272

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.276 GAL 1.74 AZL 93.74 HCA 242.71 SMA 125.77 ECC .21107 INC 3.7380 V1 29.301
RP 107.53 LAP 3.32 LOP 154.48 VP 37.591 GAP 8.92 AZP 88.28 TAL 173.48 TAP 56.19 RCA 99.22 APO 152.31 V2 35.240
RC 146.414 GL -28.36 GP 6.22 ZAL 78.72 ZAP 160.75 ETS 17.81 ZAE 129.16 ETE 175.30 ZAC 91.03 ETC 14.05 CLP-161.75

PLANETOCENTRIC CONIC
C3 12.992 VHL 3.604 DLA -31.63 RAL 181.03 RAD 6567.5 VEL 11.592 PTH 2.03 VHP 6.073 DPA 11.66 RAP 177.24 ECC 1.2138

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.28	9 22 55	1165.34	24.32	346.35	43.80	110.87	9 42 21	565.3	26.94	338.38
104.72	13 14 14	5711.31	24.33	269.38	43.81	110.86	14 49 26	5111.3	26.95	261.40
75.28	9 22 55	1165.34	24.32	346.35	43.80	110.87	9 42 21	565.3	26.94	338.38
104.72	13 14 14	5711.31	24.33	269.38	43.81	110.86	14 49 26	5111.3	26.95	261.40
110.00	12 8 45	627.17	16.69	303.14	39.91	120.27	12 19 12	27.2	20.59	296.18
110.00	15 27 35	5297.49	32.46	240.34	46.47	101.36	16 55 53	4697.5	33.68	231.32

DIFFERENTIAL CORRECTIONS
TDE-2.1795 TRA .5702 TC3-5.7141 BAU .9929
RDE .2306 RRA .0360 RC3 -.1597 FAU .04546
FDE-1.4702 FRA .8786 FC3-3.0290 BSP 17235
BDE 2.1916 BRA .5714 BC3 5.7163 FSP -1007

MID-COURSE EXECUTION ACCURACY
SGT 5486.7 SGR 390.0 SG3 310.6
RRT -.3383 RRF -.3529 RTF .9552
SGB 5500.5 R23 .0301 R13 -.9552
SG1 5488.3 SG2 366.9 THA 178.62

ORBIT DETERMINATION ACCURACY
ST 3481.3 SR 367.1 SS 1253.7
CRT -.9882 CRS .9651 CST -.9933
LSA 3715.4 MSA 148.1 SSA 18.3
EL1 3500.2 EL2 55.9 ALF 174.05

LAUNCH DATE JUN 24 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 21 1967

DISTANCE 516.100

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.237 GAL 2.13 AZL 93.68 HCA 245.95 SMA 125.52 ECC .21447 INC 3.6750 V1 29.301
RP 107.55 LAP 3.36 LOP 157.73 VP 37.558 GAP 9.29 AZP 88.50 TAL 172.14 TAP 58.09 RCA 98.60 APO 152.44 V2 35.234
RC 148.521 GL -27.28 GP 5.86 ZAL 76.02 ZAP 162.00 ETS 17.91 ZAE 128.90 ETE 175.66 ZAC 89.15 ETC 13.71 CLP-162.95

PLANETOCENTRIC CONIC
C3 13.445 VHL 3.667 DLA -31.83 RAL 184.33 RAD 6567.5 VEL 11.612 PTH 2.03 VHP 6.261 DPA 10.49 RAP 178.98 ECC 1.2213

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.83	9 32 58	1182.48	24.29	347.64	47.67	111.23	9 52 40	582.5	26.95	339.69
105.17	13 30 29	5709.00	24.30	269.18	47.68	111.22	15 5 38	5109.0	26.96	261.23
74.83	9 32 58	1182.48	24.29	347.64	47.67	111.23	9 52 40	582.5	26.95	339.69
105.17	13 30 29	5709.00	24.30	269.18	47.68	111.22	15 5 38	5109.0	26.96	261.23
110.00	12 25 45	622.15	16.86	302.85	43.86	120.18	12 36 7	22.1	20.75	295.88
110.00	15 36 52	5317.33	32.18	241.82	50.36	102.19	17 5 29	4717.3	33.53	232.85

DIFFERENTIAL CORRECTIONS
TDE-2.2274 TRA .7492 TC3-5.6050 BAU 1.0079
RDE .2404 RRA .0384 RC3 -.1594 FAU .04239
FDE-1.4007 FRA .9358 FC3-2.7298 BSP 17504
BDE 2.2404 BRA .7502 BC3 5.6072 FSP -966

MID-COURSE EXECUTION ACCURACY
SGT 5559.5 SGR 399.7 SG3 296.3
RRT -.3283 RRF -.3405 RTF .9556
SGB 5573.9 R23 .0268 R13 -.9556
SG1 5561.1 SG2 377.4 THA 178.64

ORBIT DETERMINATION ACCURACY
ST 3507.2 SR 376.2 SS 1216.9
CRT -.9838 CRS .9582 CST -.9935
LSA 3728.4 MSA 147.5 SSA 18.7
EL1 3526.7 EL2 67.0 ALF 173.97

LAUNCH DATE JUN 24 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 23 1967

HELIOCENTRIC CONIC DISTANCE 521.899

RL 152.05 LAL .00 LOL 271.82 VL 26.197 GAL 2.55 AZL 93.62 HCA 249.19 SMA 125.27 ECC .21812 INC 3.6152 V1 29.301
RP 107.57 LAP 3.38 LOP 160.97 VP 37.524 GAP 9.66 AZP 88.71 TAL 170.78 TAP 59.97 RCA 97.95 APO 152.60 V2 35.228
RC 150.615 GL -26.17 GP 5.54 ZAL 73.31 ZAP 163.20 ETS 18.11 ZAE 128.66 ETE 175.96 ZAC 87.22 ETC 13.41 CLP-164.11

PLANETOCENTRIC CONIC

C3 14.002 VHL 3.742 DLA -31.97 RAL 187.63 RAD 6567.6 VEL 11.636 PTH 2.04 VHP 6.455 DPA 9.35 RAP 180.76 ECC 1.2304

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.49	9 43 52	1198.52	24.17	348.81	51.64	111.60	10 3 50	598.5	26.89	340.88
105.51	13 45 58	5710.73	24.18	269.27	51.65	111.58	15 21 9	5110.7	26.90	261.34
74.49	9 43 52	1198.52	24.17	348.81	51.64	111.60	10 3 50	598.5	26.89	340.88
105.51	13 45 58	5710.73	24.18	269.27	51.65	111.58	15 21 9	5110.7	26.90	261.34
110.00	12 41 58	621.35	16.89	302.80	47.88	120.17	12 52 19	21.4	20.77	295.83
110.00	15 47 3	5335.90	31.91	243.20	54.37	102.97	17 15 58	4735.9	33.36	234.27

DIFFERENTIAL CORRECTIONS
TDE-2.2718 TRA .9407 TC3-5.4524 BAU 1.0211
RDE .2517 RRA .0398 RC3 -.1556 FAU .03941
FDE-1.3332 FRA .9917 FC3-2.4364 BSP 17742
BDE 2.2857 BRA .9415 BC3 5.4546 FSP -924

MID-COURSE EXECUTION ACCURACY
SGT 5624.4 SGR 408.9 SG3 282.6
RRT -.3232 RRF -.3334 RTF .9558
SGB 5639.2 R23 .0243 R13 -.9558
SG1 5626.0 SG2 386.8 THA 178.65

ORBIT DETERMINATION ACCURACY
ST 3517.8 SR 386.0 SS 1177.7
CRT -.9789 CRS .9508 CST -.9937
LSA 3726.7 MSA 148.6 SSA 18.9
EL1 3538.0 EL2 78.5 ALF 173.87

LAUNCH DATE JUN 24 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 25 1967

HELIOCENTRIC CONIC DISTANCE 527.666

RL 152.05 LAL .00 LOL 271.82 VL 26.157 GAL 2.99 AZL 93.56 HCA 252.43 SMA 125.03 ECC .22203 INC 3.5579 V1 29.301
RP 107.59 LAP 3.39 LOP 164.22 VP 37.490 GAP 10.05 AZP 88.92 TAL 169.41 TAP 61.84 RCA 97.27 APO 152.79 V2 35.221
RC 152.696 GL -25.03 GP 5.25 ZAL 70.61 ZAP 164.35 ETS 18.42 ZAE 128.44 ETE 176.23 ZAC 85.24 ETC 13.14 CLP-165.24

PLANETOCENTRIC CONIC

C3 14.675 VHL 3.831 DLA -32.07 RAL 190.93 RAD 6567.6 VEL 11.664 PTH 2.05 VHP 6.658 DPA 8.22 RAP 182.58 ECC 1.2415

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.28	9 55 37	1213.30	23.98	349.85	55.69	111.96	10 15 50	613.3	26.74	341.95
105.72	14 0 32	5716.70	23.99	269.64	55.70	111.95	15 35 49	5116.7	26.75	261.74
74.28	9 55 37	1213.30	23.98	349.85	55.69	111.96	10 15 50	613.3	26.74	341.95
105.72	14 0 32	5716.70	23.99	269.64	55.70	111.95	15 35 49	5116.7	26.75	261.74
110.00	12 57 5	625.45	16.75	303.04	51.92	120.24	13 7 30	25.5	20.64	296.08
110.00	15 58 15	5352.55	31.65	244.43	58.47	103.65	17 27 27	4752.5	33.20	235.55

DIFFERENTIAL CORRECTIONS
TDE-2.3138 TRA 1.1428 TC3-5.2675 BAU 1.0338
RDE .2644 RRA .0403 RC3 -.1484 FAU .03664
FDE-1.2695 FRA 1.0436 FC3-2.1614 BSP 17980
BDE 2.3288 BRA 1.1435 BC3 5.2696 FSP -887

MID-COURSE EXECUTION ACCURACY
SGT 5686.0 SGR 417.6 SG3 269.7
RRT -.3227 RRF -.3311 RTF .9562
SGB 5701.4 R23 .0222 R13 -.9563
SG1 5687.6 SG2 395.2 THA 178.64

ORBIT DETERMINATION ACCURACY
ST 3515.2 SR 396.1 SS 1138.0
CRT -.9734 CRS .9431 CST -.9939
LSA 3712.9 MSA 150.8 SSA 18.9
EL1 3536.3 EL2 90.2 ALF 173.74

LAUNCH DATE JUN 24 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 27 1967

HELIOCENTRIC CONIC DISTANCE 533.400

RL 152.05 LAL .00 LOL 271.82 VL 26.118 GAL 3.45 AZL 93.50 HCA 255.67 SMA 124.79 ECC .22623 INC 3.5026 V1 29.301
RP 107.62 LAP 3.39 LOP 167.47 VP 37.455 GAP 10.45 AZP 89.13 TAL 168.04 TAP 63.71 RCA 96.55 APO 153.02 V2 35.214
RC 154.762 GL -23.88 GP 5.00 ZAL 67.92 ZAP 165.47 ETS 18.85 ZAE 128.24 ETE 176.46 ZAC 83.23 ETC 12.90 CLP-166.34

PLANETOCENTRIC CONIC

C3 15.475 VHL 3.934 DLA -32.10 RAL 194.21 RAD 6567.6 VEL 11.699 PTH 2.06 VHP 6.870 DPA 7.10 RAP 184.44 ECC 1.2547

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.20	10 8 9	1226.82	23.70	350.75	59.80	112.32	10 28 36	626.8	26.51	342.90
105.80	14 14 7	5726.98	23.71	270.29	59.80	112.31	15 49 34	5127.0	26.52	262.44
74.20	10 8 9	1226.82	23.70	350.75	59.80	112.32	10 28 36	626.8	26.51	342.90
105.80	14 14 7	5726.98	23.71	270.29	59.80	112.31	15 49 34	5127.0	26.52	262.44
110.00	13 10 54	634.91	16.43	303.58	55.96	120.41	13 21 29	34.9	20.34	296.64
110.00	16 10 32	5366.88	31.41	245.48	62.67	104.23	17 39 59	4766.9	33.05	236.64

DIFFERENTIAL CORRECTIONS
TDE-2.3482 TRA 1.3602 TC3-5.0415 BAU 1.0434
RDE .2784 RRA .0398 RC3 -.1392 FAU .03386
FDE-1.2047 FRA 1.0959 FC3-1.8944 BSP 18122
BDE 2.3646 BRA 1.3608 BC3 5.0434 FSP -846

MID-COURSE EXECUTION ACCURACY
SGT 5735.8 SGR 425.5 SG3 257.0
RRT -.3247 RRF -.3313 RTF .9564
SGB 5751.6 R23 .0204 R13 -.9564
SG1 5737.5 SG2 402.3 THA 178.61

ORBIT DETERMINATION ACCURACY
ST 3493.3 SR 406.0 SS 1094.5
CRT -.9673 CRS .9346 CST -.9940
LSA 3679.9 MSA 154.9 SSA 18.8
EL1 3515.3 EL2 102.3 ALF 173.58

LAUNCH DATE JUN 24 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 29 1967

HELIOCENTRIC CONIC DISTANCE 539.097

RL 152.05 LAL .00 LOL 271.82 VL 26.078 GAL 3.93 AZL 93.45 HCA 258.91 SMA 124.54 ECC .23074 INC 3.4490 V1 29.301
RP 107.64 LAP 3.38 LOP 170.71 VP 37.420 GAP 10.86 AZP 89.34 TAL 166.66 TAP 65.57 RCA 95.81 APO 153.28 V2 35.205
RC 156.813 GL -22.72 GP 4.77 ZAL 65.27 ZAP 166.55 ETS 19.42 ZAE 128.05 ETE 176.66 ZAC 81.19 ETC 12.69 CLP-167.41

PLANETOCENTRIC CONIC

C3 16.418 VHL 4.052 DLA -32.08 RAL 197.43 RAD 6567.7 VEL 11.739 PTH 2.07 VHP 7.091 DPA 6.00 RAP 186.32 ECC 1.2702

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.25	10 21 21	1239.22	23.33	351.53	63.94	112.67	10 42 0	639.2	26.19	343.72
105.75	14 26 40	5741.42	23.34	271.23	63.94	112.65	16 2 21	5141.4	26.21	263.42
74.25	10 21 21	1239.22	23.33	351.53	63.94	112.67	10 42 0	639.2	26.19	343.72
105.75	14 26 40	5741.42	23.34	271.23	63.94	112.65	16 2 21	5141.4	26.21	263.42
110.00	13 23 16	649.95	15.91	304.43	59.98	120.66	13 34 6	50.0	19.86	297.54
110.00	16 23 55	5378.69	31.21	246.34	66.93	104.70	17 53 34	4778.7	32.91	237.53

DIFFERENTIAL CORRECTIONS
TDE-2.3823 TRA 1.5874 TC3-4.7973 BAU 1.0533
RDE .2937 RRA .0381 RC3 -.1280 FAU .03132
FDE-1.1456 FRA 1.1445 FC3-1.6516 BSP 18318
BDE 2.4003 BRA 1.5878 BC3 4.7990 FSP -811

MID-COURSE EXECUTION ACCURACY
SGT 5786.2 SGR 432.7 SG3 245.3
RRT -.3304 RRF -.3357 RTF .9568
SGB 5802.3 R23 .0190 R13 -.9568
SG1 5787.9 SG2 408.3 THA 178.58

ORBIT DETERMINATION ACCURACY
ST 3463.1 SR 415.7 SS 1053.0
CRT -.9609 CRS .9260 CST -.9941
LSA 3639.9 MSA 159.8 SSA 18.5
EL1 3486.1 EL2 114.4 ALF 173.41

LAUNCH DATE JUN 24 1967 FLIGHT TIME 190.00 ARRIVAL DATE DEC 31 1967

DISTANCE 544.752

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 26.039 GAL 4.43 AZL 93.40 HCA 262.15 SMA 124.30 ECC .23559 INC 3.3965 V1 29.301
RP 107.67 LAP 3.36 LOP 173.96 VP 37.384 GAP 11.28 AZP 89.54 TAL 165.28 TAP 67.43 RCA 95.02 APO 153.59 V2 35.197
RC 158.850 GL -21.56 GP 4.56 ZAL 62.67 ZAP 167.60 ETS 20.16 ZAE 127.87 ETE 176.83 ZAC 79.11 ETC 12.51 CLP-168.46

PLANETOCENTRIC CONIC
C3 17.520 VHL 4.186 DLA -32.00 RAL 200.60 RAD 6567.7 VEL 11.786 PTH 2.08 VHP 7.324 DPA 4.91 RAP 188.23 ECC 1.2883

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.44	10 35 13	1250.27	22.88	352.17	68.09	113.00	10 56 3	650.3	25.79	344.40
105.56	14 38 2	5760.30	22.89	272.46	68.10	112.99	16 14 2	5160.3	25.80	264.70
74.44	10 35 13	1250.27	22.88	352.17	68.09	113.00	10 56 3	650.3	25.79	344.40
105.56	14 38 2	5760.30	22.89	272.46	68.10	112.99	16 14 2	5160.3	25.80	264.70
110.00	13 34 9	670.48	15.19	305.59	63.95	121.00	13 45 19	70.5	19.19	298.76
110.00	16 38 16	5388.09	31.05	247.03	71.25	105.08	18 8 4	4788.1	32.80	238.24

DIFFERENTIAL CORRECTIONS
TDE-2.4125 TRA 1.8271 TC3-4.5326 BAU 1.0620
RDE .3101 RRA .0353 RC3 -.1156 FAU .02891
FDE-1.0889 FRA 1.1912 FC3-1.4285 BSP 18509
BDE 2.4324 BRA 1.8275 BC3 4.5341 FSP -778

MID-COURSE EXECUTION ACCURACY
SGT 5831.0 SGR 439.1 SG3 234.2
RRT -.3386 RRF -.3425 RTF .9572
SGB 5847.5 R23 .0178 R13 -.9572
SG1 5832.9 SG2 413.0 THA 178.53

ORBIT DETERMINATION ACCURACY
ST 3420.7 SR 424.9 SS 1011.6
CRT -.9540 CRS .9169 CST -.9942
LSA 3588.5 MSA 165.9 SSA 18.1
EL1 3444.7 EL2 126.5 ALF 173.23

LAUNCH DATE JUN 24 1967 FLIGHT TIME 192.00 ARRIVAL DATE JAN 2 1968

DISTANCE 550.363

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 25.999 GAL 4.97 AZL 93.34 HCA 265.38 SMA 124.07 ECC .24081 INC 3.3449 V1 29.301
RP 107.70 LAP 3.33 LOP 177.20 VP 37.348 GAP 11.73 AZP 89.73 TAL 163.90 TAP 69.28 RCA 94.19 APO 153.94 V2 35.187
RC 160.871 GL -20.40 GP 4.38 ZAL 60.13 ZAP 168.62 ETS 21.11 ZAE 127.71 ETE 176.98 ZAC 77.02 ETC 12.36 CLP-169.48

PLANETOCENTRIC CONIC
C3 18.802 VHL 4.336 DLA -31.86 RAL 203.68 RAD 6567.8 VEL 11.840 PTH 2.10 VHP 7.568 DPA 3.82 RAP 190.16 ECC 1.3094

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.76	10 49 40	1260.08	22.34	352.66	72.25	113.32	11 10 40	660.1	25.30	344.96
105.24	14 48 11	5783.47	22.36	273.98	72.26	113.31	16 24 35	5183.5	25.31	266.26
74.76	10 49 40	1260.08	22.34	352.66	72.25	113.32	11 10 40	660.1	25.30	344.96
105.24	14 48 11	5783.47	22.36	273.98	72.26	113.31	16 24 35	5183.5	25.31	266.26
110.00	13 43 35	696.16	14.28	307.03	67.87	121.39	13 55 11	96.2	18.33	300.26
110.00	16 53 26	5395.40	30.92	247.56	75.62	105.37	18 23 22	4795.4	32.71	238.80

DIFFERENTIAL CORRECTIONS
TDE-2.4392 TRA 2.0806 TC3-4.2521 BAU 1.0691
RDE .3277 RRA .0311 RC3 -.1026 FAU .02662
FDE-1.0354 FRA 1.2366 FC3-1.2256 BSP 18687
BDE 2.4611 BRA 2.0808 BC3 4.2533 FSP -747

MID-COURSE EXECUTION ACCURACY
SGT 5870.5 SGR 444.6 SG3 223.7
RRT -.3489 RRF -.3515 RTF .9577
SGB 5887.3 R23 .0167 R13 -.9578
SG1 5872.5 SG2 416.6 THA 178.48

ORBIT DETERMINATION ACCURACY
ST 3368.0 SR 433.2 SS 971.1
CRT -.9465 CRS .9075 CST -.9943
LSA 3527.6 MSA 172.7 SSA 17.6
EL1 3392.9 EL2 138.7 ALF 173.05

LAUNCH DATE JUN 24 1967 FLIGHT TIME 194.00 ARRIVAL DATE JAN 4 1968

DISTANCE 555.924

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 25.960 GAL 5.53 AZL 93.29 HCA 268.62 SMA 123.83 ECC .24644 INC 3.2938 V1 29.301
RP 107.73 LAP 3.29 LOP 180.44 VP 37.312 GAP 12.19 AZP 89.92 TAL 162.52 TAP 71.14 RCA 93.31 APO 154.35 V2 35.178
RC 162.878 GL -19.25 GP 4.21 ZAL 57.66 ZAP 169.61 ETS 22.30 ZAE 127.55 ETE 177.11 ZAC 74.90 ETC 12.25 CLP-170.49

PLANETOCENTRIC CONIC
C3 20.286 VHL 4.504 DLA -31.66 RAL 206.67 RAD 6567.8 VEL 11.902 PTH 2.11 VHP 7.826 DPA 2.75 RAP 192.11 ECC 1.3339

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.20	11 4 38	1268.56	21.73	353.02	76.40	113.62	11 25 47	668.6	24.73	345.37
104.80	14 57 5	5811.02	21.74	275.78	76.40	113.61	16 33 56	5211.0	24.75	268.12
75.20	11 4 38	1268.56	21.73	353.02	76.40	113.62	11 25 47	668.6	24.73	345.37
104.80	14 57 5	5811.02	21.74	275.78	76.40	113.61	16 33 56	5211.0	24.75	268.12
110.00	13 51 42	726.46	13.20	308.72	71.71	121.82	14 3 48	126.5	17.31	302.02
110.00	17 9 11	5401.11	30.81	247.97	80.00	105.59	18 39 13	4801.1	32.64	239.23

DIFFERENTIAL CORRECTIONS
TDE-2.4577 TRA 2.3528 TC3-3.9524 BAU 1.0722
RDE .3459 RRA .0254 RC3 -.0899 FAU .02429
FDE -.9815 FRA 1.2841 FC3-1.0367 BSP 18745
BDE 2.4820 BRA 2.3529 BC3 3.9534 FSP -712

MID-COURSE EXECUTION ACCURACY
SGT 5900.6 SGR 449.0 SG3 213.6
RRT -.3600 RRF -.3611 RTF .9580
SGB 5917.6 R23 .0155 R13 -.9580
SG1 5902.8 SG2 418.7 THA 178.42

ORBIT DETERMINATION ACCURACY
ST 3301.4 SR 440.2 SS 929.9
CRT -.9382 CRS .8967 CST -.9943
LSA 3453.2 MSA 180.9 SSA 17.1
EL1 3327.2 EL2 151.1 ALF 172.85

LAUNCH DATE JUN 24 1967 FLIGHT TIME 196.00 ARRIVAL DATE JAN 6 1968

DISTANCE 561.428

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 25.921 GAL 6.12 AZL 93.24 HCA 271.85 SMA 123.60 ECC .25251 INC 3.2429 V1 29.301
RP 107.76 LAP 3.24 LOP 183.67 VP 37.275 GAP 12.67 AZP 90.10 TAL 161.14 TAP 72.99 RCA 92.39 APO 154.81 V2 35.167
RC 164.869 GL -18.11 GP 4.06 ZAL 55.27 ZAP 170.58 ETS 23.81 ZAE 127.40 ETE 177.22 ZAC 72.77 ETC 12.16 CLP-171.49

PLANETOCENTRIC CONIC
C3 22.001 VHL 4.691 DLA -31.42 RAL 209.56 RAD 6567.9 VEL 11.974 PTH 2.13 VHP 8.098 DPA 1.69 RAP 194.08 ECC 1.3621

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.78	11 20 7	1275.60	21.04	353.23	80.52	113.89	11 41 23	675.6	24.09	345.63
104.22	15 4 37	5842.99	21.05	277.87	80.52	113.88	16 42 0	5243.0	24.10	270.28
75.78	11 20 7	1275.60	21.04	353.23	80.52	113.89	11 41 23	675.6	24.09	345.63
104.22	15 4 37	5842.99	21.05	277.87	80.52	113.88	16 42 0	5243.0	24.10	270.28
110.00	13 58 37	760.81	11.96	310.60	75.47	122.26	14 11 18	160.8	16.14	303.98
110.00	17 25 18	5405.77	30.73	248.30	84.39	105.77	18 55 24	4805.8	32.58	239.58

DIFFERENTIAL CORRECTIONS
TDE-2.4783 TRA 2.6353 TC3-3.6575 BAU 1.0760
RDE .3652 RRA .0184 RC3 -.0772 FAU .02222
FDE -.9342 FRA 1.3280 FC3 -.8745 BSP 18911
BDE 2.5051 BRA 2.6353 BC3 3.6583 FSP -685

MID-COURSE EXECUTION ACCURACY
SGT 5930.2 SGR 452.7 SG3 204.2
RRT -.3735 RRF -.3734 RTF .9587
SGB 5947.4 R23 .0146 R13 -.9587
SG1 5932.6 SG2 419.7 THA 178.36

ORBIT DETERMINATION ACCURACY
ST 3233.6 SR 446.1 SS 892.7
CRT -.9297 CRS .8862 CST -.9943
LSA 3378.8 MSA 188.9 SSA 16.5
EL1 3260.1 EL2 163.0 ALF 172.67

LAUNCH DATE JUN 24 1967 FLIGHT TIME 198.00 ARRIVAL DATE JAN 8 1968

HELIOCENTRIC CONIC DISTANCE 566.870

RL 152.05 LAL .00 LOL 271.82 VL 25.882 GAL 6.75 AZL 93.19 HCA 275.08 SMA 123.37 ECC .25907 INC 3.1917 V1 29.301
RP 107.79 LAP 3.18 LOP 186.91 VP 37.238 GAP 13.18 AZP 90.28 TAL 159.78 TAP 74.86 RCA 91.41 APO 155.33 V2 35.156
RC 166.846 GL -16.99 GP 3.92 ZAL 52.96 ZAP 171.52 ETS 25.74 ZAE 127.25 ETE 177.32 ZAC 70.63 ETC 12.11 CLP-172.47

PLANETOCENTRIC CONIC

C3 23.979 VHL 4.897 DLA -31.13 RAL 212.33 RAD 6568.0 VEL 12.056 PTH 2.15 VHP 8.387 DPA .64 RAP 196.07 ECC 1.3946

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.49	11 36 10	1280.88	20.28	353.26	84.60	114.14	11 57 31	680.9	23.37	345.73
103.51	15 10 42	5879.62	20.29	280.28	84.60	114.13	16 48 41	5279.6	23.38	272.74
76.49	11 36 10	1280.88	20.28	353.26	84.60	114.14	11 57 31	680.9	23.37	345.73
103.51	15 10 42	5879.62	20.29	280.28	84.60	114.13	16 48 41	5279.6	23.38	272.74
110.00	14 4 30	798.60	10.58	312.66	79.16	122.70	14 17 49	198.6	14.82	306.12
110.00	17 41 32	5409.91	30.65	248.60	88.78	105.93	19 11 42	4809.9	32.53	239.89

DIFFERENTIAL CORRECTIONS
TDE-2.4955 TRA 2.9349 TC3-3.3599 BAU 1.0773
RDE .3851 RRA .0098 RC3 -.0652 FAU .02021
FDE -.8891 FRA 1.3725 FC3 -.7298 BSP 19037
BDE 2.5250 BRA 2.9349 BC3 3.3605 FSP -658

MID-COURSE EXECUTION ACCURACY
SGT 5953.8 SGR 455.3 SG3 195.4
RRT -.3880 RRF -.3866 RTF .9594
SGB 5971.2 R23 .0136 R13 -.9594
SG1 5956.4 SG2 419.4 THA 178.29

ORBIT DETERMINATION ACCURACY
ST 3159.7 SR 450.6 SS 857.3
CRT -.9205 CRS .8750 CST -.9944
LSA 3298.8 MSA 197.2 SSA 15.9
EL1 3186.8 EL2 174.5 ALF 172.50

LAUNCH DATE JUN 24 1967 FLIGHT TIME 200.00 ARRIVAL DATE JAN 10 1968

HELIOCENTRIC CONIC DISTANCE 572.241

RL 152.05 LAL .00 LOL 271.82 VL 25.844 GAL 7.41 AZL 93.14 HCA 278.31 SMA 123.14 ECC .26617 INC 3.1402 V1 29.301
RP 107.83 LAP 3.11 LOP 190.14 VP 37.201 GAP 13.72 AZP 90.45 TAL 158.42 TAP 76.73 RCA 90.36 APO 155.92 V2 35.145
RC 168.808 GL -15.90 GP 3.79 ZAL 50.74 ZAP 172.43 ETS 28.21 ZAE 127.09 ETE 177.40 ZAC 68.47 ETC 12.08 CLP-173.45

PLANETOCENTRIC CONIC

C3 26.259 VHL 5.124 DLA -30.81 RAL 214.98 RAD 6568.1 VEL 12.151 PTH 2.18 VHP 8.695 DPA -.39 RAP 198.07 ECC 1.4322

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.33	11 52 47	1284.20	19.46	353.12	88.63	114.37	12 14 11	684.2	22.58	345.64
102.67	15 15 14	633.01	19.47	305.09	88.64	114.36	15 25 47	33.0	22.59	297.62
77.33	11 52 47	1284.20	19.46	353.12	88.63	114.37	12 14 11	684.2	22.58	345.64
102.67	15 15 14	633.01	19.47	305.09	88.64	114.36	15 25 47	33.0	22.59	297.62
110.00	14 9 30	839.26	9.08	314.85	82.77	123.10	14 23 29	239.3	13.37	308.38
110.00	17 57 42	5413.99	30.57	248.90	93.14	106.09	19 27 56	4814.0	32.47	240.19

DIFFERENTIAL CORRECTIONS
TDE-2.5105 TRA 3.2518 TC3-3.0648 BAU 1.0761
RDE .4056 RRA -.0005 RC3 -.0542 FAU .01829
FDE -.8471 FRA 1.4174 FC3 -.6029 BSP 19149
BDE 2.5430 BRA 3.2518 BC3 3.0653 FSP -632

MID-COURSE EXECUTION ACCURACY
SGT 5972.0 SGR 456.9 SG3 187.0
RRT -.4035 RRF -.4008 RTF .9602
SGB 5989.5 R23 .0125 R13 -.9603
SG1 5974.9 SG2 417.8 THA 178.22

ORBIT DETERMINATION ACCURACY
ST 3082.3 SR 453.5 SS 824.3
CRT -.9107 CRS .8634 CST -.9945
LSA 3216.1 MSA 205.6 SSA 15.4
EL1 3110.0 EL2 185.7 ALF 172.34

LAUNCH DATE JUN 24 1967 FLIGHT TIME 202.00 ARRIVAL DATE JAN 12 1968

HELIOCENTRIC CONIC DISTANCE 577.530

RL 152.05 LAL .00 LOL 271.82 VL 25.806 GAL 8.12 AZL 93.09 HCA 281.53 SMA 122.92 ECC .27387 INC 3.0877 V1 29.301
RP 107.86 LAP 3.03 LOP 193.37 VP 37.163 GAP 14.29 AZP 90.62 TAL 157.08 TAP 78.61 RCA 89.25 APO 156.58 V2 35.134
RC 170.755 GL -14.84 GP 3.68 ZAL 48.62 ZAP 173.32 ETS 31.45 ZAE 126.94 ETE 177.47 ZAC 66.32 ETC 12.09 CLP-174.42

PLANETOCENTRIC CONIC

C3 28.885 VHL 5.375 DLA -30.44 RAL 217.51 RAD 6568.2 VEL 12.258 PTH 2.21 VHP 9.024 DPA -1.42 RAP 200.07 ECC 1.4754

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.32	12 10 5	1285.02	18.58	352.76	92.61	114.56	12 31 30	685.0	21.73	345.34
101.68	15 18 5	679.65	18.59	308.16	92.62	114.55	15 29 25	79.7	21.75	300.75
78.32	12 10 5	1285.02	18.58	352.76	92.61	114.56	12 31 30	685.0	21.73	345.34
101.68	15 18 5	679.65	18.59	308.16	92.62	114.55	15 29 25	79.7	21.75	300.75
110.00	14 13 43	882.30	7.47	317.14	86.31	123.45	14 28 25	282.3	11.82	310.75
110.00	18 13 38	5418.41	30.49	249.21	97.47	106.26	19 43 57	4818.4	32.41	240.52

DIFFERENTIAL CORRECTIONS
TDE-2.5201 TRA 3.5913 TC3-2.7705 BAU 1.0700
RDE .4264 RRA -.0125 RC3 -.0445 FAU .01635
FDE -.8064 FRA 1.4647 FC3 -.4899 BSP 19157
BDE 2.5559 BRA 3.5913 BC3 2.7708 FSP -603

MID-COURSE EXECUTION ACCURACY
SGT 5983.9 SGR 457.4 SG3 179.1
RRT -.4193 RRF -.4152 RTF .9611
SGB 6001.4 R23 .0113 R13 -.9611
SG1 5987.0 SG2 415.0 THA 178.16

ORBIT DETERMINATION ACCURACY
ST 3000.1 SR 454.6 SS 793.0
CRT -.8999 CRS .8506 CST -.9946
LSA 3128.9 MSA 214.1 SSA 14.9
EL1 3028.0 EL2 196.5 ALF 172.20

LAUNCH DATE JUN 24 1967 FLIGHT TIME 204.00 ARRIVAL DATE JAN 14 1968

HELIOCENTRIC CONIC DISTANCE 582.727

RL 152.05 LAL .00 LOL 271.82 VL 25.768 GAL 8.87 AZL 93.03 HCA 284.76 SMA 122.69 ECC .28225 INC 3.0341 V1 29.301
RP 107.90 LAP 2.93 LOP 196.60 VP 37.126 GAP 14.90 AZP 90.77 TAL 155.75 TAP 80.51 RCA 88.06 APO 157.32 V2 35.122
RC 172.686 GL -13.80 GP 3.57 ZAL 46.59 ZAP 174.17 ETS 35.74 ZAE 126.78 ETE 177.53 ZAC 64.16 ETC 12.14 CLP-175.39

PLANETOCENTRIC CONIC

C3 31.914 VHL 5.649 DLA -30.05 RAL 219.90 RAD 6568.3 VEL 12.381 PTH 2.23 VHP 9.376 DPA -2.42 RAP 202.09 ECC 1.5252

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.49	12 28 21	1282.37	17.65	352.11	96.53	114.73	12 49 43	682.4	20.83	344.75
100.51	15 18 57	732.33	17.66	311.65	96.54	114.72	15 31 10	132.3	20.85	304.29
79.49	12 28 21	1282.37	17.65	352.11	96.53	114.73	12 49 43	682.4	20.83	344.75
100.51	15 18 57	732.33	17.66	311.65	96.54	114.72	15 31 10	132.3	20.85	304.29
110.00	14 17 16	927.29	5.77	319.52	89.76	123.75	14 32 43	327.3	10.17	313.19
110.00	18 29 13	5423.45	30.39	249.57	101.76	106.45	19 59 36	4823.4	32.34	240.90

DIFFERENTIAL CORRECTIONS
TDE-2.5332 TRA 3.9462 TC3-2.4916 BAU 1.0632
RDE .4478 RRA -.0261 RC3 -.0357 FAU .01458
FDE -.7710 FRA 1.5109 FC3 -.3955 BSP 19255
BDE 2.5725 BRA 3.9463 BC3 2.4919 ESP -580

MID-COURSE EXECUTION ACCURACY
SGT 5992.2 SGR 457.0 SG3 171.6
RRT -.4363 RRF -.4311 RTF .9623
SGB 6009.6 R23 .0102 R13 -.9623
SG1 5995.6 SG2 411.0 THA 178.09

ORBIT DETERMINATION ACCURACY
ST 2921.0 SR 454.3 SS 765.8
CRT -.8889 CRS .8383 CST -.9947
LSA 3045.6 MSA 221.7 SSA 14.4
EL1 2948.9 EL2 206.1 ALF 172.09

LAUNCH DATE JUN 24 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 16 1968

DISTANCE 587.816

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 25.731 GAL 9.67 AZL 92.98 HCA 287.98 SMA 122.48 ECC .29136 INC 2.9790 V1 29.301
RP 107.94 LAP 2.83 LOP 199.82 VP 37.088 GAP 15.54 AZP 90.92 TAL 154.45 TAP 82.43 RCA 86.79 APO 158.16 V2 35.110
RC 174.603 GL -12.80 GP 3.48 ZAL 44.66 ZAP 174.97 ETS 41.58 ZAE 126.61 ETE 177.58 ZAC 62.01 ETC 12.22 CLP-176.36

PLANETOCENTRIC CONIC
C3 35.411 VHL 5.951 DLA -29.64 RAL 222.17 RAD 6568.4 VEL 12.521 PTH 2.27 VHP 9.755 DPA -3.41 RAP 204.11 ECC 1.5828

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.87	12 47 57	1274.89	16.67	351.08	100.39	114.86	13 9 11	674.9	19.89	343.78
99.13	15 17 27	792.26	16.69	315.63	100.39	114.85	15 30 39	192.3	19.90	308.33
100.00	14 51 11	876.27	13.68	320.35	98.88	116.84	15 5 47	276.3	17.17	313.30
100.00	15 56 54	666.12	19.73	307.68	101.81	112.92	16 8 0	66.1	22.66	300.12
110.00	14 20 13	973.88	4.01	321.97	93.15	123.98	14 36 27	373.9	8.44	315.69
110.00	18 44 20	5429.31	30.28	249.99	105.99	106.68	20 14 50	4829.3	32.26	241.34

DIFFERENTIAL CORRECTIONS
TOE-2.5467 TRA 4.3230 TC3-2.2233 BAU 1.0526
ROE .4695 RRA -.0415 RC3 -.0281 FAU .01287
FOE -.7388 FRA 1.5589 FC3 -.3146 BSP 19343
BOE 2.5897 BRA 4.3232 BC3 2.2235 FSP -558

MID-COURSE EXECUTION ACCURACY
SGT 5995.6 SGR 455.6 SG3 164.6
RRT -.4539 RRF -.4475 RTF .9636
SGB 6012.9 R23 .0091 R13 -.9636
SG1 5999.2 SG2 405.7 THA 178.02

ORBIT DETERMINATION ACCURACY
ST 2843.1 SR 452.3 SS 741.7
CRT -.8774 CRS .8258 CST -.9949
LSA 2964.0 MSA 228.7 SSA 13.9
EL1 2870.8 EL2 214.9 ALF 172.01

LAUNCH DATE JUN 24 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 18 1968

DISTANCE 592.780

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 25.694 GAL 10.53 AZL 92.92 HCA 291.20 SMA 122.26 ECC .30132 INC 2.9218 V1 29.301
RP 107.97 LAP 2.72 LOP 203.04 VP 37.051 GAP 16.24 AZP 91.06 TAL 153.18 TAP 84.38 RCA 85.42 APO 159.10 V2 35.097
RC 176.504 GL -11.83 GP 3.39 ZAL 42.84 ZAP 175.69 ETS 49.65 ZAE 126.43 ETE 177.63 ZAC 59.86 ETC 12.33 CLP-177.34

PLANETOCENTRIC CONIC
C3 39.457 VHL 6.281 DLA -29.20 RAL 224.31 RAD 6568.5 VEL 12.682 PTH 2.30 VHP 10.164 DPA -4.37 RAP 206.14 ECC 1.6494

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.56	13 9 45	1259.56	15.66	349.46	104.17	114.96	13 30 45	659.6	18.90	342.22
97.44	15 12 39	862.26	15.68	320.32	104.18	114.95	15 27 2	262.3	18.91	313.07
100.00	14 38 30	971.86	10.68	325.86	101.61	118.09	14 54 42	371.9	14.35	319.00
100.00	16 26 36	625.19	20.79	305.11	106.51	111.97	16 37 1	25.2	23.59	297.43
110.00	14 22 39	1021.75	2.18	324.48	96.46	124.12	14 39 41	421.7	6.64	318.23
110.00	18 58 56	5436.11	30.15	250.48	110.17	106.94	20 29 32	4836.1	32.17	241.84

DIFFERENTIAL CORRECTIONS
TOE-2.5600 TRA 4.7240 TC3-1.9670 BAU 1.0376
ROE .4913 RRA -.0587 RC3 -.0218 FAU .01120
FOE -.7093 FRA 1.6090 FC3 -.2458 BSP 19399
BOE 2.6067 BRA 4.7243 BC3 1.9671 FSP -536

MID-COURSE EXECUTION ACCURACY
SGT 5993.7 SGR 453.2 SG3 157.9
RRT -.4718 RRF -.4644 RTF .9651
SGB 6010.8 R23 .0079 R13 -.9651
SG1 5997.5 SG2 399.3 THA 177.95

ORBIT DETERMINATION ACCURACY
ST 2766.0 SR 448.5 SS 720.5
CRT -.8654 CRS .8132 CST -.9952
LSA 2883.7 MSA 234.8 SSA 13.4
EL1 2793.3 EL2 222.6 ALF 171.96

LAUNCH DATE JUN 24 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 20 1968

DISTANCE 597.599

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 25.658 GAL 11.46 AZL 92.86 HCA 294.41 SMA 122.05 ECC .31221 INC 2.8621 V1 29.301
RP 108.01 LAP 2.61 LOP 206.26 VP 37.014 GAP 16.99 AZP 91.18 TAL 151.95 TAP 86.36 RCA 83.95 APO 160.16 V2 35.084
RC 178.389 GL -10.89 GP 3.31 ZAL 41.12 ZAP 176.29 ETS 60.86 ZAE 126.23 ETE 177.67 ZAC 57.73 ETC 12.49 CLP-178.32

PLANETOCENTRIC CONIC
C3 44.149 VHL 6.644 DLA -28.74 RAL 226.31 RAD 6568.7 VEL 12.865 PTH 2.34 VHP 10.607 DPA -5.32 RAP 208.16 ECC 1.7266

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.85	13 36 11	1228.50	14.63	346.67	107.87	115.02	13 56 39	628.5	17.88	339.48
95.15	15 2 12	949.99	14.64	326.28	107.88	115.01	15 18 2	350.0	17.89	319.08
100.00	14 31 2	1050.43	8.12	330.30	104.51	118.87	14 48 32	450.4	11.91	323.56
100.00	16 50 2	603.29	21.34	303.72	110.90	111.44	17 0 5	3.3	24.07	295.98
110.00	14 24 37	1070.63	.31	327.03	99.71	124.18	14 42 27	470.6	4.79	320.81
110.00	19 12 57	5443.90	29.99	251.03	114.27	107.23	20 43 41	4843.9	32.05	242.42

DIFFERENTIAL CORRECTIONS
TOE-2.5705 TRA 5.1558 TC3-1.7200 BAU 1.0152
ROE .5131 RRA -.0780 RC3 -.0169 FAU .00950
FOE -.6814 FRA 1.6634 FC3 -.1863 BSP 19341
BOE 2.6212 BRA 5.1564 BC3 1.7201 FSP -512

MID-COURSE EXECUTION ACCURACY
SGT 5987.5 SGR 449.6 SG3 151.7
RRT -.4897 RRF -.4812 RTF .9668
SGB 6004.3 R23 .0066 R13 -.9668
SG1 5991.5 SG2 391.7 THA 177.89

ORBIT DETERMINATION ACCURACY
ST 2689.2 SR 443.0 SS 701.7
CRT -.8525 CRS .7997 CST -.9954
LSA 2804.0 MSA 240.3 SSA 12.9
EL1 2715.8 EL2 229.3 ALF 171.95

LAUNCH DATE JUN 24 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 22 1968

DISTANCE 602.245

HELIOCENTRIC CONIC
RL 152.05 LAL .00 LOL 271.82 VL 25.622 GAL 12.45 AZL 92.80 HCA 297.63 SMA 121.85 ECC .32416 INC 2.7993 V1 29.301
RP 108.05 LAP 2.48 LOP 209.47 VP 36.977 GAP 17.80 AZP 91.30 TAL 150.75 TAP 88.38 RCA 82.35 APO 161.35 V2 35.071
RC 180.257 GL -9.99 GP 3.23 ZAL 39.51 ZAP 176.69 ETS 75.86 ZAE 126.01 ETE 177.70 ZAC 55.61 ETC 12.69 CLP-179.33

PLANETOCENTRIC CONIC
C3 49.607 VHL 7.043 DLA -28.27 RAL 228.18 RAD 6568.8 VEL 13.076 PTH 2.39 VHP 11.090 DPA -6.24 RAP 210.18 ECC 1.8164

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	14 12 59	1162.75	12.30	340.73	110.88	115.71	14 32 22	562.8	15.66	333.66
90.00	14 40 18	1074.18	14.86	335.48	112.11	114.39	14 58 12	474.2	18.03	328.23
100.00	14 25 33	1122.05	5.75	334.29	107.42	119.38	14 44 15	522.1	9.62	327.64
100.00	17 10 25	5878.15	21.67	280.78	115.11	111.11	18 48 23	5278.1	24.35	273.01
110.00	14 26 7	1120.30	-1.59	329.62	102.88	124.15	14 44 47	520.3	2.90	323.41
110.00	19 26 21	5452.67	29.81	251.65	118.28	107.56	20 57 14	4852.7	31.92	243.07

DIFFERENTIAL CORRECTIONS
TOE-2.5889 TRA 5.6109 TC3-1.4925 BAU .9899
ROE .5350 RRA -.0990 RC3 -.0129 FAU .00791
FOE -.6587 FRA 1.7191 FC3 -.1381 BSP 19394
BOE 2.6436 BRA 5.6118 BC3 1.4926 FSP -493

MID-COURSE EXECUTION ACCURACY
SGT 5976.3 SGR 445.1 SG3 145.8
RRT -.5083 RRF -.4991 RTF .9687
SGB 5992.9 R23 .0054 R13 -.9687
SG1 5980.6 SG2 383.0 THA 177.82

ORBIT DETERMINATION ACCURACY
ST 2618.6 SR 436.1 SS 687.0
CRT -.8400 CRS .7876 CST -.9958
LSA 2731.2 MSA 244.1 SSA 12.4
EL1 2644.3 EL2 234.3 ALF 171.97

LAUNCH DATE JUN 24 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 24 1968

HELIOCENTRIC CONIC DISTANCE 606.687

RL 152.05 LAL .00 LOL 271.82 VL 25.587 GAL 13.53 AZL 92.73 HCA 300.84 SMA 121.65 ECC .33731 INC 2.7328 V1 29.301
RP 108.09 LAP 2.35 LOP 212.69 VP 36.940 GAP 18.69 AZP 91.49 TAL 149.61 TAP 90.45 RCA 80.62 APO 162.68 V2 35.058
RC 182.108 GL -9.12 GP 3.17 ZAL 38.01 ZAP 176.81 ETS 93.80 ZAE 125.77 ETE 177.73 ZAC 53.52 ETC 12.93 CLP 179.65

PLANETOCENTRIC CONIC

C3 55.981 VHL 7.482 DLA -27.79 RAL 229.91 RAD 6569.0 VEL 13.317 PTH 2.43 VHP 11.618 DPA -7.14 RAP 212.19 ECC 1.9213

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 45 45	1303.92	8.01	348.87	112.79	117.25	14 7 29	703.9	11.60	342.04
90.00	15 21 23	992.93	17.08	330.55	117.14	112.94	15 37 56	392.9	20.04	323.12
100.00	14 21 4	1189.74	3.48	338.03	110.32	119.71	14 40 54	589.7	7.41	331.44
100.00	17 28 45	5870.38	21.86	280.28	119.18	110.91	19 6 35	5270.4	24.51	272.48
110.00	14 27 11	1170.53	-3.50	332.24	105.99	124.02	14 46 42	570.5	.99	326.03
110.00	19 39 7	5462.35	29.61	252.33	122.21	107.92	21 10 9	4862.3	31.77	243.79

DIFFERENTIAL CORRECTIONS
TOE-2.6111 TRA 6.0979 TC3-1.2790 BAU .9573
RDE .5570 RRA -.1218 RC3 -.0099 FAU .00634
FDE -.6389 FRA 1.7789 FC3 -.0980 BSP 19413
BDE 2.6698 BRA 6.0991 BC3 1.2791 FSP -475

MID-COURSE EXECUTION ACCURACY
SGT 5960.3 SGR 439.6 SG3 140.2
RRT -.5271 RRF -.5173 RTF .9708
SGB 5976.5 R23 .0041 R13 -.9708
SG1 5964.8 SG2 373.3 THA 177.76

ORBIT DETERMINATION ACCURACY
ST 2551.3 SR 427.7 SS 675.4
CRT -.8275 CRS .7759 CST -.9961
LSA 2662.2 MSA 246.5 SSA 11.9
EL1 2575.9 EL2 237.8 ALF 172.03

LAUNCH DATE JUN 24 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 26 1968

HELIOCENTRIC CONIC DISTANCE 610.883

RL 152.05 LAL .00 LOL 271.82 VL 25.553 GAL 14.70 AZL 92.66 HCA 304.05 SMA 121.45 ECC .35183 INC 2.6618 V1 29.301
RP 108.13 LAP 2.21 LOP 215.90 VP 36.904 GAP 19.65 AZP 91.49 TAL 148.54 TAP 92.58 RCA 78.72 APO 164.18 V2 35.045
RC 183.942 GL -8.28 GP 3.10 ZAL 36.62 ZAP 176.60 ETS 111.67 ZAE 125.49 ETE 177.76 ZAC 51.45 ETC 13.21 CLP 178.61

PLANETOCENTRIC CONIC

C3 63.457 VHL 7.966 DLA -27.30 RAL 231.51 RAD 6569.2 VEL 13.595 PTH 2.48 VHP 12.197 DPA -8.01 RAP 214.19 ECC 2.0443

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 33 26	1395.96	5.11	354.08	115.29	117.89	13 56 42	796.0	8.80	347.35
90.00	15 46 28	961.97	17.89	328.64	121.39	112.32	16 2 30	362.0	20.76	321.14
100.00	14 17 7	1254.80	1.28	341.60	113.18	119.87	14 38 2	654.8	5.24	335.06
100.00	17 45 28	5866.41	21.96	280.03	123.10	110.81	19 23 14	5266.4	24.59	272.22
110.00	14 27 50	1221.15	-5.43	334.90	109.02	123.80	14 48 11	621.1	-.95	328.67
110.00	19 51 14	5472.82	29.39	253.07	126.02	108.30	21 22 27	4872.8	31.60	244.56

DIFFERENTIAL CORRECTIONS
TOE-2.6373 TRA 6.6215 TC3-1.0810 BAU .9171
RDE .5788 RRA -.1467 RC3 -.0079 FAU .00475
FDE -.6223 FRA 1.8435 FC3 -.0648 BSP 19445
BDE 2.7000 BRA 6.6231 BC3 1.0810 FSP -457

MID-COURSE EXECUTION ACCURACY
SGT 5940.5 SGR 433.1 SG3 134.9
RRT -.5459 RRF -.5357 RTF .9730
SGB 5956.2 R23 .0030 R13 -.9730
SG1 5945.2 SG2 362.5 THA 177.71

ORBIT DETERMINATION ACCURACY
ST 2487.2 SR 417.8 SS 667.1
CRT -.8150 CRS .7648 CST -.9965
LSA 2597.0 MSA 247.5 SSA 11.5
EL1 2510.6 EL2 239.8 ALF 172.13

LAUNCH DATE JUN 24 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 28 1968

HELIOCENTRIC CONIC DISTANCE 614.783

RL 152.05 LAL .00 LOL 271.82 VL 25.520 GAL 15.98 AZL 92.59 HCA 307.25 SMA 121.26 ECC .36790 INC 2.5852 V1 29.301
RP 108.18 LAP 2.06 LOP 219.10 VP 36.868 GAP 20.72 AZP 91.57 TAL 147.54 TAP 94.79 RCA 76.65 APO 165.88 V2 35.032
RC 185.758 GL -7.48 GP 3.05 ZAL 35.35 ZAP 176.07 ETS 126.50 ZAE 125.17 ETE 177.78 ZAC 49.43 ETC 13.55 CLP 177.52

PLANETOCENTRIC CONIC

C3 72.270 VHL 8.501 DLA -26.80 RAL 232.97 RAD 6569.4 VEL 13.915 PTH 2.54 VHP 12.836 DPA -8.84 RAP 216.16 ECC 2.1894

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 24 33	1475.71	2.55	358.55	117.87	118.21	13 49 9	875.7	6.30	351.88
90.00	16 7 1	944.14	18.35	327.53	125.35	111.95	16 22 45	344.1	21.17	319.99
100.00	14 13 25	1317.90	-.87	345.06	115.97	119.88	14 35 22	717.9	3.12	338.54
100.00	18 0 50	5865.22	21.98	279.95	126.87	110.78	19 38 36	5265.2	24.61	272.14
110.00	14 28 3	1271.95	-7.34	337.58	111.97	123.48	14 49 15	671.9	-2.89	331.33
110.00	20 2 42	5483.93	29.15	253.84	129.72	108.70	21 34 5	4883.9	31.42	245.37

DIFFERENTIAL CORRECTIONS
TOE-2.6694 TRA 7.1856 TC3 -.8966 BAU .8663
RDE .6004 RRA -.1735 RC3 -.0066 FAU .00312
FDE -.6088 FRA 1.9140 FC3 -.0374 BSP 19439
BDE 2.7361 BRA 7.1877 BC3 .8966 FSP -440

MID-COURSE EXECUTION ACCURACY
SGT 5916.1 SGR 425.5 SG3 129.9
RRT -.5648 RRF -.5543 RTF .9753
SGB 5931.4 R23 .0018 R13 -.9754
SG1 5921.0 SG2 350.8 THA 177.67

ORBIT DETERMINATION ACCURACY
ST 2426.6 SR 406.5 SS 662.0
CRT -.8028 CRS .7543 CST -.9969
LSA 2535.9 MSA 247.1 SSA 11.0
EL1 2448.7 EL2 240.2 ALF 172.27

LAUNCH DATE JUN 24 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 30 1968

HELIOCENTRIC CONIC DISTANCE 618.323

RL 152.05 LAL .00 LOL 271.82 VL 25.487 GAL 17.38 AZL 92.50 HCA 310.46 SMA 121.08 ECC .38576 INC 2.5018 V1 29.301
RP 108.22 LAP 1.90 LOP 222.31 VP 36.833 GAP 21.90 AZP 91.62 TAL 146.63 TAP 97.09 RCA 74.37 APO 167.79 V2 35.019
RC 187.557 GL -6.70 GP 2.99 ZAL 34.20 ZAP 175.32 ETS 137.59 ZAE 124.81 ETE 177.81 ZAC 47.45 ETC 13.92 CLP 176.40

PLANETOCENTRIC CONIC

C3 82.717 VHL 9.095 DLA -26.29 RAL 234.30 RAD 6569.6 VEL 14.285 PTH 2.60 VHP 13.545 DPA -9.64 RAP 218.10 ECC 2.3613

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 17 14	1549.04	.19	2.64	120.43	118.32	13 43 3	949.0	3.97	356.00
90.00	16 24 53	933.15	18.62	326.84	129.10	111.72	16 40 26	333.2	21.41	319.28
100.00	14 9 45	1379.41	-2.95	348.44	118.69	119.76	14 32 45	779.4	1.03	341.92
100.00	18 15 2	5866.06	21.96	280.00	130.49	110.80	19 52 48	5266.1	24.60	272.19
110.00	14 27 48	1322.76	-9.24	340.29	114.83	123.06	14 49 51	722.8	-4.82	333.99
110.00	20 13 29	5495.47	28.89	254.64	133.27	109.11	21 45 4	4895.5	31.22	246.22

DIFFERENTIAL CORRECTIONS
TOE-2.7059 TRA 7.7985 TC3 -.7250 BAU .8018
RDE .6217 RRA -.2023 RC3 -.0062 FAU .00139
FDE -.5977 FRA 1.9924 FC3 -.0145 BSP 19331
BDE 2.7764 BRA 7.8011 BC3 .7251 FSP -421

MID-COURSE EXECUTION ACCURACY
SGT 5888.4 SGR 416.8 SG3 125.3
RRT -.5835 RRF -.5729 RTF .9778
SGB 5903.1 R23 .0006 R13 -.9778
SG1 5893.4 SG2 338.2 THA 177.63

ORBIT DETERMINATION ACCURACY
ST 2368.5 SR 393.9 SS 660.1
CRT -.7906 CRS .7442 CST -.9972
LSA 2478.0 MSA 245.3 SSA 10.5
EL1 2389.1 EL2 239.1 ALF 172.43

LAUNCH DATE JUN 25 1967 FLIGHT TIME 70.00 ARRIVAL DATE SEP 3 1967

DISTANCE 167.089

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 23.864 GAL -2.90 AZL 93.61 HCA 69.62 SMA 112.85 ECC .35072 INC 3.6122 V1 29.299
RP 108.84 LAP -3.39 LOP 342.35 VP 35.535 GAP -20.43 AZP 91.26 TAL 185.40 TAP 255.01 RCA 73.27 APO 152.42 V2 34.819
RC 43.133 GL -14.85 GP -2.74 ZAL 102.73 ZAP 7.59 ETS 158.74 ZAE 161.51 ETE 30.24 ZAC 96.45 ETC 13.83 CLP 7.08

PLANETOCENTRIC CONIC
C3 34.312 VHL 5.858 DLA -9.54 RAL 164.58 RAD 6568.4 VEL 12.477 PTH 2.26 VHP 12.392 DPA 4.78 RAP 170.54 ECC 1.5647

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 22 31	2047.23	-15.19	31.16	33.01	114.19	5 56 38	1447.2	-11.79	24.12
90.00	14 55 34	5292.04	27.19	239.78	38.84	81.77	16 23 46	4692.0	25.77	231.40
100.00	6 39 10	1799.92	-16.42	12.38	32.42	115.34	7 9 10	1199.9	-12.87	5.39
100.00	16 21 35	5014.57	28.53	219.14	38.61	80.67	17 45 10	4414.6	26.94	210.69
110.00	7 36 46	1619.61	-19.68	356.96	30.68	118.53	8 3 45	1019.6	-15.71	350.08
110.00	17 40 30	4767.66	32.12	199.59	37.81	77.61	18 59 57	4167.7	30.08	190.97

DIFFERENTIAL CORRECTIONS
TDE .3641 TRA -.6324 TC3 .2045 BAU .1020
ROE -.3951 RRA -.1562 RC3 .0873 FAU .02284
FOE -.3050 FRA .1879 FC3 -.5763 BSP 2060
BOE .5373 BRA .6514 BC3 .2223 FSP -149

MID-COURSE EXECUTION ACCURACY
SGT 780.0 SGR 428.7 SG3 65.8
RRT -.0491 RRF .0532 RTF -.6652
SGB 872.6 R23 -.0055 R13 .6655
SG1 760.5 SG2 428.0 THA 177.68

ORBIT DETERMINATION ACCURACY
ST 402.9 SR 389.3 SS 325.7
CRT -.8218 CRS -.9512 CST .9540
LSA 625.9 MSA 167.1 SSA 17.0
EL1 534.7 EL2 167.1 ALF 136.20

LAUNCH DATE JUN 25 1967 FLIGHT TIME 72.00 ARRIVAL DATE SEP 5 1967

DISTANCE 173.766

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 24.198 GAL -2.95 AZL 93.55 HCA 72.78 SMA 114.41 ECC .33267 INC 3.5531 V1 29.299
RP 108.81 LAP -3.39 LOP 345.53 VP 35.767 GAP -19.24 AZP 91.05 TAL 185.96 TAP 258.74 RCA 76.35 APO 152.47 V2 34.826
RC 43.534 GL -15.65 GP -2.89 ZAL 103.86 ZAP 5.95 ETS 150.78 ZAE 159.47 ETE 26.42 ZAC 95.23 ETC 13.77 CLP 5.20

PLANETOCENTRIC CONIC
C3 30.837 VHL 5.553 DLA -9.80 RAL 163.17 RAD 6568.2 VEL 12.337 PTH 2.22 VHP 11.712 DPA 4.13 RAP 171.67 ECC 1.5075

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 18 58	2011.80	-14.19	29.03	29.85	114.76	5 52 30	1411.8	-10.73	22.06
90.00	14 47 49	5273.68	27.00	238.47	35.51	81.14	16 15 42	4673.7	25.50	230.12
100.00	6 35 29	1764.96	-15.39	10.30	29.26	115.95	7 4 54	1165.0	-11.77	3.37
100.00	16 13 59	4995.75	28.31	217.78	35.27	79.99	17 37 15	4395.8	26.64	209.38
110.00	7 32 45	1585.65	-18.56	354.96	27.53	119.23	7 59 10	985.7	-14.52	348.17
110.00	17 33 13	4747.83	31.82	198.12	34.43	76.79	18 52 21	4147.8	29.67	189.57

DIFFERENTIAL CORRECTIONS
TDE .3656 TRA -.6051 TC3 .2579 BAU .1132
ROE -.3771 RRA -.1465 RC3 .0942 FAU .02428
FDE -.3245 FRA .1751 FC3 -.6817 BSP 2180
BOE .5252 BRA .6226 BC3 .2746 FSP -170

MID-COURSE EXECUTION ACCURACY
SGT 791.1 SGR 431.1 SG3 73.3
RRT -.0574 RRF .0626 RTF -.6848
SGB 900.9 R23 -.0068 R13 .6852
SG1 791.6 SG2 430.1 THA 177.46

ORBIT DETERMINATION ACCURACY
ST 422.5 SR 391.8 SS 344.1
CRT -.8336 CRS -.9582 CST .9532
LSA 650.0 MSA 165.9 SSA 17.8
EL1 551.9 EL2 165.7 ALF 137.59

LAUNCH DATE JUN 25 1967 FLIGHT TIME 74.00 ARRIVAL DATE SEP 7 1967

DISTANCE 180.464

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 24.505 GAL -3.02 AZL 93.50 HCA 75.95 SMA 115.90 ECC .31600 INC 3.4960 V1 29.299
RP 108.79 LAP -3.39 LOP 348.70 VP 35.983 GAP -18.09 AZP 90.85 TAL 186.58 TAP 262.54 RCA 79.27 APO 152.52 V2 34.834
RC 44.099 GL -16.42 GP -3.05 ZAL 105.10 ZAP 4.49 ETS 136.94 ZAE 157.49 ETE 23.26 ZAC 94.04 ETC 13.73 CLP 3.30

PLANETOCENTRIC CONIC
C3 27.875 VHL 5.280 DLA -9.99 RAL 161.64 RAD 6568.1 VEL 12.217 PTH 2.20 VHP 11.064 DPA 3.48 RAP 172.77 ECC 1.4588

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 14 26	1980.21	-13.28	27.16	26.74	115.24	5 47 26	1380.2	-9.77	20.24
90.00	14 40 10	5254.73	26.80	237.12	32.17	80.49	16 7 45	4654.7	25.21	228.81
100.00	6 30 50	1733.72	-14.45	8.45	26.12	116.46	6 59 44	1133.7	-10.78	1.58
100.00	16 6 27	4976.45	28.08	216.39	31.91	79.30	17 29 23	4376.5	26.31	208.04
110.00	7 27 52	1555.16	-17.54	353.19	24.41	119.82	7 53 47	955.2	-13.44	346.47
110.00	17 25 55	4727.78	31.50	196.65	31.04	75.97	18 44 43	4127.8	29.25	188.16

DIFFERENTIAL CORRECTIONS
TDE .3673 TRA -.5771 TC3 .3182 BAU .1244
ROE -.3605 RRA -.1375 RC3 .1003 FAU .02590
FOE -.3457 FRA .1595 FC3 -.8044 BSP 2305
BOE .5147 BRA .5933 BC3 .3337 FSP -193

MID-COURSE EXECUTION ACCURACY
SGT 822.3 SGR 432.7 SG3 81.7
RRT -.0673 RRF .0736 RTF -.7035
SGB 929.2 R23 -.0083 R13 .7040
SG1 823.0 SG2 431.3 THA 177.20

ORBIT DETERMINATION ACCURACY
ST 442.0 SR 393.8 SS 362.9
CRT -.8457 CRS -.9648 CST .9525
LSA 674.5 MSA 164.2 SSA 18.5
EL1 569.1 EL2 163.2 ALF 138.90

LAUNCH DATE JUN 25 1967 FLIGHT TIME 76.00 ARRIVAL DATE SEP 9 1967

DISTANCE 187.180

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 24.785 GAL -3.11 AZL 93.44 HCA 79.12 SMA 117.31 ECC .30065 INC 3.4404 V1 29.299
RP 108.76 LAP -3.38 LOP 351.88 VP 36.182 GAP -17.00 AZP 90.65 TAL 187.28 TAP 266.40 RCA 82.04 APO 152.58 V2 34.842
RC 44.820 GL -17.16 GP -3.23 ZAL 106.45 ZAP 3.50 ETS 112.36 ZAE 155.60 ETE 20.59 ZAC 92.90 ETC 13.69 CLP 1.35

PLANETOCENTRIC CONIC
C3 25.352 VHL 5.035 DLA -10.12 RAL 160.02 RAD 6568.0 VEL 12.113 PTH 2.17 VHP 10.446 DPA 2.83 RAP 173.82 ECC 1.4172

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 8 58	1952.68	-12.47	25.54	23.60	115.63	5 41 30	1352.7	-8.92	18.66
90.00	14 32 43	5235.21	26.57	235.73	28.83	79.83	15 59 58	4635.2	24.90	227.47
100.00	6 25 18	1706.41	-13.61	6.85	23.02	116.87	6 53 44	1106.4	-9.90	.03
100.00	15 59 4	4956.71	27.82	214.98	28.57	78.60	17 21 41	4356.7	25.96	206.67
110.00	7 22 10	1528.32	-16.62	351.65	21.33	120.31	7 47 38	928.3	-12.47	344.99
110.00	17 18 41	4707.56	31.15	195.17	27.67	75.16	18 37 9	4107.6	28.80	186.76

DIFFERENTIAL CORRECTIONS
TDE .3668 TRA -.5503 TC3 .3818 BAU .1342
ROE -.3453 RRA -.1293 RC3 .1052 FAU .02771
FDE -.3680 FRA .1412 FC3 -.9463 BSP 2374
BOE .5038 BRA .5652 BC3 .3960 FSP -218

MID-COURSE EXECUTION ACCURACY
SGT 852.4 SGR 433.5 SG3 91.0
RRT -.0764 RRF .0858 RTF -.7182
SGB 956.3 R23 -.0120 R13 .7187
SG1 853.3 SG2 431.8 THA 177.01

ORBIT DETERMINATION ACCURACY
ST 459.1 SR 395.5 SS 381.4
CRT -.8560 CRS -.9709 CST .9508
LSA 697.0 MSA 162.8 SSA 19.3
EL1 584.3 EL2 160.7 ALF 139.96

LAUNCH DATE JUN 25 1967 FLIGHT TIME 78.00 ARRIVAL DATE SEP 11 1967

HELIOCENTRIC CONIC DISTANCE 193.908

```
RL  152.06 LAL    .00 LOL 272.77 VL  25.042 GAL  -3.20 AZL  93.39 HCA  82.30 SMA 118.66 ECC .28656 INC 3.3860 VI  29.299
RP  108.74 LAP  -3.36 LOP 355.06 VP  36.367 GAP -15.97 AZP  90.45 TAL 188.03 TAP 270.32 RCA  84.65 APO 152.66 V2  34.851
RC  45.690 GL  -17.85 GP  -3.43 ZAL 107.89 ZAP   3.48 ETS  79.05 ZAE 153.86 ETE  18.29 ZAC  91.80 ETC  13.67 CLP   -.63
```

PLANETOCENTRIC CONIC

```
C3  23.207 VHL  4.817 DLA -10.17 RAL 158.33 RAD 6567.9 VEL 12.024 PTH   2.15 VHP  9.856 DPA   2.17 RAP 174.83 ECC 1.3819
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 2 37	1929.35	-11.78	24.17	20.54	115.94	5 34 46	1329.4	-8.20	17.33
90.00	14 25 33	5215.14	26.32	234.32	25.54	79.16	15 52 29	4615.1	24.56	226.09
100.00	6 18 55	1683.17	-12.90	5.50	19.97	117.20	6 46 58	1083.2	-9.15	358.72
100.00	15 51 56	4936.55	27.54	213.55	25.26	77.89	17 14 13	4336.6	25.59	205.29
110.00	7 15 43	1505.28	-15.82	350.33	18.30	120.70	7 40 49	905.3	-11.63	343.73
110.00	17 11 37	4687.21	30.79	193.70	24.34	74.36	18 29 44	4087.2	28.34	185.36

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .3698 TRA -.5216 TC3  .4610 BAU  .1469   SGT  887.7 SGR  433.6 SG3  101.7     ST   479.0 SR   396.8 SS   400.4
RDE -.3315 RRA -.1217 RC3  .1085 FAU .02978   RRT -.0891 RRF  .1003 RTF -.7384     CRT -.8685 CRS -.9766 CST  .9504
FDE -.3927 FRA  .1187 FC3-1.1111 BSP  2595    SGB  988.0 R23 -.0142 R13  .7391     LSA  721.9 MSA  160.2 SSA   20.1
BDE  .4967 BRA  .5356 BC3  .4736 FSP  -249    SG1  888.8 SG2  431.4 THA 176.74     EL1  602.0 EL2  156.5 ALF 141.15
```

LAUNCH DATE JUN 25 1967 FLIGHT TIME 80.00 ARRIVAL DATE SEP 13 1967

HELIOCENTRIC CONIC DISTANCE 200.644

```
RL  152.06 LAL    .00 LOL 272.77 VL  25.276 GAL  -3.30 AZL  93.33 HCA  85.47 SMA 119.92 ECC .27367 INC 3.3324 VI  29.299
RP  108.71 LAP  -3.32 LOP 358.24 VP  36.538 GAP -14.97 AZP  90.26 TAL 188.83 TAP 274.30 RCA  87.10 APO 152.74 V2  34.860
RC  46.700 GL  -18.49 GP  -3.65 ZAL 109.40 ZAP   4.52 ETS  53.18 ZAE 152.28 ETE  16.27 ZAC  90.75 ETC  13.67 CLP  -2.67
```

PLANETOCENTRIC CONIC

```
C3  21.384 VHL  4.624 DLA -10.14 RAL 156.58 RAD 6567.9 VEL 11.948 PTH   2.13 VHP  9.294 DPA   1.51 RAP 175.77 ECC 1.3519
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 55 28	1910.29	-11.21	23.06	17.56	116.17	5 27 18	1310.3	-7.61	16.24
90.00	14 18 47	5194.55	26.05	232.87	22.31	78.49	15 45 22	4594.5	24.20	224.69
100.00	6 11 47	1664.06	-12.30	4.40	17.00	117.46	6 39 31	1064.1	-8.52	357.64
100.00	15 45 9	4916.00	27.24	212.10	22.02	77.18	17 7 5	4316.0	25.20	203.89
110.00	7 8 37	1486.08	-15.15	349.25	15.36	121.01	7 33 23	886.1	-10.93	342.69
110.00	17 4 48	4666.75	30.40	192.23	21.08	73.57	18 22 35	4066.8	27.85	183.96

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .3710 TRA -.4898 TC3  .5361 BAU  .1564   SGT  915.1 SGR  433.1 SG3  113.8     ST   495.8 SR   397.8 SS   420.1
RDE -.3191 RRA -.1149 RC3  .1096 FAU .03217   RRT -.1070 RRF  .1180 RTF -.7528     CRT -.8808 CRS -.9818 CST  .9497
FDE -.4203 FRA  .0912 FC3-1.3023 BSP  2672    SGB 1012.4 R23 -.0147 R13  .7536     LSA  745.2 MSA  157.2 SSA   21.0
BDE  .4894 BRA  .5031 BC3  .5472 FSP  -285    SG1  916.6 SG2  429.9 THA 176.28     EL1  617.4 EL2  151.2 ALF 142.07
```

LAUNCH DATE JUN 25 1967 FLIGHT TIME 82.00 ARRIVAL DATE SEP 15 1967

HELIOCENTRIC CONIC DISTANCE 207.384

```
RL  152.06 LAL    .00 LOL 272.77 VL  25.490 GAL  -3.40 AZL  93.28 HCA  88.64 SMA 121.11 ECC .26193 INC 3.2792 VI  29.299
RP  108.68 LAP  -3.28 LOP   1.42 VP  36.695 GAP -14.02 AZP  90.08 TAL 189.68 TAP 278.32 RCA  89.38 APO 152.83 V2  34.870
RC  47.841 GL  -19.07 GP  -3.89 ZAL 110.96 ZAP   6.16 ETS  38.50 ZAE 150.88 ETE  14.46 ZAC  89.78 ETC  13.67 CLP  -4.77
```

PLANETOCENTRIC CONIC

```
C3  19.837 VHL  4.454 DLA -10.05 RAL 154.81 RAD 6567.8 VEL 11.883 PTH   2.11 VHP  8.758 DPA    .85 RAP 176.65 ECC 1.3265
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 47 38	1895.41	-10.77	22.20	14.68	116.35	5 19 14	1295.4	-7.14	15.40
90.00	14 12 29	5173.49	25.76	231.40	19.17	77.81	15 38 43	4573.5	23.82	223.26
100.00	6 4 1	1649.01	-11.82	3.53	14.13	117.66	6 31 30	1049.0	-8.03	356.80
100.00	15 38 48	4895.12	26.91	210.63	18.87	76.48	17 0 23	4295.1	24.79	202.48
110.00	7 0 58	1470.66	-14.61	348.38	12.51	121.25	7 25 29	870.7	-10.37	341.86
110.00	16 58 20	4646.23	30.00	190.77	17.91	72.79	18 15 46	4046.2	27.35	182.58

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .3709 TRA -.4607 TC3  .6166 BAU  .1660   SGT  944.2 SGR  431.9 SG3  127.4     ST   510.4 SR   398.6 SS   439.1
RDE -.3080 RRA -.1088 RC3  .1081 FAU .03482   RRT -.1241 RRF  .1378 RTF -.7663     CRT -.8913 CRS -.9861 CST  .9483
FDE -.4496 FRA  .0601 FC3-1.5199 BSP  2781    SGB 1038.3 R23 -.0182 R13  .7673     LSA  766.6 MSA  155.0 SSA   21.9
BDE  .4821 BRA  .4734 BC3  .6260 FSP  -324    SG1  946.2 SG2  427.7 THA 175.91     EL1  630.9 EL2  146.2 ALF 142.83
```

LAUNCH DATE JUN 25 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 17 1967

HELIOCENTRIC CONIC DISTANCE 214.125

```
RL  152.06 LAL    .00 LOL 272.77 VL  25.684 GAL  -3.50 AZL  93.23 HCA  91.82 SMA 122.21 ECC .25127 INC 3.2261 VI  29.299
RP  108.64 LAP  -3.22 LOP   4.60 VP  36.840 GAP -13.11 AZP  89.90 TAL 190.56 TAP 282.38 RCA  91.50 APO 152.92 V2  34.881
RC  49.103 GL  -19.58 GP  -4.17 ZAL 112.55 ZAP   8.10 ETS  30.15 ZAE 149.70 ETE  12.81 ZAC  88.87 ETC  13.69 CLP  -6.95
```

PLANETOCENTRIC CONIC

```
C3  18.525 VHL  4.304 DLA  -9.89 RAL 153.04 RAD 6567.7 VEL 11.828 PTH   2.09 VHP  8.247 DPA    .19 RAP 177.46 ECC 1.3049
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 39 16	1884.58	-10.44	21.57	11.90	116.47	5 10 40	1284.6	-6.80	14.78
90.00	14 6 44	5152.01	25.44	229.91	16.15	77.12	15 32 36	4552.0	23.41	221.82
100.00	5 55 44	1637.90	-11.47	2.90	11.36	117.79	6 23 1	1037.9	-7.66	356.18
100.00	15 32 58	4873.93	26.57	209.15	15.84	75.77	16 54 11	4273.9	24.35	201.05
110.00	6 52 53	1458.91	-14.20	347.73	9.78	121.43	7 17 12	858.9	-9.93	341.22
110.00	16 52 17	4625.67	29.58	189.32	14.86	72.03	18 9 23	4025.7	26.84	181.20

```
DIFFERENTIAL CORRECTIONS                MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .3702 TRA -.4313 TC3  .6998 BAU  .1752   SGT  972.3 SGR  430.2 SG3  142.8     ST   523.2 SR   399.1 SS   458.3
RDE -.2981 RRA -.1036 RC3  .1034 FAU .03786   RRT -.1444 RRF  .1611 RTF -.7792     CRT -.9012 CRS -.9898 CST  .9468
FDE -.4819 FRA  .0237 FC3-1.7694 BSP  2888    SGB 1063.2 R23 -.0222 R13  .7804     LSA  786.8 MSA  153.0 SSA   22.8
BDE  .4753 BRA  .4435 BC3  .7074 FSP  -369    SG1  974.7 SG2  424.6 THA 175.49     EL1  642.8 EL2  140.8 ALF 143.46
```

LAUNCH DATE JUN 25 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 19 1967

HELIOCENTRIC CONIC DISTANCE 220.864

```
RL  152.06 LAL    .00 LOL 272.77 VL  25.860 GAL  -3.60 AZL  93.17 HCA  95.00 SMA 123.24 ECC .24164 INC 3.1728 V1  29.299
RP  108.61 LAP  -3.16 LOP   7.78 VP  36.973 GAP -12.24 AZP  89.72 TAL 191.46 TAP 286.46 RCA  93.46 APO 153.02 V2  34.891
RC   50.476 GL  -20.02 GP   -4.48 ZAL 114.15 ZAP  10.22 ETS  25.00 ZAE 148.74 ETE  11.27 ZAC  88.06 ETC  13.72 CLP  -9.20
```

PLANETOCENTRIC CONIC

```
C3  17.413 VHL  4.173 DLA  -9.66 RAL 151.30 RAD 6567.7 VEL 11.781 PTH   2.08 VHP  7.761 DPA   -.47 RAP 178.17 ECC 1.2866
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 30 28	1877.57	-10.22	21.17	9.27	116.55	5 1 45	1277.6	-6.58	14.39
90.00	14 1 36	5130.17	25.10	228.40	13.25	76.44	15 27 6	4530.2	22.98	220.36
100.00	5 47 3	1630.48	-11.24	2.47	8.74	117.88	6 14 14	1030.5	-7.42	355.76
100.00	15 27 41	4852.49	26.20	207.66	12.94	75.07	16 48 34	4252.5	23.89	199.62
110.00	6 44 30	1450.62	-13.90	347.27	7.18	121.55	7 8 40	850.6	-9.63	340.78
110.00	16 46 44	4605.12	29.14	187.88	11.94	71.28	18 3 29	4005.1	26.30	179.84

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE  .3681 TRA -.4028 TC3  .7812 BAU  .1832   SGT  997.6 SGR  428.0 SG3  160.2          ST   533.1 SR   399.5 SS   477.0
 RDE -.2894 RRA -.0991 RC3  .0952 FAU .04128   RRT -.1676 RRF  .1880 RTF -.7900          CRT -.9101 CRS -.9926 CST  .9450
 FDE -.5167 FRA -.0180 FC3-2.0521 BSP  2986    SGB 1085.6 R23 -.0273 R13  .7916          LSA  804.8 MSA  151.5 SSA   23.6
 BDE  .4682 BRA  .4148 BC3  .7870 FSP  -420    SG1 1000.8 SG2  420.7 THA 175.00          EL1  652.3 EL2  135.3 ALF 143.91
```

LAUNCH DATE JUN 25 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 21 1967

HELIOCENTRIC CONIC DISTANCE 227.596

```
RL  152.06 LAL    .00 LOL 272.77 VL  26.020 GAL  -3.70 AZL  93.12 HCA  98.18 SMA 124.20 ECC .23296 INC 3.1189 V1  29.299
RP  108.58 LAP  -3.09 LOP  10.97 VP  37.096 GAP -11.40 AZP  89.56 TAL 192.38 TAP 290.56 RCA  95.27 APO 153.13 V2  34.903
RC   51.950 GL  -20.37 GP   -4.82 ZAL 115.73 ZAP  12.51 ETS  21.59 ZAE 148.01 ETE   9.80 ZAC  87.34 ETC  13.76 CLP -11.55
```

PLANETOCENTRIC CONIC

```
C3  16.472 VHL  4.059 DLA  -9.37 RAL 149.59 RAD 6567.7 VEL 11.741 PTH   2.07 VHP  7.300 DPA  -1.12 RAP 178.79 ECC 1.2711
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 21 23	1874.10	-10.12	20.97	6.78	116.59	4 52 37	1274.1	-6.47	14.19
90.00	13 57 6	5108.05	24.74	226.88	10.52	75.76	15 22 14	4508.0	22.54	218.90
100.00	5 38 8	1626.50	-11.11	2.24	6.26	117.93	6 5 15	1026.5	-7.29	355.54
100.00	15 23 2	4830.88	25.81	206.17	10.20	74.38	16 43 33	4230.9	23.42	198.19
110.00	6 35 56	1445.54	-13.72	346.98	4.73	121.62	7 0 1	845.5	-9.44	340.50
110.00	16 41 44	4584.60	28.68	186.46	9.18	70.55	17 58 9	3984.6	25.76	178.49

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE  .3653 TRA -.3742 TC3  .8617 BAU  .1906   SGT 1020.7 SGR  425.7 SG3  180.0          ST   540.5 SR   399.7 SS   495.8
 RDE -.2816 RRA -.0955 RC3  .0828 FAU .04519   RRT -.1952 RRF  .2198 RTF -.8002          CRT -.9183 CRS -.9947 CST  .9429
 FDE -.5550 FRA -.0666 FC3-2.3752 BSP  3083    SGB 1105.9 R23 -.0331 R13  .8021          LSA  821.3 MSA  150.5 SSA   24.3
 BDE  .4612 BRA  .3862 BC3  .8656 FSP  -479    SG1 1024.7 SG2  415.9 THA 174.42          EL1  659.6 EL2  129.6 ALF 144.23
```

LAUNCH DATE JUN 25 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 23 1967

HELIOCENTRIC CONIC DISTANCE 234.320

```
RL  152.06 LAL    .00 LOL 272.77 VL  26.163 GAL  -3.79 AZL  93.06 HCA 101.37 SMA 125.08 ECC .22517 INC 3.0641 V1  29.299
RP  108.54 LAP  -3.00 LOP  14.16 VP  37.208 GAP -10.60 AZP  89.40 TAL 193.29 TAP 294.66 RCA  96.91 APO 153.24 V2  34.914
RC   53.515 GL  -20.64 GP   -5.21 ZAL 117.27 ZAP  14.93 ETS  19.19 ZAE 147.53 ETE   8.37 ZAC  86.74 ETC  13.81 CLP -14.01
```

PLANETOCENTRIC CONIC

```
C3  15.673 VHL  3.959 DLA  -9.03 RAL 147.96 RAD 6567.6 VEL 11.707 PTH   2.06 VHP  6.861 DPA  -1.77 RAP 179.29 ECC 1.2579
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 12 10	1873.81	-10.11	20.95	4.45	116.59	4 43 24	1273.8	-6.46	14.17
90.00	13 53 17	5085.72	24.35	225.35	7.94	75.09	15 18 3	4485.7	22.07	217.43
100.00	5 29 6	1625.62	-11.08	2.19	3.94	117.94	5 56 12	1025.6	-7.26	355.49
100.00	15 19 3	4809.15	25.41	204.69	7.62	73.70	16 39 12	4209.2	22.93	196.77
110.00	6 27 19	1443.37	-13.64	346.86	2.44	121.65	6 51 22	843.4	-9.36	340.39
110.00	16 37 20	4564.16	28.21	185.05	6.59	69.84	17 53 24	3964.2	25.20	177.17

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE  .3608 TRA -.3469 TC3  .9368 BAU  .1968   SGT 1039.8 SGR  423.5 SG3  202.4          ST   544.5 SR   399.8 SS   514.4
 RDE -.2748 RRA -.0928 RC3  .0658 FAU .04963   RRT -.2269 RRF  .2567 RTF -.8087          CRT -.9254 CRS -.9961 CST  .9403
 FDE -.5967 FRA -.1220 FC3-2.7415 BSP  3165    SGB 1122.8 R23 -.0403 R13  .8111          LSA  835.3 MSA  150.4 SSA   24.9
 BDE  .4536 BRA  .3591 BC3  .9391 FSP  -547    SG1 1045.1 SG2  410.4 THA 173.75          EL1  664.0 EL2  124.3 ALF 144.36
```

LAUNCH DATE JUN 25 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 25 1967

HELIOCENTRIC CONIC DISTANCE 241.033

```
RL  152.06 LAL    .00 LOL 272.77 VL  26.293 GAL  -3.88 AZL  93.01 HCA 104.55 SMA 125.88 ECC .21822 INC 3.0080 V1  29.299
RP  108.50 LAP  -2.91 LOP  17.34 VP  37.310 GAP  -9.82 AZP  89.24 TAL 194.19 TAP 298.75 RCA  98.41 APO 153.35 V2  34.926
RC   55.163 GL  -20.82 GP   -5.65 ZAL 118.77 ZAP  17.50 ETS  17.43 ZAE 147.31 ETE   6.95 ZAC  86.27 ETC  13.87 CLP -16.59
```

PLANETOCENTRIC CONIC

```
C3  14.994 VHL  3.872 DLA  -8.65 RAL 146.42 RAD 6567.6 VEL 11.678 PTH   2.05 VHP  6.447 DPA  -2.42 RAP 179.66 ECC 1.2468
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 2 57	1876.35	-10.19	21.10	2.29	116.56	4 34 13	1276.3	-6.54	14.32
90.00	13 50 11	5063.27	23.95	223.83	5.55	74.43	15 14 35	4463.3	21.58	215.96
100.00	5 20 6	1627.49	-11.14	2.30	1.79	117.92	5 47 13	1027.5	-7.32	355.60
100.00	15 15 44	4787.36	24.98	203.21	5.22	73.03	16 35 31	4187.4	22.42	195.35
110.00	6 18 45	1443.79	-13.66	346.89	.32	121.65	6 42 49	843.8	-9.37	340.41
110.00	16 33 33	4543.82	27.72	183.67	4.17	69.15	17 49 17	3943.8	24.63	175.86

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
 TDE  .3549 TRA -.3210 TC3 1.0047 BAU  .2016   SGT 1054.5 SGR  421.8 SG3  227.9          ST   545.0 SR   [illegible] SS   533.[illegible]
 RDE -.2689 RRA -.0910 RC3  .0435 FAU .05468   RRT -.2636 RRF  .2997 RTF -.8155          CRT -.9313 CRS [illegible] CST  .9373
 FDE -.6425 FRA -.1851 FC3-3.1573 BSP  3228    SGB 1135.8 R23 -.0494 R13  .8187          LSA  847.2 MSA  151.1 SSA   25.4
 BDE  .4452 BRA  .3337 BC3 1.0057 FSP  -624    SG1 1061.4 SG2  404.3 THA 172.95          EL1  665.4 EL2  [illegible] ALF 144.33
```

LAUNCH DATE JUN 25 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 27 1967

HELIOCENTRIC CONIC DISTANCE 247.731

RL	152.06	LAL	.00	LOL	272.77	VL	26.409	GAL	-3.97	AZL	92.95	HCA	107.74	SMA	126.62	ECC	.21203	INC	2.9503	V1	29.299
RP	108.46	LAP	-2.81	LOP	20.53	VP	37.403	GAP	-9.08	AZP	89.10	TAL	195.07	TAP	302.81	RCA	99.77	APO	153.47	V2	34.938
RC	56.885	GL	-20.93	GP	-6.14	ZAL	120.20	ZAP	20.23	ETS	16.10	ZAE	147.35	ETE	5.48	ZAC	85.94	ETC	13.93	CLP	-19.31

PLANETOCENTRIC CONIC

C3	14.415	VHL	3.797	DLA	-8.22	RAL	144.97	RAD	6567.6	VEL	11.653	PTH	2.05	VHP	6.055	DPA	-3.06	RAP	179.88	ECC	1.2372

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 53 50	1881.36	-10.34	21.39	.32	116.51	4 25 11	1281.4	-6.70	14.60
90.00	13 47 48	5040.72	23.53	222.31	3.34	73.78	15 11 49	4440.7	21.08	214.50
100.00	5 11 12	1631.77	-11.28	2.55	359.83	117.87	5 38 23	1031.8	-7.46	355.84
100.00	15 13 7	4765.54	24.54	201.74	3.00	72.37	16 32 33	4165.5	21.90	193.94
110.00	6 10 22	1446.48	-13.75	347.04	358.38	121.61	6 34 29	846.5	-9.47	340.55
110.00	16 30 26	4523.59	27.23	182.31	1.94	68.48	17 45 50	3923.6	24.06	174.57

DIFFERENTIAL CORRECTIONS

TDE	.3488	TRA	-.2951	TC3	1.0673	BAU	.2057
RDE	-.2638	RRA	-.0903	RC3	.0151	FAU	.06047
FDE	-.6938	FRA	-.2584	FC3	-3.6318	BSP	3319
BDE	.4373	BRA	.3086	BC3	1.0674	FSP	-716

MID-COURSE EXECUTION ACCURACY

SGT	1066.0	SGR	421.3	SG3	257.1		
RRT	-.3078	RRF	.3503	RTF	-.8223		
SGB	1146.3	R23	-.0591	R13	.8265		
SG1	1075.2	SG2	397.5	THA	171.96		

ORBIT DETERMINATION ACCURACY

ST	543.9	SR	400.2	SS	552.9
CRT	-.9369	CRS	-.9968	CST	.9344
LSA	859.0	MSA	152.2	SSA	25.6
EL1	665.5	EL2	114.4	ALF	144.20

LAUNCH DATE JUN 25 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 29 1967

HELIOCENTRIC CONIC DISTANCE 254.415

RL	152.06	LAL	.00	LOL	272.77	VL	26.513	GAL	-4.04	AZL	92.89	HCA	110.93	SMA	127.28	ECC	.20655	INC	2.8904	V1	29.299
RP	108.43	LAP	-2.70	LOP	23.73	VP	37.488	GAP	-8.37	AZP	88.97	TAL	195.91	TAP	306.84	RCA	100.99	APO	153.57	V2	34.951
RC	58.673	GL	-20.95	GP	-6.70	ZAL	121.55	ZAP	23.13	ETS	15.07	ZAE	147.67	ETE	3.93	ZAC	85.79	ETC	13.99	CLP	-22.19

PLANETOCENTRIC CONIC

C3	13.918	VHL	3.731	DLA	-7.76	RAL	143.65	RAD	6567.5	VEL	11.632	PTH	2.04	VHP	5.686	DPA	-3.70	RAP	179.93	ECC	1.2291

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 44 55	1888.48	-10.56	21.80	358.52	116.43	4 16 24	1288.5	-6.92	15.00
90.00	13 46 8	5018.12	23.09	220.80	1.32	73.14	15 9 46	4418.1	20.57	213.04
100.00	5 2 32	1638.11	-11.48	2.91	358.04	117.79	5 29 50	1038.1	-7.67	356.19
100.00	15 11 13	4743.72	24.08	200.28	.98	71.73	16 30 17	4143.7	21.36	192.54
110.00	6 2 15	1451.12	-13.92	347.29	356.62	121.54	6 26 26	851.1	-9.64	340.80
110.00	16 27 59	4503.47	26.72	180.96	359.90	67.84	17 43 3	3903.5	23.47	173.30

DIFFERENTIAL CORRECTIONS

TDE	.3389	TRA	-.2736	TC3	1.1128	BAU	.2071
RDE	-.2593	RRA	-.0905	RC3	-.0197	FAU	.06694
FDE	-.7474	FRA	-.3388	FC3	-4.1640	BSP	3341
BDE	.4267	BRA	.2882	BC3	1.1130	FSP	-816

MID-COURSE EXECUTION ACCURACY

SGT	1067.8	SGR	422.4	SG3	289.7		
RRT	-.3546	RRF	.4068	RTF	-.8251		
SGB	1148.3	R23	-.0738	R13	.8308		
SG1	1079.9	SG2	390.6	THA	170.80		

ORBIT DETERMINATION ACCURACY

ST	536.4	SR	400.4	SS	571.1
CRT	-.9401	CRS	-.9964	CST	.9298
LSA	865.8	MSA	154.7	SSA	25.8
EL1	660.1	EL2	110.9	ALF	143.75

LAUNCH DATE JUN 25 1967 FLIGHT TIME 98.00 ARRIVAL DATE OCT 1 1967

HELIOCENTRIC CONIC DISTANCE 261.082

RL	152.06	LAL	.00	LOL	272.77	VL	26.604	GAL	-4.11	AZL	92.83	HCA	114.12	SMA	127.88	ECC	.20172	INC	2.8279	V1	29.299
RP	108.39	LAP	-2.58	LOP	26.92	VP	37.565	GAP	-7.68	AZP	88.84	TAL	196.70	TAP	310.82	RCA	102.09	APO	153.68	V2	34.964
RC	60.521	GL	-20.88	GP	-7.33	ZAL	122.81	ZAP	26.22	ETS	14.24	ZAE	148.26	ETE	2.24	ZAC	85.82	ETC	14.05	CLP	-25.25

PLANETOCENTRIC CONIC

C3	13.488	VHL	3.673	DLA	-7.26	RAL	142.45	RAD	6567.5	VEL	11.614	PTH	2.03	VHP	5.340	DPA	-4.33	RAP	179.79	ECC	1.2220

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 36 18	1897.42	-10.83	22.32	356.92	116.33	4 7 56	1297.4	-7.20	15.51
90.00	13 45 12	4995.46	22.64	219.30	359.48	72.52	15 8 28	4395.5	20.03	211.59
100.00	4 54 10	1646.23	-11.74	3.37	356.44	117.69	5 21 36	1046.2	-7.94	356.64
100.00	15 10 2	4721.88	23.61	198.83	359.14	71.11	16 28 43	4121.9	20.81	191.15
110.00	5 54 28	1457.45	-14.14	347.65	355.04	121.45	6 18 45	857.4	-9.88	341.14
110.00	16 26 13	4483.43	26.19	179.64	358.05	67.21	17 40 57	3883.4	22.88	172.05

DIFFERENTIAL CORRECTIONS

TDE	.3270	TRA	-.2548	TC3	1.1436	BAU	.2065
RDE	-.2554	RRA	-.0919	RC3	-.0621	FAU	.07424
FDE	-.8051	FRA	-.4286	FC3	-4.7654	BSP	3341
BDE	.4149	BRA	.2708	BC3	1.1453	FSP	-931

MID-COURSE EXECUTION ACCURACY

SGT	1061.3	SGR	426.3	SG3	326.5		
RRT	-.4059	RRF	.4701	RTF	-.8254		
SGB	1143.7	R23	-.0924	R13	.8334		
SG1	1077.4	SG2	383.8	THA	169.37		

ORBIT DETERMINATION ACCURACY

ST	524.7	SR	400.9	SS	589.0
CRT	-.9419	CRS	-.9956	CST	.9243
LSA	870.2	MSA	157.9	SSA	25.7
EL1	651.3	EL2	108.5	ALF	143.07

LAUNCH DATE JUN 25 1967 FLIGHT TIME 100.00 ARRIVAL DATE OCT 3 1967

HELIOCENTRIC CONIC DISTANCE 267.730

RL	152.06	LAL	.00	LOL	272.77	VL	26.686	GAL	-4.17	AZL	92.76	HCA	117.31	SMA	128.42	ECC	.19748	INC	2.7621	V1	29.299
RP	108.35	LAP	-2.45	LOP	30.12	VP	37.635	GAP	-7.02	AZP	88.73	TAL	197.44	TAP	314.75	RCA	103.06	APO	153.78	V2	34.977
RC	62.420	GL	-20.74	GP	-8.05	ZAL	123.98	ZAP	29.52	ETS	13.56	ZAE	149.14	ETE	.33	ZAC	86.05	ETC	14.09	CLP	-28.50

PLANETOCENTRIC CONIC

C3	13.111	VHL	3.621	DLA	-6.74	RAL	141.39	RAD	6567.5	VEL	11.597	PTH	2.03	VHP	5.017	DPA	-4.96	RAP	179.45	ECC	1.2158

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 28 1	1907.91	-11.14	22.93	355.49	116.20	3 59 49	1307.9	-7.53	16.11
90.00	13 45 0	4972.68	22.16	217.79	357.83	71.91	15 7 53	4372.7	19.49	210.14
100.00	4 46 9	1655.87	-12.04	3.93	355.03	117.57	5 13 45	1055.9	-8.26	357.18
100.00	15 9 33	4699.96	23.12	197.38	357.48	70.50	16 27 53	4100.0	20.25	189.76
110.00	5 47 3	1465.21	-14.42	348.08	353.65	121.33	6 11 28	865.2	-10.16	341.56
110.00	16 25 9	4463.38	25.66	178.33	356.39	66.60	17 39 32	3863.4	22.27	170.81

DIFFERENTIAL CORRECTIONS

TDE	.3125	TRA	-.2395	TC3	1.1562	BAU	.2036
RDE	-.2522	RRA	-.0944	RC3	-.1130	FAU	.08240
FDE	-.8658	FRA	-.5272	FC3	-5.4410	BSP	3303
BDE	.4016	BRA	.2574	BC3	1.1617	FSP	-1059

MID-COURSE EXECUTION ACCURACY

SGT	1044.7	SGR	434.3	SG3	367.7		
RRT	-.4595	RRF	.5388	RTF	-.8225		
SGB	1131.3	R23	-.1167	R13	.8341		
SG1	1066.4	SG2	377.8	THA	167.61		

ORBIT DETERMINATION ACCURACY

ST	508.2	SR	401.6	SS	606.0
CRT	-.9418	CRS	-.9945	CST	.9171
LSA	871.8	MSA	161.8	SSA	25.6
EL1	638.8	EL2	107.4	ALF	142.08

LAUNCH DATE JUN 25 1967 FLIGHT TIME 102.00 ARRIVAL DATE OCT 5 1967

DISTANCE 274.358

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.757 GAL -4.22 AZL 92.69 HCA 120.51 SMA 128.89 ECC .19377 INC 2.6923 V1 29.299
RP 108.31 LAP -2.32 LOP 33.31 VP 37.697 GAP -6.38 AZP 88.63 TAL 198.10 TAP 318.61 RCA 103.92 APO 153.87 V2 34.990
RC 64.367 GL -20.53 GP -8.86 ZAL 125.04 ZAP 33.04 ETS 12.98 ZAE 150.30 ETE 358.11 ZAC 86.52 ETC 14.11 CLP -31.96

PLANETOCENTRIC CONIC
C3 12.777 VHL 3.574 DLA -6.19 RAL 140.46 RAD 6567.5 VEL 11.583 PTH 2.03 VHP 4.718 DPA -5.59 RAP 178.87 ECC 1.2103

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 20 7	1919.80	-11.50	23.62	354.25	116.06	3 52 7	1319.8	-7.90	16.78
90.00	13 45 32	4949.68	21.67	216.29	356.37	71.31	15 8 2	4349.7	18.92	208.69
100.00	4 38 31	1666.87	-12.39	4.56	353.80	117.42	5 6 18	1066.9	-8.62	357.80
100.00	15 9 49	4677.84	22.61	195.94	356.01	69.91	16 27 47	4077.8	19.67	188.38
110.00	5 40 2	1474.25	-14.74	348.59	352.44	121.20	6 4 37	874.3	-10.50	342.05
110.00	16 24 47	4443.22	25.11	177.02	354.90	66.00	17 38 50	3843.2	21.65	169.57

DIFFERENTIAL CORRECTIONS
TDE .2974 TRA -.2266 TC3 1.1534 BAU .1993
RDE -.2497 RRA -.0985 RC3 -.1746 FAU .09161
FDE -.9322 FRA -.6372 FC3-6.2070 BSP 3282
BDE .3883 BRA .2471 BC3 1.1666 FSP -1211

MID-COURSE EXECUTION ACCURACY
SGT 1020.1 SGR 448.3 SG3 414.2
RRT -.5154 RRF .6119 RTF -.8172
SGB 1114.2 R23 -.1460 R13 .8343
SG1 1049.9 SG2 373.3 THA 165.35

ORBIT DETERMINATION ACCURACY
ST 489.7 SR 403.1 SS 624.2
CRT -.9405 CRS -.9934 CST .9090
LSA 873.9 MSA 166.1 SSA 25.2
EL1 625.1 EL2 107.3 ALF 140.88

LAUNCH DATE JUN 25 1967 FLIGHT TIME 104.00 ARRIVAL DATE OCT 7 1967

DISTANCE 280.965

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.819 GAL -4.26 AZL 92.62 HCA 123.71 SMA 129.31 ECC .19055 INC 2.6178 V1 29.299
RP 108.27 LAP -2.18 LOP 36.51 VP 37.753 GAP -5.77 AZP 88.55 TAL 198.70 TAP 322.41 RCA 104.67 APO 153.95 V2 35.003
RC 66.356 GL -20.23 GP -9.78 ZAL 126.01 ZAP 36.81 ETS 12.46 ZAE 151.74 ETE 355.43 ZAC 87.24 ETC 14.10 CLP -35.67

PLANETOCENTRIC CONIC
C3 12.475 VHL 3.532 DLA -5.61 RAL 139.69 RAD 6567.5 VEL 11.570 PTH 2.02 VHP 4.442 DPA -6.22 RAP 178.03 ECC 1.2053

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 12 36	1932.92	-11.89	24.38	353.19	115.89	3 44 49	1332.9	-8.31	17.53
90.00	13 46 50	4926.32	21.15	214.77	355.08	70.72	15 8 56	4326.3	18.33	207.23
100.00	4 31 17	1679.07	-12.77	5.27	352.74	117.26	4 59 16	1079.1	-9.01	358.49
100.00	15 10 50	4655.40	22.08	194.48	354.72	69.32	16 28 25	4055.4	19.06	186.98
110.00	5 33 27	1484.43	-15.10	349.16	351.40	121.04	5 58 12	884.4	-10.87	342.60
110.00	16 25 9	4422.80	24.54	175.71	353.60	65.42	17 38 52	3822.8	21.01	168.33

DIFFERENTIAL CORRECTIONS
TDE .2777 TRA -.2201 TC3 1.1207 BAU .1914
RDE -.2475 RRA -.1037 RC3 -.2472 FAU .10156
FDE -.9964 FRA -.7519 FC3-7.0484 BSP 3176
BDE .3720 BRA .2433 BC3 1.1476 FSP -1371

MID-COURSE EXECUTION ACCURACY
SGT 978.9 SGR 469.4 SG3 464.5
RRT -.5625 RRF .6838 RTF -.8037
SGB 1085.6 R23 -.1864 R13 .8305
SG1 1019.7 SG2 372.5 THA 162.49

ORBIT DETERMINATION ACCURACY
ST 463.7 SR 404.8 SS 638.8
CRT -.9352 CRS -.9923 CST .8967
LSA 870.1 MSA 171.1 SSA 24.9
EL1 605.7 EL2 109.7 ALF 139.15

LAUNCH DATE JUN 25 1967 FLIGHT TIME 106.00 ARRIVAL DATE OCT 9 1967

DISTANCE 287.551

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.872 GAL -4.29 AZL 92.54 HCA 126.91 SMA 129.67 ECC .18777 INC 2.5374 V1 29.299
RP 108.22 LAP -2.03 LOP 39.71 VP 37.803 GAP -5.17 AZP 88.48 TAL 199.21 TAP 326.12 RCA 105.32 APO 154.02 V2 35.016
RC 68.382 GL -19.86 GP -10.82 ZAL 126.87 ZAP 40.84 ETS 11.96 ZAE 153.43 ETE 352.10 ZAC 88.22 ETC 14.04 CLP -39.62

PLANETOCENTRIC CONIC
C3 12.196 VHL 3.492 DLA -5.00 RAL 139.05 RAD 6567.5 VEL 11.558 PTH 2.02 VHP 4.192 DPA -6.86 RAP 176.92 ECC 1.2007

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 5 27	1947.28	-12.31	25.22	352.30	115.70	3 37 54	1347.3	-8.76	18.35
90.00	13 48 56	4902.35	20.61	213.22	353.96	70.14	15 10 38	4302.4	17.71	205.74
100.00	4 24 26	1692.47	-13.18	6.04	351.86	117.07	4 52 39	1092.5	-9.45	359.24
100.00	15 12 38	4632.39	21.51	193.01	353.59	68.73	16 29 50	4032.4	18.43	185.57
110.00	5 27 17	1495.71	-15.49	349.79	350.54	120.86	5 52 13	895.7	-11.29	343.21
110.00	16 26 16	4401.92	23.94	174.38	352.47	64.84	17 39 38	3801.9	20.35	167.08

DIFFERENTIAL CORRECTIONS
TDE .2551 TRA -.2187 TC3 1.0601 BAU .1812
RDE -.2458 RRA -.1103 RC3 -.3332 FAU .11232
FDE-1.0579 FRA -.8710 FC3-7.9733 BSP 3033
BDE .3543 BRA .2450 BC3 1.1112 FSP -1545

MID-COURSE EXECUTION ACCURACY
SGT 923.7 SGR 499.8 SG3 519.0
RRT -.5972 RRF .7516 RTF -.7809
SGB 1050.2 R23 -.2362 R13 .8250
SG1 979.9 SG2 377.9 THA 158.79

ORBIT DETERMINATION ACCURACY
ST 432.9 SR 407.0 SS 650.5
CRT -.9256 CRS -.9912 CST .8794
LSA 862.8 MSA 176.4 SSA 24.5
EL1 583.1 EL2 114.4 ALF 136.91

LAUNCH DATE JUN 25 1967 FLIGHT TIME 108.00 ARRIVAL DATE OCT 11 1967

DISTANCE 294.115

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.917 GAL -4.32 AZL 92.45 HCA 130.12 SMA 129.98 ECC .18538 INC 2.4499 V1 29.299
RP 108.18 LAP -1.87 LOP 42.92 VP 37.848 GAP -4.60 AZP 88.42 TAL 199.64 TAP 329.76 RCA 105.88 APO 154.07 V2 35.029
RC 70.443 GL -19.40 GP -11.99 ZAL 127.64 ZAP 45.13 ETS 11.45 ZAE 155.34 ETE 347.84 ZAC 89.49 ETC 13.91 CLP -43.85

PLANETOCENTRIC CONIC
C3 11.932 VHL 3.454 DLA -4.35 RAL 138.57 RAD 6567.5 VEL 11.546 PTH 2.02 VHP 3.967 DPA -7.51 RAP 175.51 ECC 1.1964

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 58 39	1962.95	-12.78	26.14	351.58	115.49	3 31 22	1362.9	-9.24	19.25
90.00	13 51 53	4877.48	20.02	211.63	353.00	69.55	15 13 10	4277.5	17.06	204.21
100.00	4 17 57	1707.14	-13.64	6.90	351.14	116.86	4 46 24	1107.1	-9.93	.07
100.00	15 15 16	4608.52	20.92	191.48	352.63	68.14	16 32 4	4008.5	17.77	184.11
110.00	5 21 30	1508.15	-15.92	350.50	349.84	120.65	5 46 38	908.2	-11.74	343.89
110.00	16 28 12	4380.27	23.30	173.02	351.50	64.25	17 41 12	3780.3	19.65	165.79

DIFFERENTIAL CORRECTIONS
TDE .2314 TRA -.2215 TC3 .9734 BAU .1701
RDE -.2447 RRA -.1186 RC3 -.4359 FAU .12393
FDE-1.1180 FRA -.9952 FC3-8.9914 BSP 2899
BDE .3367 BRA .2512 BC3 1.0666 FSP -1741

MID-COURSE EXECUTION ACCURACY
SGT 857.5 SGR 542.5 SG3 578.1
RRT -.6139 RRF .8127 RTF -.7459
SGB 1014.7 R23 -.2897 R13 .8212
SG1 935.7 SG2 392.4 THA 153.84

ORBIT DETERMINATION ACCURACY
ST 399.8 SR 410.2 SS 661.1
CRT -.9107 CRS -.9904 CST .8564
LSA 855.3 MSA 181.8 SSA 24.0
EL1 559.9 EL2 121.0 ALF 134.19

LAUNCH DATE JUN 25 1967 FLIGHT TIME 110.00 ARRIVAL DATE OCT 13 1967

HELIOCENTRIC CONIC DISTANCE 300.656

```
RL  152.06 LAL    .00 LOL 272.77 VL  26.955 GAL  -4.33 AZL  92.35 HCA 133.32 SMA 130.24 ECC .18335 INC 2.3537 V1  29.299
RP  108.14 LAP  -1.71 LOP  46.12 VP  37.887 GAP  -4.05 AZP  88.38 TAL 199.99 TAP 333.31 RCA 106.36 APO 154.11 V2  35.042
RC  72.534 GL  -18.84 GP  -13.31 ZAL 128.30 ZAP  49.70 ETS  10.90 ZAE 157.37 ETE 342.26 ZAC  91.04 ETC  13.70 CLP -48.35
```

PLANETOCENTRIC CONIC

```
C3  11.679 VHL  3.417 DLA  -3.66 RAL 138.24 RAD 6567.4 VEL 11.535 PTH   2.01 VHP  3.769 DPA  -8.20 RAP 173.80 ECC 1.1922
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 52 7	1980.12	-13.28	27.15	351.02	115.24	3 25 7	1380.1	-9.77	20.23
90.00	13 55 46	4851.29	19.39	209.97	352.20	68.95	15 16 37	4251.3	16.36	202.61
100.00	4 11 45	1723.24	-14.13	7.84	350.60	116.62	4 40 28	1123.2	-10.44	.99
100.00	15 18 49	4583.40	20.27	189.90	351.83	67.55	16 35 12	3983.4	17.05	182.58
110.00	5 16 4	1521.88	-16.40	351.28	349.32	120.42	5 41 26	921.9	-12.24	344.64
110.00	16 30 59	4357.52	22.62	171.60	350.68	63.66	17 43 37	3757.5	18.90	164.45

DIFFERENTIAL CORRECTIONS

```
TOE  .2039 TRA -.2316 TC3  .8464 BAU  .1581
ROE -.2435 RRA -.1280 RC3 -.5557 FAU .13570
FOE-1.1648 FRA-1.1114 FC-10.0598 BSP  2725
BOE  .3176 BRA  .2646 BC3 1.0125 FSP  -1938
```

MID-COURSE EXECUTION ACCURACY

```
SGT  776.4 SGR  597.6 SG3  638.3
RRT -.5940 RRF  .8630 RTF -.6832
SGB  979.8 R23 -.3406 R13  .8208
SG1  884.1 SG2  422.2 THA 147.01
```

ORBIT DETERMINATION ACCURACY

```
ST   361.6 SR   413.5 SS   665.0
CRT -.8843 CRS -.9898 CST  .8203
LSA  841.5 MSA  187.5 SSA   23.5
EL1  533.4 EL2  130.9 ALF 130.68
```

LAUNCH DATE JUN 25 1967 FLIGHT TIME 112.00 ARRIVAL DATE OCT 15 1967

HELIOCENTRIC CONIC DISTANCE 307.174

```
RL  152.06 LAL    .00 LOL 272.77 VL  26.985 GAL  -4.33 AZL  92.25 HCA 136.53 SMA 130.45 ECC .18163 INC 2.2466 V1  29.299
RP  108.10 LAP  -1.55 LOP  49.33 VP  37.921 GAP  -3.51 AZP  88.37 TAL 200.24 TAP 336.77 RCA 106.76 APO 154.14 V2  35.056
RC  74.652 GL  -18.18 GP  -14.80 ZAL 128.87 ZAP  54.53 ETS  10.26 ZAE 159.39 ETE 334.82 ZAC  92.88 ETC  13.37 CLP -53.12
```

PLANETOCENTRIC CONIC

```
C3  11.428 VHL  3.381 DLA  -2.90 RAL 138.06 RAD 6567.4 VEL 11.525 PTH   2.01 VHP  3.599 DPA  -8.92 RAP 171.78 ECC 1.1881
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 45 45	1999.14	-13.83	28.28	350.64	114.96	3 19 5	1399.1	-10.35	21.33
90.00	14 0 42	4823.23	18.69	208.21	351.56	68.34	15 21 5	4223.2	15.59	200.91
100.00	4 5 45	1741.11	-14.67	8.89	350.22	116.34	4 34 46	1141.1	-11.02	2.01
100.00	15 23 24	4556.49	19.56	188.21	351.18	66.94	16 39 21	3956.5	16.27	180.96
110.00	5 10 53	1537.20	-16.92	352.15	348.96	120.15	5 36 30	937.2	-12.79	345.48
110.00	16 34 45	4333.17	21.88	170.10	350.03	63.06	17 46 58	3733.2	18.09	163.02

DIFFERENTIAL CORRECTIONS

```
TOE  .1740 TRA -.2476 TC3  .6796 BAU  .1485
ROE -.2419 RRA -.1383 RC3 -.6952 FAU .14728
FOE-1.1921 FRA-1.2148 FC-11.1573 BSP  2573
BOE  .2980 BRA  .2836 BC3  .9722 FSP  -2134
```

MID-COURSE EXECUTION ACCURACY

```
SGT  688.9 SGR  666.4 SG3  697.8
RRT -.5189 RRF  .9025 RTF -.5743
SGB  958.5 R23 -.3575 R13  .8379
SG1  835.5 SG2  469.7 THA 136.83
```

ORBIT DETERMINATION ACCURACY

```
ST   321.0 SR   416.2 SS   660.8
CRT -.8399 CRS -.9894 CST  .7638
LSA  821.6 MSA  193.3 SSA   23.0
EL1  505.7 EL2  143.4 ALF 126.32
```

LAUNCH DATE JUN 25 1967 FLIGHT TIME 114.00 ARRIVAL DATE OCT 17 1967

HELIOCENTRIC CONIC DISTANCE 313.670

```
RL  152.06 LAL    .00 LOL 272.77 VL  27.010 GAL  -4.32 AZL  92.13 HCA 139.74 SMA 130.62 ECC .18020 INC 2.1259 V1  29.299
RP  108.06 LAP  -1.37 LOP  52.53 VP  37.950 GAP  -3.00 AZP  88.38 TAL 200.41 TAP 340.15 RCA 107.08 APO 154.16 V2  35.069
RC  76.795 GL  -17.39 GP  -16.46 ZAL 129.34 ZAP  59.60 ETS   9.50 ZAE 161.16 ETE 324.93 ZAC  94.98 ETC  12.90 CLP -58.16
```

PLANETOCENTRIC CONIC

```
C3  11.176 VHL  3.343 DLA  -2.06 RAL 138.04 RAD 6567.4 VEL 11.514 PTH   2.01 VHP  3.459 DPA  -9.72 RAP 169.47 ECC 1.1839
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 39 26	2020.60	-14.44	29.56	350.42	114.63	3 13 7	1420.6	-11.00	22.57
90.00	14 6 53	4792.55	17.91	206.30	351.07	67.70	15 26 45	4192.5	14.73	199.06
100.00	3 59 49	1761.31	-15.28	10.08	350.01	116.01	4 29 11	1161.3	-11.66	3.16
100.00	15 29 11	4527.07	18.77	186.39	350.69	66.30	16 44 38	3927.1	15.41	179.21
110.00	5 5 52	1554.57	-17.52	353.15	348.77	119.83	5 31 46	954.6	-13.42	346.44
110.00	16 39 38	4306.57	21.05	168.49	349.52	62.42	17 51 24	3706.6	17.19	161.48

DIFFERENTIAL CORRECTIONS

```
TOE  .1441 TRA -.2679 TC3  .4748 BAU  .1466
ROE -.2400 RRA -.1498 RC3 -.8589 FAU .15844
FOE-1.2002 FRA-1.3029 FC-12.2727 BSP  2534
BOE  .2799 BRA  .3070 BC3  .9814 FSP  -2334
```

MID-COURSE EXECUTION ACCURACY

```
SGT  610.7 SGR  751.6 SG3  756.0
RRT -.3614 RRF  .9325 RTF -.3905
SGB  968.4 R23 -.2726 R13  .8936
SG1  812.8 SG2  526.6 THA 119.97
```

ORBIT DETERMINATION ACCURACY

```
ST   283.1 SR   418.8 SS   650.7
CRT -.7689 CRS -.9890 CST  .6784
LSA  799.2 MSA  199.1 SSA   22.6
EL1  480.2 EL2  157.8 ALF 121.20
```

LAUNCH DATE JUN 25 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 19 1967

HELIOCENTRIC CONIC DISTANCE 320.143

```
RL  152.06 LAL    .00 LOL 272.77 VL  27.029 GAL  -4.30 AZL  91.99 HCA 142.95 SMA 130.75 ECC .17902 INC 1.9881 V1  29.299
RP  108.02 LAP  -1.20 LOP  55.74 VP  37.976 GAP  -2.49 AZP  88.41 TAL 200.49 TAP 343.44 RCA 107.34 APO 154.15 V2  35.082
RC  78.958 GL  -16.44 GP  -18.31 ZAL 129.73 ZAP  64.87 ETS   8.57 ZAE 162.34 ETE 312.29 ZAC  97.31 ETC  12.26 CLP -63.43
```

PLANETOCENTRIC CONIC

```
C3  10.919 VHL  3.304 DLA  -1.11 RAL 138.19 RAD 6567.4 VEL 11.502 PTH   2.00 VHP  3.350 DPA -10.61 RAP 166.88 ECC 1.1797
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 32 59	2045.32	-15.13	31.04	350.39	114.22	3 7 4	1445.3	-11.74	24.01
90.00	14 14 32	4758.24	17.01	204.18	350.73	67.02	15 33 51	4158.2	13.76	197.02
100.00	3 53 48	1784.60	-15.97	11.47	349.98	115.61	4 23 33	1184.6	-12.39	4.50
100.00	15 36 24	4494.19	17.86	184.37	350.34	65.62	16 51 18	3894.2	14.42	177.27
110.00	5 0 52	1574.69	-18.19	354.32	348.77	119.45	5 27 6	974.7	-14.13	347.56
110.00	16 45 50	4276.87	20.10	166.70	349.17	61.75	17 57 7	3676.9	16.17	159.78

DIFFERENTIAL CORRECTIONS

```
TOE  .1131 TRA -.2943 TC3  .2202 BAU  .1559
ROE -.2358 RRA -.1607 RC3-1.0452 FAU .16781
FOE-1.1676 FRA-1.3539 FC-13.3054 BSP  2624
BOE  .2615 BRA  .3354 BC3 1.0682 FSP  -2500
```

MID-COURSE EXECUTION ACCURACY

```
SGT  565.8 SGR  849.7 SG3  805.6
RRT -.0798 RRF  .9538 RTF -.0905
SGB 1020.9 R23 -.0450 R13  .9528
SG1  851.9 SG2  562.6 THA  95.40
```

ORBIT DETERMINATION ACCURACY

```
ST   248.8 SR   417.9 SS   625.1
CRT -.6487 CRS -.9886 CST  .5400
LSA  764.6 MSA  205.3 SSA   22.3
EL1  454.1 EL2  174.3 ALF 115.05
```

LAUNCH DATE JUN 25 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 21 1967

DISTANCE 326.592

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 27.042 GAL -4.28 AZL 91.83 HCA 146.17 SMA 130.84 ECC .17807 INC 1.8279 V1 29.299
RP 107.98 LAP -1.02 LOP 58.96 VP 37.997 GAP -2.01 AZP 88.48 TAL 200.47 TAP 346.64 RCA 107.54 APO 154.14 V2 35.094
RC 81.139 GL -15.28 GP -20.37 ZAL 130.03 ZAP 70.27 ETS 7.43 ZAE 162.50 ETE 297.55 ZAC 99.81 ETC 11.42 CLP -68.89

PLANETOCENTRIC CONIC
C3 10.652 VHL 3.264 DLA -.00 RAL 138.52 RAD 6567.4 VEL 11.491 PTH 2.00 VHP 3.273 DPA -11.64 RAP 164.05 ECC 1.1753

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 26 5	2074.59	-15.94	32.81	350.55	113.71	3 0 40	1474.6	-12.60	25.72
90.00	14 24 4	4718.87	15.95	201.78	350.55	66.29	15 42 43	4118.9	12.61	194.69
100.00	3 47 26	1812.22	-16.77	13.12	350.16	115.11	4 17 38	1212.2	-13.25	6.10
100.00	15 45 24	4456.48	16.78	182.09	350.16	64.89	16 59 41	3856.5	13.26	175.07
110.00	4 55 40	1598.61	-18.99	355.72	348.97	118.97	5 22 19	998.6	-14.98	348.90
110.00	16 53 39	4242.85	19.00	164.69	348.97	61.03	18 4 22	3642.8	14.99	157.86

DIFFERENTIAL CORRECTIONS
TOE .0839 TRA -.3241 TC3 -.0810 BAU .1794
RDE -.2286 RRA -.1706 RC3-1.2574 FAU .17482
FOE-1.0904 FRA-1.3623 FC-14.2087 BSP 2922
BDE .2435 BRA .3662 BC3 1.2600 FSP -2628

MID-COURSE EXECUTION ACCURACY
SGT 590.0 SGR 961.4 SG3 843.9
RRT .2727 RRF .9687 RTF .2723
SGB 1128.0 R23 .1283 R13 .9602
SG1 981.4 SG2 556.1 THA 75.88

ORBIT DETERMINATION ACCURACY
ST 225.4 SR 411.9 SS 583.5
CRT -.4707 CRS -.9877 CST .3417
LSA 718.0 MSA 211.8 SSA 22.1
EL1 429.0 EL2 191.0 ALF 108.16

LAUNCH DATE JUN 25 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 23 1967

DISTANCE 333.019

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 27.050 GAL -4.24 AZL 91.64 HCA 149.39 SMA 130.90 ECC .17733 INC 1.6383 V1 29.299
RP 107.94 LAP -.83 LOP 62.17 VP 38.014 GAP -1.54 AZP 88.59 TAL 200.38 TAP 349.77 RCA 107.69 APO 154.11 V2 35.107
RC 85.336 GL -13.86 GP -22.69 ZAL 130.25 ZAP 75.71 ETS 6.03 ZAE 161.36 ETE 282.71 ZAC 102.43 ETC 10.33 CLP -74.49

PLANETOCENTRIC CONIC
C3 10.374 VHL 3.221 DLA 1.32 RAL 139.05 RAD 6567.4 VEL 11.479 PTH 2.00 VHP 3.233 DPA -12.87 RAP 161.03 ECC 1.1707

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 18 23	2110.35	-16.91	34.99	350.94	113.06	2 53 33	1510.4	-13.64	27.83
90.00	14 36 1	4672.40	14.66	198.98	350.55	65.50	15 53 53	4072.4	11.23	191.98
100.00	3 40 20	1845.99	-17.74	15.17	350.56	114.46	4 11 6	1246.0	-14.29	8.07
100.00	15 56 44	4411.99	15.48	179.43	350.15	64.10	17 10 16	3812.0	11.87	172.50
110.00	4 49 59	1627.97	-19.95	357.46	349.40	118.35	5 17 7	1028.0	-16.00	350.55
110.00	17 3 34	4202.78	17.66	162.35	348.95	60.24	18 13 37	3602.8	13.57	155.63

DIFFERENTIAL CORRECTIONS
TOE .0599 TRA -.3545 TC3 -.4260 BAU .2163
RDE -.2174 RRA -.1789 RC3-1.5005 FAU .17904
FOE -.9699 FRA-1.3286 FC-14.9420 BSP 3452
BDE .2255 BRA .3971 BC3 1.5598 FSP -2726

MID-COURSE EXECUTION ACCURACY
SGT 696.1 SGR 1088.7 SG3 869.2
RRT .5607 RRF .9791 RTF .5639
SGB 1292.2 R23 .1869 R13 .9613
SG1 1177.1 SG2 533.1 THA 64.75

ORBIT DETERMINATION ACCURACY
ST 217.3 SR 399.4 SS 527.2
CRT -.2637 CRS -.9860 CST .1152
LSA 660.4 MSA 219.2 SSA 22.2
EL1 405.0 EL2 206.8 ALF 101.09

LAUNCH DATE JUN 25 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 25 1967

DISTANCE 339.423

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 27.054 GAL -4.19 AZL 91.41 HCA 152.61 SMA 130.92 ECC .17678 INC 1.4087 V1 29.299
RP 107.91 LAP -.65 LOP 65.39 VP 38.028 GAP -1.08 AZP 88.75 TAL 200.20 TAP 352.80 RCA 107.78 APO 154.07 V2 35.119
RC 85.546 GL -12.06 GP -25.30 ZAL 130.39 ZAP 81.10 ETS 4.32 ZAE 158.91 ETE 269.90 ZAC 105.06 ETC 8.95 CLP -80.15

PLANETOCENTRIC CONIC
C3 10.084 VHL 3.175 DLA 2.96 RAL 139.82 RAD 6567.4 VEL 11.466 PTH 1.99 VHP 3.231 DPA -14.38 RAP 157.85 ECC 1.1659

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 9 14	2155.60	-18.09	37.78	351.63	112.16	2 45 9	1555.6	-14.93	30.53
90.00	14 51 15	4615.77	13.03	195.61	350.77	64.64	16 8 11	4015.8	9.51	188.71
100.00	3 31 57	1888.77	-18.92	17.79	351.26	113.58	4 3 26	1288.8	-15.58	10.60
100.00	16 11 13	4357.83	13.84	176.24	350.37	63.24	17 23 51	3757.8	10.14	169.40
110.00	4 43 22	1665.24	-21.14	359.69	350.14	117.51	5 11 8	1065.2	-17.28	352.69
110.00	17 16 17	4154.12	15.99	159.56	349.15	59.38	18 25 32	3554.1	11.81	152.95

DIFFERENTIAL CORRECTIONS
TOE .0436 TRA -.3842 TC3 -.8191 BAU .2630
RDE -.1980 RRA -.1828 RC3-1.7705 FAU .17893
FOE -.7832 FRA-1.2315 FC-15.3622 BSP 4141
BDE .2028 BRA .4255 BC3 1.9508 FSP -2744

MID-COURSE EXECUTION ACCURACY
SGT 871.1 SGR 1225.2 SG3 873.2
RRT .7366 RRF .9861 RTF .7394
SGB 1503.2 R23 .2012 R13 .9656
SG1 1413.9 SG2 510.5 THA 57.64

ORBIT DETERMINATION ACCURACY
ST 223.2 SR 372.3 SS 443.8
CRT -.0835 CRS -.9813 CST -.0915
LSA 576.7 MSA 228.7 SSA 22.9
EL1 373.0 EL2 222.0 ALF 94.44

LAUNCH DATE JUN 25 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 27 1967

DISTANCE 345.805

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 27.053 GAL -4.12 AZL 91.12 HCA 155.83 SMA 130.92 ECC .17639 INC 1.1228 V1 29.299
RP 107.87 LAP -.46 LOP 68.60 VP 38.039 GAP -.63 AZP 88.98 TAL 199.94 TAP 355.76 RCA 107.83 APO 154.01 V2 35.131
RC 87.767 GL -9.73 GP -28.30 ZAL 130.43 ZAP 86.31 ETS 2.22 ZAE 155.32 ETE 260.06 ZAC 107.63 ETC 7.23 CLP -85.81

PLANETOCENTRIC CONIC
C3 9.785 VHL 3.128 DLA 5.07 RAL 140.87 RAD 6567.4 VEL 11.453 PTH 1.99 VHP 3.273 DPA -16.28 RAP 154.55 ECC 1.1610

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 57 39	2215.28	-19.59	41.53	352.72	110.87	2 34 34	1615.3	-16.57	34.15
90.00	15 11 14	4544.14	10.91	191.43	351.29	63.71	16 26 58	3944.1	7.29	184.62
100.00	3 21 23	1945.22	-20.42	21.31	352.37	112.31	3 53 48	1345.2	-17.22	13.98
100.00	16 30 11	4289.44	11.71	172.28	350.88	62.30	17 41 40	3689.4	7.91	165.55
110.00	4 35 6	1714.51	-22.65	2.71	351.29	116.31	5 3 40	1114.5	-18.94	355.55
110.00	17 32 57	4092.90	13.84	156.12	349.63	58.43	18 41 10	3492.9	9.56	149.63

DIFFERENTIAL CORRECTIONS
TOE .0411 TRA -.4087 TC3-1.2528 BAU .3174
RDE -.1690 RRA -.1819 RC3-2.0775 FAU .17466
FDE -.5459 FRA-1.0849 FC-15.4524 BSP 4985
BDE .1740 BRA .4473 BC3 2.4260 FSP -2709

MID-COURSE EXECUTION ACCURACY
SGT 1088.5 SGR 1377.3 SG3 857.2
RRT .8316 RRF .9910 RTF .8335
SGB 1755.5 R23 .1977 R13 .9712
SG1 1684.5 SG2 494.3 THA 52.97

ORBIT DETERMINATION ACCURACY
ST 238.9 SR 327.8 SS 339.6
CRT .0028 CRS -.9677 CST -.2316
LSA 469.4 MSA 242.7 SSA 24.6
EL1 327.8 EL2 238.9 ALF 89.75

LAUNCH DATE JUN 25 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 29 1967

HELIOCENTRIC CONIC DISTANCE 352.164

RL 152.06 LAL .00 LOL 272.77 VL 27.048 GAL -4.05 AZL 90.76 HCA 159.05 SMA 130.89 ECC .17616 INC .7549 V1 29.299
RP 107.83 LAP -.27 LOP 71.82 VP 38.046 GAP -.20 AZP 89.29 TAL 199.60 TAP 358.65 RCA 107.83 APO 153.94 V2 35.143
RC 89.996 GL -6.63 GP -31.84 ZAL 130.35 ZAP 91.19 ETS 359.66 ZAE 150.79 ETE 253.04 ZAC 110.03 ETC 5.08 CLP -91.40

PLANETOCENTRIC CONIC

C3 9.491 VHL 3.081 DLA 7.86 RAL 142.30 RAD 6567.3 VEL 11.440 PTH 1.98 VHP 3.370 DPA -18.73 RAP 151.13 ECC 1.1562

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 41 53	2297.99	-21.50	46.83	354.42	108.88	2 20 11	1698.0	-18.73	39.26
90.00	15 38 25	4449.43	8.00	185.99	352.28	62.75	16 52 35	3849.4	4.28	179.28
100.00	3 7 1	2023.41	-22.36	26.31	354.09	110.37	3 40 44	1423.4	-19.39	18.78
100.00	16 55 59	4199.24	8.81	167.16	351.84	61.32	18 5 58	3599.2	4.91	160.54
110.00	4 23 54	1782.76	-24.65	7.01	353.07	114.47	4 53 37	1182.8	-21.14	359.62
110.00	17 55 34	4012.65	10.93	151.72	350.56	57.41	19 2 27	3412.7	6.56	145.36

DIFFERENTIAL CORRECTIONS
TDE .0597 TRA -.4242 TC3-1.7246 BAU .3765
RDE -.1221 RRA -.1713 RC3-2.4146 FAU .16496
FDE -.2389 FRA -.8744 FC-15.0460 BSP 5906
BDE .1359 BRA .4574 BC3 2.9672 FSP -2575

MID-COURSE EXECUTION ACCURACY
SGT 1332.5 SGR 1539.0 SG3 814.4
RRT .8835 RRF .9942 RTF .8845
SGB 2035.7 R23 .1905 R13 .9759
SG1 1976.8 SG2 485.9 THA 49.65

ORBIT DETERMINATION ACCURACY
ST 265.4 SR 250.7 SS 209.4
CRT -.0111 CRS -.8919 CST -.4044
LSA 326.7 MSA 263.6 SSA 29.4
EL1 265.5 EL2 250.5 ALF 174.50

LAUNCH DATE JUN 25 1967 FLIGHT TIME 128.00 ARRIVAL DATE OCT 31 1967

HELIOCENTRIC CONIC DISTANCE 358.501

RL 152.06 LAL .00 LOL 272.77 VL 27.040 GAL -3.97 AZL 90.26 HCA 162.27 SMA 130.83 ECC .17607 INC .2592 V1 29.299
RP 107.80 LAP -.08 LOP 75.05 VP 38.051 GAP .22 AZP 89.75 TAL 199.18 TAP 1.46 RCA 107.79 APO 153.86 V2 35.154
RC 92.232 GL -2.31 GP -36.13 ZAL 130.03 ZAP 95.54 ETS 356.51 ZAE 145.38 ETE 248.30 ZAC 112.13 ETC 2.39 CLP -96.87

PLANETOCENTRIC CONIC

C3 9.240 VHL 3.040 DLA 11.76 RAL 144.28 RAD 6567.3 VEL 11.429 PTH 1.98 VHP 3.541 DPA -21.96 RAP 147.52 ECC 1.1521

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 18 21	2420.35	-23.97	54.95	357.16	105.54	1 58 42	1820.4	-21.61	47.08
90.00	16 17 46	4316.59	3.79	178.49	354.09	61.92	17 29 43	3716.6	.01	171.86
100.00	2 45 40	2138.76	-24.89	33.95	356.86	107.11	3 21 19	1538.8	-22.31	26.10
100.00	17 33 9	4073.41	4.63	160.15	353.63	60.44	18 41 2	3473.4	.66	153.61
110.00	4 7 24	1882.98	-27.31	13.58	355.92	111.40	4 38 47	1283.0	-24.16	5.83
110.00	18 27 54	3901.96	6.82	145.79	352.28	56.42	19 32 56	3302.0	2.36	139.55

DIFFERENTIAL CORRECTIONS
TDE .1123 TRA -.4237 TC3-2.2174 BAU .4398
RDE -.0493 RRA -.1486 RC3-2.7857 FAU .15015
FDE .1170 FRA -.6211 FC-14.0680 BSP 6936
BDE .1227 BRA .4490 BC3 3.5605 FSP -2373

MID-COURSE EXECUTION ACCURACY
SGT 1589.9 SGR 1720.1 SG3 746.4
RRT .9130 RRF .9964 RTF .9139
SGB 2342.3 R23 .1807 R13 .9800
SG1 2291.1 SG2 487.0 THA 47.47

ORBIT DETERMINATION ACCURACY
ST 326.1 SR 136.4 SS 150.9
CRT .0758 CRS -.3469 CST -.9008
LSA 354.7 MSA 141.2 SSA 44.4
EL1 326.3 EL2 135.9 ALF 2.20

LAUNCH DATE JUN 25 1967 FLIGHT TIME 130.00 ARRIVAL DATE NOV 2 1967

HELIOCENTRIC CONIC DISTANCE 364.815

RL 152.06 LAL .00 LOL 272.77 VL 27.028 GAL -3.88 AZL 89.55 HCA 165.50 SMA 130.75 ECC .17611 INC .4448 V1 29.299
RP 107.77 LAP .11 LOP 78.27 VP 38.053 GAP .63 AZP 90.43 TAL 198.70 TAP 4.19 RCA 107.72 APO 153.77 V2 35.165
RC 94.474 GL 3.99 GP -41.53 ZAL 129.19 ZAP 99.11 ETS 352.61 ZAE 138.97 ETE 245.27 ZAC 113.78 ETC 358.97 CLP-102.21

PLANETOCENTRIC CONIC

C3 9.138 VHL 3.023 DLA 17.46 RAL 147.17 RAD 6567.3 VEL 11.425 PTH 1.98 VHP 3.828 DPA -26.29 RAP 143.54 ECC 1.1504

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	0 38 4	2620.76	-26.91	68.88	1.82	99.17	1 21 45	2020.8	-25.37	60.55
90.00	17 21 5	4111.87	-2.80	167.06	357.68	61.81	18 29 37	3511.9	-6.55	160.39
100.00	2 9 33	2325.74	-27.99	46.96	1.61	100.94	2 48 19	1725.7	-26.20	38.62
100.00	18 32 17	3882.12	-1.84	149.64	357.14	60.16	19 36 59	3282.1	-5.80	143.09
110.00	3 40 5	2042.52	-30.78	24.70	.85	105.67	4 14 7	1442.5	-28.32	16.36
110.00	19 18 15	3738.11	.59	137.20	355.63	55.82	20 20 33	3138.1	-3.90	130.99

DIFFERENTIAL CORRECTIONS
TDE .2241 TRA -.3960 TC3-2.6842 BAU .5046
RDE .0723 RRA -.1017 RC3-3.1392 FAU .12903
FDE .5268 FRA -.3189 FC-12.2249 BSP 7976
BDE .2355 BRA .4089 BC3 4.1303 FSP -2057

MID-COURSE EXECUTION ACCURACY
SGT 1852.9 SGR 1913.5 SG3 646.7
RRT .9300 RRF .9979 RTF .9314
SGB 2663.6 R23 .1714 R13 .9831
SG1 2616.6 SG2 498.2 THA 45.99

ORBIT DETERMINATION ACCURACY
ST 488.5 SR 160.3 SS 344.1
CRT .9618 CRS -.9653 CST -.9444
LSA 610.5 MSA 94.4 SSA 32.6
EL1 512.4 EL2 41.9 ALF 17.64

LAUNCH DATE JUN 25 1967 FLIGHT TIME 132.00 ARRIVAL DATE NOV 4 1967

HELIOCENTRIC CONIC DISTANCE 371.104

RL 152.06 LAL .00 LOL 272.77 VL 27.014 GAL -3.77 AZL 88.45 HCA 168.72 SMA 130.65 ECC .17627 INC 1.5470 V1 29.299
RP 107.73 LAP .30 LOP 81.50 VP 38.052 GAP 1.03 AZP 91.52 TAL 198.14 TAP 6.86 RCA 107.62 APO 153.68 V2 35.175
RC 96.719 GL 13.65 GP -48.60 ZAL 127.05 ZAP 101.49 ETS 347.71 ZAE 131.18 ETE 243.45 ZAC 114.73 ETC 354.53 CLP-107.52

PLANETOCENTRIC CONIC

C3 9.530 VHL 3.087 DLA 26.18 RAL 151.77 RAD 6567.3 VEL 11.442 PTH 1.98 VHP 4.332 DPA -32.17 RAP 138.74 ECC 1.1568

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	22 52 19	3058.06	-27.61	100.64	9.88	83.43	23 43 17	2458.1	-28.23	92.03
90.00	19 39 37	3690.93	-15.62	142.79	6.37	66.08	20 41 8	3090.9	-18.72	135.49
100.00	0 45 44	2705.07	-29.70	74.87	10.09	86.46	1 30 49	2105.1	-29.88	66.07
100.00	20 32 49	3519.15	-13.72	129.24	5.44	63.18	21 31 28	2919.1	-17.21	122.19
110.00	2 43 30	2336.62	-34.07	46.92	10.12	92.96	3 22 26	1736.6	-33.28	37.77
110.00	20 51 33	3460.37	-9.93	122.57	3.22	57.12	21 49 13	2860.4	-14.19	116.06

DIFFERENTIAL CORRECTIONS
TDE .4474 TRA -.3202 TC3-2.9830 BAU .5698
RDE .2800 RRA -.0143 RC3-3.3325 FAU .10183
FDE .9392 FRA -.0023 FC3-9.2508 BSP 9081
BDE .5278 BRA .3205 BC3 4.4726 FSP -1650

MID-COURSE EXECUTION ACCURACY
SGT 2126.0 SGR 2122.3 SG3 515.9
RRT .9398 RRF .9987 RTF .9428
SGB 3004.0 R23 .1614 R13 .9857
SG1 2958.5 SG2 521.2 THA 44.95

ORBIT DETERMINATION ACCURACY
ST 855.6 SR 523.4 SS 655.6
CRT .9752 CRS -.9997 CST -.9724
LSA 1190.3 MSA 137.9 SSA 9.3
EL1 998.1 EL2 99.3 ALF 31.16

LAUNCH DATE JUN 25 1967 FLIGHT TIME 134.00 ARRIVAL DATE NOV 6 1967

DISTANCE 377.366

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.997 GAL -3.65 AZL 86.48 HCA 171.94 SMA 130.53 ECC .17654 INC 3.5161 V1 29.299
RP 107.70 LAP .49 LOP 84.72 VP 38.049 GAP 1.41 AZP 93.48 TAL 197.51 TAP 9.45 RCA 107.48 APO 153.57 V2 35.185
RC 98.967 GL 28.77 GP -58.19 ZAL 121.70 ZAP 102.03 ETS 341.44 ZAE 121.28 ETE 242.05 ZAC 114.59 ETC 348.51 CLP-113.28

PLANETOCENTRIC CONIC
C3 11.784 VHL 3.433 DLA 39.56 RAL 160.37 RAD 6567.4 VEL 11.540 PTH 2.01 VHP 5.331 DPA -40.22 RAP 132.02 ECC 1.1939

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.13	18 33 43	4032.30	-30.66	176.04	24.53	63.67	19 40 55	3432.3	-33.93	167.82
118.87	1 10 47	2802.86	-30.65	82.62	24.53	63.65	1 57 30	2202.9	-33.92	74.40
61.13	18 33 43	4032.30	-30.66	176.04	24.53	63.67	19 40 55	3432.3	-33.93	167.82
118.87	1 10 47	2802.86	-30.65	82.62	24.53	63.65	1 57 30	2202.9	-33.92	74.40
61.13	18 33 43	4032.30	-30.66	176.04	24.53	63.67	19 40 55	3432.3	-33.93	167.82
118.87	1 10 47	2802.86	-30.65	82.62	24.53	63.65	1 57 30	2202.9	-33.92	74.40

DIFFERENTIAL CORRECTIONS
TDE .9202 TRA -.1409 TC3-2.7257 BAU .6279
RDE .6537 RRA .1635 RC3-2.9080 FAU .06869
FDE 1.2615 FRA .2953 FC3-5.0466 BSP 10234
BDE 1.1288 BRA .2158 BC3 3.9857 FSP -1149

MID-COURSE EXECUTION ACCURACY
SGT 2440.1 SGR 2302.5 SG3 354.6
RRT .9440 RRF .9990 RTF .9508
SGB 3354.9 R23 .1539 R13 .9873
SG1 3307.8 SG2 560.3 THA 43.24

ORBIT DETERMINATION ACCURACY
ST 1539.7 SR 1097.9 SS 975.0
CRT .9876 CRS-1.0000 CST -.9887
LSA 2121.2 MSA 164.0 SSA 3.5
EL1 1885.8 EL2 140.5 ALF 35.38

LAUNCH DATE JUN 25 1967 FLIGHT TIME 136.00 ARRIVAL DATE NOV 8 1967

DISTANCE 383.585

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.977 GAL -3.52 AZL 81.94 HCA 175.13 SMA 130.39 ECC .17689 INC 8.0593 V1 29.299
RP 107.67 LAP .68 LOP 87.95 VP 38.043 GAP 1.79 AZP 98.03 TAL 196.80 TAP 11.94 RCA 107.32 APO 153.45 V2 35.195
RC 101.218 GL 50.05 GP -71.65 ZAL 110.70 ZAP 99.84 ETS 331.83 ZAE 107.82 ETE 238.26 ZAC 112.78 ETC 338.55 CLP-122.88

PLANETOCENTRIC CONIC
C3 24.248 VHL 4.924 DLA 56.46 RAL 180.50 RAD 6568.0 VEL 12.068 PTH 2.16 VHP 7.889 DPA -50.94 RAP 119.71 ECC 1.3991

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
38.87	18 35 6	4395.35	-33.85	213.77	64.12	41.70	19 48 21	3795.3	-39.63	207.28
141.13	3 49 59	2770.61	-33.84	82.43	64.11	41.69	4 36 10	2170.6	-39.62	75.94
38.87	18 35 6	4395.35	-33.85	213.77	64.12	41.70	19 48 21	3795.3	-39.63	207.28
141.13	3 49 59	2770.61	-33.84	82.43	64.11	41.69	4 36 10	2170.6	-39.62	75.94
38.87	18 35 6	4395.35	-33.85	213.77	64.12	41.70	19 48 21	3795.3	-39.63	207.28
141.13	3 49 59	2770.61	-33.84	82.43	64.11	41.69	4 36 10	2170.6	-39.62	75.94

DIFFERENTIAL CORRECTIONS
TDE 2.0645 TRA .3900 TC3-1.4274 BAU .6340
RDE 1.1763 RRA .5775 RC3-1.3370 FAU .03313
FDE 1.2358 FRA .5182 FC3-1.1830 BSP 11246
BDE 2.3761 BRA .6968 BC3 1.9558 FSP -612

MID-COURSE EXECUTION ACCURACY
SGT 2901.9 SGR 2255.2 SG3 185.6
RRT .9378 RRF .9967 RTF .9605
SGB 3675.2 R23 .1479 R13 .9884
SG1 3621.3 SG2 627.3 THA 37.40

ORBIT DETERMINATION ACCURACY
ST 2415.1 SR 1417.0 SS 1005.5
CRT .9874 CRS -.9993 CST -.9926
LSA 2967.9 MSA 208.2 SSA 1.6
EL1 2793.4 EL2 193.5 ALF 30.25

LAUNCH DATE JUN 25 1967 FLIGHT TIME 138.00 ARRIVAL DATE NOV 10 1967

DISTANCE 389.632

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.955 GAL -3.35 AZL 61.32 HCA 178.19 SMA 130.24 ECC .17720 INC28.6780 V1 29.299
RP 107.65 LAP .87 LOP 91.19 VP 38.036 GAP 2.11 AZP 118.67 TAL 195.91 TAP 14.10 RCA 107.16 APO 153.31 V2 35.204
RC 103.470 GL 65.34 GP -80.59 ZAL 96.70 ZAP 94.37 ETS 225.86 ZAE 84.13 ETE 137.21 ZAC 109.27 ETC 229.60 CLP 117.76

PLANETOCENTRIC CONIC
C3 201.910 VHL 14.209 DLA 60.75 RAL 213.87 RAD 6571.1 VEL 17.979 PTH 3.01 VHP 20.388 DPA -60.82 RAP 79.83 ECC 4.3229

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
33.72	20 34 49	4894.81	-8.44	236.67	119.12	29.61	21 56 23	4294.8	-15.37	233.00
146.28	6 16 31	3218.56	-8.43	98.82	119.10	29.60	7 10 10	2618.6	-15.35	95.15
33.72	20 34 49	4894.81	-8.44	236.67	119.12	29.61	21 56 23	4294.8	-15.37	233.00
146.28	6 16 31	3218.56	-8.43	98.82	119.10	29.60	7 10 10	2618.6	-15.35	95.15
33.72	20 34 49	4894.81	-8.44	236.67	119.12	29.61	21 56 23	4294.8	-15.37	233.00
146.28	6 16 31	3218.56	-8.43	98.82	119.10	29.60	7 10 10	2618.6	-15.35	95.15

DIFFERENTIAL CORRECTIONS
TDE 1.1161 TRA 2.2681 TC3 -.0034 BAU .1627
RDE-4.5476 RRA-3.3756 RC3 -.0602 FAU-.00247
FDE .8099 FRA .9223 FC3 .0106 BSP 10256
BDE 4.6826 BRA 4.0668 BC3 .0603 FSP -203

MID-COURSE EXECUTION ACCURACY
SGT 1924.8 SGR 3339.1 SG3 71.6
RRT -.9391 RRF -.9843 RTF .9848
SGB 3854.2 R23 -.0920 R13 -.9957
SG1 3810.4 SG2 579.4 THA 119.17

ORBIT DETERMINATION ACCURACY
ST 719.5 SR 2015.1 SS 701.9
CRT -.8927 CRS .9834 CST -.9597
LSA 2228.9 MSA 321.4 SSA .6
EL1 2117.4 EL2 308.6 ALF 108.08

LAUNCH DATE JUN 25 1967 FLIGHT TIME 140.00 ARRIVAL DATE NOV 12 1967

DISTANCE 396.418

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.930 GAL -3.31 AZL 122.59 HCA 181.95 SMA 130.07 ECC .17841 INC32.5837 V1 29.299
RP 107.62 LAP 1.05 LOP 94.42 VP 38.026 GAP 2.63 AZP 57.43 TAL 195.60 TAP 17.55 RCA 106.86 APO 153.27 V2 35.212
RC 105.723 GL -64.70 GP 81.38 ZAL 95.88 ZAP 95.76 ETS 154.34 ZAE 81.64 ETE 241.36 ZAC 82.53 ETC 143.94 CLP 131.98

PLANETOCENTRIC CONIC
C3 256.503 VHL 16.016 DLA -52.82 RAL 133.95 RAD 6571.5 VEL 19.437 PTH 3.11 VHP 18.827 DPA 69.91 RAP 297.79 ECC 5.2214

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
43.35	3 43 59	2232.36	5.84	61.56	39.49	142.59	4 21 12	1632.4	12.16	57.02
136.65	12 29 40	661.53	5.85	296.36	39.51	142.59	12 40 42	61.5	12.18	291.82
43.35	3 43 59	2232.36	5.84	61.56	39.49	142.59	4 21 12	1632.4	12.16	57.02
136.65	12 29 40	661.53	5.85	296.36	39.51	142.59	12 40 42	61.5	12.18	291.82
43.35	3 43 59	2232.36	5.84	61.56	39.49	142.59	4 21 12	1632.4	12.16	57.02
136.65	12 29 40	661.53	5.85	296.36	39.51	142.59	12 40 42	61.5	12.18	291.82

DIFFERENTIAL CORRECTIONS
TDE -.6946 TRA .5485 TC3 -.0102 BAU .4171
RDE-9.3066 RRA-3.1630 RC3 .1212 FAU-.00605
FDE-2.3059 FRA -.6151 FC3 .0204 BSP 10348
BDE 9.3324 BRA 3.2102 BC3 .1216 FSP -213

MID-COURSE EXECUTION ACCURACY
SGT 410.2 SGR 3839.5 SG3 78.1
RRT .1312 RRF .9950 RTF .2281
SGB 3861.3 R23 -.0970 R13 .9951
SG1 3839.8 SG2 406.6 THA 89.19

ORBIT DETERMINATION ACCURACY
ST 266.9 SR 3376.5 SS 1353.6
CRT .8573 CRS -.9994 CST -.8750
LSA 3644.7 MSA 143.1 SSA .9
EL1 3384.2 EL2 137.1 ALF 86.12

LAUNCH DATE JUN 25 1967 FLIGHT TIME 142.00 ARRIVAL DATE NOV 14 1967

HELIOCENTRIC CONIC DISTANCE 402.449

RL 152.06 LAL .00 LOL 272.77 VL 26.904 GAL -3.13 AZL 104.19 HCA 185.03 SMA 129.89 ECC .17894 INC14.1887 V1 29.299
RP 107.60 LAP 1.23 LOP 97.66 VP 38.015 GAP 2.95 AZP 75.86 TAL 194.62 TAP 19.65 RCA 106.65 APO 153.13 V2 35.220
RC 107.975 GL -61.30 GP 67.96 ZAL 101.92 ZAP 105.52 ETS 47.59 ZAE 104.21 ETE 138.11 ZAC 88.36 ETC 40.03 CLP-135.48

PLANETOCENTRIC CONIC

C3 56.358 VHL 7.507 DLA -46.97 RAL 130.49 RAD 6569.0 VEL 13.331 PTH 2.44 VHP 7.796 DPA 72.52 RAP 216.15 ECC 1.9275

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
50.81	3 54 24	1877.98	19.76	41.83	20.89	133.53	4 25 42	1278.0	25.15	35.85
129.19	11 51 40	5710.21	19.77	266.19	20.90	133.52	13 26 50	5110.2	25.16	260.21
50.81	3 54 24	1877.98	19.76	41.83	20.89	133.53	4 25 42	1278.0	25.15	35.85
129.19	11 51 40	5710.21	19.77	266.19	20.90	133.52	13 26 50	5110.2	25.16	260.21
50.81	3 54 24	1877.98	19.76	41.83	20.89	133.53	4 25 42	1278.0	25.15	35.85
129.19	11 51 40	5710.21	19.77	266.19	20.90	133.52	13 26 50	5110.2	25.16	260.21

DIFFERENTIAL CORRECTIONS
TDE-3.4948 TRA-1.9768 TC3 -.6322 BAU .5209
RDE 2.0524 RRA .4053 RC3 .2797 FAU .02950
FDE-2.6235 FRA -.8925 FC3 -.4532 BSP 12175
BDE 4.0529 BRA 2.0180 BC3 .6913 FSP -634

MID-COURSE EXECUTION ACCURACY
SGT 3592.3 SGR 1683.9 SG3 202.0
RRT -.9223 RRF -.9840 RTF .9754
SGB 3967.4 R23 .1521 R13 -.9879
SG1 3922.3 SG2 596.0 THA 156.03

ORBIT DETERMINATION ACCURACY
ST 2748.7 SR 1572.3 SS 1363.8
CRT -.9877 CRS .9981 CST -.9955
LSA 3440.4 MSA 225.6 SSA 1.4
EL1 3159.4 EL2 214.1 ALF 150.38

LAUNCH DATE JUN 25 1967 FLIGHT TIME 144.00 ARRIVAL DATE NOV 16 1967

HELIOCENTRIC CONIC DISTANCE 408.594

RL 152.06 LAL .00 LOL 272.77 VL 26.876 GAL -2.95 AZL 99.88 HCA 188.24 SMA 129.70 ECC .17971 INC 9.8819 V1 29.299
RP 107.58 LAP 1.41 LOP 100.89 VP 38.002 GAP 3.29 AZP 80.22 TAL 193.70 TAP 21.94 RCA 106.39 APO 153.01 V2 35.227
RC 110.226 GL -55.11 GP 52.73 ZAL 105.14 ZAP 114.48 ETS 38.69 ZAE 116.55 ETE 136.30 ZAC 94.41 ETC 32.49 CLP-133.18

PLANETOCENTRIC CONIC

C3 31.534 VHL 5.615 DLA -41.19 RAL 133.80 RAD 6568.3 VEL 12.366 PTH 2.23 VHP 5.557 DPA 62.13 RAP 185.34 ECC 1.5190

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.74	4 38 44	1649.70	23.61	24.59	13.81	124.79	5 6 14	1049.7	28.00	17.57
121.26	11 33 43	5647.01	23.63	263.88	13.82	124.78	13 7 50	5047.0	28.01	256.85
58.74	4 38 44	1649.70	23.61	24.59	13.81	124.79	5 6 14	1049.7	28.00	17.57
121.26	11 33 43	5647.01	23.63	263.88	13.82	124.78	13 7 50	5047.0	28.01	256.85
58.74	4 38 44	1649.70	23.61	24.59	13.81	124.79	5 6 14	1049.7	28.00	17.57
121.26	11 33 43	5647.01	23.63	263.88	13.82	124.78	13 7 50	5047.0	28.01	256.85

DIFFERENTIAL CORRECTIONS
TDE-2.4420 TRA-1.5277 TC3-1.3553 BAU .6246
RDE 1.4033 RRA .3453 RC3 .5982 FAU .05902
FDE-3.2083 FRA-1.0523 FC3-1.6204 BSP 12184
BDE 2.8165 BRA 1.5662 BC3 1.4815 FSP -1103

MID-COURSE EXECUTION ACCURACY
SGT 3579.9 SGR 1649.5 SG3 346.3
RRT -.9416 RRF -.9950 RTF .9675
SGB 3941.7 R23 .1933 R13 -.9803
SG1 3908.7 SG2 508.7 THA 156.12

ORBIT DETERMINATION ACCURACY
ST 2568.4 SR 1438.9 SS 1585.2
CRT -.9893 CRS .9995 CST -.9935
LSA 3336.7 MSA 214.6 SSA 2.0
EL1 2938.2 EL2 183.8 ALF 150.88

LAUNCH DATE JUN 25 1967 FLIGHT TIME 146.00 ARRIVAL DATE NOV 18 1967

HELIOCENTRIC CONIC DISTANCE 414.740

RL 152.06 LAL .00 LOL 272.77 VL 26.846 GAL -2.77 AZL 97.98 HCA 191.47 SMA 129.50 ECC .18062 INC 7.9811 V1 29.299
RP 107.56 LAP 1.58 LOP 104.13 VP 37.987 GAP 3.64 AZP 82.18 TAL 192.76 TAP 24.22 RCA 106.11 APO 152.89 V2 35.233
RC 112.475 GL -50.48 GP 41.66 ZAL 106.63 ZAP 121.72 ETS 34.77 ZAE 124.06 ETE 141.04 ZAC 98.84 ETC 29.51 CLP-134.74

PLANETOCENTRIC CONIC

C3 23.300 VHL 4.827 DLA -37.22 RAL 136.92 RAD 6567.9 VEL 12.028 PTH 2.15 VHP 4.792 DPA 52.65 RAP 174.43 ECC 1.3835

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.76	5 19 49	1492.87	24.16	11.86	10.72	119.22	5 44 42	892.9	27.86	4.38
115.24	11 17 34	5653.58	24.17	264.80	10.73	119.21	12 51 48	5053.6	27.87	257.32
64.76	5 19 49	1492.87	24.16	11.86	10.72	119.22	5 44 42	892.9	27.86	4.38
115.24	11 17 34	5653.58	24.17	264.80	10.73	119.21	12 51 48	5053.6	27.87	257.32
64.76	5 19 49	1492.87	24.16	11.86	10.72	119.22	5 44 42	892.9	27.86	4.38
115.24	11 17 34	5653.58	24.17	264.80	10.73	119.21	12 51 48	5053.6	27.87	257.32

DIFFERENTIAL CORRECTIONS
TDE-2.0942 TRA-1.3373 TC3-2.0219 BAU .6668
RDE .9732 RRA .2299 RC3 .7033 FAU .08075
FDE-3.4430 FRA-1.0576 FC3-3.0004 BSP 12562
BDE 2.3093 BRA 1.3569 BC3 2.1407 FSP -1496

MID-COURSE EXECUTION ACCURACY
SGT 3736.7 SGR 1383.0 SG3 453.7
RRT -.9443 RRF -.9952 RTF .9660
SGB 3984.4 R23 .2149 R13 -.9750
SG1 3961.2 SG2 429.5 THA 160.50

ORBIT DETERMINATION ACCURACY
ST 2557.4 SR 1159.9 SS 1703.7
CRT -.9892 CRS .9996 CST -.9927
LSA 3277.9 MSA 208.8 SSA 2.8
EL1 2803.8 EL2 155.3 ALF 155.76

LAUNCH DATE JUN 25 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 20 1967

HELIOCENTRIC CONIC DISTANCE 420.882

RL 152.06 LAL .00 LOL 272.77 VL 26.815 GAL -2.58 AZL 96.91 HCA 194.70 SMA 129.29 ECC .18162 INC 6.9077 V1 29.299
RP 107.54 LAP 1.75 LOP 107.37 VP 37.970 GAP 3.98 AZP 83.32 TAL 191.77 TAP 26.47 RCA 105.80 APO 152.77 V2 35.239
RC 114.720 GL -47.07 GP 33.66 ZAL 107.05 ZAP 127.43 ETS 31.81 ZAE 128.41 ETE 146.62 ZAC 101.73 ETC 27.25 CLP-136.91

PLANETOCENTRIC CONIC

C3 19.365 VHL 4.401 DLA -34.54 RAL 139.70 RAD 6567.8 VEL 11.864 PTH 2.10 VHP 4.498 DPA 45.31 RAP 169.39 ECC 1.3187

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.34	5 56 12	1372.92	23.90	2.14	9.62	115.72	6 19 4	772.9	27.16	354.45
110.66	11 3 24	5684.56	23.91	267.12	9.62	115.70	12 38 8	5084.6	27.17	259.43
69.34	5 56 12	1372.92	23.90	2.14	9.62	115.72	6 19 4	772.9	27.16	354.45
110.66	11 3 24	5684.56	23.91	267.12	9.62	115.70	12 38 8	5084.6	27.17	259.43
69.34	5 56 12	1372.92	23.90	2.14	9.62	115.72	6 19 4	772.9	27.16	354.45
110.66	11 3 24	5684.56	23.91	267.12	9.62	115.70	12 38 8	5084.6	27.17	259.43

DIFFERENTIAL CORRECTIONS
TDE-1.8987 TRA-1.1828 TC3-2.5351 BAU .6767
RDE .6917 RRA .1302 RC3 .6371 FAU .08842
FDE-3.3248 FRA -.8589 FC3-3.9531 BSP 12023
BDE 2.0208 BRA 1.1900 BC3 2.6139 FSP -1540

MID-COURSE EXECUTION ACCURACY
SGT 3819.1 SGR 1080.6 SG3 494.0
RRT -.9358 RRF -.9920 RTF .9619
SGB 3969.0 R23 .2364 R13 -.9681
SG1 3951.9 SG2 368.1 THA 165.04

ORBIT DETERMINATION ACCURACY
ST 2535.9 SR 902.9 SS 1690.1
CRT -.9880 CRS .9997 CST -.9917
LSA 3171.6 MSA 207.1 SSA 3.7
EL1 2688.6 EL2 131.3 ALF 160.57

LAUNCH DATE JUN 25 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 22 1967

DISTANCE 427.004

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.783 GAL -2.38 AZL 96.21 HCA 197.94 SMA 129.07 ECC .18275 INC 6.2146 V1 29.299
RP 107.52 LAP 1.91 LOP 110.62 VP 37.952 GAP 4.32 AZP 84.09 TAL 190.76 TAP 28.70 RCA 105.48 APO 152.66 V2 35.244
RC 116.961 GL -44.48 GP 27.80 ZAL 106.81 ZAP 132.02 ETS 29.38 ZAE 130.77 ETE 151.80 ZAC 103.47 ETC 25.34 CLP-139.17

PLANETOCENTRIC CONIC
C3 17.092 VHL 4.134 DLA -32.72 RAL 142.27 RAD 6567.7 VEL 11.768 PTH 2.08 VHP 4.400 DPA 39.71 RAP 166.80 ECC 1.2813

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.88	6 28 20	1276.58	23.52	354.48	9.61	113.43	6 49 37	676.6	26.48	346.69
107.12	10 51 45	5722.54	23.53	269.88	9.62	113.42	12 27 7	5122.5	26.49	262.09
72.88	6 28 20	1276.58	23.52	354.48	9.61	113.43	6 49 37	676.6	26.48	346.69
107.12	10 51 45	5722.54	23.53	269.88	9.62	113.42	12 27 7	5122.5	26.49	262.09
110.00	9 54 8	612.15	17.21	302.28	6.22	120.00	10 4 20	12.2	21.06	295.27
110.00	12 25 7	5434.97	30.17	250.40	12.34	106.89	13 55 42	4835.0	32.18	241.76

DIFFERENTIAL CORRECTIONS
TDE-1.8155 TRA-1.0893 TC3-3.0390 BAU .7060
RDE .5305 RRA .0817 RC3 .5576 FAU .09314
FDE-3.1769 FRA -.7006 FC3-4.7179 BSP 12483
BDE 1.8915 BRA 1.0924 BC3 3.0897 FSP -1640

MID-COURSE EXECUTION ACCURACY
SGT 3983.1 SGR 878.1 SG3 517.9
RRT -.9291 RRF -.9860 RTF .9612
SGB 4078.7 R23 .2358 R13 -.9652
SG1 4066.3 SG2 318.1 THA 168.35

ORBIT DETERMINATION ACCURACY
ST 2574.2 SR 736.4 SS 1679.4
CRT -.9878 CRS .9997 CST -.9913
LSA 3154.0 MSA 203.7 SSA 4.7
EL1 2675.2 EL2 110.3 ALF 164.19

LAUNCH DATE JUN 25 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 24 1967

DISTANCE 433.110

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.750 GAL -2.17 AZL 95.73 HCA 201.18 SMA 128.84 ECC .18397 INC 5.7277 V1 29.299
RP 107.51 LAP 2.07 LOP 113.86 VP 37.932 GAP 4.66 AZP 84.66 TAL 189.70 TAP 30.89 RCA 105.14 APO 152.55 V2 35.248
RC 119.197 GL -42.46 GP 23.41 ZAL 106.09 ZAP 135.82 ETS 27.37 ZAE 131.95 ETE 156.23 ZAC 104.37 ETC 23.70 CLP-141.39

PLANETOCENTRIC CONIC
C3 15.619 VHL 3.952 DLA -31.49 RAL 144.74 RAD 6567.6 VEL 11.705 PTH 2.06 VHP 4.398 DPA 35.34 RAP 165.49 ECC 1.2570

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.62	6 56 34	1198.66	23.21	348.40	10.29	111.90	7 16 33	598.7	25.98	340.56
104.38	10 43 13	5759.30	23.22	272.53	10.29	111.89	12 19 12	5159.3	25.99	264.69
75.62	6 56 34	1198.66	23.21	348.40	10.29	111.90	7 16 33	598.7	25.98	340.56
104.38	10 43 13	5759.30	23.22	272.53	10.29	111.89	12 19 12	5159.3	25.99	264.69
110.00	9 37 22	676.53	14.98	305.94	5.95	121.09	9 48 38	76.5	18.99	299.11
110.00	13 1 36	5329.43	32.01	242.72	13.37	102.70	14 30 25	4729.4	33.42	233.78

DIFFERENTIAL CORRECTIONS
TDE-1.7726 TRA-1.0034 TC3-3.4814 BAU .7332
RDE .4247 RRA .0504 RC3 .4587 FAU .09339
FDE-2.9859 FRA -.5272 FC3-5.1766 BSP 12900
BDE 1.8228 BRA 1.0047 BC3 3.5115 FSP -1659

MID-COURSE EXECUTION ACCURACY
SGT 4133.6 SGR 719.7 SG3 520.4
RRT -.9164 RRF -.9748 RTF .9604
SGB 4195.7 R23 .2261 R13 -.9629
SG1 4186.1 SG2 284.4 THA 170.89

ORBIT DETERMINATION ACCURACY
ST 2621.6 SR 616.4 SS 1648.7
CRT -.9879 CRS .9997 CST -.9910
LSA 3151.3 MSA 200.4 SSA 5.7
EL1 2691.5 EL2 92.9 ALF 166.91

LAUNCH DATE JUN 25 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 26 1967

DISTANCE 439.200

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.715 GAL -1.95 AZL 95.37 HCA 204.43 SMA 128.61 ECC .18532 INC 5.3650 V1 29.299
RP 107.50 LAP 2.22 LOP 117.11 VP 37.911 GAP 5.00 AZP 85.11 TAL 188.62 TAP 33.04 RCA 104.78 APO 152.45 V2 35.252
RC 121.426 GL -40.81 GP 20.05 ZAL 105.03 ZAP 139.05 ETS 25.69 ZAE 132.42 ETE 159.87 ZAC 104.68 ETC 22.29 CLP-143.52

PLANETOCENTRIC CONIC
C3 14.592 VHL 3.820 DLA -30.68 RAL 147.19 RAD 6567.6 VEL 11.661 PTH 2.05 VHP 4.449 DPA 31.85 RAP 164.97 ECC 1.2402

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.68	7 20 55	1137.35	23.02	343.70	11.43	110.86	7 39 53	537.3	25.65	335.82
102.32	10 38 21	5790.15	23.03	274.77	11.44	110.85	12 14 51	5190.2	25.65	266.90
77.68	7 20 55	1137.35	23.02	343.70	11.43	110.86	7 39 53	537.3	25.65	335.82
102.32	10 38 21	5790.15	23.03	274.77	11.44	110.85	12 14 51	5190.2	25.65	266.90
110.00	9 33 0	707.36	13.89	307.66	6.70	121.55	9 44 47	107.4	17.96	300.91
110.00	13 25 27	5268.13	32.83	238.13	14.51	100.10	14 53 15	4668.1	33.88	229.05

DIFFERENTIAL CORRECTIONS
TDE-1.7539 TRA -.9182 TC3-3.8746 BAU .7591
RDE .3533 RRA .0307 RC3 .3594 FAU .09114
FDE-2.7881 FRA -.3553 FC3-5.4072 BSP 13281
BDE 1.7891 BRA .9188 BC3 3.8912 FSP -1630

MID-COURSE EXECUTION ACCURACY
SGT 4271.7 SGR 599.2 SG3 510.7
RRT -.8956 RRF -.9553 RTF .9593
SGB 4313.5 R23 .2086 R13 -.9610
SG1 4305.4 SG2 264.5 THA 172.81

ORBIT DETERMINATION ACCURACY
ST 2675.6 SR 530.2 SS 1609.7
CRT -.9886 CRS .9998 CST -.9907
LSA 3161.1 MSA 196.9 SSA 6.8
EL1 2726.5 EL2 78.5 ALF 168.91

LAUNCH DATE JUN 25 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 28 1967

DISTANCE 445.273

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.680 GAL -1.71 AZL 95.08 HCA 207.67 SMA 128.38 ECC .18677 INC 5.0826 V1 29.299
RP 107.49 LAP 2.36 LOP 120.35 VP 37.889 GAP 5.33 AZP 85.50 TAL 187.50 TAP 35.17 RCA 104.40 APO 152.36 V2 35.255
RC 123.648 GL -39.42 GP 17.42 ZAL 103.69 ZAP 141.88 ETS 24.30 ZAE 132.49 ETE 162.84 ZAC 104.53 ETC 21.05 CLP-145.54

PLANETOCENTRIC CONIC
C3 13.844 VHL 3.721 DLA -30.18 RAL 149.64 RAD 6567.5 VEL 11.629 PTH 2.04 VHP 4.531 DPA 28.98 RAP 164.97 ECC 1.2278

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.11	7 41 18	1092.19	22.93	340.29	12.94	110.17	7 59 30	492.2	25.47	332.39
100.89	10 37 36	5812.07	22.94	276.38	12.95	110.16	12 14 28	5212.1	25.48	268.48
79.11	7 41 18	1092.19	22.93	340.29	12.94	110.17	7 59 30	492.2	25.47	332.39
100.89	10 37 36	5812.07	22.94	276.38	12.95	110.16	12 14 28	5212.1	25.48	268.48
110.00	9 34 54	721.89	13.37	308.46	8.05	121.76	9 46 56	121.9	17.47	301.75
110.00	13 43 9	5230.38	33.25	235.26	15.92	98.45	15 10 20	4630.4	34.06	226.12

DIFFERENTIAL CORRECTIONS
TDE-1.7543 TRA -.8326 TC3-4.2293 BAU .7843
RDE .3049 RRA .0193 RC3 .2679 FAU .08766
FDE-2.6068 FRA -.1981 FC3-5.4816 BSP 13692
BDE 1.7806 BRA .8328 BC3 4.2378 FSP -1587

MID-COURSE EXECUTION ACCURACY
SGT 4404.8 SGR 511.2 SG3 495.4
RRT -.8645 RRF -.9245 RTF .9584
SGB 4434.3 R23 .1854 R13 -.9595
SG1 4427.0 SG2 255.7 THA 174.25

ORBIT DETERMINATION ACCURACY
ST 2739.4 SR 469.6 SS 1572.8
CRT -.9898 CRS .9998 CST -.9907
LSA 3187.7 MSA 193.0 SSA 7.9
EL1 2778.6 EL2 65.9 ALF 170.36

LAUNCH DATE JUN 25 1967 FLIGHT TIME 158.00 ARRIVAL DATE NOV 30 1967

HELIOCENTRIC CONIC DISTANCE 451.328

RL 152.06 LAL .00 LOL 272.77 VL 26.644 GAL -1.47 AZL 94.86 HCA 210.92 SMA 128.14 ECC .18835 INC 4.8554 V1 29.299
RP 107.48 LAP 2.49 LOP 123.60 VP 37.866 GAP 5.66 AZP 85.83 TAL 186.35 TAP 37.26 RCA 104.00 APO 152.27 V2 35.257
RC 125.861 GL -38.21 GP 15.32 ZAL 102.12 ZAP 144.40 ETS 23.14 ZAE 132.33 ETE 165.25 ZAC 104.04 ETC 19.97 CLP-147.46

PLANETOCENTRIC CONIC

C3 13.286 VHL 3.645 DLA -29.90 RAL 152.15 RAD 6567.5 VEL 11.605 PTH 2.03 VHP 4.634 DPA 26.54 RAP 165.35 ECC 1.2186

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.96	7 57 44	1062.70	22.94	338.10	14.75	109.73	8 15 27	462.7	25.42	330.17
100.04	10 41 10	5823.61	22.95	277.24	14.75	109.72	12 18 13	5223.6	25.43	269.32
79.96	7 57 44	1062.70	22.94	338.10	14.75	109.73	8 15 27	462.7	25.42	330.17
100.04	10 41 10	5823.61	22.95	277.24	14.75	109.72	12 18 13	5223.6	25.43	269.32
110.00	9 40 51	726.43	13.20	308.71	9.81	121.82	9 52 58	126.4	17.32	302.02
110.00	13 57 13	5207.88	33.46	233.54	17.63	97.45	15 24 1	4607.9	34.13	224.36

DIFFERENTIAL CORRECTIONS
TDE-1.7682 TRA -.7445 TC3-4.5544 BAU .8096
RDE .2714 RRA .0133 RC3 .1869 FAU .08368
FDE-2.4423 FRA -.0561 FC3-5.4527 BSP 14113
BDE 1.7889 BRA .7446 BC3 4.5583 FSP -1533

MID-COURSE EXECUTION ACCURACY
SGT 4535.5 SGR 448.5 SG3 477.5
RRT -.8213 RRF -.8802 RTF .9576
SGB 4557.7 R23 .1598 R13 -.9583
SG1 4550.5 SG2 255.0 THA 175.34

ORBIT DETERMINATION ACCURACY
ST 2810.6 SR 426.7 SS 1538.0
CRT -.9915 CRS .9997 CST -.9907
LSA 3226.6 MSA 188.7 SSA 9.0
EL1 2842.3 EL2 54.8 ALF 171.44

LAUNCH DATE JUN 25 1967 FLIGHT TIME 160.00 ARRIVAL DATE DEC 2 1967

HELIOCENTRIC CONIC DISTANCE 457.365

RL 152.06 LAL .00 LOL 272.77 VL 26.607 GAL -1.21 AZL 94.67 HCA 214.16 SMA 127.90 ECC .19005 INC 4.6674 V1 29.299
RP 107.48 LAP 2.62 LOP 126.85 VP 37.841 GAP 6.00 AZP 86.14 TAL 185.17 TAP 39.33 RCA 103.59 APO 152.20 V2 35.258
RC 128.066 GL -37.12 GP 13.62 ZAL 100.36 ZAP 146.67 ETS 22.16 ZAE 132.05 ETE 167.21 ZAC 103.28 ETC 19.02 CLP-149.28

PLANETOCENTRIC CONIC

C3 12.867 VHL 3.587 DLA -29.81 RAL 154.73 RAD 6567.5 VEL 11.587 PTH 2.03 VHP 4.752 DPA 24.43 RAP 166.02 ECC 1.2118

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.28	8 10 25	1048.16	23.03	337.05	16.82	109.47	8 27 53	448.2	25.47	329.11
99.72	10 49 3	5824.33	23.04	277.33	16.82	109.46	12 26 8	5224.3	25.48	269.39
100.00	10 32 17	5877.90	21.68	280.76	16.28	111.10	12 10 15	5277.9	24.35	272.99
100.00	11 9 52	5757.86	24.40	272.89	17.32	107.82	12 45 50	5157.9	26.61	264.79
110.00	9 49 44	724.21	13.28	308.59	11.91	121.79	10 1 49	124.2	17.39	301.89
110.00	14 8 54	5196.28	33.56	232.65	19.62	96.93	15 35 30	4596.3	34.15	223.46

DIFFERENTIAL CORRECTIONS
TDE-1.7882 TRA -.6472 TC3-4.8350 BAU .8320
RDE .2478 RRA .0105 RC3 .1146 FAU .07913
FDE-2.2884 FRA .0792 FC3-5.3240 BSP 14435
BDE 1.8053 BRA .6473 BC3 4.8364 FSP -1463

MID-COURSE EXECUTION ACCURACY
SGT 4648.6 SGR 404.7 SG3 456.9
RRT -.7647 RRF -.8213 RTF .9565
SGB 4666.2 R23 .1358 R13 -.9570
SG1 4658.9 SG2 260.2 THA 176.18

ORBIT DETERMINATION ACCURACY
ST 2880.4 SR 395.9 SS 1501.4
CRT -.9935 CRS .9993 CST -.9907
LSA 3267.1 MSA 184.2 SSA 10.1
EL1 2907.1 EL2 44.5 ALF 172.22

LAUNCH DATE JUN 25 1967 FLIGHT TIME 162.00 ARRIVAL DATE DEC 4 1967

HELIOCENTRIC CONIC DISTANCE 463.384

RL 152.06 LAL .00 LOL 272.77 VL 26.569 GAL -.94 AZL 94.51 HCA 217.41 SMA 127.65 ECC .19188 INC 4.5084 V1 29.299
RP 107.48 LAP 2.74 LOP 130.10 VP 37.815 GAP 6.33 AZP 86.42 TAL 183.97 TAP 41.38 RCA 103.16 APO 152.14 V2 35.259
RC 130.261 GL -36.10 GP 12.22 ZAL 98.43 ZAP 148.74 ETS 21.35 ZAE 131.70 ETE 168.82 ZAC 102.31 ETC 18.18 CLP-151.00

PLANETOCENTRIC CONIC

C3 12.560 VHL 3.544 DLA -29.84 RAL 157.39 RAD 6567.5 VEL 11.574 PTH 2.02 VHP 4.879 DPA 22.56 RAP 166.90 ECC 1.2067

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.16	8 20 7	1045.88	23.17	336.94	19.13	109.35	8 37 33	445.9	25.60	328.98
99.84	11 0 35	5816.25	23.18	276.78	19.13	109.34	12 37 31	5216.3	25.61	268.83
100.00	10 47 32	5857.93	22.16	279.48	18.73	110.59	12 25 10	5257.9	24.76	271.65
100.00	11 15 51	5767.48	24.20	273.54	19.51	108.10	12 51 59	5167.5	26.45	265.46
110.00	10 0 53	717.27	13.53	308.21	14.29	121.69	10 12 50	117.3	17.63	301.49
110.00	14 18 59	5192.86	33.58	232.39	21.87	96.78	15 45 32	4592.9	34.16	223.19

DIFFERENTIAL CORRECTIONS
TDE-1.8220 TRA -.5492 TC3-5.0986 BAU .8561
RDE .2325 RRA .0109 RC3 .0544 FAU .07498
FDE-2.1617 FRA .1926 FC3-5.1684 BSP 14888
BDE 1.8368 BRA .5493 BC3 5.0989 FSP -1413

MID-COURSE EXECUTION ACCURACY
SGT 4773.3 SGR 378.5 SG3 438.5
RRT -.7017 RRF -.7537 RTF .9562
SGB 4788.3 R23 .1131 R13 -.9565
SG1 4780.7 SG2 269.2 THA 176.81

ORBIT DETERMINATION ACCURACY
ST 2963.6 SR 376.0 SS 1474.8
CRT -.9956 CRS .9985 CST -.9909
LSA 3326.7 MSA 179.1 SSA 11.2
EL1 2987.1 EL2 34.9 ALF 172.80

LAUNCH DATE JUN 25 1967 FLIGHT TIME 164.00 ARRIVAL DATE DEC 6 1967

HELIOCENTRIC CONIC DISTANCE 469.384

RL 152.06 LAL .00 LOL 272.77 VL 26.531 GAL -.66 AZL 94.37 HCA 220.66 SMA 127.40 ECC .19385 INC 4.3714 V1 29.299
RP 107.48 LAP 2.85 LOP 133.35 VP 37.788 GAP 6.66 AZP 86.68 TAL 182.74 TAP 43.40 RCA 102.71 APO 152.10 V2 35.259
RC 132.447 GL -35.13 GP 11.06 ZAL 96.34 ZAP 150.65 ETS 20.68 ZAE 131.33 ETE 170.16 ZAC 101.15 ETC 17.43 CLP-152.64

PLANETOCENTRIC CONIC

C3 12.346 VHL 3.514 DLA -29.98 RAL 160.15 RAD 6567.5 VEL 11.564 PTH 2.02 VHP 5.016 DPA 20.87 RAP 167.96 ECC 1.2032

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.71	8 27 44	1052.99	23.35	337.53	21.67	109.35	8 45 17	453.0	25.78	329.57
100.29	11 14 56	5801.83	23.37	275.78	21.67	109.34	12 51 38	5201.8	25.79	267.81
79.71	8 27 44	1052.99	23.35	337.53	21.67	109.35	8 45 17	453.0	25.78	329.57
100.29	11 14 56	5801.83	23.37	275.78	21.67	109.34	12 51 38	5201.8	25.79	267.81
110.00	10 13 53	706.91	13.90	307.63	16.93	121.55	10 25 39	106.9	17.97	300.89
110.00	14 27 59	5195.90	33.56	232.62	24.37	96.91	15 54 34	4595.9	34.15	223.43

DIFFERENTIAL CORRECTIONS
TDE-1.8556 TRA -.4375 TC3-5.3089 BAU .8762
RDE .2220 RRA .0122 RC3 .0011 FAU .07038
FDE-2.0369 FRA .3069 FC3-4.9353 BSP 15179
BDE 1.8688 BRA .4377 BC3 5.3089 FSP -1342

MID-COURSE EXECUTION ACCURACY
SGT 4873.7 SGR 362.7 SG3 417.9
RRT -.6319 RRF -.6792 RTF .9551
SGB 4887.1 R23 .0951 R13 -.9553
SG1 4879.1 SG2 280.8 THA 177.30

ORBIT DETERMINATION ACCURACY
ST 3038.0 SR 362.0 SS 1442.1
CRT -.9974 CRS .9970 CST -.9911
LSA 3377.8 MSA 174.4 SSA 12.3
EL1 3059.4 EL2 26.0 ALF 173.22

LAUNCH DATE JUN 25 1967 FLIGHT TIME 166.00 ARRIVAL DATE DEC 8 1967

DISTANCE 475.364

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.492 GAL -.36 AZL 94.25 HCA 223.90 SMA 127.15 ECC .19596 INC 4.2513 V1 29.299
RP 107.48 LAP 2.95 LOP 136.60 VP 37.760 GAP 6.99 AZP 86.93 TAL 181.49 TAP 45.39 RCA 102.24 APO 152.07 V2 35.258
RC 134.624 GL -34.19 GP 10.07 ZAL 94.12 ZAP 152.43 ETS 20.13 ZAE 130.96 ETE 171.26 ZAC 99.85 ETC 16.75 CLP-154.20

PLANETOCENTRIC CONIC
C3 12.216 VHL 3.495 DLA -30.19 RAL 163.00 RAD 6567.5 VEL 11.559 PTH 2.02 VHP 5.159 DPA 19.31 RAP 169.17 ECC 1.2010

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.07	8 34 17	1066.11	23.56	338.59	24.42	109.44	8 52 3	466.1	26.00	330.61
100.93	11 31 8	5784.22	23.57	274.55	24.42	109.43	13 7 32	5184.2	26.01	266.57
79.07	8 34 17	1066.11	23.56	338.59	24.42	109.44	8 52 3	466.1	26.00	330.61
100.93	11 31 8	5784.22	23.57	274.55	24.42	109.43	13 7 32	5184.2	26.01	266.57
110.00	10 28 22	694.27	14.35	306.93	19.80	121.36	10 39 56	94.3	18.40	300.15
110.00	14 36 14	5204.06	33.49	233.25	27.10	97.28	16 2 58	4604.1	34.14	224.07

DIFFERENTIAL CORRECTIONS
TOE-1.9011 TRA -.3247 TC3-5.5033 BAU .8988
RDE .2164 RRA .0153 RC3 -.0413 FAU .06642
FDE-1.9364 FRA .3999 FC3-4.7069 BSP 15647
BDE 1.9134 BRA .3251 BC3 5.3034 FSP -1302

MID-COURSE EXECUTION ACCURACY
SGT 4989.1 SGR 357.2 SG3 400.4
RRT -.5683 RRF -.6097 RTF .9551
SGB 5001.8 R23 .0791 R13 -.9553
SG1 4993.2 SG2 293.6 THA 177.66

ORBIT DETERMINATION ACCURACY
ST 3124.2 SR 354.9 SS 1419.3
CRT -.9986 CRS .9948 CST -.9915
LSA 3445.6 MSA 168.9 SSA 13.3
EL1 3144.2 EL2 18.5 ALF 173.53

LAUNCH DATE JUN 25 1967 FLIGHT TIME 168.00 ARRIVAL DATE DEC 10 1967

DISTANCE 481.324

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.453 GAL -.05 AZL 94.14 HCA 227.15 SMA 126.90 ECC .19823 INC 4.1447 V1 29.299
RP 107.48 LAP 3.04 LOP 139.85 VP 37.732 GAP 7.33 AZP 87.18 TAL 180.22 TAP 47.37 RCA 101.75 APO 152.06 V2 35.256
RC 136.791 GL -33.24 GP 9.24 ZAL 91.78 ZAP 154.09 ETS 19.70 ZAE 130.60 ETE 172.19 ZAC 98.42 ETC 16.14 CLP-155.69

PLANETOCENTRIC CONIC
C3 12.164 VHL 3.488 DLA -30.44 RAL 165.94 RAD 6567.5 VEL 11.556 PTH 2.02 VHP 5.309 DPA 17.85 RAP 170.50 ECC 1.2002

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.32	8 40 28	1082.92	23.77	339.93	27.38	109.60	8 58 31	482.9	26.23	331.94
101.68	11 48 28	5765.62	23.79	273.24	27.38	109.58	13 24 33	5165.6	26.24	265.25
78.32	8 40 28	1082.92	23.77	339.93	27.38	109.60	8 58 31	482.9	26.23	331.94
101.68	11 48 28	5765.62	23.79	273.24	27.38	109.58	13 24 33	5165.6	26.24	265.25
110.00	10 44 5	680.23	14.85	306.14	22.90	121.15	10 55 25	80.2	18.86	299.33
110.00	14 44 1	5216.32	33.38	234.19	30.04	97.83	16 10 57	4616.3	34.10	225.02

DIFFERENTIAL CORRECTIONS
TOE-1.9553 TRA -.2123 TC3-5.6877 BAU .9251
RDE .2145 RRA .0195 RC3 -.0723 FAU .06342
FDE-1.8512 FRA .4757 FC3-4.5135 BSP 16205
BDE 1.9671 BRA .2132 BC3 5.6882 FSP -1279

MID-COURSE EXECUTION ACCURACY
SGT 5120.8 SGR 357.9 SG3 386.2
RRT -.5167 RRF -.5496 RTF .9564
SGB 5133.3 R23 .0627 R13 -.9566
SG1 5124.1 SG2 306.2 THA 177.92

ORBIT DETERMINATION ACCURACY
ST 3216.7 SR 352.6 SS 1401.3
CRT -.9991 CRS .9921 CST -.9919
LSA 3522.5 MSA 163.0 SSA 14.4
EL1 3235.9 EL2 14.6 ALF 173.75

LAUNCH DATE JUN 25 1967 FLIGHT TIME 170.00 ARRIVAL DATE DEC 12 1967

DISTANCE 487.264

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.414 GAL .27 AZL 94.05 HCA 230.40 SMA 126.65 ECC .20067 INC 4.0487 V1 29.299
RP 107.49 LAP 3.12 LOP 143.10 VP 37.702 GAP 7.67 AZP 87.42 TAL 178.93 TAP 49.32 RCA 101.24 APO 152.06 V2 35.254
RC 138.949 GL -32.29 GP 8.52 ZAL 89.33 ZAP 155.66 ETS 19.36 ZAE 130.25 ETE 172.98 ZAC 96.87 ETC 15.59 CLP-157.11

PLANETOCENTRIC CONIC
C3 12.190 VHL 3.491 DLA -30.73 RAL 168.99 RAD 6567.5 VEL 11.558 PTH 2.02 VHP 5.465 DPA 16.47 RAP 171.92 ECC 1.2006

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.53	8 46 51	1101.61	23.98	341.41	30.53	109.82	9 5 13	501.6	26.46	333.42
102.47	12 6 21	5747.83	23.99	271.99	30.54	109.80	13 42 9	5147.8	26.47	264.00
77.53	8 46 51	1101.61	23.98	341.41	30.53	109.82	9 5 13	501.6	26.46	333.42
102.47	12 6 21	5747.83	23.99	271.99	30.54	109.80	13 42 9	5147.8	26.47	264.00
110.00	11 0 49	665.52	15.36	305.32	26.20	120.92	11 11 54	65.5	19.35	298.46
110.00	14 51 34	5231.92	33.23	235.38	33.19	98.52	16 18 45	4631.9	34.05	226.24

DIFFERENTIAL CORRECTIONS
TOE-1.9874 TRA -.0625 TC3-5.7314 BAU .9342
RDE .2133 RRA .0221 RC3 -.1065 FAU .05802
FDE-1.7362 FRA .5798 FC3-4.1208 BSP 16102
BDE 1.9988 BRA .0663 BC3 5.7324 FSP -1161

MID-COURSE EXECUTION ACCURACY
SGT 5164.1 SGR 360.4 SG3 362.7
RRT -.4563 RRF -.4870 RTF .9538
SGB 5176.7 R23 .0563 R13 -.9539
SG1 5166.7 SG2 320.5 THA 178.17

ORBIT DETERMINATION ACCURACY
ST 3263.8 SR 350.3 SS 1355.1
CRT -.9988 CRS .9878 CST -.9919
LSA 3547.7 MSA 159.5 SSA 15.4
EL1 3282.5 EL2 17.4 ALF 173.88

LAUNCH DATE JUN 25 1967 FLIGHT TIME 172.00 ARRIVAL DATE DEC 14 1967

DISTANCE 493.181

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.374 GAL .61 AZL 93.96 HCA 233.64 SMA 126.40 ECC .20327 INC 3.9613 V1 29.299
RP 107.50 LAP 3.19 LOP 146.35 VP 37.671 GAP 8.01 AZP 87.65 TAL 177.62 TAP 51.26 RCA 100.70 APO 152.09 V2 35.251
RC 141.095 GL -31.31 GP 7.90 ZAL 86.79 ZAP 157.14 ETS 19.12 ZAE 129.93 ETE 173.64 ZAC 95.24 ETC 15.09 CLP-158.47

PLANETOCENTRIC CONIC
C3 12.293 VHL 3.506 DLA -31.02 RAL 172.11 RAD 6567.5 VEL 11.562 PTH 2.02 VHP 5.627 DPA 15.15 RAP 173.44 ECC 1.2023

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.76	8 53 48	1120.87	24.16	342.93	33.88	110.08	9 12 29	520.9	26.67	334.93
103.24	12 24 21	5732.15	24.17	270.88	33.88	110.07	13 59 54	5132.1	26.68	262.89
76.76	8 53 48	1120.87	24.16	342.93	33.88	110.08	9 12 29	520.9	26.67	334.93
103.24	12 24 21	5732.15	24.17	270.88	33.88	110.07	13 59 54	5132.1	26.68	262.89
110.00	11 18 15	651.08	15.87	304.50	29.69	120.68	11 29 6	51.1	19.82	297.61
110.00	14 59 5	5249.94	33.04	236.75	36.53	99.31	16 26 35	4649.9	33.97	227.64

DIFFERENTIAL CORRECTIONS
TOE-2.0376 TRA .0800 TC3-5.7990 BAU .9533
RDE .2160 RRA .0258 RC3 -.1270 FAU .05446
FDE-1.6539 FRA .6575 FC3-3.8353 BSP 16476
BDE 2.0491 BRA .0841 BC3 5.8004 FSP -1121

MID-COURSE EXECUTION ACCURACY
SGT 5258.0 SGR 367.3 SG3 346.8
RRT -.4170 RRF -.4426 RTF .9537
SGB 5270.8 R23 .0476 R13 -.9538
SG1 5260.3 SG2 333.7 THA 178.32

ORBIT DETERMINATION ACCURACY
ST 3332.3 SR 353.2 SS 1327.2
CRT -.9975 CRS .9831 CST -.9922
LSA 3600.9 MSA 155.4 SSA 16.3
EL1 3350.9 EL2 24.9 ALF 173.96

LAUNCH DATE JUN 25 1967 FLIGHT TIME 174.00 ARRIVAL DATE DEC 16 1967

HELIOCENTRIC CONIC DISTANCE 499.076

RL 152.06 LAL .00 LOL 272.77 VL 26.335 GAL .96 AZL 93.88 HCA 236.89 SMA 126.15 ECC .20607 INC 3.8809 V1 29.299
RP 107.51 LAP 3.25 LOP 149.60 VP 37.640 GAP 8.35 AZP 87.88 TAL 176.30 TAP 53.18 RCA 100.15 APO 152.14 V2 35.247
RC 143.232 GL -30.30 GP 7.36 ZAL 84.18 ZAP 158.54 ETS 18.97 ZAE 129.63 ETE 174.21 ZAC 93.53 ETC 14.64 CLP-159.78

PLANETOCENTRIC CONIC

C3 12.477 VHL 3.532 DLA -31.31 RAL 175.32 RAD 6567.5 VEL 11.570 PTH 2.02 VHP 5.795 DPA 13.87 RAP 175.02 ECC 1.2053

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.04	9 1 29	1140.10	24.30	344.43	37.39	110.39	9 20 29	540.1	26.85	336.44
103.96	12 42 15	5719.22	24.31	269.96	37.39	110.37	14 17 34	5119.2	26.86	261.97
76.04	9 1 29	1140.10	24.30	344.43	37.39	110.39	9 20 29	540.1	26.85	336.44
103.96	12 42 15	5719.22	24.31	269.96	37.39	110.37	14 17 34	5119.2	26.86	261.97
110.00	11 36 7	637.67	16.33	303.74	33.36	120.46	11 46 44	37.7	20.25	296.81
110.00	15 6 47	5269.65	32.81	238.25	40.03	100.16	16 34 37	4669.7	33.87	229.17

DIFFERENTIAL CORRECTIONS
TOE-2.0869 TRA .2324 TC3-5.8185 BAU .9708
ROE .2206 RRA .0293 RC3 -.1416 FAU .05100
FDE-1.5743 FRA .7296 FC3-3.5387 BSP 16773
BDE 2.0985 BRA .2343 BC3 5.8202 FSP -1073

MID-COURSE EXECUTION ACCURACY
SGT 5343.2 SGR 375.6 SG3 331.1
RRT -.3863 RRF -.4073 RTF .9537
SGB 5356.3 R23 .0404 R13 -.9538
SG1 5345.1 SG2 346.3 THA 178.44

ORBIT DETERMINATION ACCURACY
ST 3389.9 SR 358.2 SS 1295.8
CRT -.9953 CRS .9778 CST -.9925
LSA 3643.5 MSA 152.0 SSA 17.2
EL1 3408.6 EL2 34.4 ALF 174.00

LAUNCH DATE JUN 25 1967 FLIGHT TIME 176.00 ARRIVAL DATE DEC 18 1967

HELIOCENTRIC CONIC DISTANCE 504.947

RL 152.06 LAL .00 LOL 272.77 VL 26.295 GAL 1.33 AZL 93.81 HCA 240.13 SMA 125.89 ECC .20906 INC 3.8063 V1 29.299
RP 107.53 LAP 3.30 LOP 152.85 VP 37.607 GAP 8.71 AZP 88.10 TAL 174.96 TAP 55.09 RCA 99.58 APO 152.21 V2 35.243
RC 145.356 GL -29.26 GP 6.89 ZAL 81.51 ZAP 159.87 ETS 18.92 ZAE 129.35 ETE 174.69 ZAC 91.74 ETC 14.23 CLP-161.04

PLANETOCENTRIC CONIC

C3 12.745 VHL 3.570 DLA -31.58 RAL 178.59 RAD 6567.5 VEL 11.582 PTH 2.03 VHP 5.968 DPA 12.64 RAP 176.67 ECC 1.2098

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.40	9 10 3	1158.68	24.39	345.87	41.06	110.71	9 29 22	558.7	26.98	337.89
104.60	12 59 45	5709.74	24.40	269.28	41.06	110.70	14 34 55	5109.7	26.99	261.30
75.40	9 10 3	1158.68	24.39	345.87	41.06	110.71	9 29 22	558.7	26.98	337.89
104.60	12 59 45	5709.74	24.40	269.28	41.06	110.70	14 34 55	5109.7	26.99	261.30
110.00	11 54 7	626.15	16.73	303.08	37.16	120.25	12 4 33	26.1	20.62	296.12
110.00	15 14 52	5290.27	32.56	239.80	43.70	101.05	16 43 2	4690.3	33.74	230.76

DIFFERENTIAL CORRECTIONS
TOE-2.1354 TRA .3942 TC3-5.7909 BAU .9871
ROE .2270 RRA .0326 RC3 -.1506 FAU .04765
FDE-1.4982 FRA .7957 FC3-3.2365 BSP 17046
BDE 2.1474 BRA .3955 BC3 5.7928 FSP -1026

MID-COURSE EXECUTION ACCURACY
SGT 5421.5 SGR 384.8 SG3 315.9
RRT -.3635 RRF -.3806 RTF .9539
SGB 5435.1 R23 .0347 R13 -.9539
SG1 5423.3 SG2 358.3 THA 178.52

ORBIT DETERMINATION ACCURACY
ST 3436.6 SR 364.8 SS 1261.9
CRT -.9923 CRS .9718 CST -.9928
LSA 3676.0 MSA 149.4 SSA 17.9
EL1 3455.6 EL2 44.8 ALF 173.99

LAUNCH DATE JUN 25 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 20 1967

HELIOCENTRIC CONIC DISTANCE 510.792

RL 152.06 LAL .00 LOL 272.77 VL 26.255 GAL 1.72 AZL 93.74 HCA 243.38 SMA 125.64 ECC .21227 INC 3.7364 V1 29.299
RP 107.54 LAP 3.34 LOP 156.10 VP 37.575 GAP 9.06 AZP 88.32 TAL 173.60 TAP 56.98 RCA 98.97 APO 152.31 V2 35.237
RC 147.469 GL -28.19 GP 6.47 ZAL 78.80 ZAP 161.15 ETS 18.95 ZAE 129.09 ETE 175.11 ZAC 89.89 ETC 13.86 CLP-162.26

PLANETOCENTRIC CONIC

C3 13.105 VHL 3.620 DLA -31.81 RAL 181.90 RAD 6567.5 VEL 11.597 PTH 2.03 VHP 6.149 DPA 11.43 RAP 178.38 ECC 1.2157

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.86	9 19 33	1176.33	24.41	347.22	44.86	111.06	9 39 10	576.3	27.05	339.26
105.14	13 16 42	5704.05	24.42	268.86	44.87	111.05	14 51 46	5104.1	27.06	260.89
74.86	9 19 33	1176.33	24.41	347.22	44.86	111.06	9 39 10	576.3	27.05	339.26
105.14	13 16 42	5704.05	24.42	268.86	44.87	111.05	14 51 46	5104.1	27.06	260.89
110.00	12 11 55	617.39	17.03	302.58	41.09	120.10	12 22 12	17.4	20.90	295.59
110.00	15 23 31	5310.99	32.27	241.35	47.50	101.93	16 52 2	4711.0	33.58	232.36

DIFFERENTIAL CORRECTIONS
TOE-2.1803 TRA .5697 TC3-5.7093 BAU 1.0006
ROE .2351 RRA .0351 RC3 -.1550 FAU .04432
FDE-1.4247 FRA .8604 FC3-2.9280 BSP 17235
BDE 2.1930 BRA .5708 BC3 5.7114 FSP -977

MID-COURSE EXECUTION ACCURACY
SGT 5488.3 SGR 394.2 SG3 301.1
RRT -.3471 RRF -.3614 RTF .9538
SGB 5502.4 R23 .0307 R13 -.9539
SG1 5490.0 SG2 369.6 THA 178.57

ORBIT DETERMINATION ACCURACY
ST 3467.7 SR 372.7 SS 1225.4
CRT -.9886 CRS .9650 CST -.9930
LSA 3693.7 MSA 148.1 SSA 18.5
EL1 3487.3 EL2 55.9 ALF 173.93

LAUNCH DATE JUN 25 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 22 1967

HELIOCENTRIC CONIC DISTANCE 516.609

RL 152.06 LAL .00 LOL 272.77 VL 26.214 GAL 2.12 AZL 93.67 HCA 246.62 SMA 125.39 ECC .21570 INC 3.6704 V1 29.299
RP 107.56 LAP 3.37 LOP 159.35 VP 37.541 GAP 9.43 AZP 88.54 TAL 172.24 TAP 58.86 RCA 98.35 APO 152.44 V2 35.231
RC 149.570 GL -27.09 GP 6.10 ZAL 76.06 ZAP 162.38 ETS 19.09 ZAE 128.85 ETE 175.47 ZAC 87.99 ETC 13.53 CLP-163.43

PLANETOCENTRIC CONIC

C3 13.562 VHL 3.683 DLA -32.01 RAL 185.25 RAD 6567.5 VEL 11.617 PTH 2.04 VHP 6.336 DPA 10.25 RAP 180.13 ECC 1.2232

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.42	9 29 58	1192.96	24.37	348.47	48.79	111.42	9 49 51	593.0	27.06	340.52
105.58	13 32 59	5702.32	24.38	268.71	48.79	111.41	15 8 2	5102.3	27.07	260.76
74.42	9 29 58	1192.96	24.37	348.47	48.79	111.42	9 49 51	593.0	27.06	340.52
105.58	13 32 59	5702.32	24.38	268.71	48.79	111.41	15 8 2	5102.3	27.07	260.76
110.00	12 29 10	612.30	17.20	302.28	45.10	120.01	12 39 22	12.3	21.06	295.28
110.00	15 32 58	5330.98	31.98	242.84	51.44	102.76	17 1 49	4731.0	33.41	233.90

DIFFERENTIAL CORRECTIONS
TOE-2.2263 TRA .7526 TC3-5.5967 BAU 1.0152
ROE .2450 RRA .0370 RC3 -.1545 FAU .04133
FDE-1.3570 FRA .9191 FC3-2.6380 BSP 17494
BDE 2.2397 BRA .7535 BC3 5.5989 FSP -936

MID-COURSE EXECUTION ACCURACY
SGT 5558.5 SGR 403.6 SG3 287.5
RRT -.3377 RRF -.3493 RTF .9541
SGB 5573.1 R23 .0272 R13 -.9542
SG1 5560.1 SG2 379.8 THA 178.59

ORBIT DETERMINATION ACCURACY
ST 3490.5 SR 381.8 SS 1188.9
CRT -.9842 CRS .9580 CST -.9932
LSA 3704.2 MSA 147.9 SSA 18.8
EL1 3510.7 EL2 67.2 ALF 173.85

LAUNCH DATE JUN 25 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 24 1967

DISTANCE 522.397

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.174 GAL 2.54 AZL 93.61 HCA 249.86 SMA 125.14 ECC .21939 INC 3.6076 V1 29.299
RP 107.58 LAP 3.39 LOP 162.60 VP 37.507 GAP 9.81 AZP 88.76 TAL 170.87 TAP 60.73 RCA 97.69 APO 152.60 V2 35.225
RC 151.657 GL -25.96 GP 5.77 ZAL 73.32 ZAP 163.55 ETS 19.34 ZAE 128.63 ETE 175.78 ZAC 86.04 ETC 13.23 CLP-164.57

PLANETOCENTRIC CONIC
C3 14.127 VHL 3.759 DLA -32.15 RAL 188.61 RAD 6567.6 VEL 11.641 PTH 2.04 VHP 6.531 OPA 9.09 RAP 181.93 ECC 1.2325

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.11	9 41 16	1208.44	24.25	349.60	52.81	111.78	10 1 24	608.4	26.98	341.67
105.89	13 48 28	5704.73	24.26	268.84	52.81	111.77	15 23 33	5104.7	26.99	260.92
74.11	9 41 16	1208.44	24.25	349.60	52.81	111.78	10 1 24	608.4	26.98	341.67
105.89	13 48 28	5704.73	24.26	268.84	52.81	111.77	15 23 33	5104.7	26.99	260.92
110.00	12 45 32	611.72	17.22	302.25	49.17	120.00	12 55 44	11.7	21.08	295.25
110.00	15 43 22	5349.45	31.70	244.20	55.49	103.52	17 12 32	4749.4	33.23	235.31

DIFFERENTIAL CORRECTIONS
TDE-2.2699 TRA .9463 TC3-5.4455 BAU 1.0289
RDE .2565 RRA .0382 RC3 -.1501 FAU .03850
FDE-1.2928 FRA .9740 FC3-2.3595 BSP 17750
BDE 2.2843 BRA .9470 BC3 5.4475 FSP -899

MID-COURSE EXECUTION ACCURACY
SGT 5624.2 SGR 412.7 SG3 274.7
RRT -.3333 RRF -.3428 RTF .9546
SGB 5639.3 R23 .0245 R13 -.9547
SG1 5625.9 SG2 389.0 THA 178.59

ORBIT DETERMINATION ACCURACY
ST 3499.8 SR 391.5 SS 1151.4
CRT -.9792 CRS .9906 CST -.9934
LSA 3702.1 MSA 148.9 SSA 19.0
EL1 3520.8 EL2 78.9 ALF 173.75

LAUNCH DATE JUN 25 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 26 1967

DISTANCE 528.153

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.134 GAL 2.99 AZL 93.55 HCA 253.10 SMA 124.90 ECC .22334 INC 3.5474 V1 29.299
RP 107.60 LAP 3.39 LOP 165.85 VP 37.472 GAP 10.19 AZP 88.97 TAL 169.49 TAP 62.59 RCA 97.00 APO 152.79 V2 35.217
RC 153.730 GL -24.81 GP 5.48 ZAL 70.58 ZAP 164.69 ETS 19.71 ZAE 128.43 ETE 176.04 ZAC 84.05 ETC 12.96 CLP-165.68

PLANETOCENTRIC CONIC
C3 14.811 VHL 3.848 DLA -32.23 RAL 191.95 RAD 6567.6 VEL 11.670 PTH 2.05 VHP 6.734 OPA 7.94 RAP 183.76 ECC 1.2437

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.92	9 53 23	1222.75	24.04	350.60	56.90	112.14	10 13 45	622.8	26.83	342.71
106.08	14 3 3	5711.37	24.05	269.26	56.91	112.13	15 38 14	5111.4	26.84	261.37
73.92	9 53 23	1222.75	24.04	350.60	56.90	112.14	10 13 45	622.8	26.83	342.71
106.08	14 3 3	5711.37	24.05	269.26	56.91	112.13	15 38 14	5111.4	26.84	261.37
110.00	13 0 43	616.35	17.06	302.52	53.26	120.08	13 10 59	16.4	20.93	295.53
110.00	15 54 53	5365.77	31.43	245.40	59.64	104.19	17 24 19	4765.8	33.06	236.55

DIFFERENTIAL CORRECTIONS
TDE-2.3087 TRA 1.1524 TC3-5.2550 BAU 1.0409
RDE .2693 RRA .0384 RC3 -.1429 FAU .03577
FDE-1.2295 FRA 1.0272 FC3-2.0907 BSP 17966
BDE 2.3243 BRA 1.1531 BC3 5.2569 FSP -862

MID-COURSE EXECUTION ACCURACY
SGT 5682.2 SGR 421.2 SG3 262.2
RRT -.3327 RRF -.3402 RTF .9550
SGB 5697.8 R23 .0222 R13 -.9551
SG1 5683.9 SG2 397.1 THA 178.58

ORBIT DETERMINATION ACCURACY
ST 3492.7 SR 401.4 SS 1111.2
CRT -.9737 CRS .9427 CST -.9936
LSA 3683.9 MSA 151.4 SSA 19.0
EL1 3514.5 EL2 90.8 ALF 173.61

LAUNCH DATE JUN 25 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 28 1967

DISTANCE 533.875

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.094 GAL 3.45 AZL 93.49 HCA 256.34 SMA 124.65 ECC .22759 INC 3.4892 V1 29.299
RP 107.63 LAP 3.39 LOP 169.09 VP 37.436 GAP 10.59 AZP 89.18 TAL 168.10 TAP 64.45 RCA 96.28 APO 153.02 V2 35.210
RC 155.789 GL -23.64 GP 5.22 ZAL 67.87 ZAP 165.79 ETS 20.21 ZAE 128.24 ETE 176.28 ZAC 82.02 ETC 12.73 CLP-166.76

PLANETOCENTRIC CONIC
C3 15.626 VHL 3.953 DLA -32.25 RAL 195.27 RAD 6567.6 VEL 11.705 PTH 2.06 VHP 6.947 OPA 6.81 RAP 185.62 ECC 1.2572

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.87	10 6 14	1235.91	23.74	351.47	61.06	112.50	10 26 50	635.9	26.58	343.62
106.13	14 16 38	5722.25	23.76	269.96	61.06	112.48	15 52 1	5122.3	26.59	262.11
73.87	10 6 14	1235.91	23.74	351.47	61.06	112.50	10 26 50	635.9	26.58	343.62
106.13	14 16 38	5722.25	23.76	269.96	61.06	112.48	15 52 1	5122.3	26.59	262.11
110.00	13 14 29	626.67	16.71	303.11	57.34	120.26	13 24 55	26.7	20.60	296.15
110.00	16 7 35	5379.49	31.20	246.40	63.88	104.74	17 37 14	4779.5	32.90	237.59

DIFFERENTIAL CORRECTIONS
TDE-2.3408 TRA 1.3738 TC3-5.0254 BAU 1.0502
RDE .2833 RRA .0373 RC3 -.1337 FAU .03305
FDE-1.1664 FRA 1.0806 FC3-1.8309 BSP 18096
BDE 2.3579 BRA 1.3743 BC3 5.0271 FSP -822

MID-COURSE EXECUTION ACCURACY
SGT 5730.7 SGR 428.8 SG3 250.2
RRT -.3347 RRF -.3404 RTF .9551
SGB 5746.7 R23 .0203 R13 -.9551
SG1 5732.5 SG2 403.9 THA 178.56

ORBIT DETERMINATION ACCURACY
ST 3467.7 SR 411.1 SS 1068.4
CRT -.9676 CRS .9339 CST -.9937
LSA 3648.4 MSA 155.8 SSA 18.8
EL1 3490.5 EL2 103.2 ALF 173.45

LAUNCH DATE JUN 25 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 30 1967

DISTANCE 539.559

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 26.054 GAL 3.94 AZL 93.43 HCA 259.58 SMA 124.41 ECC .23215 INC 3.4326 V1 29.299
RP 107.65 LAP 3.38 LOP 172.33 VP 37.401 GAP 11.00 AZP 89.38 TAL 166.71 TAP 66.29 RCA 95.53 APO 153.29 V2 35.201
RC 157.834 GL -22.47 GP 4.99 ZAL 65.20 ZAP 166.85 ETS 20.86 ZAE 128.07 ETE 176.48 ZAC 79.96 ETC 12.53 CLP-167.82

PLANETOCENTRIC CONIC
C3 16.586 VHL 4.073 DLA -32.22 RAL 198.53 RAD 6567.7 VEL 11.746 PTH 2.07 VHP 7.169 OPA 5.70 RAP 187.51 ECC 1.2730

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.95	10 19 48	1247.85	23.36	352.20	65.24	112.84	10 40 35	647.9	26.25	344.40
106.05	14 29 9	5737.47	23.38	270.94	65.25	112.83	16 4 46	5137.5	26.26	263.14
73.95	10 19 48	1247.85	23.36	352.20	65.24	112.84	10 40 35	647.9	26.25	344.40
106.05	14 29 9	5737.47	23.38	270.94	65.25	112.83	16 4 46	5137.5	26.26	263.14
110.00	13 26 41	642.86	16.15	304.03	61.39	120.54	13 37 24	42.9	20.08	297.12
110.00	16 21 25	5390.47	31.01	247.20	68.20	105.17	17 51 16	4790.5	32.77	238.42

DIFFERENTIAL CORRECTIONS
TDE-2.3730 TRA 1.6034 TC3-4.7798 BAU 1.0602
RDE .2987 RRA .0354 RC3 -.1224 FAU .03061
FDE-1.1093 FRA 1.1288 FC3-1.5976 BSP 18310
BDE 2.3917 BRA 1.6038 BC3 4.7813 FSP -791

MID-COURSE EXECUTION ACCURACY
SGT 5780.3 SGR 435.9 SG3 239.0
RRT -.3406 RRF -.3448 RTF .9557
SGB 5796.7 R23 .0188 R13 -.9557
SG1 5782.2 SG2 409.7 THA 178.52

ORBIT DETERMINATION ACCURACY
ST 3434.9 SR 420.6 SS 1027.9
CRT -.9610 CRS .9251 CST -.9938
LSA 3606.4 MSA 160.9 SSA 18.5
EL1 3458.6 EL2 115.5 ALF 173.28

LAUNCH DATE JUN 25 1967 FLIGHT TIME 190.00 ARRIVAL DATE JAN 1 1968

HELIOCENTRIC CONIC DISTANCE 545.202

RL 152.06 LAL .00 LOL 272.77 VL 26.014 GAL 4.46 AZL 93.38 HCA 262.81 SMA 124.17 ECC .23706 INC 3.3772 V1 29.299
RP 107.68 LAP 3.35 LOP 175.58 VP 37.364 GAP 11.43 AZP 89.58 TAL 165.32 TAP 68.14 RCA 94.73 APO 153.60 V2 35.192
RC 159.863 GL -21.29 GP 4.77 ZAL 62.58 ZAP 167.88 ETS 21.71 ZAE 127.90 ETE 176.65 ZAC 77.88 ETC 12.36 CLP-168.85

PLANETOCENTRIC CONIC

C3 17.711 VHL 4.208 DLA -32.12 RAL 201.73 RAD 6567.7 VEL 11.794 PTH 2.09 VHP 7.402 DPA 4.59 RAP 189.43 ECC 1.2915

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.17	10 33 59	1258.50	22.89	352.80	69.44	113.17	10 54 58	658.5	25.83	345.05
105.83	14 40 27	5757.11	22.91	272.23	69.45	113.16	16 16 25	5157.1	25.84	264.47
74.17	10 33 59	1258.50	22.89	352.80	69.44	113.17	10 54 58	658.5	25.83	345.05
105.83	14 40 27	5757.11	22.91	272.23	69.45	113.16	16 16 25	5157.1	25.84	264.47
110.00	13 37 20	664.74	15.39	305.27	65.39	120.91	13 48 25	64.7	19.37	298.42
110.00	16 36 17	5398.87	30.85	247.81	72.57	105.50	18 6 16	4798.9	32.67	239.06

DIFFERENTIAL CORRECTIONS
TOE-2.4003 TRA 1.8470 TC3-4.5113 BAU 1.0685
RDE .3152 RRA .0321 RC3 -.1101 FAU .02825
FDE-1.0541 FRA 1.1763 FC3-1.3811 BSP 18485
BDE 2.4209 BRA 1.8473 BC3 4.5126 FSP -759

MID-COURSE EXECUTION ACCURACY
SGT 5823.4 SGR 442.0 SG3 228.4
RRT -.3487 RRF -.3515 RTF .9562
SGB 5840.2 R23 .0175 R13 -.9562
SG1 5825.5 SG2 414.1 THA 178.48

ORBIT DETERMINATION ACCURACY
ST 3389.0 SR 429.4 SS 987.2
CRT -.9539 CRS .9157 CST -.9939
LSA 3551.9 MSA 167.1 SSA 18.1
EL1 3413.7 EL2 127.9 ALF 173.10

LAUNCH DATE JUN 25 1967 FLIGHT TIME 192.00 ARRIVAL DATE JAN 3 1968

HELIOCENTRIC CONIC DISTANCE 550.798

RL 152.06 LAL .00 LOL 272.77 VL 25.974 GAL 5.00 AZL 93.32 HCA 266.05 SMA 123.93 ECC .24234 INC 3.3226 V1 29.299
RP 107.71 LAP 3.31 LOP 178.82 VP 37.328 GAP 11.87 AZP 89.77 TAL 163.93 TAP 69.98 RCA 93.89 APO 153.96 V2 35.183
RC 161.876 GL -20.11 GP 4.58 ZAL 60.02 ZAP 168.88 ETS 22.77 ZAE 127.75 ETE 176.80 ZAC 75.77 ETC 12.22 CLP-169.86

PLANETOCENTRIC CONIC

C3 19.020 VHL 4.361 DLA -31.96 RAL 204.85 RAD 6567.8 VEL 11.849 PTH 2.10 VHP 7.648 DPA 3.50 RAP 191.37 ECC 1.3130

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.51	10 48 45	1267.93	22.34	353.26	73.64	113.48	11 9 53	667.9	25.32	345.56
105.49	14 50 33	5781.08	22.35	273.79	73.64	113.47	16 26 54	5181.1	25.33	266.09
74.51	10 48 45	1267.93	22.34	353.26	73.64	113.48	11 9 53	667.9	25.32	345.56
105.49	14 50 33	5781.08	22.35	273.79	73.64	113.47	16 26 54	5181.1	25.33	266.09
110.00	13 46 29	691.89	14.43	306.80	69.32	121.33	13 58 1	91.9	18.48	300.01
110.00	16 51 59	5405.11	30.74	248.26	76.98	105.75	18 22 4	4805.1	32.59	239.53

DIFFERENTIAL CORRECTIONS
TOE-2.4237 TRA 2.1044 TC3-4.2269 BAU 1.0751
RDE .3327 RRA .0274 RC3 -.0974 FAU .02599
FDE-1.0013 FRA 1.2226 FC3-1.1832 BSP 18650
BDE 2.4464 BRA 2.1046 BC3 4.2280 FSP -729

MID-COURSE EXECUTION ACCURACY
SGT 5861.1 SGR 447.3 SG3 218.2
RRT -.3586 RRF -.3601 RTF .9567
SGB 5878.1 R23 .0164 R13 -.9567
SG1 5863.3 SG2 417.4 THA 178.42

ORBIT DETERMINATION ACCURACY
ST 3332.7 SR 437.3 SS 947.0
CRT -.9463 CRS .9058 CST -.9939
LSA 3487.7 MSA 174.4 SSA 17.6
EL1 3358.3 EL2 140.3 ALF 172.91

LAUNCH DATE JUN 25 1967 FLIGHT TIME 194.00 ARRIVAL DATE JAN 5 1968

HELIOCENTRIC CONIC DISTANCE 556.344

RL 152.06 LAL .00 LOL 272.77 VL 25.935 GAL 5.57 AZL 93.27 HCA 269.28 SMA 123.69 ECC .24804 INC 3.2685 V1 29.299
RP 107.74 LAP 3.27 LOP 182.05 VP 37.291 GAP 12.34 AZP 89.96 TAL 162.54 TAP 71.82 RCA 93.01 APO 154.37 V2 35.172
RC 163.875 GL -18.95 GP 4.41 ZAL 57.53 ZAP 169.86 ETS 24.12 ZAE 127.60 ETE 176.93 ZAC 73.65 ETC 12.11 CLP-170.86

PLANETOCENTRIC CONIC

C3 20.538 VHL 4.532 DLA -31.76 RAL 207.86 RAD 6567.8 VEL 11.913 PTH 2.12 VHP 7.907 DPA 2.42 RAP 193.33 ECC 1.3380

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.99	11 4 2	1275.98	21.71	353.57	77.82	113.76	11 25 18	676.0	24.73	345.93
105.01	14 59 20	5809.50	21.72	275.65	77.82	113.76	16 36 9	5209.5	24.74	268.01
74.99	11 4 2	1275.98	21.71	353.57	77.82	113.76	11 25 18	676.0	24.73	345.93
105.01	14 59 20	5809.50	21.72	275.65	77.82	113.76	16 36 9	5209.5	24.74	268.01
110.00	13 54 17	723.70	13.30	308.56	73.18	121.78	14 6 21	123.7	17.41	301.86
110.00	17 8 15	5409.77	30.65	248.59	81.41	105.93	18 38 24	4809.8	32.53	239.88

DIFFERENTIAL CORRECTIONS
TOE-2.4398 TRA 2.3802 TC3-3.9259 BAU 1.0782
RDE .3510 RRA .0212 RC3 -.0849 FAU .02374
FDE -.9491 FRA 1.2706 FC3-1.0008 BSP 18721
BDE 2.4649 BRA 2.3803 BC3 3.9268 FSP -696

MID-COURSE EXECUTION ACCURACY
SGT 5890.7 SGR 451.5 SG3 208.6
RRT -.3696 RRF -.3696 RTF .9571
SGB 5908.0 R23 .0151 R13 -.9571
SG1 5893.1 SG2 419.3 THA 178.37

ORBIT DETERMINATION ACCURACY
ST 3263.9 SR 443.8 SS 906.8
CRT -.9377 CRS .8946 CST -.9939
LSA 3411.5 MSA 182.7 SSA 17.0
EL1 3290.4 EL2 153.0 ALF 172.72

LAUNCH DATE JUN 25 1967 FLIGHT TIME 196.00 ARRIVAL DATE JAN 7 1968

HELIOCENTRIC CONIC DISTANCE 561.833

RL 152.06 LAL .00 LOL 272.77 VL 25.896 GAL 6.17 AZL 93.21 HCA 272.51 SMA 123.46 ECC .25419 INC 3.2145 V1 29.299
RP 107.78 LAP 3.21 LOP 185.29 VP 37.253 GAP 12.83 AZP 90.14 TAL 161.16 TAP 73.67 RCA 92.07 APO 154.84 V2 35.162
RC 165.860 GL -17.80 GP 4.25 ZAL 55.12 ZAP 170.81 ETS 25.81 ZAE 127.45 ETE 177.04 ZAC 71.50 ETC 12.03 CLP-171.84

PLANETOCENTRIC CONIC

C3 22.293 VHL 4.722 DLA -31.50 RAL 210.77 RAD 6567.9 VEL 11.986 PTH 2.14 VHP 8.182 DPA 1.35 RAP 195.31 ECC 1.3669

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.60	11 19 47	1282.67	21.00	353.74	81.96	114.03	11 41 10	682.7	24.06	346.16
104.40	15 6 46	5842.29	21.01	277.80	81.97	114.02	16 44 8	5242.3	24.08	270.21
75.60	11 19 47	1282.67	21.00	353.74	81.96	114.03	11 41 10	682.7	24.06	346.16
104.40	15 6 46	5842.29	21.01	277.80	81.97	114.02	16 44 8	5242.3	24.08	270.21
110.00	14 0 54	759.53	12.01	310.53	76.96	122.25	14 13 34	159.5	16.18	303.91
110.00	17 24 49	5413.43	30.58	248.86	85.84	106.07	18 55 3	4813.4	32.48	240.15

DIFFERENTIAL CORRECTIONS
TOE-2.4568 TRA 2.6667 TC3-3.6282 BAU 1.0816
RDE .3702 RRA .0137 RC3 -.0725 FAU .02171
FDE -.9026 FRA 1.3153 FC3 -.8432 BSP 18871
BDE 2.4846 BRA 2.6667 BC3 3.6289 FSP -669

MID-COURSE EXECUTION ACCURACY
SGT 5918.6 SGR 454.8 SG3 199.6
RRT -.3828 RRF -.3815 RTF .9578
SGB 5936.1 R23 .0141 R13 -.9579
SG1 5921.2 SG2 420.0 THA 178.31

ORBIT DETERMINATION ACCURACY
ST 3193.0 SR 449.3 SS 870.3
CRT -.9288 CRS .8836 CST -.9940
LSA 3334.3 MSA 191.0 SSA 16.5
EL1 3220.2 EL2 165.1 ALF 172.53

LAUNCH DATE JUN 25 1967 FLIGHT TIME 198.00 ARRIVAL DATE JAN 9 1968

DISTANCE 567.257

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 25.857 GAL 6.81 AZL 93.16 HCA 275.74 SMA 123.22 ECC .26084 INC 3.1603 V1 29.299
RP 107.81 LAP 3.14 LOP 188.52 VP 37.216 GAP 13.34 AZP 90.32 TAL 159.78 TAP 75.52 RCA 91.08 APO 155.37 V2 35.151
RC 167.829 GL -16.68 GP 4.11 ZAL 52.80 ZAP 171.73 ETS 27.97 ZAE 127.31 ETE 177.14 ZAC 69.35 ETC 11.99 CLP-172.82

PLANETOCENTRIC CONIC
C3 24.318 VHL 4.931 DLA -31.19 RAL 213.56 RAD 6568.0 VEL 12.070 PTH 2.16 VHP 8.474 DPA .30 RAP 197.30 ECC 1.4002

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.34	11 36 7	1287.51	20.22	353.73	86.07	114.27	11 57 35	687.5	23.32	346.21
103.66	15 12 41	5879.88	20.23	280.27	86.08	114.26	16 50 41	5279.9	23.33	272.74
76.34	11 36 7	1287.51	20.22	353.73	86.07	114.27	11 57 35	687.5	23.32	346.21
103.66	15 12 41	5879.88	20.23	280.27	86.08	114.26	16 50 41	5279.9	23.33	272.74
110.00	14 6 30	798.71	10.58	312.66	80.65	122.70	14 19 48	198.7	14.81	306.12
110.00	17 41 29	5416.68	30.52	249.09	90.27	106.19	19 11 46	4816.7	32.44	240.39

DIFFERENTIAL CORRECTIONS
TOE-2.4710 TRA 2.9699 TC3-3.3289 BAU 1.0825
ROE .3901 RRA .0047 RC3 -.0609 FAU .01974
FOE -.8589 FRA 1.3603 FC3 -.7029 BSP 19002
BOE 2.5016 BRA 2.9699 BC3 3.3295 FSP -644

MID-COURSE EXECUTION ACCURACY
SGT 5940.8 SGR 457.2 SG3 191.1
RRT -.3970 RRF -.3946 RTF .9586
SGB 5958.4 R23 .0132 R13 -.9587
SG1 5943.6 SG2 419.5 THA 178.24

ORBIT DETERMINATION ACCURACY
ST 3117.1 SR 453.2 SS 835.8
CRT -.9193 CRS .8719 CST -.9941
LSA 3252.7 MSA 199.5 SSA 15.9
EL1 3144.9 EL2 176.8 ALF 172.36

LAUNCH DATE JUN 25 1967 FLIGHT TIME 200.00 ARRIVAL DATE JAN 11 1968

DISTANCE 572.608

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 25.818 GAL 7.48 AZL 93.11 HCA 278.97 SMA 123.00 ECC .26804 INC 3.1055 V1 29.299
RP 107.84 LAP 3.07 LOP 191.75 VP 37.178 GAP 13.88 AZP 90.48 TAL 158.41 TAP 77.38 RCA 90.03 APO 155.96 V2 35.139
RC 169.783 GL -15.58 GP 3.98 ZAL 50.57 ZAP 172.62 ETS 30.74 ZAE 127.16 ETE 177.23 ZAC 67.19 ETC 11.98 CLP-173.79

PLANETOCENTRIC CONIC
C3 26.654 VHL 5.163 DLA -30.85 RAL 216.22 RAD 6568.1 VEL 12.167 PTH 2.18 VHP 8.784 DPA -.74 RAP 199.31 ECC 1.4387

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.22	11 53 0	1290.43	19.38	353.55	90.13	114.48	12 14 30	690.4	22.52	346.09
102.78	15 17 4	634.19	19.39	305.14	90.13	114.47	15 27 38	34.2	22.53	297.68
77.22	11 53 0	1290.43	19.38	353.55	90.13	114.48	12 14 30	690.4	22.52	346.09
102.78	15 17 4	634.19	19.39	305.14	90.13	114.47	15 27 38	34.2	22.53	297.68
110.00	14 11 13	840.66	9.02	314.92	84.27	123.11	14 25 14	240.7	13.32	308.46
110.00	17 58 1	5420.00	30.46	249.33	94.66	106.32	19 28 21	4820.0	32.39	240.64

DIFFERENTIAL CORRECTIONS
TOE-2.4822 TRA 3.2912 TC3-3.0324 BAU 1.0807
ROE .4105 RRA -.0061 RC3 -.0503 FAU .01785
FOE -.8176 FRA 1.4061 FC3 -.5797 BSP 19110
BOE 2.5159 BRA 3.2912 BC3 3.0328 FSP -618

MID-COURSE EXECUTION ACCURACY
SGT 5957.6 SGR 458.6 SG3 183.0
RRT -.4120 RRF -.4083 RTF .9595
SGB 5975.2 R23 .0120 R13 -.9596
SG1 5960.6 SG2 417.6 THA 178.17

ORBIT DETERMINATION ACCURACY
ST 3037.5 SR 455.6 SS 803.5
CRT -.9090 CRS .8596 CST -.9942
LSA 3168.0 MSA 208.1 SSA 15.4
EL1 3065.7 EL2 188.2 ALF 172.21

LAUNCH DATE JUN 25 1967 FLIGHT TIME 202.00 ARRIVAL DATE JAN 13 1968

DISTANCE 577.877

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 25.779 GAL 8.20 AZL 93.05 HCA 282.19 SMA 122.77 ECC .27586 INC 3.0497 V1 29.299
RP 107.88 LAP 2.98 LOP 194.98 VP 37.141 GAP 14.45 AZP 90.64 TAL 157.06 TAP 79.26 RCA 88.90 APO 156.64 V2 35.128
RC 171.722 GL -14.51 GP 3.86 ZAL 48.44 ZAP 173.48 ETS 34.34 ZAE 127.01 ETE 177.30 ZAC 65.03 ETC 12.00 CLP-174.75

PLANETOCENTRIC CONIC
C3 29.347 VHL 5.417 DLA -30.47 RAL 218.76 RAD 6568.2 VEL 12.277 PTH 2.21 VHP 9.116 DPA -1.76 RAP 201.32 ECC 1.4830

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.25	12 10 35	1290.75	18.48	353.14	94.13	114.67	12 32 6	690.8	21.65	345.74
101.75	15 19 42	681.86	18.49	308.28	94.14	114.66	15 31 4	81.9	21.67	300.88
78.25	12 10 35	1290.75	18.48	353.14	94.13	114.67	12 32 6	690.8	21.65	345.74
101.75	15 19 42	681.86	18.49	308.28	94.14	114.66	15 31 4	81.9	21.67	300.88
110.00	14 15 11	884.88	7.37	317.28	87.81	123.47	14 29 56	284.9	11.72	310.89
110.00	18 14 16	5423.77	30.39	249.60	99.02	106.47	19 44 40	4823.8	32.34	240.93

DIFFERENTIAL CORRECTIONS
TOE-2.4885 TRA 3.6349 TC3-2.7376 BAU 1.0742
ROE .4312 RRA -.0186 RC3 -.0410 FAU .01595
FOE -.7778 FRA 1.4541 FC3 -.4707 BSP 19120
BOE 2.5256 BRA 3.6349 BC3 2.7379 FSP -591

MID-COURSE EXECUTION ACCURACY
SGT 5968.3 SGR 458.8 SG3 175.4
RRT -.4275 RRF -.4223 RTF .9605
SGB 5985.9 R23 .0108 R13 -.9605
SG1 5971.5 SG2 414.5 THA 178.11

ORBIT DETERMINATION ACCURACY
ST 2953.9 SR 456.1 SS 773.2
CRT -.8976 CRS .8461 CST -.9942
LSA 3079.6 MSA 216.8 SSA 14.8
EL1 2982.3 EL2 199.1 ALF 172.07

LAUNCH DATE JUN 25 1967 FLIGHT TIME 204.00 ARRIVAL DATE JAN 15 1968

DISTANCE 583.050

HELIOCENTRIC CONIC
RL 152.06 LAL .00 LOL 272.77 VL 25.742 GAL 8.96 AZL 92.99 HCA 285.41 SMA 122.55 ECC .28436 INC 2.9926 V1 29.299
RP 107.92 LAP 2.88 LOP 198.21 VP 37.103 GAP 15.07 AZP 90.80 TAL 155.73 TAP 81.15 RCA 87.70 APO 157.40 V2 35.116
RC 173.647 GL -13.47 GP 3.76 ZAL 46.41 ZAP 174.30 ETS 39.12 ZAE 126.86 ETE 177.36 ZAC 62.87 ETC 12.06 CLP-175.71

PLANETOCENTRIC CONIC
C3 32.456 VHL 5.697 DLA -30.07 RAL 221.16 RAD 6568.3 VEL 12.403 PTH 2.24 VHP 9.472 DPA -2.77 RAP 203.34 ECC 1.5341

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.45	12 29 8	1287.50	17.53	352.44	98.06	114.82	12 50 36	687.5	20.73	345.09
100.55	15 20 18	735.68	17.55	311.84	98.07	114.81	15 32 34	135.7	20.75	304.49
79.45	12 29 8	1287.50	17.53	352.44	98.06	114.82	12 50 36	687.5	20.73	345.09
100.55	15 20 18	735.68	17.55	311.84	98.07	114.81	15 32 34	135.7	20.75	304.49
110.00	14 18 31	930.93	5.64	319.71	91.27	123.77	14 34 2	330.9	10.03	313.39
110.00	18 30 7	5428.28	30.30	249.92	103.34	106.64	20 0 35	4828.3	32.28	241.26

DIFFERENTIAL CORRECTIONS
TOE-2.4984 TRA 3.9946 TC3-2.4585 BAU 1.0668
ROE .4525 RRA -.0327 RC3 -.0326 FAU .01422
FOE -.7434 FRA 1.5014 FC3 -.3793 BSP 19218
BOE 2.5390 BRA 3.9947 BC3 2.4587 FSP -569

MID-COURSE EXECUTION ACCURACY
SGT 5975.6 SGR 458.2 SG3 168.2
RRT -.4441 RRF -.4378 RTF .9618
SGB 5993.2 R23 .0097 R13 -.9618
SG1 5979.1 SG2 410.3 THA 178.04

ORBIT DETERMINATION ACCURACY
ST 2874.0 SR 455.2 SS 747.0
CRT -.8861 CRS .8332 CST -.9944
LSA 2995.8 MSA 224.6 SSA 14.3
EL1 2902.3 EL2 209.0 ALF 171.97

LAUNCH DATE JUN 25 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 17 1968

HELIOCENTRIC CONIC DISTANCE 588.112
RL 152.06 LAL .00 LOL 272.77 VL 25.704 GAL 9.78 AZL 92.93 HCA 288.63 SMA 122.33 ECC .29362 INC 2.9337 V1 29.299
RP 107.96 LAP 2.78 LOP 201.43 VP 37.065 GAP 15.72 AZP 90.94 TAL 154.43 TAP 83.06 RCA 86.41 APO 158.25 V2 35.103
RC 175.555 GL -12.47 GP 3.66 ZAL 44.48 ZAP 175.06 ETS 45.56 ZAE 126.69 ETE 177.42 ZAC 60.71 ETC 12.15 CLP-176.68
PLANETOCENTRIC CONIC
C3 36.047 VHL 6.004 DLA -29.63 RAL 223.43 RAD 6568.4 VEL 12.547 PTH 2.27 VHP 9.856 DPA -3.75 RAP 205.37 ECC 1.5932

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.88	12 49 4	1279.21	16.54	351.34	101.93	114.94	13 10 24	679.2	19.77	344.05
99.12	15 18 28	796.93	16.56	315.91	101.94	114.93	15 31 45	196.9	19.78	308.62
100.00	14 52 8	881.16	13.53	320.64	100.41	116.91	15 6 49	281.2	17.03	313.60
100.00	15 58 6	670.21	19.62	307.94	103.37	113.02	16 9 16	70.2	22.57	300.38
110.00	14 21 16	978.47	3.83	322.21	94.66	123.99	14 37 35	378.5	8.27	315.93
110.00	18 45 27	5433.71	30.19	250.31	107.59	106.85	20 16 0	4833.7	32.20	241.67

DIFFERENTIAL CORRECTIONS
TDE-2.5074 TRA 4.3768 TC3-2.1896 BAU 1.0553
RDE .4739 RRA -.0486 RC3 -.0255 FAU .01253
FDE -.7116 FRA 1.5505 FC3 -.3009 BSP 19287
BDE 2.5518 BRA 4.3771 BC3 2.1898 FSP -547

MID-COURSE EXECUTION ACCURACY
SGT 5977.5 SGR 456.5 SG3 161.4
RRT -.4611 RRF -.4538 RTF .9632
SGB 5994.9 R23 .0086 R13 -.9632
SG1 5981.2 SG2 404.8 THA 177.97

ORBIT DETERMINATION ACCURACY
ST 2794.6 SR 452.6 SS 723.6
CRT -.8739 CRS .8199 CST -.9946
LSA 2912.8 MSA 231.7 SSA 13.8
EL1 2822.7 EL2 217.8 ALF 171.90

LAUNCH DATE JUN 25 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 19 1968

HELIOCENTRIC CONIC DISTANCE 593.046
RL 152.06 LAL .00 LOL 272.77 VL 25.667 GAL 10.66 AZL 92.87 HCA 291.85 SMA 122.12 ECC .30374 INC 2.8726 V1 29.299
RP 107.99 LAP 2.67 LOP 204.65 VP 37.027 GAP 16.42 AZP 91.07 TAL 153.15 TAP 85.01 RCA 85.03 APO 159.21 V2 35.091
RC 177.448 GL -11.50 GP 3.57 ZAL 42.66 ZAP 175.73 ETS 54.35 ZAE 126.51 ETE 177.46 ZAC 58.56 ETC 12.29 CLP-177.65
PLANETOCENTRIC CONIC
C3 40.206 VHL 6.341 DLA -29.18 RAL 225.56 RAD 6568.5 VEL 12.711 PTH 2.31 VHP 10.271 DPA -4.72 RAP 207.40 ECC 1.6617

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.63	13 11 20	1262.67	15.52	349.62	105.72	115.03	13 32 23	662.7	18.77	342.39
97.37	15 13 13	868.64	15.54	320.72	105.73	115.02	15 27 42	268.6	18.78	313.48
100.00	14 39 0	978.47	10.46	326.24	103.13	118.16	14 55 18	378.5	14.15	319.39
100.00	16 28 15	628.07	20.72	305.29	108.10	112.04	16 38 43	28.1	23.53	297.62
110.00	14 23 31	1027.18	1.97	324.76	97.97	124.13	14 40 39	427.2	6.44	318.52
110.00	19 0 12	5440.17	30.06	250.76	111.78	107.09	20 30 52	4840.2	32.11	242.15

DIFFERENTIAL CORRECTIONS
TDE-2.5173 TRA 4.7832 TC3-1.9341 BAU 1.0396
RDE .4956 RRA -.0663 RC3 -.0196 FAU .01089
FDE -.6831 FRA 1.6018 FC3 -.2345 BSP 19348
BDE 2.5656 BRA 4.7836 BC3 1.9342 FSP -526

MID-COURSE EXECUTION ACCURACY
SGT 5974.7 SGR 453.7 SG3 155.0
RRT -.4786 RRF -.4703 RTF .9648
SGB 5991.9 R23 .0074 R13 -.9648
SG1 5978.7 SG2 398.1 THA 177.91

ORBIT DETERMINATION ACCURACY
ST 2717.5 SR 448.3 SS 703.5
CRT -.8612 CRS .8066 CST -.9949
LSA 2832.7 MSA 237.8 SSA 13.3
EL1 2745.0 EL2 225.6 ALF 171.86

LAUNCH DATE JUN 25 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 21 1968

HELIOCENTRIC CONIC DISTANCE 597.830
RL 152.06 LAL .00 LOL 272.77 VL 25.630 GAL 11.60 AZL 92.81 HCA 295.07 SMA 121.91 ECC .31481 INC 2.8087 V1 29.299
RP 108.03 LAP 2.54 LOP 207.87 VP 36.990 GAP 17.18 AZP 91.19 TAL 151.92 TAP 86.98 RCA 83.53 APO 160.28 V2 35.078
RC 179.325 GL -10.56 GP 3.48 ZAL 40.94 ZAP 176.26 ETS 66.22 ZAE 126.32 ETE 177.51 ZAC 56.43 ETC 12.46 CLP-178.63
PLANETOCENTRIC CONIC
C3 45.033 VHL 6.711 DLA -28.72 RAL 227.56 RAD 6568.7 VEL 12.900 PTH 2.35 VHP 10.720 DPA -5.66 RAP 209.43 ECC 1.7411

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.01	13 38 35	1229.10	14.47	346.64	109.44	115.08	13 59 4	629.1	17.73	339.46
94.99	15 1 54	959.36	14.49	326.89	109.44	115.07	15 17 53	359.4	17.75	319.70
100.00	14 31 17	1058.05	7.87	330.72	106.01	118.93	14 48 55	458.0	11.67	324.00
100.00	16 51 54	605.65	21.29	303.87	112.52	111.50	17 1 59	5.7	24.02	296.14
110.00	14 25 19	1076.81	.08	327.35	101.22	124.18	14 43 16	476.8	4.56	321.13
110.00	19 14 21	5447.70	29.91	251.30	115.89	107.37	20 45 9	4847.7	32.00	242.71

DIFFERENTIAL CORRECTIONS
TDE-2.5248 TRA 5.2204 TC3-1.6883 BAU 1.0165
RDE .5171 RRA -.0860 RC3 -.0151 FAU .00921
FDE -.6559 FRA 1.6573 FC3 -.1770 BSP 19291
BDE 2.5772 BRA 5.2211 BC3 1.6883 FSP -503

MID-COURSE EXECUTION ACCURACY
SGT 5967.5 SGR 449.8 SG3 149.0
RRT -.4961 RRF -.4868 RTF .9665
SGB 5984.4 R23 .0061 R13 -.9666
SG1 5971.7 SG2 390.3 THA 177.85

ORBIT DETERMINATION ACCURACY
ST 2641.3 SR 442.2 SS 685.7
CRT -.8476 CRS .7925 CST -.9952
LSA 2753.6 MSA 243.3 SSA 12.8
EL1 2667.9 EL2 232.3 ALF 171.86

LAUNCH DATE JUN 25 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 23 1968

HELIOCENTRIC CONIC DISTANCE 602.436
RL 152.06 LAL .00 LOL 272.77 VL 25.595 GAL 12.61 AZL 92.74 HCA 298.28 SMA 121.70 ECC .32698 INC 2.7415 V1 29.299
RP 108.07 LAP 2.41 LOP 211.08 VP 36.953 GAP 18.01 AZP 91.30 TAL 150.72 TAP 89.00 RCA 81.91 APO 161.49 V2 35.065
RC 181.185 GL -9.66 GP 3.41 ZAL 39.34 ZAP 176.57 ETS 81.40 ZAE 126.10 ETE 177.54 ZAC 54.31 ETC 12.68 CLP-179.63
PLANETOCENTRIC CONIC
C3 50.654 VHL 7.117 DLA -28.24 RAL 229.42 RAD 6568.9 VEL 13.115 PTH 2.39 VHP 11.210 DPA -6.58 RAP 211.46 ECC 1.8336

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	14 8 55	1184.50	11.66	342.00	112.21	115.99	14 28 39	584.5	15.06	334.97
90.00	14 46 25	1062.84	15.17	334.80	113.90	114.20	15 4 8	462.8	18.32	327.53
100.00	14 25 38	1130.40	5.47	334.75	108.92	119.43	14 44 28	530.4	9.35	328.11
100.00	17 12 24	5880.21	21.62	280.91	116.74	111.16	18 50 24	5280.2	24.30	273.14
110.00	14 26 40	1127.12	-1.85	329.97	104.39	124.14	14 45 27	527.1	2.64	323.77
110.00	19 27 51	5456.25	29.74	251.90	119.91	107.69	20 58 47	4856.3	31.87	243.34

DIFFERENTIAL CORRECTIONS
TDE-2.5391 TRA 5.6821 TC3-1.4615 BAU .9898
RDE .5388 RRA -.1074 RC3 -.0114 FAU .00764
FDE -.6337 FRA 1.7144 FC3 -.1306 BSP 19327
BDE 2.5956 BRA 5.6831 BC3 1.4616 FSP -484

MID-COURSE EXECUTION ACCURACY
SGT 5955.3 SGR 445.0 SG3 143.3
RRT -.5141 RRF -.5042 RTF .9686
SGB 5971.9 R23 .0049 R13 -.9686
SG1 5959.7 SG2 381.4 THA 177.79

ORBIT DETERMINATION ACCURACY
ST 2570.7 SR 434.7 SS 671.9
CRT -.8343 CRS .7797 CST -.9955
LSA 2681.0 MSA 247.0 SSA 12.3
EL1 2596.4 EL2 237.3 ALF 171.90

LAUNCH DATE JUN 25 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 25 1968

HELIOCENTRIC CONIC DISTANCE 606.829
RL 152.06 LAL .00 LOL 272.77 VL 25.559 GAL 13.71 AZL 92.67 HCA 301.49 SMA 121.50 ECC .34037 INC 2.6701 VI 29.299
RP 108.11 LAP 2.28 LOP 214.29 VP 36.916 GAP 18.91 AZP 91.40 TAL 149.58 TAP 91.07 RCA 80.15 APO 162.86 V2 35.052
RC 183.028 GL -8.80 GP 3.34 ZAL 37.84 ZAP 176.60 ETS 98.54 ZAE 125.85 ETE 177.58 ZAC 52.22 ETC 12.94 CLP 179.35
PLANETOCENTRIC CONIC
C3 57.225 VHL 7.565 DLA -27.75 RAL 231.14 RAD 6569.0 VEL 13.363 PTH 2.44 VHP 11.746 DPA -7.47 RAP 213.47 ECC 1.9418

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 44 37	1316.30	7.62	349.58	114.25	117.35	14 6 33	716.3	11.23	342.76
90.00	15 24 30	991.34	17.12	330.45	118.80	112.91	15 41 1	391.3	20.08	323.02
100.00	14 21 0	1198.65	3.18	338.52	111.82	119.74	14 40 59	598.7	7.11	331.94
100.00	17 30 47	5872.26	21.81	280.40	120.80	110.96	19 8 39	5272.3	24.47	272.61
110.00	14 27 36	1177.91	-3.79	332.63	107.49	124.00	14 47 14	577.9	.70	326.42
110.00	19 40 40	5465.77	29.54	252.57	123.84	108.04	21 11 46	4865.8	31.72	244.04

DIFFERENTIAL CORRECTIONS
TDE-2.5566 TRA 6.1781 TC3-1.2497 BAU .9561
RDE .5604 RRA -.1307 RC3 -.0087 FAU .00607
FDE -.6145 FRA 1.7757 FC3 -.0919 BSP 19357
BDE 2.6173 BRA 6.1795 BC3 1.2497 FSP -466

MID-COURSE EXECUTION ACCURACY
SGT 5939.6 SGR 439.1 SG3 137.8
RRT -.5323 RRF -.5220 RTF .9707
SGB 5955.9 R23 .0039 R13 -.9708
SG1 5944.3 SG2 371.5 THA 177.74

ORBIT DETERMINATION ACCURACY
ST 2503.7 SR 425.8 SS 661.2
CRT -.8209 CRS .7673 CST -.9959
LSA 2612.4 MSA 249.4 SSA 11.9
EL1 2528.2 EL2 240.8 ALF 171.98

LAUNCH DATE JUN 25 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 27 1968

HELIOCENTRIC CONIC DISTANCE 610.969
RL 152.06 LAL .00 LOL 272.77 VL 25.525 GAL 14.90 AZL 92.59 HCA 304.70 SMA 121.31 ECC .35517 INC 2.5936 VI 29.299
RP 108.16 LAP 2.13 LOP 217.50 VP 36.880 GAP 19.89 AZP 91.48 TAL 148.51 TAP 93.21 RCA 78.22 APO 164.39 V2 35.039
RC 184.853 GL -7.96 GP 3.27 ZAL 36.47 ZAP 176.31 ETS 114.87 ZAE 125.57 ETE 177.61 ZAC 50.16 ETC 13.25 CLP 178.30
PLANETOCENTRIC CONIC
C3 64.941 VHL 8.059 DLA -27.24 RAL 232.73 RAD 6569.2 VEL 13.649 PTH 2.49 VHP 12.336 DPA -8.33 RAP 215.47 ECC 2.0688

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 32 32	1407.58	4.73	354.73	116.75	117.95	13 56 0	807.6	8.44	348.01
90.00	15 49 14	961.48	17.90	328.61	123.03	112.31	16 5 16	361.5	20.77	321.11
100.00	14 16 56	1264.15	.96	342.12	114.67	119.88	14 38 0	664.1	4.93	335.58
100.00	17 47 32	5868.18	21.91	280.14	124.72	110.86	19 25 20	5268.2	24.55	272.34
110.00	14 28 7	1228.99	-5.72	335.31	110.52	123.76	14 48 36	629.0	-1.25	329.08
110.00	19 52 49	5476.10	29.32	253.30	127.65	108.42	21 24 5	4876.1	31.55	244.80

DIFFERENTIAL CORRECTIONS
TDE-2.5795 TRA 6.7078 TC3-1.0524 BAU .9137
RDE .5818 RRA -.1559 RC3 -.0070 FAU .00449
FDE -.5984 FRA 1.8420 FC3 -.0599 BSP 19375
BDE 2.6443 BRA 6.7096 BC3 1.0524 FSP -449

MID-COURSE EXECUTION ACCURACY
SGT 5917.4 SGR 432.2 SG3 132.7
RRT -.5506 RRF -.5399 RTF .9730
SGB 5933.2 R23 .0026 R13 -.9730
SG1 5922.2 SG2 360.5 THA 177.69

ORBIT DETERMINATION ACCURACY
ST 2440.5 SR 415.4 SS 653.8
CRT -.8078 CRS .7556 CST -.9963
LSA 2548.2 MSA 250.2 SSA 11.4
EL1 2463.7 EL2 242.5 ALF 172.09

LAUNCH DATE JUN 25 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 29 1968

HELIOCENTRIC CONIC DISTANCE 614.802
RL 152.06 LAL .00 LOL 272.77 VL 25.492 GAL 16.21 AZL 92.51 HCA 307.90 SMA 121.12 ECC .37156 INC 2.5111 VI 29.299
RP 108.20 LAP 1.98 LOP 220.70 VP 36.844 GAP 20.98 AZP 91.54 TAL 147.52 TAP 95.42 RCA 76.11 APO 166.12 V2 35.025
RC 186.660 GL -7.16 GP 3.21 ZAL 35.21 ZAP 175.75 ETS 128.26 ZAE 125.25 ETE 177.64 ZAC 48.14 ETC 13.60 CLP 177.22
PLANETOCENTRIC CONIC
C3 74.047 VHL 8.605 DLA -26.74 RAL 234.18 RAD 6569.4 VEL 13.978 PTH 2.55 VHP 12.987 DPA -9.16 RAP 217.44 ECC 2.2186

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 23 43	1487.12	2.18	359.19	119.33	118.24	13 48 30	887.1	5.94	352.52
90.00	16 9 36	944.10	18.35	327.53	126.99	111.95	16 25 20	344.1	21.17	319.99
100.00	14 13 6	1327.58	-1.19	345.60	117.45	119.87	14 35 14	727.6	2.79	339.07
100.00	18 2 54	5866.91	21.94	280.06	128.49	110.82	19 40 41	5266.9	24.58	272.25
110.00	14 28 13	1280.17	-7.65	338.02	113.46	123.42	14 49 33	680.2	-3.20	331.76
110.00	20 4 17	5487.08	29.08	254.06	131.33	108.81	21 35 44	4887.1	31.37	245.60

DIFFERENTIAL CORRECTIONS
TDE-2.6081 TRA 7.2801 TC3 -.8698 BAU .8610
RDE .6031 RRA -.1829 RC3 -.0060 FAU .00287
FDE -.5854 FRA 1.9143 FC3 -.0336 BSP 19364
BDE 2.6769 BRA 7.2824 BC3 .8698 FSP -433

MID-COURSE EXECUTION ACCURACY
SGT 5892.0 SGR 424.2 SG3 127.9
RRT -.5689 RRF -.5581 RTF .9755
SGB 5907.3 R23 .0015 R13 -.9755
SG1 5897.0 SG2 348.6 THA 177.65

ORBIT DETERMINATION ACCURACY
ST 2381.0 SR 403.6 SS 649.7
CRT -.7949 CRS .7447 CST -.9968
LSA 2488.3 MSA 249.5 SSA 10.9
EL1 2402.7 EL2 242.7 ALF 172.25

LAUNCH DATE JUN 25 1967 FLIGHT TIME 220.00 ARRIVAL DATE JAN 31 1968

HELIOCENTRIC CONIC DISTANCE 618.260
RL 152.06 LAL .00 LOL 272.77 VL 25.459 GAL 17.64 AZL 92.42 HCA 311.11 SMA 120.94 ECC .38979 INC 2.4211 VI 29.299
RP 108.24 LAP 1.82 LOP 223.91 VP 36.809 GAP 22.18 AZP 91.59 TAL 146.63 TAP 97.73 RCA 73.80 APO 168.08 V2 35.012
RC 188.449 GL -6.39 GP 3.16 ZAL 34.07 ZAP 174.97 ETS 138.38 ZAE 124.88 ETE 177.67 ZAC 46.17 ETC 14.01 CLP 176.09
PLANETOCENTRIC CONIC
C3 84.857 VHL 9.212 DLA -26.22 RAL 235.48 RAD 6569.7 VEL 14.360 PTH 2.61 VHP 13.710 DPA -9.95 RAP 219.39 ECC 2.3965

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 16 23	1560.37	-.18	3.27	121.88	118.32	13 42 24	960.4	3.61	356.64
90.00	16 27 20	933.37	18.62	326.86	130.72	111.73	16 42 54	333.4	21.41	319.29
100.00	14 9 21	1389.32	-3.28	348.99	120.16	119.73	14 32 30	789.3	.70	342.46
100.00	18 17 4	5867.69	21.93	280.11	132.09	110.84	19 54 51	5267.7	24.56	272.30
110.00	14 27 51	1331.28	-9.56	340.75	116.32	122.98	14 50 2	731.3	-5.15	334.44
110.00	20 15 3	5498.50	28.83	254.85	134.87	109.22	21 46 42	4898.5	31.17	246.44

DIFFERENTIAL CORRECTIONS
TDE-2.6408 TRA 7.9022 TC3 -.6998 BAU .7939
RDE .6240 RRA -.2119 RC3 -.0058 FAU .00113
FDE -.5747 FRA 1.9948 FC3 -.0115 BSP 19257
BDE 2.7135 BRA 7.9050 BC3 .6998 FSP -415

MID-COURSE EXECUTION ACCURACY
SGT 5863.2 SGR 415.1 SG3 123.4
RRT -.5870 RRF -.5762 RTF .9780
SGB 5877.9 R23 .0003 R13 -.9780
SG1 5868.3 SG2 335.8 THA 177.61

ORBIT DETERMINATION ACCURACY
ST 2324.0 SR 390.6 SS 648.7
CRT -.7821 CRS .7341 CST -.9972
LSA 2431.7 MSA 247.4 SSA 10.4
EL1 2344.2 EL2 241.3 ALF 172.43

LAUNCH DATE JUN 26 1967 FLIGHT TIME 70.00 ARRIVAL DATE SEP 4 1967

HELIOCENTRIC CONIC DISTANCE 167.992

RL 152.07 LAL .00 LOL 273.73 VL 24.016 GAL -3.30 AZL 93.60 HCA 70.25 SMA 113.56 ECC .34342 INC 3.6033 V1 29.298
RP 108.83 LAP -3.39 LOP 343.94 VP 35.642 GAP -19.95 AZP 91.22 TAL 186.35 TAP 256.60 RCA 74.56 APO 152.55 V2 34.822
RC 43.312 GL -15.16 GP -2.97 ZAL 104.65 ZAP 6.95 ETS 154.58 ZAE 160.44 ETE 27.66 ZAC 95.74 ETC 13.78 CLP 6.28

PLANETOCENTRIC CONIC

C3 33.218 VHL 5.764 DLA -9.41 RAL 163.51 RAD 6568.3 VEL 12.433 PTH 2.25 VHP 12.121 DPA 4.26 RAP 171.18 ECC 1.5467

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 13 19	2043.16	-15.07	30.91	31.42	114.26	5 47 22	1443.2	-11.67	23.88
90.00	14 48 22	5279.76	27.07	238.90	37.09	81.34	16 16 22	4679.8	25.59	230.54
100.00	6 30 2	1795.63	-16.29	12.12	30.84	115.41	6 59 58	1195.6	-12.74	5.14
100.00	16 14 19	5002.52	28.39	218.27	36.85	80.23	17 37 42	4402.5	26.75	209.85
110.00	7 27 46	1614.83	-19.52	356.68	29.11	118.63	7 54 41	1014.8	-15.55	349.81
110.00	17 33 5	4756.09	31.94	198.73	36.03	77.13	18 52 21	4156.1	29.84	190.15

DIFFERENTIAL CORRECTIONS
TOE .3575 TRA -.6103 TC3 .2249 BAU .1071
ROE -.3891 RRA -.1521 RC3 .0874 FAU .02339
FOE -.3028 FRA .1672 FC3 -.6095 BSP 2018
BOE .5284 BRA .6290 BC3 .2413 FSP -154

MID-COURSE EXECUTION ACCURACY
SGT 756.1 SGR 428.1 SG3 67.6
RRT -.0527 RRF .0591 RTF -.6635
SGB 868.9 R23 -.0077 R13 .6639
SG1 756.6 SG2 427.2 THA 177.49

ORBIT DETERMINATION ACCURACY
ST 400.5 SR 389.5 SS 320.4
CRT -.8266 CRS -.9569 CST .9505
LSA 622.4 MSA 164.5 SSA 17.4
EL1 533.9 EL2 164.4 ALF 135.96

LAUNCH DATE JUN 26 1967 FLIGHT TIME 72.00 ARRIVAL DATE SEP 6 1967

HELIOCENTRIC CONIC DISTANCE 174.680

RL 152.07 LAL .00 LOL 273.73 VL 24.341 GAL -3.34 AZL 93.54 HCA 73.42 SMA 115.10 ECC .32585 INC 3.5413 V1 29.298
RP 108.80 LAP -3.39 LOP 347.11 VP 35.869 GAP -18.77 AZP 91.01 TAL 186.97 TAP 260.39 RCA 77.60 APO 152.61 V2 34.830
RC 43.796 GL -15.92 GP -3.13 ZAL 105.86 ZAP 5.38 ETS 144.23 ZAE 158.42 ETE 24.26 ZAC 94.55 ETC 13.73 CLP 4.38

PLANETOCENTRIC CONIC

C3 29.936 VHL 5.471 DLA -9.62 RAL 162.02 RAD 6568.2 VEL 12.301 PTH 2.22 VHP 11.450 DPA 3.61 RAP 172.28 ECC 1.4927

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 9 0	2010.38	-14.15	28.95	28.24	114.79	5 42 30	1410.4	-10.69	21.98
90.00	14 40 48	5260.22	26.86	237.51	33.72	80.68	16 8 28	4660.2	25.29	229.19
100.00	6 25 36	1763.21	-15.34	10.19	27.66	115.98	6 55 0	1163.2	-11.72	3.27
100.00	16 6 52	4982.62	28.15	216.84	33.47	79.52	17 29 55	4382.6	26.42	208.46
110.00	7 23 6	1583.19	-18.48	354.82	25.94	119.28	7 49 29	983.2	-14.43	348.03
110.00	17 25 52	4735.40	31.62	197.21	32.61	76.28	18 44 48	4135.4	29.41	188.70

DIFFERENTIAL CORRECTIONS
TOE .3591 TRA -.5825 TC3 .2809 BAU .1185
ROE -.3719 RRA -.1430 RC3 .0936 FAU .02492
FOE -.3223 FRA .1521 FC3 -.7207 BSP 2141
BOE .5170 BRA .5998 BC3 .2961 FSP -175

MID-COURSE EXECUTION ACCURACY
SGT 786.5 SGR 430.4 SG3 75.4
RRT -.0621 RRF .0696 RTF -.6835
SGB 896.6 R23 -.0091 R13 .6840
SG1 787.2 SG2 429.2 THA 177.23

ORBIT DETERMINATION ACCURACY
ST 419.5 SR 392.1 SS 338.1
CRT -.8388 CRS -.9637 CST .9495
LSA 645.8 MSA 163.1 SSA 18.2
EL1 550.7 EL2 162.6 ALF 137.30

LAUNCH DATE JUN 26 1967 FLIGHT TIME 74.00 ARRIVAL DATE SEP 8 1967

HELIOCENTRIC CONIC DISTANCE 181.389

RL 152.07 LAL .00 LOL 273.73 VL 24.638 GAL -3.41 AZL 93.48 HCA 76.59 SMA 116.58 ECC .30965 INC 3.4813 V1 29.298
RP 108.78 LAP -3.39 LOP 350.29 VP 36.079 GAP -17.64 AZP 90.81 TAL 187.66 TAP 264.24 RCA 80.48 APO 152.67 V2 34.838
RC 44.440 GL -16.66 GP -3.31 ZAL 107.18 ZAP 4.11 ETS 126.15 ZAE 156.49 ETE 21.41 ZAC 93.39 ETC 13.70 CLP 2.45

PLANETOCENTRIC CONIC

C3 27.143 VHL 5.210 DLA -9.75 RAL 160.43 RAD 6568.1 VEL 12.187 PTH 2.19 VHP 10.810 DPA 2.95 RAP 173.34 ECC 1.4467

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 3 42	1981.63	-13.32	27.24	25.09	115.22	5 36 44	1381.6	-9.81	20.32
90.00	14 33 24	5240.07	26.63	236.08	30.35	79.99	16 0 44	4640.1	24.98	227.80
100.00	6 20 15	1734.70	-14.48	8.51	24.52	116.44	6 49 10	1134.7	-10.81	1.64
100.00	15 59 32	4962.23	27.89	215.38	30.09	78.79	17 22 15	4362.2	26.06	207.05
110.00	7 17 34	1555.18	-17.54	353.19	22.82	119.82	7 43 30	955.2	-13.44	346.48
110.00	17 18 42	4714.51	31.27	195.68	29.20	75.44	18 37 17	4114.5	28.96	187.24

DIFFERENTIAL CORRECTIONS
TOE .3601 TRA -.5546 TC3 .3425 BAU .1294
ROE -.3562 RRA -.1345 RC3 .0988 FAU .02663
FOE -.3429 FRA .1342 FC3 -.8495 BSP 2255
BOE .5065 BRA .5707 BC3 .3565 FSP -199

MID-COURSE EXECUTION ACCURACY
SGT 816.8 SGR 432.0 SG3 84.1
RRT -.0724 RRF .0812 RTF -.7015
SGB 924.0 R23 -.0109 R13 .7021
SG1 817.6 SG2 430.4 THA 176.97

ORBIT DETERMINATION ACCURACY
ST 437.5 SR 394.4 SS 355.5
CRT -.8506 CRS -.9700 CST .9484
LSA 668.5 MSA 161.5 SSA 19.0
EL1 566.8 EL2 160.0 ALF 138.49

LAUNCH DATE JUN 26 1967 FLIGHT TIME 76.00 ARRIVAL DATE SEP 10 1967

HELIOCENTRIC CONIC DISTANCE 188.112

RL 152.07 LAL .00 LOL 273.73 VL 24.911 GAL -3.48 AZL 93.42 HCA 79.76 SMA 117.97 ECC .29477 INC 3.4229 V1 29.298
RP 108.75 LAP -3.37 LOP 353.47 VP 36.274 GAP -16.56 AZP 90.61 TAL 188.40 TAP 268.16 RCA 83.20 APO 152.75 V2 34.846
RC 45.237 GL -17.35 GP -3.50 ZAL 108.60 ZAP 3.53 ETS 97.19 ZAE 154.67 ETE 18.97 ZAC 92.28 ETC 13.67 CLP .47

PLANETOCENTRIC CONIC

C3 24.770 VHL 4.977 DLA -9.81 RAL 158.76 RAD 6568.0 VEL 12.089 PTH 2.16 VHP 10.201 DPA 2.29 RAP 174.36 ECC 1.4077

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 57 31	1957.09	-12.60	25.80	21.99	115.57	5 30 8	1357.1	-9.06	18.91
90.00	14 26 15	5219.35	26.37	234.61	27.01	79.30	15 53 15	4619.4	24.63	226.38
100.00	6 14 1	1710.26	-13.73	7.08	21.42	116.81	6 42 31	1110.3	-10.03	.25
100.00	15 52 26	4941.41	27.61	213.89	26.74	78.06	17 14 47	4341.4	25.68	205.62
110.00	7 11 16	1530.97	-16.71	351.80	19.74	120.26	7 36 47	931.0	-12.57	345.14
110.00	17 11 40	4693.47	30.90	194.15	25.82	74.60	18 29 54	4093.5	28.48	185.79

DIFFERENTIAL CORRECTIONS
TOE .3611 TRA -.5260 TC3 .4097 BAU .1399
ROE -.3420 RRA -.1267 RC3 .1025 FAU .02858
FOE -.3656 FRA .1125 FC3 -.9988 BSP 2367
BOE .4974 BRA .5410 BC3 .4224 FSP -227

MID-COURSE EXECUTION ACCURACY
SGT 846.6 SGR 432.8 SG3 94.0
RRT -.0849 RRF .0953 RTF -.7181
SGB 950.8 R23 -.0131 R13 .7188
SG1 847.7 SG2 430.7 THA 176.65

ORBIT DETERMINATION ACCURACY
ST 455.0 SR 396.2 SS 373.5
CRT -.8624 CRS -.9759 CST .9472
LSA 691.1 MSA 159.4 SSA 19.9
EL1 582.6 EL2 156.6 ALF 139.57

LAUNCH DATE JUN 26 1967 FLIGHT TIME 78.00 ARRIVAL DATE SEP 12 1967

DISTANCE 194.847

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 25.159 GAL -3.56 AZL 93.37 HCA 82.93 SMA 119.29 ECC .28115 INC 3.3656 V1 29.298
RP 108.72 LAP -3.34 LOP 356.65 VP 36.454 GAP -15.54 AZP 90.41 TAL 189.21 TAP 272.14 RCA 85.75 APO 152.83 V2 34.856
RC 46.178 GL -18.00 GP -3.72 ZAL 110.09 ZAP 4.03 ETS 66.78 ZAE 153.01 ETE 16.84 ZAC 91.23 ETC 13.66 CLP -1.56

PLANETOCENTRIC CONIC
C3 22.756 VHL 4.770 DLA -9.79 RAL 157.03 RAD 6567.9 VEL 12.006 PTH 2.14 VHP 9.619 DPA 1.63 RAP 175.32 ECC 1.3745

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 50 29	1936.83	-12.01	24.61	18.96	115.84	5 22 46	1336.8	-8.43	17.75
90.00	14 19 28	5198.11	26.10	233.12	23.73	78.60	15 46 6	4598.1	24.26	224.93
100.00	6 7 0	1689.97	-13.11	5.90	18.40	117.11	6 35 10	1090.0	-9.37	359.10
100.00	15 45 38	4920.20	27.30	212.39	23.44	77.33	17 7 39	4320.2	25.28	204.17
110.00	7 4 16	1510.63	-16.01	350.64	16.74	120.61	7 29 27	910.6	-11.83	344.03
110.00	17 4 51	4672.31	30.51	192.63	22.50	73.78	18 22 44	4072.3	27.99	184.34

DIFFERENTIAL CORRECTIONS
TDE .3622 TRA -.4966 TC3 .4844 BAU .1507
RDE -.3291 RRA -.1197 RC3 .1043 FAU .03077
FDE -.3900 FRA .0871 FC3-1.1708 BSP 2493
BDE .4894 BRA .5109 BC3 .4955 FSP -258

MID-COURSE EXECUTION ACCURACY
SGT 877.1 SGR 432.9 SG3 105.1
RRT -.0992 RRF .1112 RTF -.7354
SGB 978.1 R23 -.0152 R13 .7363
SG1 878.4 SG2 430.1 THA 176.31

ORBIT DETERMINATION ACCURACY
ST 471.6 SR 397.7 SS 391.2
CRT -.8742 CRS -.9811 CST .9461
LSA 713.1 MSA 157.0 SSA 20.8
EL1 597.8 EL2 152.3 ALF 140.54

LAUNCH DATE JUN 26 1967 FLIGHT TIME 80.00 ARRIVAL DATE SEP 14 1967

DISTANCE 201.588

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 25.386 GAL -3.65 AZL 93.31 HCA 86.11 SMA 120.53 ECC .26873 INC 3.3090 V1 29.298
RP 108.69 LAP -3.30 LOP 359.83 VP 36.620 GAP -14.56 AZP 90.23 TAL 190.06 TAP 276.17 RCA 88.14 APO 152.93 V2 34.865
RC 47.255 GL -18.59 GP -3.96 ZAL 111.65 ZAP 5.38 ETS 46.83 ZAE 151.53 ETE 14.95 ZAC 90.23 ETC 13.67 CLP -3.64

PLANETOCENTRIC CONIC
C3 21.048 VHL 4.588 DLA -9.70 RAL 155.26 RAD 6567.9 VEL 11.934 PTH 2.12 VHP 9.065 DPA .97 RAP 176.22 ECC 1.3464

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 42 44	1920.83	-11.53	23.68	16.01	116.04	5 14 45	1320.8	-7.94	16.84
90.00	14 13 8	5176.39	25.80	231.60	20.53	77.90	15 39 24	4576.4	23.87	223.46
100.00	5 59 18	1673.82	-12.60	4.96	15.46	117.33	6 27 12	1073.8	-8.84	358.19
100.00	15 39 15	4898.64	26.97	210.88	20.23	76.59	17 0 54	4298.6	24.86	202.71
110.00	6 56 41	1494.14	-15.44	349.70	13.84	120.88	7 21 35	894.1	-11.23	343.13
110.00	16 58 21	4651.09	30.10	191.11	19.27	72.97	18 15 52	4051.1	27.47	182.90

DIFFERENTIAL CORRECTIONS
TDE .3623 TRA -.4674 TC3 .5615 BAU .1607
RDE -.3176 RRA -.1135 RC3 .1037 FAU .03327
FDE -.4166 FRA .0570 FC3-1.3685 BSP 2612
BDE .4818 BRA .4810 BC3 .5710 FSP -295

MID-COURSE EXECUTION ACCURACY
SGT 906.0 SGR 432.4 SG3 117.6
RRT -.1156 RRF .1300 RTF -.7502
SGB 1003.9 R23 -.0184 R13 .7512
SG1 907.8 SG2 428.7 THA 175.93

ORBIT DETERMINATION ACCURACY
ST 486.4 SR 398.9 SS 409.0
CRT -.8852 CRS -.9857 CST .9446
LSA 733.8 MSA 154.8 SSA 21.7
EL1 611.5 EL2 147.6 ALF 141.35

LAUNCH DATE JUN 26 1967 FLIGHT TIME 82.00 ARRIVAL DATE SEP 16 1967

DISTANCE 208.332

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 25.592 GAL -3.75 AZL 93.25 HCA 89.28 SMA 121.70 ECC .25744 INC 3.2529 V1 29.298
RP 108.66 LAP -3.25 LOP 3.01 VP 36.772 GAP -13.62 AZP 90.04 TAL 190.95 TAP 280.24 RCA 90.37 APO 153.03 V2 34.875
RC 48.458 GL -19.11 GP -4.24 ZAL 113.24 ZAP 7.16 ETS 35.45 ZAE 150.25 ETE 13.23 ZAC 89.30 ETC 13.68 CLP -5.78

PLANETOCENTRIC CONIC
C3 19.601 VHL 4.427 DLA -9.55 RAL 153.49 RAD 6567.8 VEL 11.874 PTH 2.11 VHP 8.538 DPA .30 RAP 177.04 ECC 1.3226

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 34 23	1908.98	-11.17	22.99	13.18	116.19	5 6 12	1309.0	-7.56	16.17
90.00	14 7 18	5154.26	25.47	230.06	17.44	77.19	15 33 13	4554.3	23.45	221.97
100.00	5 51 2	1661.69	-12.22	4.26	12.64	117.49	6 18 44	1061.7	-8.45	357.51
100.00	15 33 20	4876.78	26.62	209.35	17.13	75.86	16 54 37	4276.8	24.41	201.24
110.00	6 48 36	1481.40	-14.99	348.99	11.04	121.09	7 13 18	881.4	-10.76	342.44
110.00	16 52 15	4629.83	29.66	189.61	16.14	72.18	18 9 25	4029.8	26.94	181.48

DIFFERENTIAL CORRECTIONS
TDE .3616 TRA -.4384 TC3 .6410 BAU .1700
RDE -.3072 RRA -.1080 RC3 .1002 FAU .03610
FDE -.4453 FRA .0222 FC3-1.5943 BSP 2720
BDE .4745 BRA .4515 BC3 .6488 FSP -335

MID-COURSE EXECUTION ACCURACY
SGT 933.9 SGR 431.4 SG3 131.8
RRT -.1344 RRF .1516 RTF -.7638
SGB 1028.7 R23 -.0221 R13 .7650
SG1 936.2 SG2 426.4 THA 175.51

ORBIT DETERMINATION ACCURACY
ST 499.1 SR 399.9 SS 426.3
CRT -.8953 CRS -.9894 CST .9428
LSA 752.9 MSA 152.8 SSA 22.6
EL1 623.4 EL2 142.6 ALF 142.00

LAUNCH DATE JUN 26 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 18 1967

DISTANCE 215.074

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 25.780 GAL -3.84 AZL 93.20 HCA 92.46 SMA 122.78 ECC .24722 INC 3.1967 V1 29.298
RP 108.63 LAP -3.19 LOP 6.19 VP 36.913 GAP -12.72 AZP 89.86 TAL 191.87 TAP 284.33 RCA 92.43 APO 153.13 V2 34.886
RC 49.776 GL -19.55 GP -4.54 ZAL 114.84 ZAP 9.20 ETS 28.65 ZAE 149.18 ETE 11.65 ZAC 88.46 ETC 13.71 CLP -8.01

PLANETOCENTRIC CONIC
C3 18.377 VHL 4.287 DLA -9.32 RAL 151.73 RAD 6567.7 VEL 11.822 PTH 2.09 VHP 8.036 DPA -.36 RAP 177.79 ECC 1.3024

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 25 33	1901.07	-10.94	22.53	10.48	116.28	4 57 15	1301.1	-7.32	15.72
90.00	14 2 4	5131.76	25.12	228.51	14.48	76.49	15 27 36	4531.8	23.02	220.47
100.00	5 42 20	1653.38	-11.96	3.78	9.95	117.60	6 9 53	1053.4	-8.17	357.04
100.00	15 27 59	4854.68	26.24	207.81	14.16	75.14	16 48 53	4254.7	23.94	199.77
110.00	6 40 11	1472.23	-14.67	348.47	8.38	121.23	7 4 43	872.2	-10.42	341.94
110.00	16 46 37	4608.59	29.21	188.12	13.15	71.40	18 3 26	4008.6	26.40	180.07

DIFFERENTIAL CORRECTIONS
TDE .3619 TRA -.4075 TC3 .7252 BAU .1796
RDE -.2981 RRA -.1034 RC3 .0933 FAU .03936
FDE -.4778 FRA -.0194 FC3-1.8544 BSP 2870
BDE .4689 BRA .4204 BC3 .7312 FSP -385

MID-COURSE EXECUTION ACCURACY
SGT 961.9 SGR 429.9 SG3 148.1
RRT -.1588 RRF .1779 RTF -.7783
SGB 1053.6 R23 -.0249 R13 .7799
SG1 964.9 SG2 423.1 THA 174.97

ORBIT DETERMINATION ACCURACY
ST 511.6 SR 400.7 SS 444.7
CRT -.9061 CRS -.9925 CST .9415
LSA 772.5 MSA 150.6 SSA 23.5
EL1 635.3 EL2 136.5 ALF 142.62

LAUNCH DATE JUN 26 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 20 1967

HELIOCENTRIC CONIC DISTANCE 221.813

RL 152.07 LAL .00 LOL 273.73 VL 25.949 GAL -3.93 AZL 93.14 HCA 95.64 SMA 123.79 ECC .23801 INC 3.1403 VI 29.298
RP 108.59 LAP -3.13 LOP 9.38 VP 37.042 GAP -11.86 AZP 89.69 TAL 192.81 TAP 288.45 RCA 94.32 APO 153.25 V2 34.897
RC 51.201 GL -19.91 GP -4.88 ZAL 116.44 ZAP 11.41 ETS 24.28 ZAE 148.35 ETE 10.14 ZAC 87.70 ETC 13.75 CLP -10.32

PLANETOCENTRIC CONIC

C3 17.341 VHL 4.164 DLA -9.04 RAL 150.00 RAD 6567.7 VEL 11.778 PTH 2.08 VHP 7.559 DPA -1.03 RAP 178.44 ECC 1.2854

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 16 25	1896.80	-10.81	22.28	7.92	116.33	4 48 2	1296.8	-7.18	15.48
90.00	13 57 28	5109.01	24.75	226.94	11.66	75.79	15 22 37	4509.0	22.56	218.96
100.00	5 33 21	1648.61	-11.81	3.51	7.40	117.66	6 0 49	1048.6	-8.02	356.78
100.00	15 23 13	4832.42	25.84	206.28	11.34	74.43	16 43 45	4232.4	23.45	198.29
110.00	6 31 33	1466.39	-14.46	348.15	5.86	121.32	6 55 59	866.4	-10.21	341.62
110.00	16 41 31	4587.42	28.74	186.65	10.31	70.65	17 57 58	3987.4	25.83	178.68

DIFFERENTIAL CORRECTIONS
TOE .3589 TRA -.3793 TC3 .8037 BAU .1873
ROE -.2901 RRA -.0997 RC3 .0826 FAU .04301
FOE -.5118 FRA -.0661 FC3-2.1474 BSP 2960
BOE .4614 BRA .3922 BC3 .8079 FSP -439

MID-COURSE EXECUTION ACCURACY
SGT 985.5 SGR 428.1 SG3 166.3
RRT -.1840 RRF .2074 RTF -.7890
SGB 1074.5 R23 -.0306 R13 .7909
SG1 989.3 SG2 419.2 THA 174.43

ORBIT DETERMINATION ACCURACY
ST 519.0 SR 401.3 SS 461.6
CRT -.9143 CRS -.9946 CST .9389
LSA 787.7 MSA 149.7 SSA 24.3
EL1 642.8 EL2 131.2 ALF 142.94

LAUNCH DATE JUN 26 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 22 1967

HELIOCENTRIC CONIC DISTANCE 228.544

RL 152.07 LAL .00 LOL 273.73 VL 26.103 GAL -4.02 AZL 93.08 HCA 98.82 SMA 124.71 ECC .22974 INC 3.0832 VI 29.298
RP 108.56 LAP -3.05 LOP 12.56 VP 37.161 GAP -11.03 AZP 89.53 TAL 193.75 TAP 292.58 RCA 96.06 APO 153.37 V2 34.908
RC 52.722 GL -20.19 GP -5.26 ZAL 118.01 ZAP 13.77 ETS 21.28 ZAE 147.75 ETE 8.69 ZAC 87.06 ETC 13.80 CLP -12.74

PLANETOCENTRIC CONIC

C3 16.463 VHL 4.058 DLA -8.70 RAL 148.34 RAD 6567.7 VEL 11.741 PTH 2.07 VHP 7.106 DPA -1.69 RAP 178.98 ECC 1.2709

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 7 6	1895.85	-10.78	22.23	5.53	116.34	4 38 41	1295.9	-7.15	15.42
90.00	13 53 31	5086.06	24.36	225.38	9.01	75.10	15 18 18	4486.1	22.08	217.45
100.00	5 24 12	1647.08	-11.76	3.42	5.01	117.68	5 51 39	1047.1	-7.97	356.69
100.00	15 19 6	4810.07	25.42	204.75	8.69	73.72	16 39 16	4210.1	22.95	196.83
110.00	6 22 49	1463.57	-14.36	347.99	3.50	121.36	6 47 12	863.6	-10.10	341.47
110.00	16 36 59	4566.34	28.26	185.20	7.64	69.91	17 53 5	3966.3	25.26	177.31

DIFFERENTIAL CORRECTIONS
TOE .3550 TRA -.3519 TC3 .8786 BAU .1940
ROE -.2830 RRA -.0968 RC3 .0675 FAU .04717
FOE -.5494 FRA -.1199 FC3-2.4805 BSP 3046
BOE .4540 BRA .3650 BC3 .8812 FSP -501

MID-COURSE EXECUTION ACCURACY
SGT 1006.2 SGR 426.3 SG3 187.0
RRT -.2139 RRF .2422 RTF -.7982
SGB 1092.8 R23 -.0374 R13 .8007
SG1 1011.1 SG2 414.4 THA 173.77

ORBIT DETERMINATION ACCURACY
ST 523.9 SR 401.7 SS 478.8
CRT -.9218 CRS -.9960 CST .9360
LSA 801.3 MSA 149.4 SSA 25.0
EL1 648.1 EL2 125.9 ALF 143.13

LAUNCH DATE JUN 26 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 24 1967

HELIOCENTRIC CONIC DISTANCE 235.265

RL 152.07 LAL .00 LOL 273.73 VL 26.241 GAL -4.11 AZL 93.03 HCA 102.01 SMA 125.57 ECC .22234 INC 3.0251 VI 29.298
RP 108.52 LAP -2.96 LOP 15.75 VP 37.269 GAP -10.24 AZP 89.37 TAL 194.69 TAP 296.69 RCA 97.65 APO 153.49 V2 34.920
RC 54.330 GL -20.39 GP -5.69 ZAL 119.54 ZAP 16.27 ETS 19.12 ZAE 147.41 ETE 7.25 ZAC 86.54 ETC 13.86 CLP -15.27

PLANETOCENTRIC CONIC

C3 15.719 VHL 3.965 DLA -8.31 RAL 146.76 RAD 6567.6 VEL 11.709 PTH 2.06 VHP 6.677 DPA -2.35 RAP 179.39 ECC 1.2587

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 57 43	1897.86	-10.84	22.34	3.30	116.32	4 29 21	1297.9	-7.22	15.54
90.00	13 50 17	5063.01	23.95	223.81	6.54	74.42	15 14 40	4463.0	21.58	215.94
100.00	5 15 3	1648.42	-11.81	3.50	2.80	117.66	5 42 31	1048.4	-8.01	356.77
100.00	15 15 39	4787.68	24.99	203.23	6.21	73.04	16 35 27	4187.7	22.43	195.37
110.00	6 14 7	1463.47	-14.36	347.98	1.32	121.36	6 38 30	863.5	-10.10	341.47
110.00	16 33 4	4545.40	27.76	183.77	5.15	69.20	17 48 49	3945.4	24.68	175.96

DIFFERENTIAL CORRECTIONS
TOE .3495 TRA -.3256 TC3 .9476 BAU .1994
ROE -.2767 RRA -.0949 RC3 .0474 FAU .05190
FOE -.5901 FRA -.1811 FC3-2.8583 BSP 3121
BOE .4458 BRA .3391 BC3 .9488 FSP -572

MID-COURSE EXECUTION ACCURACY
SGT 1022.7 SGR 424.9 SG3 210.5
RRT -.2482 RRF .2825 RTF -.8060
SGB 1107.4 R23 -.0457 R13 .8092
SG1 1029.1 SG2 409.0 THA 173.00

ORBIT DETERMINATION ACCURACY
ST 525.4 SR 402.0 SS 495.6
CRT -.9281 CRS -.9966 CST .9327
LSA 812.5 MSA 149.9 SSA 25.6
EL1 650.4 EL2 120.9 ALF 143.13

LAUNCH DATE JUN 26 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 26 1967

HELIOCENTRIC CONIC DISTANCE 241.974

RL 152.07 LAL .00 LOL 273.73 VL 26.365 GAL -4.19 AZL 92.97 HCA 105.19 SMA 126.35 ECC .21575 INC 2.9655 VI 29.298
RP 108.48 LAP -2.86 LOP 18.94 VP 37.367 GAP -9.48 AZP 89.22 TAL 195.60 TAP 300.79 RCA 99.09 APO 153.61 V2 34.932
RC 56.016 GL -20.50 GP -6.17 ZAL 121.00 ZAP 18.93 ETS 17.51 ZAE 147.33 ETE 5.79 ZAC 86.16 ETC 13.92 CLP -17.93

PLANETOCENTRIC CONIC

C3 15.086 VHL 3.884 DLA -7.88 RAL 145.28 RAD 6567.6 VEL 11.682 PTH 2.05 VHP 6.271 DPA -3.00 RAP 179.67 ECC 1.2483

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 48 26	1902.45	-10.98	22.61	1.26	116.27	4 20 8	1302.5	-7.36	15.80
90.00	13 47 45	5039.91	23.52	222.26	4.25	73.75	15 11 45	4439.9	21.06	214.44
100.00	5 5 59	1652.29	-11.93	3.72	.76	117.61	5 33 31	1052.3	-8.14	356.98
100.00	15 12 53	4765.31	24.53	201.72	3.91	72.37	16 32 18	4165.3	21.89	193.92
110.00	6 5 33	1465.75	-14.44	348.11	359.31	121.33	6 29 59	865.7	-10.18	341.59
110.00	16 29 48	4524.61	27.25	182.37	2.84	68.52	17 45 12	3924.6	24.09	174.64

DIFFERENTIAL CORRECTIONS
TOE .3422 TRA -.3013 TC3 1.0079 BAU .2033
ROE -.2712 RRA -.0939 RC3 .0219 FAU .05725
FOE -.6339 FRA -.2503 FC3-3.2850 BSP 3172
BOE .4366 BRA .3156 BC3 1.0081 FSP -652

MID-COURSE EXECUTION ACCURACY
SGT 1034.0 SGR 424.2 SG3 237.0
RRT -.2870 RRF .3290 RTF -.8118
SGB 1117.6 R23 -.0565 R13 .8161
SG1 1042.4 SG2 403.0 THA 172.10

ORBIT DETERMINATION ACCURACY
ST 523.0 SR 402.3 SS 512.0
CRT -.9331 CRS -.9965 CST .9285
LSA 820.9 MSA 151.4 SSA 26.0
EL1 649.4 EL2 116.5 ALF 142.94

LAUNCH DATE JUN 26 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 28 1967

DISTANCE 248.668

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 26.475 GAL -4.26 AZL 92.90 HCA 108.38 SMA 127.05 ECC .20991 INC 2.9041 V1 29.298
RP 108.45 LAP -2.76 LOP 22.13 VP 37.457 GAP -8.74 AZP 89.08 TAL 196.48 TAP 304.86 RCA 100.38 APO 153.73 V2 34.945
RC 57.772 GL -20.53 GP -6.71 ZAL 122.39 ZAP 21.76 ETS 16.27 ZAE 147.52 ETE 4.25 ZAC 85.93 ETC 13.98 CLP -20.75

PLANETOCENTRIC CONIC
C3 14.545 VHL 3.814 DLA -7.41 RAL 143.91 RAD 6567.6 VEL 11.659 PTH 2.05 VHP 5.889 DPA -3.65 RAP 179.79 ECC 1.2394

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 39 19	1909.28	-11.18	23.00	359.40	116.18	4 11 9	1309.3	-7.57	16.18
90.00	13 45 55	5016.79	23.07	220.71	2.15	73.10	15 9 32	4416.8	20.53	212.95
100.00	4 57 7	1658.33	-12.12	4.07	358.91	117.54	5 24 45	1058.3	-8.34	357.32
100.00	15 10 49	4742.97	24.07	200.23	1.81	71.71	16 29 52	4143.0	21.34	192.49
110.00	5 57 14	1470.09	-14.59	348.35	357.48	121.26	6 21 44	870.1	-10.34	341.82
110.00	16 27 11	4503.98	26.73	181.00	.72	67.85	17 42 15	3904.0	23.49	173.33

DIFFERENTIAL CORRECTIONS
TDE .3335 TRA -.2787 TC3 1.0574 BAU .2056
RDE -.2664 RRA -.0940 RC3 -.0098 FAU .06331
FDE -.6820 FRA -.3290 FC3-3.7684 BSP 3208
BDE .4268 BRA .2941 BC3 1.0575 FSP -745

MID-COURSE EXECUTION ACCURACY
SGT 1039.1 SGR 425.0 SG3 267.1
RRT -.3316 RRF .3825 RTF -.8158
SGB 1122.6 R23 -.0697 R13 .8215
SG1 1050.2 SG2 396.7 THA 170.98

ORBIT DETERMINATION ACCURACY
ST 517.3 SR 402.6 SS 528.6
CRT -.9370 CRS -.9959 CST .9236
LSA 827.5 MSA 153.6 SSA 26.3
EL1 645.7 EL2 112.7 ALF 142.57

LAUNCH DATE JUN 26 1967 FLIGHT TIME 96.00 ARRIVAL DATE SEP 30 1967

DISTANCE 255.346

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 26.574 GAL -4.33 AZL 92.84 HCA 111.57 SMA 127.69 ECC .20475 INC 2.8403 V1 29.298
RP 108.41 LAP -2.64 LOP 25.32 VP 37.539 GAP -8.04 AZP 88.96 TAL 197.31 TAP 308.89 RCA 101.55 APO 153.84 V2 34.957
RC 59.590 GL -20.48 GP -7.33 ZAL 123.70 ZAP 24.77 ETS 15.29 ZAE 147.98 ETE 2.59 ZAC 85.89 ETC 14.04 CLP -23.73

PLANETOCENTRIC CONIC
C3 14.079 VHL 3.752 DLA -6.91 RAL 142.66 RAD 6567.6 VEL 11.639 PTH 2.04 VHP 5.529 DPA -4.30 RAP 179.73 ECC 1.2317

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 30 29	1918.01	-11.44	23.51	357.73	116.08	4 2 27	1318.0	-7.85	16.68
90.00	13 44 49	4993.66	22.60	219.18	.24	72.47	15 8 2	4393.7	19.99	211.48
100.00	4 48 31	1666.25	-12.37	4.53	357.25	117.43	5 16 17	1066.2	-8.60	357.77
100.00	15 9 27	4720.66	23.58	198.75	359.89	71.08	16 28 8	4120.7	20.78	191.07
110.00	5 49 13	1476.20	-14.81	348.69	355.84	121.17	6 13 49	876.2	-10.57	342.15
110.00	16 25 15	4483.47	26.20	179.64	358.80	67.21	17 39 58	3883.5	22.88	172.05

DIFFERENTIAL CORRECTIONS
TDE .3240 TRA -.2576 TC3 1.0984 BAU .2069
RDE -.2624 RRA -.0954 RC3 -.0488 FAU .07024
FDE -.7347 FRA -.4180 FC3-4.3194 BSP 3259
BDE .4169 BRA .2747 BC3 1.0995 FSP -854

MID-COURSE EXECUTION ACCURACY
SGT 1039.8 SGR 428.2 SG3 301.5
RRT -.3825 RRF .4434 RTF -.8191
SGB 1124.5 R23 -.0851 R13 .8267
SG1 1054.7 SG2 390.1 THA 169.61

ORBIT DETERMINATION ACCURACY
ST 509.4 SR 403.0 SS 545.8
CRT -.9400 CRS -.9948 CST .9184
LSA 833.5 MSA 156.5 SSA 26.3
EL1 640.3 EL2 109.4 ALF 142.06

LAUNCH DATE JUN 26 1967 FLIGHT TIME 98.00 ARRIVAL DATE OCT 2 1967

DISTANCE 262.006

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 26.661 GAL -4.39 AZL 92.77 HCA 114.77 SMA 128.27 ECC .20022 INC 2.7736 V1 29.298
RP 108.37 LAP -2.52 LOP 28.52 VP 37.612 GAP -7.36 AZP 88.84 TAL 198.09 TAP 312.86 RCA 102.59 APO 153.95 V2 34.970
RC 61.464 GL -20.36 GP -8.02 ZAL 124.91 ZAP 27.98 ETS 14.49 ZAE 148.72 ETE .75 ZAC 86.04 ETC 14.09 CLP -26.89

PLANETOCENTRIC CONIC
C3 13.674 VHL 3.698 DLA -6.38 RAL 141.54 RAD 6567.5 VEL 11.622 PTH 2.04 VHP 5.194 DPA -4.94 RAP 179.46 ECC 1.2250

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 21 58	1928.36	-11.75	24.12	356.24	115.95	3 54 6	1328.4	-8.17	17.27
90.00	13 44 26	4970.49	22.12	217.65	358.52	71.85	15 7 16	4370.5	19.43	210.01
100.00	4 40 17	1675.74	-12.66	5.07	355.77	117.30	5 8 12	1075.7	-8.91	358.30
100.00	15 8 48	4698.34	23.08	197.28	358.17	70.46	16 27 7	4098.3	20.21	189.66
110.00	5 41 35	1483.81	-15.07	349.12	354.39	121.05	6 6 18	883.8	-10.85	342.57
110.00	16 23 59	4463.04	25.65	178.30	357.06	66.59	17 38 23	3863.0	22.26	170.79

DIFFERENTIAL CORRECTIONS
TDE .3109 TRA -.2411 TC3 1.1187 BAU .2053
RDE -.2588 RRA -.0979 RC3 -.0957 FAU .07796
FDE -.7893 FRA -.5155 FC3-4.9357 BSP 3243
BDE .4045 BRA .2602 BC3 1.1228 FSP -973

MID-COURSE EXECUTION ACCURACY
SGT 1028.5 SGR 434.9 SG3 339.8
RRT -.4346 RRF .5096 RTF -.8176
SGB 1116.7 R23 -.1069 R13 .8285
SG1 1048.5 SG2 384.2 THA 167.95

ORBIT DETERMINATION ACCURACY
ST 495.4 SR 403.6 SS 561.5
CRT -.9406 CRS -.9933 CST .9110
LSA 835.0 MSA 160.5 SSA 26.2
EL1 629.9 EL2 107.8 ALF 141.19

LAUNCH DATE JUN 26 1967 FLIGHT TIME 100.00 ARRIVAL DATE OCT 4 1967

DISTANCE 268.646

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 26.738 GAL -4.44 AZL 92.70 HCA 117.96 SMA 128.78 ECC .19625 INC 2.7033 V1 29.298
RP 108.33 LAP -2.39 LOP 31.71 VP 37.679 GAP -6.71 AZP 88.73 TAL 198.81 TAP 316.77 RCA 103.50 APO 154.05 V2 34.983
RC 63.388 GL -20.15 GP -8.81 ZAL 126.03 ZAP 31.40 ETS 13.82 ZAE 149.74 ETE 358.62 ZAC 86.41 ETC 14.12 CLP -30.26

PLANETOCENTRIC CONIC
C3 13.316 VHL 3.649 DLA -5.83 RAL 140.57 RAD 6567.5 VEL 11.606 PTH 2.03 VHP 4.882 DPA -5.59 RAP 178.98 ECC 1.2191

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 13 50	1940.10	-12.10	24.80	354.93	115.80	3 46 10	1340.1	-8.53	17.94
90.00	13 44 46	4947.20	21.62	216.13	356.99	71.25	15 7 13	4347.2	18.86	208.54
100.00	4 32 25	1686.60	-13.00	5.70	354.48	117.16	5 0 32	1086.6	-9.26	358.91
100.00	15 8 52	4675.94	22.56	195.82	356.63	69.85	16 26 48	4075.9	19.62	188.26
110.00	5 34 21	1492.72	-15.39	349.62	353.11	120.91	5 59 13	892.7	-11.18	343.05
110.00	16 23 26	4442.59	25.09	176.98	355.51	65.98	17 37 28	3842.6	21.63	169.54

DIFFERENTIAL CORRECTIONS
TDE .2955 TRA -.2285 TC3 1.1200 BAU .2012
RDE -.2557 RRA -.1017 RC3 -.1518 FAU .08654
FDE -.8460 FRA -.6219 FC3-5.6261 BSP 3197
BDE .3908 BRA .2501 BC3 1.1302 FSP -1107

MID-COURSE EXECUTION ACCURACY
SGT 1006.7 SGR 446.4 SG3 382.4
RRT -.4873 RRF .5799 RTF -.8122
SGB 1101.2 R23 -.1352 R13 .8282
SG1 1033.7 SG2 379.6 THA 165.86

ORBIT DETERMINATION ACCURACY
ST 477.1 SR 404.4 SS 576.2
CRT -.9391 CRS -.9918 CST .9014
LSA 833.8 MSA 165.1 SSA 26.0
EL1 616.1 EL2 107.6 ALF 140.01

LAUNCH DATE JUN 26 1967 FLIGHT TIME 102.00 ARRIVAL DATE OCT 6 1967

HELIOCENTRIC CONIC DISTANCE 275.266

RL 152.07 LAL .00 LOL 273.73 VL 26.805 GAL -4.49 AZL 92.63 HCA 121.16 SMA 129.22 ECC .19280 INC 2.6287 V1 29.298
RP 108.29 LAP -2.25 LOP 34.91 VP 37.738 GAP -6.08 AZP 88.64 TAL 199.45 TAP 320.61 RCA 104.31 APO 154.14 V2 34.996
RC 65.357 GL -19.88 GP -9.70 ZAL 127.04 ZAP 35.06 ETS 13.23 ZAE 151.04 ETE 356.10 ZAC 87.02 ETC 14.12 CLP -33.86

PLANETOCENTRIC CONIC

C3 12.995 VHL 3.605 DLA -5.25 RAL 139.73 RAD 6567.5 VEL 11.592 PTH 2.03 VHP 4.594 DPA -6.23 RAP 178.25 ECC 1.2139

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 6 5	1953.12	-12.49	25.56	353.81	115.62	3 38 38	1353.1	-8.94	18.68
90.00	13 45 51	4923.65	21.09	214.60	355.63	70.66	15 7 54	4323.7	18.26	207.07
100.00	4 24 57	1698.70	-13.38	6.40	353.36	116.98	4 53 16	1098.7	-9.65	359.60
100.00	15 9 40	4653.31	22.02	194.35	355.26	69.26	16 27 13	4053.3	19.01	186.85
110.00	5 27 32	1502.79	-15.74	350.19	352.01	120.74	5 52 35	902.8	-11.54	343.60
110.00	16 23 34	4421.98	24.51	175.66	354.13	65.39	17 37 16	3822.0	20.98	168.28

DIFFERENTIAL CORRECTIONS
TDE .2792 TRA -.2185 TC3 1.1047 BAU .1957
RDE -.2533 RRA -.1071 RC3 -.2191 FAU .09617
FDE -.9069 FRA -.7402 FC3-6.4066 BSP 3160
BDE .3770 BRA .2434 BC3 1.1263 FSP -1265

MID-COURSE EXECUTION ACCURACY
SGT 976.2 SGR 465.1 SG3 430.3
RRT -.5393 RRF .6527 RTF -.8035
SGB 1081.3 R23 -.1692 R13 .8275
SG1 1013.4 SG2 377.3 THA 163.19

ORBIT DETERMINATION ACCURACY
ST 456.6 SR 405.9 SS 591.7
CRT -.9358 CRS -.9902 CST .8902
LSA 832.9 MSA 170.1 SSA 25.7
EL1 601.1 EL2 108.7 ALF 138.59

LAUNCH DATE JUN 26 1967 FLIGHT TIME 104.00 ARRIVAL DATE OCT 8 1967

HELIOCENTRIC CONIC DISTANCE 281.864

RL 152.07 LAL .00 LOL 273.73 VL 26.862 GAL -4.52 AZL 92.55 HCA 124.36 SMA 129.61 ECC .18981 INC 2.5487 V1 29.298
RP 108.25 LAP -2.10 LOP 38.11 VP 37.792 GAP -5.47 AZP 88.56 TAL 200.01 TAP 324.37 RCA 105.01 APO 154.22 V2 35.009
RC 67.365 GL -19.52 GP -10.70 ZAL 127.95 ZAP 38.97 ETS 12.68 ZAE 152.60 ETE 353.02 ZAC 87.89 ETC 14.08 CLP -37.70

PLANETOCENTRIC CONIC

C3 12.702 VHL 3.564 DLA -4.64 RAL 139.04 RAD 6567.5 VEL 11.580 PTH 2.03 VHP 4.330 DPA -6.88 RAP 177.25 ECC 1.2090

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 58 44	1967.30	-12.90	26.40	352.86	115.43	3 31 32	1367.3	-9.37	19.50
90.00	13 47 41	4899.66	20.54	213.05	354.45	70.07	15 9 21	4299.7	17.64	205.58
100.00	4 17 54	1711.93	-13.78	7.18	352.42	116.79	4 46 26	1111.9	-10.08	.35
100.00	15 11 13	4630.26	21.46	192.87	354.08	68.68	16 28 23	4030.3	18.37	185.44
110.00	5 21 9	1513.93	-16.12	350.82	351.09	120.56	5 46 23	913.9	-11.95	344.21
110.00	16 24 27	4401.04	23.91	174.33	352.94	64.81	17 37 48	3801.0	20.32	167.03

DIFFERENTIAL CORRECTIONS
TDE .2585 TRA -.2155 TC3 1.0585 BAU .1868
RDE -.2511 RRA -.1138 RC3 -.2982 FAU .10647
FDE -.9631 FRA -.8610 FC3-7.2568 BSP 3039
BDE .3604 BRA .2437 BC3 1.0997 FSP -1428

MID-COURSE EXECUTION ACCURACY
SGT 928.9 SGR 491.7 SG3 481.7
RRT -.5787 RRF .7220 RTF -.7847
SGB 1051.0 R23 -.2143 R13 .8232
SG1 979.9 SG2 380.2 THA 159.80

ORBIT DETERMINATION ACCURACY
ST 429.1 SR 407.4 SS 602.7
CRT -.9275 CRS -.9887 CST .8732
LSA 825.7 MSA 175.7 SSA 25.3
EL1 580.9 EL2 112.5 ALF 136.60

LAUNCH DATE JUN 26 1967 FLIGHT TIME 106.00 ARRIVAL DATE OCT 10 1967

HELIOCENTRIC CONIC DISTANCE 288.441

RL 152.07 LAL .00 LOL 273.73 VL 26.911 GAL -4.54 AZL 92.46 HCA 127.56 SMA 129.95 ECC .18723 INC 2.4624 V1 29.298
RP 108.20 LAP -1.95 LOP 41.31 VP 37.839 GAP -4.89 AZP 88.50 TAL 200.49 TAP 328.05 RCA 105.62 APO 154.28 V2 35.023
RC 69.409 GL -19.08 GP -11.84 ZAL 128.76 ZAP 43.15 ETS 12.14 ZAE 154.39 ETE 349.13 ZAC 89.04 ETC 13.98 CLP -41.81

PLANETOCENTRIC CONIC

C3 12.428 VHL 3.525 DLA -4.00 RAL 138.50 RAD 6567.5 VEL 11.568 PTH 2.02 VHP 4.092 DPA -7.55 RAP 175.97 ECC 1.2045

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 51 45	1982.70	-13.35	27.31	352.08	115.20	3 24 48	1382.7	-9.85	20.38
90.00	13 50 20	4874.95	19.96	211.47	353.43	69.49	15 11 35	4275.0	16.99	204.06
100.00	4 11 13	1726.34	-14.22	8.02	351.65	116.57	4 39 59	1126.3	-10.54	1.16
100.00	15 13 33	4606.55	20.87	191.36	353.06	68.10	16 30 20	4006.5	17.71	183.99
110.00	5 15 10	1526.14	-16.55	351.52	350.34	120.35	5 40 36	926.1	-12.39	344.87
110.00	16 26 6	4379.52	23.28	172.97	351.90	64.23	17 39 5	3779.5	19.62	165.74

DIFFERENTIAL CORRECTIONS
TDE .2354 TRA -.2182 TC3 .9833 BAU .1758
RDE -.2491 RRA -.1219 RC3 -.3914 FAU .11747
FDE-1.0149 FRA -.9841 FC3-8.1826 BSP 2889
BDE .3427 BRA .2500 BC3 1.0583 FSP -1604

MID-COURSE EXECUTION ACCURACY
SGT 868.0 SGR 528.7 SG3 536.6
RRT -.6005 RRF .7852 RTF -.7533
SGB 1016.3 R23 -.2672 R13 .8181
SG1 938.0 SG2 391.2 THA 155.35

ORBIT DETERMINATION ACCURACY
ST 397.7 SR 409.3 SS 610.6
CRT -.9135 CRS -.9874 CST .8494
LSA 815.4 MSA 181.7 SSA 24.9
EL1 558.2 EL2 118.6 ALF 134.10

LAUNCH DATE JUN 26 1967 FLIGHT TIME 108.00 ARRIVAL DATE OCT 12 1967

HELIOCENTRIC CONIC DISTANCE 294.995

RL 152.07 LAL .00 LOL 273.73 VL 26.953 GAL -4.56 AZL 92.37 HCA 130.77 SMA 130.24 ECC .18503 INC 2.3682 V1 29.298
RP 108.16 LAP -1.79 LOP 44.52 VP 37.881 GAP -4.32 AZP 88.45 TAL 200.88 TAP 331.65 RCA 106.14 APO 154.33 V2 35.036
RC 71.485 GL -18.56 GP -13.11 ZAL 129.47 ZAP 47.60 ETS 11.57 ZAE 156.34 ETE 344.10 ZAC 90.46 ETC 13.79 CLP -46.18

PLANETOCENTRIC CONIC

C3 12.167 VHL 3.488 DLA -3.31 RAL 138.10 RAD 6567.5 VEL 11.557 PTH 2.02 VHP 3.881 DPA -8.24 RAP 174.38 ECC 1.2002

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 45 4	1999.46	-13.83	28.30	351.47	114.95	3 18 23	1399.5	-10.36	21.35
90.00	13 53 52	4849.17	19.34	209.84	352.57	68.90	15 14 41	4249.2	16.30	202.48
100.00	4 4 52	1742.06	-14.70	8.94	351.04	116.32	4 33 54	1142.1	-11.05	2.06
100.00	15 16 46	4581.81	20.23	189.80	352.19	67.51	16 33 7	3981.8	17.01	182.49
110.00	5 9 33	1539.53	-17.00	352.29	349.76	120.11	5 35 13	939.5	-12.88	345.61
110.00	16 28 33	4357.09	22.61	171.58	351.03	63.65	17 41 11	3757.1	18.89	164.42

DIFFERENTIAL CORRECTIONS
TDE .2115 TRA -.2250 TC3 .8814 BAU .1650
RDE -.2476 RRA -.1319 RC3 -.5022 FAU .12920
FDE-1.0640 FRA-1.1115 FC3-9.1931 BSP 2763
BDE .3257 BRA .2608 BC3 1.0145 FSP -1802

MID-COURSE EXECUTION ACCURACY
SGT 797.4 SGR 579.0 SG3 595.7
RRT -.5987 RRF .8404 RTF -.7047
SGB 985.4 R23 -.3171 R13 .8179
SG1 894.5 SG2 413.4 THA 149.27

ORBIT DETERMINATION ACCURACY
ST 365.2 SR 412.0 SS 617.7
CRT -.8923 CRS -.9864 CST .8174
LSA 805.5 MSA 187.6 SSA 24.4
EL1 535.8 EL2 126.8 ALF 131.14

LAUNCH DATE JUN 26 1967 FLIGHT TIME 110.00 ARRIVAL DATE OCT 14 1967

HELIOCENTRIC CONIC DISTANCE 301.526

```
RL  152.07 LAL    .00 LOL 273.73 VL  26.987 GAL  -4.56 AZL  92.26 HCA 133.97 SMA 130.47 ECC .18317 INC 2.2644 V1  29.298
RP  108.12 LAP  -1.63 LOP  47.72 VP  37.917 GAP  -3.78 AZP  88.43 TAL 201.18 TAP 335.16 RCA 106.57 APO 154.37 V2  35.049
RC  73.590 GL  -17.94 GP  -14.53 ZAL 130.09 ZAP  52.31 ETS  10.92 ZAE 158.34 ETE 337.49 ZAC  92.18 ETC  13.51 CLP -50.84
```

PLANETOCENTRIC CONIC

```
C3  11.911 VHL  3.451 DLA  -2.58 RAL 137.86 RAD 6567.5 VEL 11.546 PTH   2.02 VHP  3.698 DPA  -8.96 RAP 172.50 ECC 1.1960
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 38 37	2017.82	-14.36	29.39	351.02	114.67	3 12 15	1417.8	-10.91	22.41
90.00	13 58 22	4821.86	18.66	208.12	351.87	68.31	15 18 44	4221.9	15.55	200.82
100.00	3 58 46	1759.30	-15.22	9.96	350.60	116.04	4 28 5	1159.3	-11.60	3.05
100.00	15 20 55	4555.61	19.54	188.16	351.49	66.92	16 36 51	3955.6	16.25	180.91
110.00	5 4 15	1554.30	-17.51	353.14	349.34	119.84	5 30 9	954.3	-13.41	346.43
110.00	16 31 55	4333.37	21.89	170.12	350.32	63.06	17 44 9	3733.4	18.10	163.03

DIFFERENTIAL CORRECTIONS

```
TDE  .1837 TRA -.2397 TC3  .7374 BAU  .1545
RDE -.2455 RRA -.1426 RC3 -.6301 FAU .14075
FDE-1.0931 FRA-1.2244 FC-10.2299 BSP   2606
BDE  .3066 BRA  .2789 BC3  .9699 FSP  -1993
```

MID-COURSE EXECUTION ACCURACY

```
SGT  714.7 SGR  641.5 SG3  654.0
RRT -.5481 RRF  .8842 RTF -.6168
SGB  960.3 R23 -.3497 R13  .8274
SG1  846.9 SG2  452.8 THA 140.59
```

ORBIT DETERMINATION ACCURACY

```
ST   327.9 SR   413.9 SS   615.4
CRT -.8546 CRS -.9855 CST  .7658
LSA  787.0 MSA  193.9 SSA   24.0
EL1  509.7 EL2  138.3 ALF 127.31
```

LAUNCH DATE JUN 26 1967 FLIGHT TIME 112.00 ARRIVAL DATE OCT 16 1967

HELIOCENTRIC CONIC DISTANCE 308.034

```
RL  152.07 LAL    .00 LOL 273.73 VL  27.015 GAL  -4.56 AZL  92.15 HCA 137.18 SMA 130.66 ECC .18160 INC 2.1486 V1  29.298
RP  108.08 LAP  -1.46 LOP  50.93 VP  37.949 GAP  -3.25 AZP  88.42 TAL 201.40 TAP 338.58 RCA 106.93 APO 154.39 V2  35.062
RC  75.721 GL  -17.20 GP  -16.12 ZAL 130.60 ZAP  57.28 ETS  10.17 ZAE 160.19 ETE 328.73 ZAC  94.16 ETC  13.09 CLP -55.76
```

PLANETOCENTRIC CONIC

```
C3  11.656 VHL  3.414 DLA  -1.78 RAL 137.77 RAD 6567.4 VEL 11.534 PTH   2.01 VHP  3.543 DPA  -9.73 RAP 170.31 ECC 1.1918
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 32 18	2038.23	-14.94	30.61	350.75	114.34	3 6 16	1438.2	-11.53	23.60
90.00	14 4 0	4792.38	17.91	206.28	351.32	67.69	15 23 52	4192.4	14.73	199.05
100.00	3 52 49	1778.50	-15.79	11.10	350.33	115.72	4 22 27	1178.5	-12.20	4.15
100.00	15 26 10	4527.34	18.78	186.41	350.93	66.30	16 41 37	3927.3	15.41	179.23
110.00	4 59 10	1570.81	-18.06	354.09	349.09	119.53	5 25 21	970.8	-14.00	347.34
110.00	16 36 18	4307.80	21.09	168.56	349.75	62.45	17 48 6	3707.8	17.23	161.55

DIFFERENTIAL CORRECTIONS

```
TDE  .1546 TRA -.2602 TC3  .5544 BAU  .1489
RDE -.2426 RRA -.1542 RC3 -.7785 FAU .15187
FDE-1.1006 FRA-1.3202 FC-11.2796 BSP   2508
BDE  .2877 BRA  .3025 BC3  .9557 FSP  -2180
```

MID-COURSE EXECUTION ACCURACY

```
SGT  633.7 SGR  717.9 SG3  710.6
RRT -.4259 RRF  .9180 RTF -.4656
SGB  957.6 R23 -.3133 R13  .8668
SG1  812.7 SG2  506.5 THA 126.81
```

ORBIT DETERMINATION ACCURACY

```
ST   291.0 SR   414.8 SS   605.1
CRT -.7926 CRS -.9847 CST  .6865
LSA  763.0 MSA  200.4 SSA   23.7
EL1  483.3 EL2  152.3 ALF 122.73
```

LAUNCH DATE JUN 26 1967 FLIGHT TIME 114.00 ARRIVAL DATE OCT 18 1967

HELIOCENTRIC CONIC DISTANCE 314.518

```
RL  152.07 LAL    .00 LOL 273.73 VL  27.036 GAL  -4.54 AZL  92.02 HCA 140.39 SMA 130.81 ECC .18030 INC 2.0177 V1  29.298
RP  108.04 LAP  -1.29 LOP  54.14 VP  37.976 GAP  -2.74 AZP  88.45 TAL 201.52 TAP 341.91 RCA 107.23 APO 154.40 V2  35.075
RC  77.874 GL  -16.32 GP  -17.89 ZAL 131.03 ZAP  62.45 ETS   9.28 ZAE 161.61 ETE 317.40 ZAC  96.38 ETC  12.51 CLP -60.92
```

PLANETOCENTRIC CONIC

```
C3  11.398 VHL  3.376 DLA   -.88 RAL 137.84 RAD 6567.4 VEL 11.523 PTH   2.01 VHP  3.419 DPA -10.57 RAP 167.85 ECC 1.1876
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 25 56	2061.38	-15.58	32.01	350.64	113.95	3 0 17	1461.4	-12.21	24.95
90.00	14 10 56	4759.90	17.06	204.28	350.92	67.05	15 30 16	4159.9	13.80	197.12
100.00	3 46 52	1800.31	-16.43	12.41	350.23	115.33	4 16 52	1200.3	-12.88	5.41
100.00	15 32 41	4496.20	17.91	184.50	350.53	65.66	16 47 37	3896.2	14.48	177.39
110.00	4 54 10	1589.63	-18.69	355.19	349.01	119.16	5 20 40	989.6	-14.66	348.39
110.00	16 41 52	4279.66	20.19	166.87	349.34	61.82	17 53 12	3679.7	16.27	159.94

DIFFERENTIAL CORRECTIONS

```
TDE  .1264 TRA -.2848 TC3  .3331 BAU  .1535
RDE -.2388 RRA -.1668 RC3 -.9510 FAU .16219
FDE-1.0862 FRA-1.3971 FC-12.3189 BSP   2560
BDE  .2702 BRA  .3300 BC3 1.0076 FSP  -2365
```

MID-COURSE EXECUTION ACCURACY

```
SGT  574.6 SGR  810.4 SG3  764.1
RRT -.2031 RRF  .9432 RTF -.2205
SGB  993.5 R23 -.1376 R13  .9335
SG1  825.9 SG2  552.1 THA 105.04
```

ORBIT DETERMINATION ACCURACY

```
ST   259.0 SR   414.6 SS   588.3
CRT -.6963 CRS -.9839 CST  .5699
LSA  736.0 MSA  206.9 SSA   23.3
EL1  459.1 EL2  167.9 ALF 117.49
```

LAUNCH DATE JUN 26 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 20 1967

HELIOCENTRIC CONIC DISTANCE 320.980

```
RL  152.07 LAL    .00 LOL 273.73 VL  27.052 GAL  -4.52 AZL  91.87 HCA 143.61 SMA 130.92 ECC .17924 INC 1.8678 V1  29.298
RP  108.00 LAP  -1.11 LOP  57.35 VP  37.999 GAP  -2.24 AZP  88.50 TAL 201.55 TAP 345.16 RCA 107.45 APO 154.39 V2  35.088
RC  80.046 GL  -15.27 GP  -19.84 ZAL 131.37 ZAP  67.79 ETS   8.19 ZAE 162.22 ETE 303.68 ZAC  98.80 ETC  11.75 CLP -66.30
```

PLANETOCENTRIC CONIC

```
C3  11.133 VHL  3.337 DLA    .15 RAL 138.08 RAD 6567.4 VEL 11.512 PTH   2.01 VHP  3.327 DPA -11.53 RAP 165.13 ECC 1.1832
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 19 18	2088.26	-16.32	33.64	350.72	113.47	2 54 7	1488.3	-13.00	26.53
90.00	14 19 30	4723.28	16.07	202.04	350.68	66.37	15 38 13	4123.3	12.74	194.95
100.00	3 40 43	1825.66	-17.16	13.93	350.33	114.86	4 11 9	1225.7	-13.67	6.88
100.00	15 40 46	4461.11	16.92	182.37	350.28	64.98	16 55 7	3861.1	13.40	175.34
110.00	4 49 7	1611.57	-19.41	356.48	349.13	118.70	5 15 59	1011.6	-15.43	349.63
110.00	16 48 51	4247.97	19.16	164.99	349.08	61.14	17 59 39	3648.0	15.17	158.15

DIFFERENTIAL CORRECTIONS

```
TDE  .0979 TRA -.3151 TC3  .0629 BAU  .1707
RDE -.2319 RRA -.1781 RC3-1.1450 FAU .17027
FDE-1.0274 FRA-1.4292 FC-13.2415 BSP   2769
BDE  .2518 BRA  .3619 BC3 1.1467 FSP  -2510
```

MID-COURSE EXECUTION ACCURACY

```
SGT  568.1 SGR  914.3 SG3  806.9
RRT  .1279 RRF  .9609 RTF  .1245
SGB 1076.5 R23  .0729 R13  .9581
SG1  919.0 SG2  560.6 THA  82.74
```

ORBIT DETERMINATION ACCURACY

```
ST   233.7 SR   409.4 SS   554.8
CRT -.5447 CRS -.9826 CST  .3936
LSA  695.5 MSA  214.0 SSA   23.2
EL1  433.5 EL2  185.1 ALF 111.35
```

LAUNCH DATE JUN 26 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 22 1967

HELIOCENTRIC CONIC DISTANCE 327.418

RL 152.07 LAL .00 LOL 273.73 VL 27.062 GAL -4.48 AZL 91.69 HCA 146.82 SMA 130.99 ECC .17839 INC 1.6930 V1 29.298
RP 107.96 LAP -.93 LOP 60.56 VP 38.018 GAP -1.76 AZP 88.58 TAL 201.49 TAP 348.31 RCA 107.62 APO 154.36 V2 35.101
RC 82.236 GL -14.00 GP -22.02 ZAL 131.63 ZAP 73.21 ETS 6.87 ZAE 161.66 ETE 288.97 ZAC 101.36 ETC 10.76 CLP -71.84

PLANETOCENTRIC CONIC

C3 10.857 VHL 3.295 DLA 1.35 RAL 138.51 RAD 6567.4 VEL 11.500 PTH 2.00 VHP 3.270 DPA -12.64 RAP 162.20 ECC 1.1787

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 12 6	2120.35	-17.18	35.60	351.01	112.86	2 47 27	1520.4	-13.93	28.43
90.00	14 30 6	4680.89	14.90	199.49	350.60	65.64	15 48 7	4080.9	11.49	192.47
100.00	3 34 5	1855.95	-18.02	15.77	350.63	114.26	4 5 0	1256.0	-14.59	8.66
100.00	15 50 49	4420.52	15.73	179.94	350.20	64.25	17 4 30	3820.5	12.14	172.99
110.00	4 43 45	1637.85	-20.27	358.05	349.40	118.14	5 11 3	1037.8	-16.35	351.12
110.00	16 57 38	4211.39	17.95	162.85	348.98	60.41	18 7 49	3611.4	13.87	156.10

DIFFERENTIAL CORRECTIONS

TDE .0729 TRA -.3477 TC3 -.2522 BAU .2012
RDE -.2211 RRA -.1878 RC3-1.3632 FAU .17558
FDE -.9244 FRA-1.4149 FC-14.0007 BSP 3185
BDE .2328 BRA .3952 BC3 1.3864 FSP -2612

MID-COURSE EXECUTION ACCURACY

SGT 639.9 SGR 1030.3 SG3 836.6
RRT .4521 RRF .9733 RTF .4548
SGB 1212.9 R23 .1691 R13 .9586
SG1 1085.0 SG2 542.0 THA 68.78

ORBIT DETERMINATION ACCURACY

ST 221.4 SR 397.6 SS 505.8
CRT -.3503 CRS -.9801 CST .1728
LSA 642.9 MSA 221.7 SSA 23.3
EL1 407.7 EL2 202.3 ALF 104.74

LAUNCH DATE JUN 26 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 24 1967

HELIOCENTRIC CONIC DISTANCE 333.833

RL 152.07 LAL .00 LOL 273.73 VL 27.067 GAL -4.43 AZL 91.49 HCA 150.04 SMA 131.03 ECC .17774 INC 1.4851 V1 29.298
RP 107.92 LAP -.74 LOP 63.78 VP 38.034 GAP -1.30 AZP 88.71 TAL 201.35 TAP 351.39 RCA 107.74 APO 154.32 V2 35.113
RC 84.440 GL -12.42 GP -24.44 ZAL 131.81 ZAP 78.62 ETS 5.26 ZAE 159.82 ETE 275.36 ZAC 103.98 ETC 9.51 CLP -77.48

PLANETOCENTRIC CONIC

C3 10.571 VHL 3.251 DLA 2.80 RAL 139.15 RAD 6567.4 VEL 11.487 PTH 2.00 VHP 3.249 DPA -13.97 RAP 159.12 ECC 1.1740

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 3 52	2159.95	-18.21	38.05	351.56	112.07	2 39 52	1559.9	-15.05	30.79
90.00	14 43 25	4630.40	13.46	196.48	350.72	64.85	16 0 36	4030.4	9.96	189.55
100.00	3 26 30	1893.37	-19.05	18.07	351.19	113.48	3 58 4	1293.4	-15.71	10.87
100.00	16 3 28	4372.22	14.28	177.08	350.31	63.46	17 16 20	3772.2	10.60	170.22
110.00	4 37 45	1670.40	-21.30	.01	350.05	117.39	5 5 35	1070.4	-17.46	352.98
110.00	17 8 43	4167.95	16.47	160.35	349.08	59.61	18 18 11	3568.0	12.31	153.71

DIFFERENTIAL CORRECTIONS

TDE .0550 TRA -.3800 TC3 -.6085 BAU .2433
RDE -.2051 RRA -.1954 RC3-1.6106 FAU .17777
FDE -.7791 FRA-1.3563 FC-14.5597 BSP 3805
BDE .2124 BRA .4273 BC3 1.7217 FSP -2677

MID-COURSE EXECUTION ACCURACY

SGT 784.5 SGR 1160.3 SG3 852.0
RRT .6706 RRF .9820 RTF .6744
SGB 1400.6 R23 .1958 R13 .9625
SG1 1300.9 SG2 519.1 THA 60.45

ORBIT DETERMINATION ACCURACY

ST 223.6 SR 377.3 SS 442.1
CRT -.1644 CRS -.9750 CST -.0417
LSA 577.8 MSA 231.1 SSA 23.6
EL1 380.0 EL2 219.0 ALF 98.36

LAUNCH DATE JUN 26 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 26 1967

HELIOCENTRIC CONIC DISTANCE 340.226

RL 152.07 LAL .00 LOL 273.73 VL 27.068 GAL -4.38 AZL 91.23 HCA 153.26 SMA 131.04 ECC .17727 INC 1.2320 V1 29.298
RP 107.89 LAP -.55 LOP 67.00 VP 38.045 GAP -.84 AZP 88.90 TAL 201.12 TAP 354.38 RCA 107.81 APO 154.27 V2 35.125
RC 86.655 GL -10.43 GP -27.17 ZAL 131.89 ZAP 83.90 ETS 3.31 ZAE 156.81 ETE 264.31 ZAC 106.56 ETC 7.96 CLP -83.14

PLANETOCENTRIC CONIC

C3 10.275 VHL 3.205 DLA 4.61 RAL 140.03 RAD 6567.4 VEL 11.474 PTH 1.99 VHP 3.269 DPA -15.60 RAP 155.91 ECC 1.1691

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 53 51	2210.61	-19.47	41.23	352.44	110.97	2 30 41	1610.6	-16.45	33.86
90.00	15 0 29	4568.27	11.63	192.83	351.09	64.00	16 16 37	3968.3	8.04	185.99
100.00	3 17 21	1941.26	-20.32	21.06	352.08	112.41	3 49 42	1341.3	-17.11	13.74
100.00	16 19 40	4312.86	12.45	173.63	350.67	62.60	17 31 33	3712.9	8.68	166.87
110.00	4 30 33	1712.14	-22.58	2.57	350.98	116.37	4 59 6	1112.1	-18.86	355.41
110.00	17 22 57	4114.74	14.61	157.34	349.42	58.75	18 31 32	3514.7	10.37	150.81

DIFFERENTIAL CORRECTIONS

TDE .0471 TRA -.4101 TC3-1.0087 BAU .2933
RDE -.1795 RRA -.1971 RC3-1.8817 FAU .17546
FDE -.5717 FRA-1.2310 FC-14.7839 BSP 4554
BDE .1856 BRA .4550 BC3 2.1351 FSP -2663

MID-COURSE EXECUTION ACCURACY

SGT 982.9 SGR 1297.4 SG3 845.4
RRT .7945 RRF .9879 RTF .7972
SGB 1627.7 R23 .2001 R13 .9677
SG1 1549.0 SG2 499.9 THA 54.75

ORBIT DETERMINATION ACCURACY

ST 236.9 SR 339.9 SS 353.1
CRT -.0360 CRS -.9610 CST -.2217
LSA 486.1 MSA 243.8 SSA 25.0
EL1 340.2 EL2 236.6 ALF 92.78

LAUNCH DATE JUN 26 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 28 1967

HELIOCENTRIC CONIC DISTANCE 346.596

RL 152.07 LAL .00 LOL 273.73 VL 27.065 GAL -4.31 AZL 90.92 HCA 156.48 SMA 131.02 ECC .17695 INC .9155 V1 29.298
RP 107.85 LAP -.37 LOP 70.21 VP 38.054 GAP -.41 AZP 89.16 TAL 200.81 TAP 357.30 RCA 107.83 APO 154.20 V2 35.137
RC 88.880 GL -7.84 GP -30.31 ZAL 131.87 ZAP 88.93 ETS .95 ZAE 152.83 ETE 256.08 ZAC 109.02 ETC 6.05 CLP -88.76

PLANETOCENTRIC CONIC

C3 9.977 VHL 3.159 DLA 6.94 RAL 141.23 RAD 6567.4 VEL 11.461 PTH 1.99 VHP 3.336 DPA -17.67 RAP 152.61 ECC 1.1642

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 40 50	2278.29	-21.06	45.56	353.79	109.38	2 18 49	1678.3	-18.23	38.03
90.00	15 23 1	4488.83	9.22	188.24	351.81	63.11	16 37 50	3888.8	5.54	181.49
100.00	3 5 30	2005.23	-21.93	25.14	353.45	110.84	3 38 55	1405.2	-18.90	17.65
100.00	16 41 3	4237.11	10.04	169.30	351.38	61.70	17 51 40	3637.1	6.18	162.63
110.00	4 21 19	1767.94	-24.23	6.06	352.40	114.89	4 50 47	1167.9	-20.67	358.73
110.00	17 41 43	4047.17	12.19	153.60	350.10	57.82	18 49 10	3447.2	7.86	147.19

DIFFERENTIAL CORRECTIONS

TDE .0556 TRA -.4334 TC3-1.4460 BAU .3495
RDE -.1422 RRA -.1932 RC3-2.1852 FAU .16887
FDE -.3184 FRA-1.0581 FC-14.6538 BSP 5427
BDE .1527 BRA .4745 BC3 2.6203 FSP -2590

MID-COURSE EXECUTION ACCURACY

SGT 1213.2 SGR 1448.0 SG3 818.6
RRT .8621 RRF .9921 RTF .8638
SGB 1889.1 R23 .1946 R13 .9729
SG1 1825.0 SG2 487.7 THA 50.83

ORBIT DETERMINATION ACCURACY

ST 259.6 SR 282.0 SS 249.1
CRT .0038 CRS -.9106 CST -.3886
LSA 373.3 MSA 262.3 SSA 27.8
EL1 282.0 EL2 259.5 ALF 88.69

LAUNCH DATE JUN 26 1967 FLIGHT TIME 126.00 ARRIVAL DATE OCT 30 1967

HELIOCENTRIC CONIC DISTANCE 352.943

```
RL  152.07 LAL    .00 LOL 273.73 VL  27.058 GAL  -4.23 AZL  90.50 HCA 159.71 SMA 130.97 ECC .17677 INC  .5033 VI  29.298
RP  107.82 LAP   -.17 LOP  73.44 VP  38.060 GAP    .02 AZP  89.53 TAL 200.43 TAP    .14 RCA 107.82 APO 154.12 V2  35.149
RC  91.113 GL   -4.37 GP  -34.01 ZAL 131.67 ZAP  93.55 ETS 358.10 ZAE 148.03 ETE 250.27 ZAC 111.24 ETC   3.69 CLP -94.28
```

PLANETOCENTRIC CONIC

```
C3   9.698 VHL  3.114 DLA  10.07 RAL 142.84 RAD 6567.3 VEL 11.449 PTH   1.99 VHP  3.463 DPA -20.32 RAP 149.19 ECC 1.1596
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 22 37	2373.58	-23.08	51.81	355.88	106.87	2 2 11	1773.6	-20.55	44.05
90.00	15 54 9	4382.31	5.89	182.18	353.12	62.25	17 7 11	3782.3	2.13	175.52
100.00	2 48 57	2095.17	-23.98	31.02	355.56	108.40	3 23 52	1495.2	-21.25	23.30
100.00	17 10 30	4135.95	6.72	163.62	352.66	60.80	18 19 26	3535.9	2.78	157.05
110.00	4 8 30	1846.21	-26.37	11.13	354.58	112.58	4 39 16	1246.2	-23.08	3.52
110.00	18 7 26	3957.67	8.90	148.76	351.33	56.86	19 13 24	3357.7	4.48	142.46

DIFFERENTIAL CORRECTIONS

```
TDE  .0901 TRA -.4446 TC3-1.9099 BAU  .4086
RDE -.0832 RRA -.1769 RC3-2.5068 FAU .15674
FDE -.0006 FRA -.8197 FC-13.9920 BSP   6338
BDE  .1226 BRA  .4785 BC3 3.1515 FSP  -2417
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1460.4 SGR 1603.2 SG3  764.5
RRT  .8997 RRF  .9948 RTF  .9007
SGB 2168.7 R23  .1882 R13  .9770
SG1 2114.1 SG2  483.4 THA  47.97
```

ORBIT DETERMINATION ACCURACY

```
ST   301.4 SR   188.3 SS   158.2
CRT  .0178 CRS -.5824 CST -.7760
LSA  329.2 MSA  204.0 SSA   36.5
EL1  301.5 EL2  188.2 ALF   1.04
```

LAUNCH DATE JUN 26 1967 FLIGHT TIME 128.00 ARRIVAL DATE NOV 1 1967

HELIOCENTRIC CONIC DISTANCE 359.268

```
RL  152.07 LAL    .00 LOL 273.73 VL  27.048 GAL  -4.14 AZL  89.94 HCA 162.93 SMA 130.89 ECC .17674 INC  .0504 VI  29.298
RP  107.78 LAP    .02 LOP  76.66 VP  38.063 GAP   -.44 AZP  90.05 TAL 199.97 TAP   2.90 RCA 107.76 APO 154.03 V2  35.160
RC  93.352 GL     .49 GP  -38.53 ZAL 131.15 ZAP  97.55 ETS 354.62 ZAE 142.40 ETE 246.36 ZAC 113.11 ETC    .78 CLP -99.67
```

PLANETOCENTRIC CONIC

```
C3   9.496 VHL  3.082 DLA  14.45 RAL 145.09 RAD 6567.3 VEL 11.441 PTH   1.98 VHP  3.674 DPA -23.80 RAP 145.56 ECC 1.1563
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	0 54 23	2518.01	-25.59	61.65	359.24	102.56	1 36 21	1918.0	-23.60	53.54
90.00	16 40 21	4229.59	.99	173.63	355.51	61.70	17 50 50	3629.6	-2.80	167.00
100.00	2 23 27	2230.76	-26.58	40.26	358.97	104.20	3 0 38	1630.8	-24.37	32.16
100.00	17 53 58	3992.08	1.89	155.67	355.01	60.16	19 0 30	3392.1	-2.10	149.15
110.00	3 48 59	1963.12	-29.18	19.06	358.11	108.65	4 21 42	1363.1	-26.36	11.02
110.00	18 44 55	3832.49	4.19	142.13	353.58	56.04	19 48 47	3232.5	-.30	135.92

DIFFERENTIAL CORRECTIONS

```
TDE  .1650 TRA -.4371 TC3-2.3811 BAU  .4717
RDE  .0046 RRA -.1479 RC3-2.8528 FAU .14018
FDE  .3454 FRA -.5536 FC-12.7803 BSP   7371
BDE  .1650 BRA  .4615 BC3 3.7159 FSP  -2194
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1718.1 SGR 1781.0 SG3  689.0
RRT  .9219 RRF  .9968 RTF  .9232
SGB 2474.7 R23  .1789 R13  .9807
SG1 2426.0 SG2  488.6 THA  46.12
```

ORBIT DETERMINATION ACCURACY

```
ST   399.3 SR   100.6 SS   239.7
CRT  .6578 CRS -.5947 CST -.9544
LSA  466.2 MSA   78.7 SSA   58.4
EL1  404.9 EL2   74.7 ALF   9.74
```

LAUNCH DATE JUN 26 1967 FLIGHT TIME 130.00 ARRIVAL DATE NOV 3 1967

HELIOCENTRIC CONIC DISTANCE 365.569

```
RL  152.07 LAL    .00 LOL 273.73 VL  27.034 GAL  -4.04 AZL  89.13 HCA 166.15 SMA 130.80 ECC .17682 INC  .8667 VI  29.298
RP  107.75 LAP    .21 LOP  79.88 VP  38.063 GAP    .84 AZP  90.84 TAL 199.44 TAP   5.59 RCA 107.67 APO 153.93 V2  35.170
RC  95.596 GL    7.59 GP  -44.24 ZAL 129.88 ZAP 100.64 ETS 350.35 ZAE 135.77 ETE 243.87 ZAC 114.46 ETC 357.10 CLP-104.94
```

PLANETOCENTRIC CONIC

```
C3   9.530 VHL  3.087 DLA  20.87 RAL 148.42 RAD 6567.3 VEL 11.442 PTH   1.98 VHP  4.024 DPA -28.45 RAP 141.49 ECC 1.1568
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	0 1 56	2767.56	-28.06	79.46	4.95	93.99	0 48 4	2167.6	-27.21	70.90
90.00	17 59 18	3981.46	-6.96	159.73	.37	62.48	19 5 39	3381.5	-10.59	152.94
100.00	1 37 12	2460.36	-29.34	56.73	4.82	95.97	2 18 13	1860.4	-28.21	48.11
100.00	19 6 43	3763.89	-5.82	143.12	359.75	60.63	20 9 27	3163.9	-9.69	136.47
110.00	3 14 58	2154.54	-32.54	32.95	4.26	101.08	3 50 52	1554.5	-30.68	24.23
110.00	19 45 27	3642.48	-3.07	132.21	358.04	55.94	20 46 10	3042.5	-7.52	125.95

DIFFERENTIAL CORRECTIONS

```
TDE  .3114 TRA -.3971 TC3-2.7901 BAU  .5349
RDE  .1496 RRA -.0902 RC3-3.1370 FAU .11757
FDE  .7288 FRA -.2453 FC-10.6803 BSP   8403
BDE  .3455 BRA  .4072 BC3 4.1982 FSP  -1862
```

MID-COURSE EXECUTION ACCURACY

```
SGT 1980.9 SGR 1964.8 SG3  583.1
RRT  .9348 RRF  .9980 RTF  .9369
SGB 2790.1 R23  .1708 R13  .9834
SG1 2744.2 SG2  503.7 THA  44.75
```

ORBIT DETERMINATION ACCURACY

```
ST   626.7 SR   288.8 SS   477.9
CRT  .9738 CRS -.9949 CST -.9594
LSA  831.6 MSA  112.5 SSA   19.2
EL1  687.4 EL2   59.8 ALF  24.36
```

LAUNCH DATE JUN 26 1967 FLIGHT TIME 132.00 ARRIVAL DATE NOV 5 1967

HELIOCENTRIC CONIC DISTANCE 371.846

```
RL  152.07 LAL    .00 LOL 273.73 VL  27.018 GAL  -3.93 AZL  87.84 HCA 169.38 SMA 130.68 ECC .17702 INC 2.1588 VI  29.298
RP  107.72 LAP    .40 LOP  83.11 VP  38.060 GAP   1.23 AZP  92.12 TAL 198.84 TAP   8.22 RCA 107.55 APO 153.82 V2  35.180
RC  97.843 GL   18.43 GP  -51.72 ZAL 126.83 ZAP 102.39 ETS 345.03 ZAE 127.69 ETE 242.29 ZAC 115.03 ETC 352.34 CLP-110.26
```

PLANETOCENTRIC CONIC

```
C3  10.321 VHL  3.213 DLA  30.60 RAL 153.87 RAD 6567.4 VEL 11.477 PTH   1.99 VHP  4.640 DPA -34.72 RAP 136.42 ECC 1.1699
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.90	19 43 26	3702.40	-24.66	147.38	12.96	71.29	20 45 9	3102.4	-26.98	139.29
102.10	22 57 20	3078.32	-24.65	101.38	12.95	71.27	23 48 39	2478.3	-26.97	93.29
77.90	19 43 26	3702.40	-24.66	147.38	12.96	71.29	20 45 9	3102.4	-26.98	139.29
102.10	22 57 20	3078.32	-24.65	101.38	12.95	71.27	23 48 39	2478.3	-26.97	93.29
110.00	1 51 27	2546.38	-33.60	63.25	15.26	83.33	2 33 53	1946.4	-34.16	54.05
110.00	21 52 26	3282.33	-16.31	112.73	8.88	59.53	22 47 8	2682.3	-20.23	105.80

DIFFERENTIAL CORRECTIONS

```
TDE  .5982 TRA -.2969 TC3-2.9433 BAU  .5963
RDE  .3948 RRA  .0174 RC3-3.1637 FAU .08951
FDE 1.0893 FRA  .0679 FC3-7.5076 BSP   9465
BDE  .7167 BRA  .2974 BC3 4.3211 FSP  -1446
```

MID-COURSE EXECUTION ACCURACY

```
SGT 2256.7 SGR 2151.6 SG3  449.5
RRT  .9419 RRF  .9987 RTF  .9462
SGB 3118.0 R23  .1624 R13  .9856
SG1 3072.5 SG2  531.0 THA  43.55
```

ORBIT DETERMINATION ACCURACY

```
ST  1084.1 SR   706.7 SS   781.2
CRT  .9821 CRS -.9999 CST -.9813
LSA 1504.7 MSA  144.6 SSA    6.7
EL1 1289.3 EL2  111.8 ALF  32.91
```

```
LAUNCH DATE  JUN 26 1967                          FLIGHT TIME 134.00                          ARRIVAL DATE  NOV  7 1967

 HELIOCENTRIC CONIC                                DISTANCE 378.091
  RL  152.07 LAL     .00 LOL 273.73 VL  26.999 GAL  -3.80 AZL  85.44 HCA 172.59 SMA 130.55 ECC .17731 INC 4.5592 V1  29.298
  RP  107.69 LAP     .59 LOP  86.34 VP  38.056 GAP   1.61 AZP  94.52 TAL 198.17 TAP  10.76 RCA 107.40 APO 153.70 V2  35.190
  RC 100.092 GL   34.85 GP  -61.86 ZAL 119.87 ZAP 102.12 ETS 338.17 ZAE 117.37 ETE 240.66 ZAC 114.41 ETC 345.80 CLP-116.43
 PLANETOCENTRIC CONIC
  C3  14.040 VHL  3.747 DLA  44.84 RAL 164.49 RAO 6567.6 VEL 11.637 PTH   2.04 VHP  5.903 DPA -43.17 RAP 128.91 ECC 1.2311
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     53.65    18 14 40   4156.08     -33.04     188.45      33.67       57.76   19 23 56     3556.1      -37.02      180.39
    126.35     1 54 46   2754.35     -33.02      79.94      33.66       57.74    2 40 40     2154.4      -37.01       71.89
     53.65    18 14 40   4156.08     -33.04     188.45      33.67       57.76   19 23 56     3556.1      -37.02      180.39
    126.35     1 54 46   2754.35     -33.02      79.94      33.66       57.74    2 40 40     2154.4      -37.01       71.89
     53.65    18 14 40   4156.08     -33.04     188.45      33.67       57.76   19 23 56     3556.1      -37.02      180.39
    126.35     1 54 46   2754.35     -33.02      79.94      33.66       57.74    2 40 40     2154.4      -37.01       71.89
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
  TDE 1.2103 TRA -.0580 TC3-2.4090 BAU  .6436      SGT 2588.5 SGR 2274.0 SG3  292.9          ST  1851.9 SR  1261.0 SS  1032.1
  RDE  .8177 RRA  .2380 RC3-2.4402 FAU .05682      RRT  .9431 RRF  .9986 RTF  .9533          CRT  .9897 CRS -.9999 CST -.9913
  FDE 1.3141 FRA  .3476 FC3-3.5039 BSP  10524      SGB 3445.4 R23  .1569 R13  .9868          LSA 2460.9 MSA  169.9 SSA    2.9
  BDE 1.4607 BRA  .2449 BC3 3.4290 FSP   -956      SG1 3396.9 SG2  576.0 THA  41.08          EL1 2235.5 EL2  149.3 ALF  34.15

LAUNCH DATE  JUN 26 1967                          FLIGHT TIME 136.00                          ARRIVAL DATE  NOV  9 1967

 HELIOCENTRIC CONIC                                DISTANCE 384.282
  RL  152.07 LAL     .00 LOL 273.73 VL  26.977 GAL  -3.66 AZL  79.43 HCA 175.77 SMA 130.40 ECC .17768 INC10.5718 V1  29.298
  RP  107.66 LAP     .78 LOP  89.57 VP  38.049 GAP   1.98 AZP 100.54 TAL 197.41 TAP  13.18 RCA 107.23 APO 153.57 V2  35.199
  RC 102.344 GL   55.81 GP  -76.03 ZAL 107.53 ZAP  99.02 ETS 325.66 ZAE 103.08 ETE 233.82 ZAC 112.15 ETC 332.81 CLP-130.51
 PLANETOCENTRIC CONIC
  C3  35.657 VHL  5.971 DLA  60.02 RAL 189.41 RAO 6568.4 VEL 12.531 PTH   2.27 VHP  9.380 DPA -53.98 RAP 113.87 ECC 1.5868
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     34.58    18 55 27   4513.52     -30.09     222.96      79.89       35.28   20 10 41     3913.5      -36.50      217.64
    145.42     4 32 50   2845.16     -30.08      86.16      79.88       35.27    5 20 15     2245.2      -36.49       80.84
     34.58    18 55 27   4513.52     -30.09     222.96      79.89       35.28   20 10 41     3913.5      -36.50      217.64
    145.42     4 32 50   2845.16     -30.08      86.16      79.88       35.27    5 20 15     2245.2      -36.49       80.84
     34.58    18 55 27   4513.52     -30.09     222.96      79.89       35.28   20 10 41     3913.5      -36.50      217.64
    145.42     4 32 50   2845.16     -30.08      86.16      79.88       35.27    5 20 15     2245.2      -36.49       80.84
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
  TDE 2.6610 TRA  .7313 TC3 -.9822 BAU  .6007      SGT 3141.2 SGR 2009.4 SG3  143.9          ST  2588.0 SR  1163.8 SS   910.9
  RDE 1.1303 RRA  .7314 RC3 -.7894 FAU .02393      RRT  .9264 RRF  .9910 RTF  .9670          CRT  .9786 CRS -.9966 CST -.9923
  FDE 1.1231 FRA  .5536 FC3 -.5809 BSP  11312      SGB 3728.9 R23  .1463 R13  .9887          LSA 2971.2 MSA  232.5 SSA    1.4
  BDE 2.8911 BRA 1.0343 BC3 1.2601 FSP   -472      SG1 3672.3 SG2  647.2 THA  31.75          EL1 2829.2 EL2  219.1 ALF  23.91

LAUNCH DATE  JUN 26 1967                          FLIGHT TIME 138.00                          ARRIVAL DATE  NOV 11 1967

 HELIOCENTRIC CONIC                                DISTANCE 390.144
  RL  152.07 LAL     .00 LOL 273.73 VL  26.953 GAL  -3.45 AZL  43.89 HCA 178.67 SMA 130.24 ECC .17781 INC46.1054 V1  29.298
  RP  107.63 LAP     .96 LOP  92.80 VP  38.040 GAP   2.25 AZP 136.10 TAL 196.34 TAP  15.00 RCA 107.08 APO 153.39 V2  35.208
  RC 104.596 GL   60.93 GP  -69.86 ZAL  94.39 ZAP  93.06 ETS 193.33 ZAE  72.49 ETE 105.86 ZAC 108.95 ETC 195.40 CLP  98.92
 PLANETOCENTRIC CONIC
  C3 492.077 VHL 22.183 DLA  55.07 RAL 212.34 RAO 6572.3 VEL 24.766 PTH   3.33 VHP 30.719 DPA -57.52 RAP  58.26 ECC 9.0983
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     40.57    20 42 52   4963.07      -2.15     235.11     120.85       34.96   22  5 35     4363.1       -8.69      230.90
    139.43     5 48 20   3357.86      -2.13     106.04     120.83       34.96    6 44 18     2757.9       -8.68      101.84
     40.57    20 42 52   4963.07      -2.15     235.11     120.85       34.96   22  5 35     4363.1       -8.69      230.90
    139.43     5 48 20   3357.86      -2.13     106.04     120.83       34.96    6 44 18     2757.9       -8.68      101.84
     40.57    20 42 52   4963.07      -2.15     235.11     120.85       34.96   22  5 35     4363.1       -8.69      230.90
    139.43     5 48 20   3357.86      -2.13     106.04     120.83       34.96    6 44 18     2757.9       -8.68      101.84
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
  TDE-2.3076 TRA  .1540 TC3 -.0443 BAU 1.3337      SGT  631.4 SGR 3615.4 SG3   59.9          ST   596.4 SR  1907.6 SS   884.0
  RDE-6.4572 RRA-6.8397 RC3 -.1978 FAU-.02120      RRT  .4171 RRF -.9976 RTF -.3545          CRT  .8569 CRS  .9969 CST  .8134
  FDE 1.0744 FRA 1.3606 FC3  .0373 BSP   9676      SGB 3670.1 R23 -.0795 R13 -.9968          LSA 2163.0 MSA  312.1 SSA     .7
  BDE 6.8571 BRA 6.8415 BC3  .2027 FSP   -167      SG1 3625.2 SG2  572.3 THA  85.73          EL1 1976.5 EL2  296.7 ALF  74.65

LAUNCH DATE  JUN 26 1967                          FLIGHT TIME 140.00                          ARRIVAL DATE  NOV 13 1967

 HELIOCENTRIC CONIC                                DISTANCE 397.076
  RL  152.07 LAL     .00 LOL 273.73 VL  26.927 GAL  -3.44 AZL 116.33 HCA 182.58 SMA 130.06 ECC .17924 INC26.3250 V1  29.298
  RP  107.61 LAP    1.14 LOP  96.04 VP  38.029 GAP   2.81 AZP  63.70 TAL 196.11 TAP  18.69 RCA 106.75 APO 153.37 V2  35.216
  RC 106.849 GL  -65.34 GP   82.28 ZAL  97.40 ZAP  97.64 ETS 123.41 ZAE  87.22 ETE 210.32 ZAC  83.49 ETC 112.73 CLP 172.06
 PLANETOCENTRIC CONIC
  C3 172.062 VHL 13.117 DLA -52.45 RAL 131.58 RAO 6570.9 VEL 17.129 PTH   2.93 VHP 15.043 DPA  73.12 RAP 282.22 ECC 3.8317
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     43.81     3 31 59   2169.31       9.03      58.91      34.55      141.90    4  8  8     1569.3       15.28       54.22
    136.19    12 14 57    604.52       9.05     294.37      34.57      141.90   12 25  2        4.5       15.30      289.68
     43.81     3 31 59   2169.31       9.03      58.91      34.55      141.90    4  8  8     1569.3       15.28       54.22
    136.19    12 14 57    604.52       9.05     294.37      34.57      141.90   12 25  2        4.5       15.30      289.68
     43.81     3 31 59   2169.31       9.03      58.91      34.55      141.90    4  8  8     1569.3       15.28       54.22
    136.19    12 14 57    604.52       9.05     294.37      34.57      141.90   12 25  2        4.5       15.30      289.68
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY              ORBIT DETERMINATION ACCURACY
  TDE-4.5365 TRA-1.2096 TC3 -.0172 BAU  .0697      SGT 2163.4 SGR 3231.7 SG3   91.7          ST  1998.5 SR  2648.3 SS  1246.7
  RDE-5.9148 RRA-2.7069 RC3  .0250 FAU .00176      RRT  .9724 RRF  .9831 RTF  .9986          CRT  .9959 CRS -.9974 CST -.9998
  FDE-2.1716 FRA -.6636 FC3 -.0089 BSP  10653      SGB 3888.9 R23 -.1116 R13  .9937          LSA 3541.0 MSA  152.3 SSA     .6
  BDE 7.4542 BRA 2.9648 BC3  .0303 FSP   -256      SG1 3866.0 SG2  421.6 THA  56.49          EL1 3314.6 EL2  145.2 ALF  52.99
```

LAUNCH DATE JUN 26 1967 FLIGHT TIME 142.00 ARRIVAL DATE NOV 15 1967

HELIOCENTRIC CONIC DISTANCE 403.143

```
RL  152.07 LAL    .00 LOL 273.73 VL  26.899 GAL  -3.25 AZL 103.42 HCA 185.70 SMA 129.87 ECC .17983 INC13.4229 VI  29.298
RP  107.59 LAP   1.32 LOP  99.27 VP  38.016 GAP   3.13 AZP  76.64 TAL 195.14 TAP  20.84 RCA 106.51 APO 153.22 V2  35.223
RC 109.101 GL  -60.30 GP   65.54 ZAL 102.89 ZAP 107.31 ETS  46.90 ZAE 106.07 ETE 137.84 ZAC  89.38 ETC  38.38 CLP-135.95
```

PLANETOCENTRIC CONIC

```
C3  51.514 VHL  7.177 DLA -46.04 RAL 131.06 RAD 6568.9 VEL 13.148 PTH   2.40 VHP  7.408 DPA  71.36 RAP 209.13 ECC 1.8478
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
52.05	3 57 12	1844.49	20.46	39.35	19.96	132.19	4 27 56	1244.5	25.71	33.20
127.95	11 45 34	5699.26	20.47	265.85	19.97	132.19	13 20 33	5099.3	25.72	259.69
52.05	3 57 12	1844.49	20.46	39.35	19.96	132.19	4 27 56	1244.5	25.71	33.20
127.95	11 45 34	5699.26	20.47	265.85	19.97	132.19	13 20 33	5099.3	25.72	259.69
52.05	3 57 12	1844.49	20.46	39.35	19.96	132.19	4 27 56	1244.5	25.71	33.20
127.95	11 45 34	5699.26	20.47	265.85	19.97	132.19	13 20 33	5099.3	25.72	259.69

DIFFERENTIAL CORRECTIONS

```
TOE-3.2922 TRA-1.9491 TC3 -.7316 BAU  .5493
ROE 1.8857 RRA  .4017 RC3  .3178 FAU .03327
FOE-2.6434 FRA -.9267 FC3 -.5591 BSP  12188
BOE 3.7940 BRA 1.9901 BC3  .7977 FSP   -679
```

MID-COURSE EXECUTION ACCURACY

```
SGT 3610.3 SGR 1639.3 SG3  215.7
RRT -.9243 RRF -.9859 RTF  .9738
SGB 3965.1 R23  .1628 R13 -.9861
SG1 3923.1 SG2  575.7 THA 156.70
```

ORBIT DETERMINATION ACCURACY

```
ST  2713.0 SR  1511.7 SS  1366.1
CRT -.9874 CRS  .9983 CST -.9950
LSA 3385.5 MSA  223.4 SSA     1.5
EL1 3098.7 EL2  209.2 ALF 151.03
```

LAUNCH DATE JUN 26 1967 FLIGHT TIME 144.00 ARRIVAL DATE NOV 17 1967

HELIOCENTRIC CONIC DISTANCE 409.281

```
RL  152.07 LAL    .00 LOL 273.73 VL  26.870 GAL  -3.07 AZL  99.70 HCA 188.91 SMA 129.67 ECC .18063 INC 9.7044 VI  29.298
RP  107.57 LAP   1.50 LOP 102.51 VP  38.001 GAP   3.48 AZP  80.41 TAL 194.19 TAP  23.10 RCA 106.25 APO 153.09 V2  35.230
RC 111.351 GL  -54.48 GP   51.43 ZAL 105.82 ZAP 115.95 ETS  39.46 ZAE 117.19 ETE 137.56 ZAC  94.95 ETC  32.13 CLP-134.58
```

PLANETOCENTRIC CONIC

```
C3  30.877 VHL  5.557 DLA -40.68 RAL 134.29 RAD 6568.2 VEL 12.339 PTH   2.22 VHP  5.527 DPA  61.08 RAP 183.71 ECC 1.5082
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.49	4 40 5	1635.22	23.56	23.31	13.79	124.17	5 7 20	1035.2	27.87	16.24
120.51	11 28 27	5650.91	23.57	264.17	13.80	124.16	13 2 38	5050.9	27.88	257.10
59.49	4 40 5	1635.22	23.56	23.31	13.79	124.17	5 7 20	1035.2	27.87	16.24
120.51	11 28 27	5650.91	23.57	264.17	13.80	124.16	13 2 38	5050.9	27.88	257.10
59.49	4 40 5	1635.22	23.56	23.31	13.79	124.17	5 7 20	1035.2	27.87	16.24
120.51	11 28 27	5650.91	23.57	264.17	13.80	124.16	13 2 38	5050.9	27.88	257.10

DIFFERENTIAL CORRECTIONS

```
TOE-2.4187 TRA-1.5583 TC3-1.4257 BAU  .6361
ROE 1.3024 RRA  .3238 RC3  .5845 FAU .06010
FOE-3.1304 FRA-1.0541 FC3-1.6850 BSP  12230
BOE 2.7471 BRA 1.5916 BC3 1.5409 FSP  -1102
```

MID-COURSE EXECUTION ACCURACY

```
SGT 3635.8 SGR 1555.3 SG3  345.4
RRT -.9392 RRF -.9943 RTF  .9670
SGB 3954.5 R23  .2007 R13 -.9786
SG1 3923.4 SG2  495.0 THA 157.74
```

ORBIT DETERMINATION ACCURACY

```
ST  2574.1 SR  1349.5 SS  1555.3
CRT -.9885 CRS  .9994 CST -.9932
LSA 3289.4 MSA  214.7 SSA     2.2
EL1 2900.8 EL2  180.8 ALF 152.49
```

LAUNCH DATE JUN 26 1967 FLIGHT TIME 146.00 ARRIVAL DATE NOV 19 1967

HELIOCENTRIC CONIC DISTANCE 415.417

```
RL  152.07 LAL    .00 LOL 273.73 VL  26.839 GAL  -2.89 AZL  97.95 HCA 192.14 SMA 129.46 ECC .18154 INC 7.9477 VI  29.298
RP  107.55 LAP   1.67 LOP 105.75 VP  37.985 GAP   3.82 AZP  82.23 TAL 193.22 TAP  25.36 RCA 105.95 APO 152.96 V2  35.236
RC 113.598 GL  -50.11 GP   41.05 ZAL 107.18 ZAP 122.93 ETS  35.70 ZAE 124.05 ETE 142.20 ZAC  98.97 ETC  29.23 CLP-136.13
```

PLANETOCENTRIC CONIC

```
C3  23.336 VHL  4.831 DLA -36.97 RAL 137.32 RAD 6567.9 VEL 12.030 PTH   2.15 VHP  4.843 DPA  52.04 RAP 174.13 ECC 1.3840
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.17	5 19 35	1486.97	24.00	11.28	11.04	119.01	5 44 22	887.0	27.67	3.80
114.83	11 13 5	5660.23	24.01	265.24	11.05	119.00	12 47 25	5060.2	27.68	257.75
65.17	5 19 35	1486.97	24.00	11.28	11.04	119.01	5 44 22	887.0	27.67	3.80
114.83	11 13 5	5660.23	24.01	265.24	11.05	119.00	12 47 25	5060.2	27.68	257.75
65.17	5 19 35	1486.97	24.00	11.28	11.04	119.01	5 44 22	887.0	27.67	3.80
114.83	11 13 5	5660.23	24.01	265.24	11.05	119.00	12 47 25	5060.2	27.68	257.75

DIFFERENTIAL CORRECTIONS

```
TOE-2.1002 TRA-1.3784 TC3-2.0675 BAU  .6778
ROE  .9206 RRA  .2184 RC3  .6677 FAU .07944
FOE-3.3097 FRA-1.0435 FC3-2.9472 BSP  12654
BOE 2.2931 BRA 1.3956 BC3 2.1727 FSP  -1450
```

MID-COURSE EXECUTION ACCURACY

```
SGT 3792.4 SGR 1309.1 SG3  439.9
RRT -.9411 RRF -.9942 RTF  .9653
SGB 4012.0 R23  .2201 R13 -.9735
SG1 3989.9 SG2  420.6 THA 161.79
```

ORBIT DETERMINATION ACCURACY

```
ST  2566.3 SR  1096.4 SS  1654.5
CRT -.9883 CRS  .9996 CST -.9924
LSA 3237.5 MSA  209.7 SSA     3.0
EL1 2786.4 EL2  153.7 ALF 157.03
```

LAUNCH DATE JUN 26 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 21 1967

HELIOCENTRIC CONIC DISTANCE 421.548

```
RL  152.07 LAL    .00 LOL 273.73 VL  26.807 GAL  -2.69 AZL  96.92 HCA 195.37 SMA 129.24 ECC .18257 INC 6.9210 VI  29.298
RP  107.53 LAP   1.83 LOP 108.9[illegible] VP  37.967 GAP   4.16 AZP  83.32 TAL 192.20 TAP  27.58 RCA 105.64 APO 152.83 V2  35.241
RC 115.842 GL  -46.85 GP   33[illegible] ZAL 107.54 ZAP 128.47 ETS  32.80 ZAE 128.07 ETE 147.50 ZAC 101.58 ETC  26.99 CLP-138.21
```

PLANETOCENTRIC CONIC

```
C3  19.563 VHL  4.423 DLA -[illegible] RAL 140.06 RAD 6567.8 VEL 11.872 PTH   2.11 VHP  4.572 DPA  45.00 RAP 169.58 ECC 1.3220
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.52	5 54 45	1372.01	23.76	1.99	10.09	115.70	6 17 37	772.0	27.02	354.32
110.48	10 59 46	5690.30	23.78	267.50	10.10	115.68	12 34 36	5090.3	27.03	259.82
69.52	5 54 45	1372.01	23.76	1.99	10.09	115.70	6 17 37	772.0	27.02	354.32
110.48	10 59 46	5690.30	23.78	267.50	10.10	115.68	12 34 36	5090.3	27.03	259.82
69.52	5 54 45	1372.01	23.76	1.99	10.09	115.70	6 17 37	772.0	27.02	354.32
110.48	10 59 46	5690.30	23.78	267.50	10.10	115.68	12 34 36	5090.3	27.03	259.82

DIFFERENTIAL CORRECTIONS

```
TOE-1.9090 TRA-1.2226 TC3-2.5578 BAU  .6871
ROE  .6635 RRA  .1249 RC3  .5997 FAU .08580
FOE-3.1772 FRA -.8437 FC3-3.7971 BSP  12084
BOE 2.0210 BRA 1.2290 BC3 2.6271 FSP  -1470
```

MID-COURSE EXECUTION ACCURACY

```
SGT 3863.0 SGR 1029.0 SG3  473.1
RRT -.9316 RRF -.9904 RTF  .9609
SGB 3997.7 R23  .2401 R13 -.9666
SG1 3981.2 SG2  363.0 THA 165.95
```

ORBIT DETERMINATION ACCURACY

```
ST  2540.1 SR   861.7 SS  1633.9
CRT -.9871 CRS  .9996 CST -.9912
LSA 3133.8 MSA  208.0 SSA     3.9
EL1 2679.1 EL2  130.7 ALF 161.44
```

```
LAUNCH DATE  JUN 26 1967                          FLIGHT TIME 150.00                          ARRIVAL DATE  NOV 23 1967

  HELIOCENTRIC CONIC                                  DISTANCE 427.660
   RL  152.07 LAL    .00 LOL 273.73 VL  26.773 GAL  -2.48 AZL  96.24 HCA 198.61 SMA 129.01 ECC .18370 INC 6.2446 V1  29.298
   RP  107.52 LAP   1.99 LOP 112.24 VP  37.948 GAP   4.50 AZP  84.08 TAL 191.16 TAP  29.77 RCA 105.31 APO 152.71 V2  35.246
   RC 118.080 GL  -44.35 GP   27.82 ZAL 107.26 ZAP 132.94 ETS  30.41 ZAE 130.30 ETE 152.40 ZAC 103.12 ETC  25.09 CLP-140.38
  PLANETOCENTRIC CONIC
   C3  17.326 VHL  4.162 DLA -32.71 RAL 142.61 RAD 6567.7 VEL 11.777 PTH   2.08 VHP  4.481 DPA  39.56 RAP 167.24 ECC 1.2851
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      72.91     6 25 56   1279.20      23.42     354.63      10.16      113.50    6 47 15     679.2      26.40      346.86
     107.09    10 49  0   5726.20      23.44     270.11      10.17      113.49   12 24 26    5126.2      26.41      262.34
      72.91     6 25 56   1279.20      23.42     354.63      10.16      113.50    6 47 15     679.2      26.40      346.86
     107.09    10 49  0   5726.20      23.44     270.11      10.17      113.49   12 24 26    5126.2      26.41      262.34
     110.00     9 51 13    616.35      17.06     302.52       6.74      120.08   10  1 30      16.3      20.93      295.53
     110.00    12 22 53   5437.05      30.13     250.54      12.93      106.97   13 53 30    4837.1      32.15      241.92
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TOE-1.8295 TRA-1.1303 TC3-3.0545 BAU  .7179      SGT 4028.2 SGR  844.5 SG3  495.3       ST  2579.8 SR   711.1 SS  1625.4
   RDE  .5157 RRA  .0801 RC3  .5264 FAU .09018      RRT -.9243 RRF -.9837 RTF  .9603       CRT -.9869 CRS  .9996 CST -.9908
   FOE-3.0385 FRA -.6945 FC3-4.5064 BSP  12616      SGB 4115.8 R23  .2375 R13 -.9639       LSA 3124.2 MSA  204.7 SSA    4.9
   BOE 1.9008 BRA 1.1331 BC3 3.0995 FSP  -1571      SG1 4103.6 SG2  316.4 THA 168.97       EL1 2673.7 EL2  110.6 ALF 164.75

LAUNCH DATE  JUN 26 1967                          FLIGHT TIME 152.00                          ARRIVAL DATE  NOV 25 1967

  HELIOCENTRIC CONIC                                  DISTANCE 433.756
   RL  152.07 LAL    .00 LOL 273.73 VL  26.739 GAL  -2.27 AZL  95.76 HCA 201.85 SMA 128.78 ECC .18494 INC 5.7626 V1  29.298
   RP  107.50 LAP   2.14 LOP 115.48 VP  37.927 GAP   4.83 AZP  84.65 TAL 190.08 TAP  31.94 RCA 104.96 APO 152.60 V2  35.250
   RC 120.312 GL  -42.36 GP   23.56 ZAL 106.52 ZAP 136.66 ETS  28.41 ZAE 131.44 ETE 156.60 ZAC 103.89 ETC  23.46 CLP-142.51
  PLANETOCENTRIC CONIC
   C3  15.850 VHL  3.981 DLA -31.53 RAL 145.09 RAD 6567.6 VEL 11.715 PTH   2.06 VHP  4.481 DPA  35.28 RAP 166.08 ECC 1.2609
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      75.52     6 53 20   1204.19      23.16     348.79      10.88      112.02    7 13 24     604.2      25.94      340.96
     104.48    10 41 22   5760.44      23.17     272.60      10.88      112.01   12 17 23    5160.4      25.95      264.76
      75.52     6 53 20   1204.19      23.16     348.79      10.88      112.02    7 13 24     604.2      25.94      340.96
     104.48    10 41 22   5760.44      23.17     272.60      10.88      112.01   12 17 23    5160.4      25.95      264.76
     110.00     9 35 36    677.35      14.95     305.98       6.54      121.11    9 46 53      77.3      18.96      299.16
     110.00    12 58 17   5335.28      31.92     243.16      13.99      102.94   14 27 12    4735.3      33.37      234.23
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TOE-1.7851 TRA-1.0413 TC3-3.4874 BAU  .7447      SGT 4171.5 SGR  696.9 SG3  497.0       ST  2623.9 SR   600.3 SS  1595.6
   RDE  .4167 RRA  .0499 RC3  .4332 FAU .09026      RRT -.9104 RRF -.9713 RTF  .9592       CRT -.9871 CRS  .9997 CST -.9905
   FOE-2.8563 FRA -.5244 FC3-4.9298 BSP  13006      SGB 4229.4 R23  .2270 R13 -.9616       LSA 3122.6 MSA  201.4 SSA    5.9
   BOE 1.8331 BRA 1.0425 BC3 3.5142 FSP  -1585      SG1 4219.7 SG2  285.1 THA 171.31       EL1 2690.1 EL2   93.8 ALF 167.26

LAUNCH DATE  JUN 26 1967                          FLIGHT TIME 154.00                          ARRIVAL DATE  NOV 27 1967

  HELIOCENTRIC CONIC                                  DISTANCE 439.836
   RL  152.07 LAL    .00 LOL 273.73 VL  26.703 GAL  -2.04 AZL  95.40 HCA 205.10 SMA 128.54 ECC .18630 INC 5.3999 V1  29.298
   RP  107.49 LAP   2.29 LOP 118.73 VP  37.905 GAP   5.17 AZP  85.11 TAL 188.97 TAP  34.07 RCA 104.60 APO 152.49 V2  35.253
   RC 122.538 GL  -40.74 GP   20.27 ZAL 105.44 ZAP 139.84 ETS  26.74 ZAE 131.93 ETE 160.07 ZAC 104.08 ETC  22.05 CLP-144.56
  PLANETOCENTRIC CONIC
   C3  14.810 VHL  3.848 DLA -30.75 RAL 147.55 RAD 6567.6 VEL 11.670 PTH   2.05 VHP  4.532 DPA  31.83 RAP 165.67 ECC 1.2437
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      77.47     7 16 56   1145.49      22.99     344.30      12.05      111.01    7 36  1     545.5      25.64      336.43
     102.53    10 37 25   5788.61      23.00     274.65      12.06      111.00   12 13 53    5188.6      25.65      266.78
      77.47     7 16 56   1145.49      22.99     344.30      12.05      111.01    7 36  1     545.5      25.64      336.43
     102.53    10 37 25   5788.61      23.00     274.65      12.06      111.00   12 13 53    5188.6      25.65      266.78
     110.00     9 31 47    706.51      13.92     307.61       7.34      121.54    9 43 34     106.5      17.99      300.86
     110.00    13 21 43   5275.58      32.74     238.69      15.15      100.42   14 49 39    4675.6      33.83      229.63
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TOE-1.7664 TRA -.9539 TC3-3.8772 BAU  .7706      SGT 4307.3 SGR  585.3 SG3  488.4       ST  2677.8 SR   521.1 SS  1560.9
   RDE  .3498 RRA  .0310 RC3  .3401 FAU .08814      RRT -.8882 RRF -.9503 RTF  .9581       CRT -.9878 CRS  .9998 CST -.9903
   FOE-2.6733 FRA -.3582 FC3-5.1525 BSP  13403      SGB 4346.9 R23  .2089 R13 -.9597       LSA 3136.8 MSA  197.9 SSA    7.0
   BOE 1.8007 BRA  .9544 BC3 3.8921 FSP  -1562      SG1 4338.7 SG2  267.0 THA 173.09       EL1 2726.8 EL2   79.7 ALF 169.11

LAUNCH DATE  JUN 26 1967                          FLIGHT TIME 156.00                          ARRIVAL DATE  NOV 29 1967

  HELIOCENTRIC CONIC                                  DISTANCE 445.899
   RL  152.07 LAL    .00 LOL 273.73 VL  26.667 GAL  -1.80 AZL  95.12 HCA 208.34 SMA 128.30 ECC .18776 INC 5.1155 V1  29.298
   RP  107.49 LAP   2.43 LOP 121.98 VP  37.882 GAP   5.50 AZP  85.50 TAL 187.82 TAP  36.17 RCA 104.21 APO 152.39 V2  35.256
   RC 124.755 GL  -39.36 GP   17.68 ZAL 104.08 ZAP 142.61 ETS  25.34 ZAE 132.04 ETE 162.92 ZAC 103.85 ETC  20.82 CLP-146.50
  PLANETOCENTRIC CONIC
   C3  14.044 VHL  3.748 DLA -30.28 RAL 150.04 RAD 6567.6 VEL 11.637 PTH   2.04 VHP  4.614 DPA  28.96 RAP 165.75 ECC 1.2311
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      78.81     7 36 41   1102.51      22.93     341.06      13.59      110.33    7 55  4     502.5      25.49      333.16
     101.19    10 37 29   5808.07      22.94     276.08      13.59      110.32   12 14 17    5208.1      25.50      268.18
      78.81     7 36 41   1102.51      22.93     341.06      13.59      110.33    7 55  4     502.5      25.49      333.16
     101.19    10 37 29   5808.07      22.94     276.08      13.59      110.32   12 14 17    5208.1      25.50      268.18
     110.00     9 34  6    719.88      13.44     308.35       8.71      121.73    9 46  6     119.9      17.54      301.64
     110.00    13 39 15   5238.70      33.16     235.90      16.60       98.82   15  6 34    4638.7      34.02      226.77
  DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
   TOE-1.7649 TRA -.8651 TC3-4.2298 BAU  .7956      SGT 4435.9 SGR  502.8 SG3  474.1       ST  2738.8 SR   464.4 SS  1525.6
   RDE  .3037 RRA  .0197 RC3  .2535 FAU .08484      RRT -.8556 RRF -.9177 RTF  .9570       CRT -.9891 CRS  .9998 CST -.9902
   FOE-2.5010 FRA -.2037 FC3-5.2298 BSP  13789      SGB 4464.3 R23  .1857 R13 -.9581       LSA 3163.3 MSA  193.9 SSA    8.1
   BOE 1.7908 BRA  .8654 BC3 4.2374 FSP  -1519      SG1 4456.8 SG2  259.1 THA 174.44       EL1 2777.1 EL2   67.4 ALF 170.47
```

LAUNCH DATE JUN 26 1967 FLIGHT TIME 158.00 ARRIVAL DATE DEC 1 1967

DISTANCE 451.944

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 26.629 GAL -1.55 AZL 94.89 HCA 211.59 SMA 128.06 ECC .18935 INC 4.8851 V1 29.298
RP 107.48 LAP 2.56 LOP 125.22 VP 37.858 GAP 5.83 AZP 85.84 TAL 186.65 TAP 38.24 RCA 103.81 APO 152.30 V2 35.258
RC 126.964 GL -38.15 GP 15.60 ZAL 102.49 ZAP 145.08 ETS 24.17 ZAE 131.92 ETE 165.25 ZAC 103.29 ETC 19.74 CLP-148.36

PLANETOCENTRIC CONIC
C3 13.469 VHL 3.670 DLA -30.02 RAL 152.58 RAD 6567.5 VEL 11.613 PTH 2.03 VHP 4.716 DPA 26.52 RAP 166.20 ECC 1.2217

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.58	7 52 35	1075.01	22.96	339.02	15.42	109.90	8 10 30	475.0	25.46	331.10
100.42	10 41 52	5817.25	22.97	276.78	15.42	109.88	12 18 49	5217.2	25.47	268.86
79.58	7 52 35	1075.01	22.96	339.02	15.42	109.90	8 10 30	475.0	25.46	331.10
100.42	10 41 52	5817.25	22.97	276.78	15.42	109.88	12 18 49	5217.2	25.47	268.86
110.00	9 40 24	723.48	13.31	308.55	10.51	121.78	9 52 28	123.5	17.42	301.85
110.00	13 53 13	5216.77	33.38	234.22	18.33	97.85	15 20 10	4616.8	34.10	225.06

DIFFERENTIAL CORRECTIONS
TDE-1.7761 TRA -.7724 TC3-4.5474 BAU .8194
RDE .2716 RRA .0137 RC3 .1756 FAU .08089
FDE-2.3440 FRA -.0618 FC3-5.1995 BSP 14152
BDE 1.7967 BRA .7725 BC3 4.5508 FSP. -1463

MID-COURSE EXECUTION ACCURACY
SGT 4557.3 SGR 443.9 SG3 456.9
RRT -.8108 RRF -.8717 RTF .9560
SGB 4578.9 R23 .1607 R13 -.9567
SG1 4571.5 SG2 259.0 THA 175.47

ORBIT DETERMINATION ACCURACY
ST 2805.9 SR 424.1 SS 1491.8
CRT -.9909 CRS .9997 CST -.9902
LSA 3200.4 MSA 189.6 SSA 9.2
EL1 2837.3 EL2 56.3 ALF 171.48

LAUNCH DATE JUN 26 1967 FLIGHT TIME 160.00 ARRIVAL DATE DEC 3 1967

DISTANCE 457.972

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 26.591 GAL -1.28 AZL 94.69 HCA 214.84 SMA 127.81 ECC .19107 INC 4.6937 V1 29.298
RP 107.48 LAP 2.68 LOP 128.47 VP 37.832 GAP 6.15 AZP 86.14 TAL 185.45 TAP 40.29 RCA 103.39 APO 152.23 V2 35.259
RC 129.165 GL -37.05 GP 13.91 ZAL 100.71 ZAP 147.31 ETS 23.19 ZAE 131.69 ETE 167.15 ZAC 102.47 ETC 18.80 CLP-150.11

PLANETOCENTRIC CONIC
C3 13.034 VHL 3.610 DLA -29.94 RAL 155.20 RAD 6567.5 VEL 11.594 PTH 2.03 VHP 4.832 DPA 24.39 RAP 166.92 ECC 1.2145

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.84	8 5 0	1061.57	23.06	338.06	17.51	109.64	8 22 42	461.6	25.53	330.13
100.16	10 50 18	5816.47	23.07	276.76	17.52	109.63	12 27 15	5216.5	25.54	268.82
79.84	8 5 0	1061.57	23.06	338.06	17.51	109.64	8 22 42	461.6	25.53	330.13
100.16	10 50 18	5816.47	23.07	276.76	17.52	109.63	12 27 15	5216.5	25.54	268.82
110.00	9 49 37	720.44	13.42	308.38	12.64	121.74	10 1 38	120.4	17.52	301.67
110.00	14 4 52	5205.61	33.48	233.37	20.35	97.35	15 31 37	4605.6	34.13	224.19

DIFFERENTIAL CORRECTIONS
TDE-1.7965 TRA -.6735 TC3-4.8305 BAU .8419
RDE .2494 RRA .0111 RC3 .1068 FAU .07662
FDE-2.2019 FRA .0693 FC3-5.0893 BSP 14501
BDE 1.8138 BRA .6736 BC3 4.8317 FSP -1402

MID-COURSE EXECUTION ACCURACY
SGT 4670.8 SGR 403.7 SG3 438.3
RRT -.7543 RRF -.8124 RTF .9549
SGB 4688.2 R23 .1369 R13 -.9554
SG1 4680.7 SG2 264.5 THA 176.26

ORBIT DETERMINATION ACCURACY
ST 2877.0 SR 395.8 SS 1459.7
CRT -.9931 CRS .9993 CST -.9902
LSA 3245.0 MSA 185.0 SSA 10.3
EL1 2903.7 EL2 46.1 ALF 172.22

LAUNCH DATE JUN 26 1967 FLIGHT TIME 162.00 ARRIVAL DATE DEC 5 1967

DISTANCE 463.981

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 26.553 GAL -1.01 AZL 94.53 HCA 218.08 SMA 127.56 ECC .19291 INC 4.5310 V1 29.298
RP 107.48 LAP 2.79 LOP 131.72 VP 37.805 GAP 6.48 AZP 86.43 TAL 184.23 TAP 42.31 RCA 102.95 APO 152.16 V2 35.259
RC 131.355 GL -36.03 GP 12.51 ZAL 98.75 ZAP 149.34 ETS 22.38 ZAE 131.39 ETE 168.72 ZAC 101.43 ETC 17.95 CLP-151.78

PLANETOCENTRIC CONIC
C3 12.712 VHL 3.565 DLA -29.99 RAL 157.90 RAD 6567.5 VEL 11.580 PTH 2.03 VHP 4.959 DPA 22.50 RAP 167.85 ECC 1.2092

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.69	8 14 37	1059.89	23.22	338.00	19.85	109.53	8 32 17	459.9	25.67	330.05
100.31	11 2 15	5807.40	23.23	276.14	19.86	109.52	12 39 2	5207.4	25.68	268.19
79.69	8 14 37	1059.89	23.22	338.00	19.85	109.53	8 32 17	459.9	25.67	330.05
100.31	11 2 15	5807.40	23.23	276.14	19.86	109.52	12 39 2	5207.4	25.68	268.19
110.00	10 1 6	712.69	13.70	307.95	15.05	121.63	10 12 59	112.7	17.78	301.22
110.00	14 14 56	5202.60	33.50	233.14	22.63	97.21	15 41 38	4602.6	34.14	223.95

DIFFERENTIAL CORRECTIONS
TDE-1.8263 TRA -.5694 TC3-5.0869 BAU .8646
RDE .2345 RRA .0111 RC3 .0485 FAU .07251
FDE-2.0726 FRA .1863 FC3-4.9379 BSP 14875
BDE 1.8413 BRA .5695 BC3 5.0872 FSP -1348

MID-COURSE EXECUTION ACCURACY
SGT 4784.1 SGR 379.0 SG3 420.3
RRT -.6912 RRF -.7446 RTF .9542
SGB 4799.1 R23 .1149 R13 -.9545
SG1 4791.3 SG2 273.5 THA 176.86

ORBIT DETERMINATION ACCURACY
ST 2954.0 SR 376.9 SS 1431.8
CRT -.9953 CRS .9985 CST -.9904
LSA 3299.3 MSA 180.1 SSA 11.4
EL1 2977.7 EL2 36.4 ALF 172.76

LAUNCH DATE JUN 26 1967 FLIGHT TIME 164.00 ARRIVAL DATE DEC 7 1967

DISTANCE 469.970

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 26.514 GAL -.72 AZL 94.39 HCA 221.33 SMA 127.30 ECC .19490 INC 4.3904 V1 29.298
RP 107.48 LAP 2.90 LOP 134.97 VP 37.777 GAP 6.81 AZP 86.70 TAL 182.98 TAP 44.31 RCA 102.49 APO 152.12 V2 35.259
RC 133.537 GL -35.06 GP 11.34 ZAL 96.63 ZAP 151.22 ETS 21.71 ZAE 131.06 ETE 170.03 ZAC 100.23 ETC 17.20 CLP-153.37

PLANETOCENTRIC CONIC
C3 12.486 VHL 3.534 DLA -30.14 RAL 160.69 RAD 6567.5 VEL 11.570 PTH 2.02 VHP 5.094 DPA 20.78 RAP 168.94 ECC 1.2055

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.23	8 22 21	1066.97	23.42	338.60	22.42	109.53	8 40 8	467.0	25.86	330.63
100.77	11 16 49	5792.65	23.43	275.12	22.43	109.52	12 53 22	5192.7	25.87	267.16
79.23	8 22 21	1066.97	23.42	338.60	22.42	109.53	8 40 8	467.0	25.86	330.63
100.77	11 16 49	5792.65	23.43	275.12	22.43	109.52	12 53 22	5192.7	25.87	267.16
110.00	10 14 27	701.58	14.09	307.34	17.73	121.47	10 26 8	101.6	18.15	300.58
110.00	14 23 54	5206.03	33.47	233.40	25.16	97.37	15 50 40	4606.0	34.13	224.22

DIFFERENTIAL CORRECTIONS
TDE-1.8633 TRA -.4594 TC3-5.3114 BAU .8866
RDE .2249 RRA .0128 RC3 -.0011 FAU .06845
FDE-1.9663 FRA .2911 FC3-4.7460 BSP 15255
BDE 1.8769 BRA .4596 BC3 5.3114 FSP -1294

MID-COURSE EXECUTION ACCURACY
SGT 4894.9 SGR 365.5 SG3 402.6
RRT -.6259 RRF -.6736 RTF .9537
SGB 4908.5 R23 .0957 R13 -.9540
SG1 4900.2 SG2 284.8 THA 177.31

ORBIT DETERMINATION ACCURACY
ST 3034.5 SR 364.8 SS 1406.0
CRT -.9972 CRS .9970 CST -.9907
LSA 3359.7 MSA 174.7 SSA 12.5
EL1 3056.2 EL2 27.3 ALF 173.16

LAUNCH DATE JUN 26 1967 FLIGHT TIME 166.00 ARRIVAL DATE DEC 9 1967

HELIOCENTRIC CONIC DISTANCE 475.941
RL 152.07 LAL .00 LOL 273.73 VL 26.475 GAL -.42 AZL 94.27 HCA 224.58 SMA 127.05 ECC .19703 INC 4.2668 VI 29.298
RP 107.48 LAP 2.99 LOP 138.22 VP 37.748 GAP 7.14 AZP 86.96 TAL 181.71 TAP 46.28 RCA 102.02 APO 152.08 V2 35.257
RC 135.709 GL -34.10 GP 10.35 ZAL 94.38 ZAP 152.97 ETS 21.17 ZAE 130.73 ETE 171.12 ZAC 98.88 ETC 16.53 CLP-154.89
PLANETOCENTRIC CONIC
C3 12.345 VHL 3.514 DLA -30.35 RAL 163.59 RAD 6567.5 VEL 11.564 PTH 2.02 VHP 5.237 DPA 19.20 RAP 170.18 ECC 1.2032

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.59	8 29 7	1079.76	23.63	339.64	25.21	109.62	8 47 7	479.8	26.09	331.66
101.41	11 33 9	5775.04	23.64	273.89	25.22	109.61	13 9 24	5175.0	26.10	265.91
78.59	8 29 7	1079.76	23.63	339.64	25.21	109.62	8 47 7	479.8	26.09	331.66
101.41	11 33 9	5775.04	23.64	273.89	25.22	109.61	13 9 24	5175.0	26.10	265.91
110.00	10 29 19	688.17	14.57	306.59	20.66	121.27	10 40 47	88.2	18.60	299.79
110.00	14 32 9	5214.63	33.40	234.06	27.92	97.75	15 59 3	4614.6	34.11	224.89

DIFFERENTIAL CORRECTIONS
TDE-1.9035 TRA -.3401 TC3-5.4938 BAU .9067
RDE .2193 RRA .0154 RC3 -.0431 FAU .06435
FDE-1.8631 FRA .3894 FC3-4.5124 BSP 15597
BDE 1.9161 BRA .3404 BC3 5.4940 FSP -1240

MID-COURSE EXECUTION ACCURACY
SGT 4995.2 SGR 360.0 SG3 384.7
RRT -.5626 RRF -.6044 RTF .9531
SGB 5008.2 R23 .0801 R13 -.9533
SG1 4999.4 SG2 297.4 THA 177.67

ORBIT DETERMINATION ACCURACY
ST 3112.2 SR 357.7 SS 1379.0
CRT -.9985 CRS .9947 CST -.9910
LSA 3418.6 MSA 169.5 SSA 13.6
EL1 3132.7 EL2 19.4 ALF 173.45

LAUNCH DATE JUN 26 1967 FLIGHT TIME 168.00 ARRIVAL DATE DEC 11 1967

HELIOCENTRIC CONIC DISTANCE 481.891
RL 152.07 LAL .00 LOL 273.73 VL 26.435 GAL -.10 AZL 94.16 HCA 227.82 SMA 126.79 ECC .19932 INC 4.1566 VI 29.298
RP 107.49 LAP 3.08 LOP 141.47 VP 37.719 GAP 7.48 AZP 87.21 TAL 180.42 TAP 48.24 RCA 101.52 APO 152.07 V2 35.255
RC 137.871 GL -33.14 GP 9.51 ZAL 92.01 ZAP 154.60 ETS 20.74 ZAE 130.40 ETE 172.03 ZAC 97.41 ETC 15.92 CLP-156.34
PLANETOCENTRIC CONIC
C3 12.286 VHL 3.505 DLA -30.61 RAL 166.58 RAD 6567.5 VEL 11.562 PTH 2.02 VHP 5.386 DPA 17.71 RAP 171.54 ECC 1.2022

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.85	8 35 37	1096.02	23.85	340.94	28.21	109.78	8 53 53	496.0	26.33	332.96
102.15	11 50 33	5756.72	23.86	272.61	28.22	109.77	13 26 30	5156.7	26.34	264.62
77.85	8 35 37	1096.02	23.85	340.94	28.21	109.78	8 53 53	496.0	26.33	332.96
102.15	11 50 33	5756.72	23.86	272.61	28.22	109.77	13 26 30	5156.7	26.34	264.62
110.00	10 45 25	673.37	15.09	305.76	23.80	121.04	10 56 38	73.4	19.09	298.93
110.00	14 39 56	5227.37	33.28	235.03	30.90	98.32	16 7 3	4627.4	34.87	225.88

DIFFERENTIAL CORRECTIONS
TDE-1.9556 TRA -.2231 TC3-5.6761 BAU .9323
RDE .2177 RRA .0197 RC3 -.0731 FAU .06138
FDE-1.7827 FRA .4615 FC3-4.3253 BSP 16255
BDE 1.9677 BRA .2239 BC3 5.6765 FSP -1237

MID-COURSE EXECUTION ACCURACY
SGT 5121.6 SGR 361.5 SG3 371.2
RRT -.5130 RRF -.5466 RTF .9549
SGB 5134.4 R23 .0641 R13 -.9550
SG1 5125.0 SG2 310.2 THA 177.92

ORBIT DETERMINATION ACCURACY
ST 3201.5 SR 356.1 SS 1362.3
CRT -.9991 CRS .9920 CST -.9916
LSA 3493.6 MSA 162.5 SSA 14.6
EL1 3221.2 EL2 15.0 ALF 173.66

LAUNCH DATE JUN 26 1967 FLIGHT TIME 170.00 ARRIVAL DATE DEC 13 1967

HELIOCENTRIC CONIC DISTANCE 487.820
RL 152.07 LAL .00 LOL 273.73 VL 26.395 GAL .23 AZL 94.06 HCA 231.07 SMA 126.54 ECC .20177 INC 4.0572 VI 29.298
RP 107.50 LAP 3.16 LOP 144.73 VP 37.688 GAP 7.81 AZP 87.45 TAL 179.11 TAP 50.18 RCA 101.01 APO 152.07 V2 35.253
RC 140.023 GL -32.17 GP 8.79 ZAL 89.53 ZAP 156.14 ETS 20.41 ZAE 130.09 ETE 172.81 ZAC 95.84 ETC 15.37 CLP-157.72
PLANETOCENTRIC CONIC
C3 12.305 VHL 3.508 DLA -30.90 RAL 169.67 RAD 6567.5 VEL 11.563 PTH 2.02 VHP 5.542 DPA 16.31 RAP 172.99 ECC 1.2025

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.07	8 42 21	1114.09	24.06	342.38	31.41	110.00	9 0 55	514.1	26.57	334.39
102.93	12 8 29	5739.32	24.07	271.38	31.42	109.99	13 44 8	5139.3	26.57	263.39
77.07	8 42 21	1114.09	24.06	342.38	31.41	110.00	9 0 55	514.1	26.57	334.39
102.93	12 8 29	5739.32	24.07	271.38	31.42	109.99	13 44 8	5139.3	26.57	263.39
110.00	11 2 32	657.99	15.63	304.89	27.16	120.80	11 13 30	58.0	19.59	298.02
110.00	14 47 29	5243.41	33.11	236.26	34.08	99.02	16 14 52	4643.4	34.00	227.13

DIFFERENTIAL CORRECTIONS
TDE-1.9933 TRA -.0773 TC3-5.7483 BAU .9458
RDE .2173 RRA .0223 RC3 -.1034 FAU .05685
FDE-1.6818 FRA .5606 FC3-3.9996 BSP 16237
BDE 2.0051 BRA .0805 BC3 5.7493 FSP -1137

MID-COURSE EXECUTION ACCURACY
SGT 5185.2 SGR 364.7 SG3 351.6
RRT -.4597 RRF -.4892 RTF .9528
SGB 5198.0 R23 .0558 R13 -.9529
SG1 5187.9 SG2 323.7 THA 178.14

ORBIT DETERMINATION ACCURACY
ST 3258.4 SR 355.1 SS 1324.8
CRT -.9988 CRS .9878 CST -.9916
LSA 3531.7 MSA 159.5 SSA 15.6
EL1 3277.7 EL2 17.2 ALF 173.79

LAUNCH DATE JUN 26 1967 FLIGHT TIME 172.00 ARRIVAL DATE DEC 15 1967

HELIOCENTRIC CONIC DISTANCE 493.729
RL 152.07 LAL .00 LOL 273.73 VL 26.355 GAL .57 AZL 93.97 HCA 234.31 SMA 126.28 ECC .20440 INC 3.9666 VI 29.298
RP 107.51 LAP 3.22 LOP 147.98 VP 37.657 GAP 8.15 AZP 87.68 TAL 177.78 TAP 52.10 RCA 100.47 APO 152.09 V2 35.249
RC 142.165 GL -31.17 GP 8.16 ZAL 86.96 ZAP 157.59 ETS 20.19 ZAE 129.80 ETE 173.47 ZAC 94.18 ETC 14.88 CLP-159.05
PLANETOCENTRIC CONIC
C3 12.404 VHL 3.522 DLA -31.20 RAL 172.86 RAD 6567.5 VEL 11.567 PTH 2.02 VHP 5.703 DPA 14.96 RAP 174.53 ECC 1.2041

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.32	8 49 37	1132.85	24.24	343.86	34.80	110.27	9 8 30	532.9	26.78	335.87
103.68	12 26 35	5723.96	24.26	270.30	34.81	110.25	14 1 59	5124.0	26.79	262.31
76.32	8 49 37	1132.85	24.24	343.86	34.80	110.27	9 8 30	532.9	26.78	335.87
103.68	12 26 35	5723.96	24.26	270.30	34.81	110.25	14 1 59	5124.0	26.79	262.31
110.00	11 20 22	642.85	16.15	304.03	30.71	120.54	11 31 5	42.9	20.08	297.12
110.00	14 55 0	5261.96	32.90	237.67	37.45	99.83	16 22 42	4662.0	33.91	228.57

DIFFERENTIAL CORRECTIONS
TDE-2.0404 TRA .0715 TC3-5.7970 BAU .9615
RDE .2199 RRA .0256 RC3 -.1248 FAU .05297
FDE-1.5994 FRA .6417 FC3-3.6970 BSP 16489
BDE 2.0522 BRA .0760 BC3 5.7984 FSP -1082

MID-COURSE EXECUTION ACCURACY
SGT 5264.1 SGR 371.6 SG3 335.1
RRT -.4202 RRF -.4458 RTF .9520
SGB 5277.2 R23 .0486 R13 -.9521
SG1 5266.4 SG2 337.0 THA 178.29

ORBIT DETERMINATION ACCURACY
ST 3321.9 SR 358.0 SS 1295.3
CRT -.9976 CRS .9830 CST -.9919
LSA 3580.0 MSA 155.6 SSA 16.5
EL1 3341.0 EL2 24.6 ALF 173.86

LAUNCH DATE JUN 26 1967 FLIGHT TIME 174.00 ARRIVAL DATE DEC 17 1967

HELIOCENTRIC CONIC DISTANCE 499.613

RL 152.07 LAL .00 LOL 273.73 VL 26.314 GAL .93 AZL 93.88 HCA 237.56 SMA 126.03 ECC .20722 INC 3.8831 V1 29.298
RP 107.52 LAP 3.28 LOP 151.23 VP 37.624 GAP 8.50 AZP 87.91 TAL 176.44 TAP 54.00 RCA 99.91 APO 152.14 V2 35.245
RC 144.295 GL -30.15 GP 7.61 ZAL 84.31 ZAP 158.97 ETS 20.06 ZAE 129.52 ETE 174.03 ZAC 92.43 ETC 14.43 CLP-160.33

PLANETOCENTRIC CONIC

C3 12.586 VHL 3.548 DLA -31.49 RAL 176.11 RAD 6567.5 VEL 11.575 PTH 2.02 VHP 5.870 DPA 13.67 RAP 176.13 ECC 1.2071

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.61	8 57 42	1151.40	24.38	345.32	38.36	110.57	9 16 54	551.4	26.96	337.34
104.39	12 44 29	5711.61	24.40	269.42	38.37	110.56	14 19 41	5111.6	26.97	261.43
75.61	8 57 42	1151.40	24.38	345.32	38.36	110.57	9 16 54	551.4	26.96	337.34
104.39	12 44 29	5711.61	24.40	269.42	38.37	110.56	14 19 41	5111.6	26.97	261.43
110.00	11 38 38	628.86	16.63	303.23	34.43	120.30	11 49 6	28.9	20.53	296.28
110.00	15 2 44	5282.15	32.66	239.19	41.00	100.70	16 30 46	4682.2	33.79	230.14

DIFFERENTIAL CORRECTIONS
TOE-2.0894 TRA .2254 TC3-5.8185 BAU .9793
ROE .2247 RRA .0290 RC3 -.1383 FAU .04968
FOE-1.5241 FRA .7113 FC3-3.4173 BSP 16792
BOE 2.1015 BRA .2272 BC3 5.8202 FSP -1038

MID-COURSE EXECUTION ACCURACY
SGT 5349.1 SGR 379.9 SG3 320.4
RRT -.3917 RRF -.4125 RTF .9523
SGB 5362.6 R23 .0412 R13 -.9524
SG1 5351.2 SG2 349.4 THA 178.40

ORBIT DETERMINATION ACCURACY
ST 3379.2 SR 363.3 SS 1265.7
CRT -.9955 CRS .9777 CST -.9922
LSA 3623.5 MSA 151.9 SSA 17.4
EL1 3398.5 EL2 34.1 ALF 173.89

LAUNCH DATE JUN 26 1967 FLIGHT TIME 176.00 ARRIVAL DATE DEC 19 1967

HELIOCENTRIC CONIC DISTANCE 505.473

RL 152.07 LAL .00 LOL 273.73 VL 26.274 GAL 1.30 AZL 93.81 HCA 240.80 SMA 125.77 ECC .21024 INC 3.8054 V1 29.298
RP 107.53 LAP 3.32 LOP 154.48 VP 37.591 GAP 8.85 AZP 88.14 TAL 175.09 TAP 55.89 RCA 99.33 APO 152.21 V2 35.240
RC 146.414 GL -29.09 GP 7.13 ZAL 81.61 ZAP 160.28 ETS 20.04 ZAE 129.26 ETE 174.51 ZAC 90.62 ETC 14.03 CLP-161.57

PLANETOCENTRIC CONIC

C3 12.854 VHL 3.585 DLA -31.76 RAL 179.43 RAD 6567.5 VEL 11.586 PTH 2.03 VHP 6.044 DPA 12.41 RAP 177.80 ECC 1.2115

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.99	9 6 39	1169.43	24.47	346.73	42.08	110.90	9 26 8	569.4	27.09	338.75
105.01	13 2 2	5702.64	24.48	268.78	42.09	110.89	14 37 5	5102.6	27.10	260.80
74.99	9 6 39	1169.43	24.47	346.73	42.08	110.90	9 26 8	569.4	27.09	338.75
105.01	13 2 2	5702.64	24.48	268.78	42.09	110.89	14 37 5	5102.6	27.10	260.80
110.00	11 57 0	616.86	17.04	302.55	38.30	120.09	12 7 16	16.9	20.91	295.56
110.00	15 10 52	5303.20	32.38	240.77	44.70	101.60	16 39 15	4703.2	33.64	231.76

DIFFERENTIAL CORRECTIONS
TOE-2.1370 TRA .3915 TC3-5.7900 BAU .9953
ROE .2313 RRA .0319 RC3 -.1466 FAU .04647
FOE-1.4519 FRA .7790 FC3-3.1298 BSP 17067
BOE 2.1495 BRA .3928 BC3 5.7919 FSP -995

MID-COURSE EXECUTION ACCURACY
SGT 5426.0 SGR 389.0 SG3 306.2
RRT -.3705 RRF -.3874 RTF .9525
SGB 5439.9 R23 .0354 R13 -.9525
SG1 5427.9 SG2 361.2 THA 178.47

ORBIT DETERMINATION ACCURACY
ST 3424.5 SR 370.1 SS 1233.7
CRT -.9926 CRS .9717 CST -.9925
LSA 3655.6 MSA 149.4 SSA 18.1
EL1 3444.1 EL2 44.7 ALF 173.88

LAUNCH DATE JUN 26 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 21 1967

HELIOCENTRIC CONIC DISTANCE 511.308

RL 152.07 LAL .00 LOL 273.73 VL 26.233 GAL 1.70 AZL 93.73 HCA 244.05 SMA 125.52 ECC .21348 INC 3.7325 V1 29.298
RP 107.55 LAP 3.36 LOP 157.73 VP 37.558 GAP 9.21 AZP 88.36 TAL 173.72 TAP 57.77 RCA 98.72 APO 152.31 V2 35.234
RC 148.521 GL -28.00 GP 6.71 ZAL 78.86 ZAP 161.53 ETS 20.11 ZAE 129.03 ETE 174.93 ZAC 88.75 ETC 13.66 CLP-162.76

PLANETOCENTRIC CONIC

C3 13.216 VHL 3.635 DLA -31.99 RAL 182.80 RAD 6567.5 VEL 11.602 PTH 2.03 VHP 6.224 DPA 11.19 RAP 179.52 ECC 1.2175

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.46	9 16 30	1186.59	24.49	348.04	45.94	111.25	9 36 17	586.6	27.16	340.07
105.54	13 19 3	5697.46	24.51	268.40	45.95	111.23	14 54 0	5097.5	27.17	260.43
74.46	9 16 30	1186.59	24.49	348.04	45.94	111.25	9 36 17	586.6	27.16	340.07
105.54	13 19 3	5697.46	24.51	268.40	45.95	111.23	14 54 0	5097.5	27.17	260.43
110.00	12 15 7	607.81	17.35	302.03	42.28	119.92	12 25 15	7.8	21.20	295.01
110.00	15 19 37	5324.23	32.08	242.34	48.55	102.48	16 48 21	4724.2	33.47	233.38

DIFFERENTIAL CORRECTIONS
TOE-2.1806 TRA .5698 TC3-5.7088 BAU 1.0090
ROE .2396 RRA .0342 RC3 -.1503 FAU .04329
FOE-1.3808 FRA .8438 FC3-2.8356 BSP 17256
BOE 2.1937 BRA .5709 BC3 5.7108 FSP -948

MID-COURSE EXECUTION ACCURACY
SGT 5492.0 SGR 398.2 SG3 292.3
RRT -.3552 RRF -.3688 RTF .9525
SGB 5506.4 R23 .0309 R13 -.9526
SG1 5493.8 SG2 372.1 THA 178.52

ORBIT DETERMINATION ACCURACY
ST 3453.6 SR 378.1 SS 1197.8
CRT -.9889 CRS .9649 CST -.9927
LSA 3671.9 MSA 148.2 SSA 18.6
EL1 3473.8 EL2 55.9 ALF 173.82

LAUNCH DATE JUN 26 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 23 1967

HELIOCENTRIC CONIC DISTANCE 517.115

RL 152.07 LAL .00 LOL 273.73 VL 26.192 GAL 2.11 AZL 93.66 HCA 247.29 SMA 125.27 ECC .21695 INC 3.6635 V1 29.298
RP 107.57 LAP 3.38 LOP 160.87 VP 37.523 GAP 9.57 AZP 88.58 TAL 172.34 TAP 59.63 RCA 98.09 APO 152.44 V2 35.228
RC 150.615 GL -26.88 GP 6.33 ZAL 76.09 ZAP 162.74 ETS 20.29 ZAE 128.81 ETE 175.28 ZAC 86.83 ETC 13.34 CLP-163.91

PLANETOCENTRIC CONIC

C3 13.679 VHL 3.699 DLA -32.17 RAL 186.20 RAD 6567.5 VEL 11.622 PTH 2.04 VHP 6.412 DPA 9.99 RAP 181.28 ECC 1.2251

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.05	9 27 18	1202.68	24.44	349.24	49.92	111.60	9 47 21	602.7	27.16	341.30
105.95	13 35 21	5696.35	24.45	268.29	49.92	111.59	15 10 17	5096.4	27.16	260.34
74.05	9 27 18	1202.68	24.44	349.24	49.92	111.60	9 47 21	602.7	27.16	341.30
105.95	13 35 21	5696.35	24.45	268.29	49.92	111.59	15 10 17	5096.4	27.16	260.34
110.00	12 32 37	602.68	17.53	301.73	46.35	119.83	12 42 39	2.7	21.36	294.70
110.00	15 29 13	5344.35	31.78	243.83	52.53	103.31	16 58 17	4744.3	33.28	234.92

DIFFERENTIAL CORRECTIONS
TOE-2.2252 TRA .7561 TC3-5.5934 BAU 1.0233
ROE .2496 RRA .0358 RC3 -.1494 FAU .04039
FOE-1.3158 FRA .9025 FC3-2.5559 BSP 17514
BOE 2.2391 BRA .7570 BC3 5.5954 FSP -911

MID-COURSE EXECUTION ACCURACY
SGT 5560.3 SGR 407.5 SG3 279.4
RRT -.3465 RRF -.3575 RTF .9529
SGB 5575.2 R23 .0274 R13 -.9530
SG1 5562.1 SG2 382.1 THA 178.54

ORBIT DETERMINATION ACCURACY
ST 3474.2 SR 387.2 SS 1162.5
CRT -.9845 CRS .9578 CST -.9929
LSA 3680.9 MSA 148.0 SSA 19.0
EL1 3495.1 EL2 67.5 ALF 173.74

LAUNCH DATE JUN 26 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 25 1967

HELIOCENTRIC CONIC DISTANCE 522.892

RL 152.07 LAL .00 LOL 273.73 VL 26.151 GAL 2.54 AZL 93.60 HCA 250.53 SMA 125.01 ECC .22067 INC 3.5977 V1 29.298
RP 107.59 LAP 3.39 LOP 164.22 VP 37.489 GAP 9.95 AZP 88.80 TAL 170.96 TAP 61.49 RCA 97.43 APO 152.60 V2 35.221
RC 152.696 GL -25.74 GP 6.00 ZAL 73.32 ZAP 163.90 ETS 20.59 ZAE 128.61 ETE 175.59 ZAC 84.86 ETC 13.04 CLP-165.03

PLANETOCENTRIC CONIC

C3 14.253 VHL 3.775 DLA -32.31 RAL 189.60 RAD 6567.6 VEL 11.646 PTH 2.04 VHP 6.607 DPA 8.81 RAP 183.09 ECC 1.2346

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.76	9 38 56	1217.74	24.31	350.33	53.99	111.96	9 59 14	617.7	27.07	342.42
106.24	13 50 52	5699.33	24.32	268.46	53.99	111.95	15 25 51	5099.3	27.08	260.54
73.76	9 38 56	1217.74	24.31	350.33	53.99	111.96	9 59 14	617.7	27.07	342.42
106.24	13 50 52	5699.33	24.32	268.46	53.99	111.95	15 25 51	5099.3	27.08	260.54
110.00	12 49 8	602.36	17.54	301.71	50.47	119.82	12 59 10	2.4	21.37	294.68
110.00	15 39 51	5362.71	31.48	245.18	56.62	104.06	17 9 14	4762.7	33.09	236.32

DIFFERENTIAL CORRECTIONS
TOE-2.2664 TRA .9532 TC3-5.4380 BAU 1.0366
ROE .2611 RRA .0366 RC3 -.1448 FAU .03761
FDE-1.2525 FRA .9580 FC3-2.2844 BSP 17756
BOE 2.2814 BRA .9539 BC3 5.4400 FSP -875

MID-COURSE EXECUTION ACCURACY
SGT 5623.1 SGR 416.3 SG3 267.0
RRT -.3424 RRF -.3510 RTF .9534
SGB 5638.5 R23 .0245 R13 -.9534
SG1 5625.0 SG2 391.0 THA 178.54

ORBIT DETERMINATION ACCURACY
ST 3479.9 SR 396.8 SS 1124.8
CRT -.9795 CRS .9503 CST -.9931
LSA 3675.5 MSA 149.3 SSA 19.1
EL1 3501.5 EL2 79.4 ALF 173.62

LAUNCH DATE JUN 26 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 27 1967

HELIOCENTRIC CONIC DISTANCE 528.636

RL 152.07 LAL .00 LOL 273.73 VL 26.111 GAL 2.99 AZL 93.53 HCA 253.77 SMA 124.76 ECC .22467 INC 3.5346 V1 29.298
RP 107.62 LAP 3.39 LOP 167.47 VP 37.453 GAP 10.34 AZP 89.01 TAL 169.56 TAP 63.33 RCA 96.73 APO 152.79 V2 35.214
RC 154.762 GL -24.57 GP 5.70 ZAL 70.55 ZAP 165.01 ETS 21.02 ZAE 128.42 ETE 175.86 ZAC 82.85 ETC 12.79 CLP-166.12

PLANETOCENTRIC CONIC

C3 14.948 VHL 3.866 DLA -32.38 RAL 192.99 RAD 6567.6 VEL 11.676 PTH 2.05 VHP 6.811 DPA 7.66 RAP 184.93 ECC 1.2460

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.60	9 51 25	1231.61	24.09	351.30	58.13	112.32	10 11 56	631.6	26.90	343.41
106.40	14 5 27	5706.62	24.10	268.92	58.14	112.31	15 40 34	5106.6	26.91	261.03
73.60	9 51 25	1231.61	24.09	351.30	58.13	112.32	10 11 56	631.6	26.90	343.41
106.40	14 5 27	5706.62	24.10	268.92	58.14	112.31	15 40 34	5106.6	26.91	261.03
110.00	13 4 20	607.59	17.36	302.01	54.61	119.92	13 14 28	7.6	21.21	295.00
110.00	15 51 42	5378.64	31.21	246.34	60.82	104.70	17 21 21	4778.6	32.91	237.53

DIFFERENTIAL CORRECTIONS
TOE-2.3033 TRA 1.1625 TC3-5.2448 BAU 1.0485
ROE .2740 RRA .0364 RC3 -.1374 FAU .03495
FDE-1.1911 FRA 1.0115 FC3-2.0244 BSP 17968
BOE 2.3195 BRA 1.1631 BC3 5.2466 FSP -840

MID-COURSE EXECUTION ACCURACY
SGT 5679.8 SGR 424.6 SG3 255.1
RRT -.3420 RRF -.3487 RTF .9538
SGB 5695.6 R23 .0222 R13 -.9539
SG1 5681.6 SG2 398.8 THA 178.53

ORBIT DETERMINATION ACCURACY
ST 3469.9 SR 406.5 SS 1085.3
CRT -.9740 CRS .9422 CST -.9933
LSA 3655.1 MSA 152.0 SSA 19.1
EL1 3492.4 EL2 91.5 ALF 173.49

LAUNCH DATE JUN 26 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 29 1967

HELIOCENTRIC CONIC DISTANCE 534.346

RL 152.07 LAL .00 LOL 273.73 VL 26.070 GAL 3.46 AZL 93.47 HCA 257.01 SMA 124.52 ECC .22896 INC 3.4735 V1 29.298
RP 107.64 LAP 3.38 LOP 170.71 VP 37.417 GAP 10.73 AZP 89.22 TAL 168.16 TAP 65.17 RCA 96.01 APO 153.03 V2 35.205
RC 156.813 GL -23.39 GP 5.44 ZAL 67.81 ZAP 166.09 ETS 21.59 ZAE 128.25 ETE 176.09 ZAC 80.81 ETC 12.56 CLP-167.18

PLANETOCENTRIC CONIC

C3 15.778 VHL 3.972 DLA -32.39 RAL 196.35 RAD 6567.6 VEL 11.712 PTH 2.06 VHP 7.024 DPA 6.51 RAP 186.81 ECC 1.2597

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.57	10 4 38	1244.31	23.78	352.13	62.33	112.67	10 25 22	644.3	26.64	344.28
106.43	14 19 1	5718.24	23.80	269.67	62.34	112.65	15 54 20	5118.2	26.65	261.82
73.57	10 4 38	1244.31	23.78	382.13	62.33	112.67	10 25 22	644.3	26.64	344.28
106.43	14 19 1	5718.24	23.80	269.67	62.34	112.65	15 54 20	5118.2	26.65	261.82
110.00	13 18 1	618.85	16.98	302.66	58.73	120.12	13 28 20	18.9	20.85	295.68
110.00	16 4 49	5391.69	30.98	247.29	65.11	105.22	17 34 41	4791.7	32.76	238.52

DIFFERENTIAL CORRECTIONS
TOE-2.3334 TRA 1.3868 TC3-5.0124 BAU 1.0576
ROE .2881 RRA .0350 RC3 -.1281 FAU .03232
FDE-1.1302 FRA 1.0648 FC3-1.7734 BSP 18102
BOE 2.3511 BRA 1.3873 BC3 5.0141 FSP -802

MID-COURSE EXECUTION ACCURACY
SGT 5726.9 SGR 432.1 SG3 243.6
RRT -.3443 RRF -.3492 RTF .9540
SGB 5743.2 R23 .0203 R13 -.9541
SG1 5728.9 SG2 405.5 THA 178.50

ORBIT DETERMINATION ACCURACY
ST 3442.2 SR 416.0 SS 1043.6
CRT -.9677 CRS .9332 CST -.9934
LSA 3617.4 MSA 156.5 SSA 18.9
EL1 3465.6 EL2 104.1 ALF 173.32

LAUNCH DATE JUN 26 1967 FLIGHT TIME 188.00 ARRIVAL DATE DEC 31 1967

HELIOCENTRIC CONIC DISTANCE 540.018

RL 152.07 LAL .00 LOL 273.73 VL 26.030 GAL 3.96 AZL 93.41 HCA 260.24 SMA 124.27 ECC .23357 INC 3.4141 V1 29.298
RP 107.67 LAP 3.36 LOP 173.96 VP 37.381 GAP 11.15 AZP 89.42 TAL 166.76 TAP 67.01 RCA 95.24 APO 153.30 V2 35.197
RC 158.850 GL -22.20 GP 5.20 ZAL 65.11 ZAP 167.14 ETS 22.34 ZAE 128.08 ETE 176.30 ZAC 78.74 ETC 12.37 CLP-168.22

PLANETOCENTRIC CONIC

C3 16.757 VHL 4.094 DLA -32.34 RAL 199.65 RAD 6567.7 VEL 11.753 PTH 2.07 VHP 7.247 DPA 5.38 RAP 188.71 ECC 1.2758

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.68	10 18 32	1255.81	23.39	352.82	66.56	113.00	10 39 28	655.8	26.29	345.03
106.32	14 31 29	5734.22	23.40	270.71	66.57	112.99	16 7 3	5134.2	26.30	262.91
73.68	10 18 32	1255.81	23.39	352.82	66.56	113.00	10 39 28	655.8	26.29	345.03
106.32	14 31 29	5734.22	23.40	270.71	66.57	112.99	16 7 3	5134.2	26.30	262.91
110.00	13 30 2	636.27	16.38	303.66	62.81	120.43	13 40 38	36.3	20.30	296.72
110.00	16 19 9	5401.76	30.80	248.01	69.48	105.62	17 49 11	4801.8	32.63	239.27

DIFFERENTIAL CORRECTIONS
TOE-2.3621 TRA 1.6209 TC3-4.7613 BAU 1.0670
ROE .3036 RRA .0326 RC3 -.1169 FAU .02991
FDE-1.0737 FRA 1.1141 FC3-1.5453 BSP 18287
BOE 2.3815 BRA 1.6212 BC3 4.7627 FSP -770

MID-COURSE EXECUTION ACCURACY
SGT 5773.8 SGR 438.8 SG3 232.9
RRT -.3500 RRF -.3533 RTF .9546
SGB 5790.4 R23 .0186 R13 -.9546
SG1 5775.8 SG2 410.9 THA 178.47

ORBIT DETERMINATION ACCURACY
ST 3404.8 SR 425.2 SS 1003.1
CRT -.9610 CRS .9240 CST -.9935
LSA 3571.2 MSA 162.0 SSA 18.5
EL1 3429.3 EL2 116.7 ALF 173.15

LAUNCH DATE JUN 26 1967 FLIGHT TIME 190.00 ARRIVAL DATE JAN 2 1968

DISTANCE 545.647

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 25.989 GAL 4.48 AZL 93.36 HCA 263.48 SMA 124.03 ECC .23854 INC 3.3558 V1 29.298
RP 107.70 LAP 3.33 LOP 177.20 VP 37.344 GAP 11.57 AZP 89.62 TAL 165.36 TAP 68.84 RCA 94.44 APO 153.61 V2 35.187
RC 160.871 GL -21.00 GP 4.98 ZAL 62.47 ZAP 168.15 ETS 23.29 ZAE 127.93 ETE 176.47 ZAC 76.64 ETC 12.21 CLP-169.24

PLANETOCENTRIC CONIC
C3 17.906 VHL 4.232 DLA -32.23 RAL 202.89 RAD 6567.7 VEL 11.802 PTH 2.09 VHP 7.481 DPA 4.27 RAP 190.63 ECC 1.2947

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.92	10 33 2	1266.11	22.90	353.38	70.80	113.32	10 54 8	666.1	25.85	345.64
106.08	14 42 45	5754.59	22.91	272.04	70.81	113.31	16 18 40	5154.6	25.87	264.29
73.92	10 33 2	1266.11	22.90	353.38	70.80	113.32	10 54 8	666.1	25.85	345.64
106.08	14 42 45	5754.59	22.91	272.04	70.81	113.31	16 18 40	5154.6	25.87	264.29
110.00	13 40 25	659.60	15.57	304.98	66.84	120.82	13 51 24	59.6	19.54	298.11
110.00	16 34 33	5409.09	30.67	248.54	73.90	105.90	18 4 42	4809.1	32.54	239.83

DIFFERENTIAL CORRECTIONS
TOE-2.3870 TRA 1.8676 TC3-4.4901 BAU 1.0751
ROE .3201 RRA .0289 RC3 -.1047 FAU .02762
FOE-1.0200 FRA 1.1619 FC3-1.3352 BSP 18473
BOE 2.4084 BRA 1.8678 BC3 4.4913 FSP -741

MID-COURSE EXECUTION ACCURACY
SGT 5815.7 SGR 444.8 SG3 222.7
RRT -.3580 RRF -.3599 RTF .9552
SGB 5832.7 R23 .0173 R13 -.9552
SG1 5817.9 SG2 415.2 THA 178.42

ORBIT DETERMINATION ACCURACY
ST 3356.1 SR 433.7 SS 963.0
CRT -.9538 CRS .9144 CST -.9935
LSA 3514.3 MSA 168.5 SSA 18.1
EL1 3381.5 EL2 129.3 ALF 172.96

LAUNCH DATE JUN 26 1967 FLIGHT TIME 192.00 ARRIVAL DATE JAN 4 1968

DISTANCE 551.229

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 25.949 GAL 5.03 AZL 93.30 HCA 266.71 SMA 123.79 ECC .24388 INC 3.2983 V1 29.298
RP 107.73 LAP 3.29 LOP 180.44 VP 37.307 GAP 12.02 AZP 89.81 TAL 163.96 TAP 70.67 RCA 93.60 APO 153.98 V2 35.178
RC 162.878 GL -19.82 GP 4.78 ZAL 59.89 ZAP 169.14 ETS 24.48 ZAE 127.79 ETE 176.62 ZAC 74.52 ETC 12.07 CLP-170.24

PLANETOCENTRIC CONIC
C3 19.243 VHL 4.387 DLA -32.06 RAL 206.03 RAD 6567.8 VEL 11.859 PTH 2.10 VHP 7.728 DPA 3.17 RAP 192.58 ECC 1.3167

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.30	10 48 5	1275.19	22.33	353.81	75.03	113.63	11 9 20	675.2	25.33	346.11
105.70	14 52 47	5779.32	22.34	273.65	75.04	113.61	16 29 6	5179.3	25.34	265.96
74.30	10 48 5	1275.19	22.33	353.81	75.03	113.63	11 9 20	675.2	25.33	346.11
105.70	14 52 47	5779.32	22.34	273.65	75.04	113.61	16 29 6	5179.3	25.34	265.96
110.00	13 49 15	688.29	14.56	306.59	70.79	121.27	14 0 44	88.3	18.60	299.80
110.00	16 50 47	5414.22	30.57	248.91	78.36	106.10	18 21 1	4814.2	32.47	240.21

DIFFERENTIAL CORRECTIONS
TOE-2.4072 TRA 2.1289 TC3-4.2025 BAU 1.0814
ROE .3376 RRA .0238 RC3 -.0922 FAU .02541
FOE -.9684 FRA 1.2090 FC3-1.1433 BSP 18632
BOE 2.4308 BRA 2.1290 BC3 4.2035 FSP -712

MID-COURSE EXECUTION ACCURACY
SGT 5851.8 SGR 449.8 SG3 213.0
RRT -.3678 RRF -.3683 RTF .9558
SGB 5869.1 R23 .0161 R13 -.9558
SG1 5854.2 SG2 418.1 THA 178.37

ORBIT DETERMINATION ACCURACY
ST 3296.4 SR 441.1 SS 923.6
CRT -.9459 CRS .9040 CST -.9936
LSA 3447.1 MSA 176.0 SSA 17.6
EL1 3322.8 EL2 142.0 ALF 172.77

LAUNCH DATE JUN 26 1967 FLIGHT TIME 194.00 ARRIVAL DATE JAN 6 1968

DISTANCE 556.760

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 25.910 GAL 5.61 AZL 93.24 HCA 269.94 SMA 123.55 ECC .24965 INC 3.2412 V1 29.298
RP 107.76 LAP 3.24 LOP 183.67 VP 37.269 GAP 12.49 AZP 90.00 TAL 162.56 TAP 72.50 RCA 92.70 APO 154.39 V2 35.167
RC 164.869 GL -18.64 GP 4.61 ZAL 57.38 ZAP 170.10 ETS 25.98 ZAE 127.65 ETE 176.76 ZAC 72.39 ETC 11.98 CLP-171.22

PLANETOCENTRIC CONIC
C3 20.796 VHL 4.560 DLA -31.83 RAL 209.07 RAD 6567.8 VEL 11.924 PTH 2.12 VHP 7.989 DPA 2.08 RAP 194.55 ECC 1.3422

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.81	11 3 40	1282.90	21.67	354.08	79.25	113.91	11 25 2	682.9	24.72	346.45
105.19	15 1 28	5808.54	21.69	275.57	79.25	113.89	16 38 17	5208.5	24.73	267.93
74.81	11 3 40	1282.90	21.67	354.08	79.25	113.91	11 25 2	682.9	24.72	346.45
105.19	15 1 28	5808.54	21.69	275.57	79.25	113.89	16 38 17	5208.5	24.73	267.93
110.00	13 56 44	721.65	13.37	308.45	74.66	121.75	14 8 46	121.7	17.48	301.74
110.00	17 7 34	5417.79	30.50	249.17	82.83	106.24	18 37 52	4817.8	32.42	240.48

DIFFERENTIAL CORRECTIONS
TOE-2.4203 TRA 2.4079 TC3-3.8991 BAU 1.0843
ROE .3559 RRA .0171 RC3 -.0800 FAU .02322
FOE -.9174 FRA 1.2571 FC3 -.9665 BSP 18698
BOE 2.4463 BRA 2.4080 BC3 3.9000 FSP -680

MID-COURSE EXECUTION ACCURACY
SGT 5880.0 SGR 453.8 SG3 203.8
RRT -.3786 RRF -.3776 RTF .9562
SGB 5897.5 R23 .0148 R13 -.9563
SG1 5882.5 SG2 419.8 THA 178.32

ORBIT DETERMINATION ACCURACY
ST 3224.9 SR 447.2 SS 884.1
CRT -.9370 CRS .8923 CST -.9936
LSA 3368.6 MSA 184.6 SSA 17.0
EL1 3252.1 EL2 154.9 ALF 172.58

LAUNCH DATE JUN 26 1967 FLIGHT TIME 196.00 ARRIVAL DATE JAN 8 1968

DISTANCE 562.232

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 25.870 GAL 6.22 AZL 93.18 HCA 273.17 SMA 123.31 ECC .25589 INC 3.1841 V1 29.298
RP 107.79 LAP 3.18 LOP 186.91 VP 37.232 GAP 12.98 AZP 90.18 TAL 161.16 TAP 74.34 RCA 91.76 APO 154.87 V2 35.156
RC 166.846 GL -17.49 GP 4.45 ZAL 54.96 ZAP 171.03 ETS 27.88 ZAE 127.51 ETE 176.87 ZAC 70.23 ETC 11.91 CLP-172.20

PLANETOCENTRIC CONIC
C3 22.592 VHL 4.753 DLA -31.56 RAL 212.00 RAD 6567.9 VEL 11.999 PTH 2.14 VHP 8.266 DPA 1.01 RAP 196.54 ECC 1.3718

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.45	11 19 44	1289.08	20.95	354.20	83.42	114.16	11 41 13	689.1	24.03	346.63
104.55	15 8 44	5842.34	20.96	277.78	83.43	114.15	16 46 6	5242.3	24.04	270.20
75.45	11 19 44	1289.08	20.95	354.20	83.42	114.16	11 41 13	689.1	24.03	346.63
104.55	15 8 44	5842.34	20.96	277.78	83.43	114.15	16 46 6	5242.3	24.04	270.20
110.00	14 3 2	758.96	12.03	310.50	78.45	122.24	14 15 41	159.0	16.20	303.88
110.00	17 24 37	5420.45	30.45	249.36	87.31	106.34	18 54 57	4820.5	32.39	240.68

DIFFERENTIAL CORRECTIONS
TOE-2.4339 TRA 2.6990 TC3-3.5989 BAU 1.0872
ROE .3751 RRA .0091 RC3 -.0679 FAU .02122
FOE -.8718 FRA 1.3031 FC3 -.8131 BSP 18846
BOE 2.4627 BRA 2.6990 BC3 3.5996 FSP -655

MID-COURSE EXECUTION ACCURACY
SGT 5906.9 SGR 456.9 SG3 195.1
RRT -.3914 RRF -.3891 RTF .9570
SGB 5924.5 R23 .0137 R13 -.9570
SG1 5909.6 SG2 420.3 THA 178.26

ORBIT DETERMINATION ACCURACY
ST 3151.3 SR 452.2 SS 848.3
CRT -.9277 CRS .8807 CST -.9936
LSA 3289.0 MSA 193.2 SSA 16.4
EL1 3179.2 EL2 167.3 ALF 172.40

LAUNCH DATE JUN 26 1967 FLIGHT TIME 198.00 ARRIVAL DATE JAN 10 1968

HELIOCENTRIC CONIC DISTANCE 567.639

RL 152.07 LAL .00 LOL 273.73 VL 25.831 GAL 6.87 AZL 93.13 HCA 276.40 SMA 123.08 ECC .26263 INC 3.1267 VI 29.298
RP 107.83 LAP 3.11 LOP 190.14 VP 37.194 GAP 13.49 AZP 90.35 TAL 159.78 TAP 76.18 RCA 90.76 APO 155.40 V2 35.145
RC 168.808 GL -16.36 GP 4.30 ZAL 52.63 ZAP 171.93 ETS 30.28 ZAE 127.37 ETE 176.97 ZAC 68.08 ETC 11.88 CLP-173.16

PLANETOCENTRIC CONIC

C3 24.666 VHL 4.966 DLA -31.24 RAL 214.80 RAD 6568.0 VEL 12.085 PTH 2.16 VHP 8.560 DPA -.05 RAP 198.53 ECC 1.4059

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.23	11 36 20	1293.57	20.15	354.16	87.56	114.39	11 57 53	693.6	23.27	346.64
103.77	15 14 31	5880.79	20.16	280.30	87.56	114.38	16 52 32	5280.8	23.28	272.79
76.23	11 36 20	1293.57	20.15	354.16	87.56	114.39	11 57 53	693.6	23.27	346.64
103.77	15 14 31	5880.79	20.16	280.30	87.56	114.38	16 52 32	5280.8	23.28	272.79
110.00	14 8 20	799.54	10.55	312.71	82.15	122.71	14 21 39	199.5	14.78	306.17
110.00	17 41 41	5422.82	30.41	249.53	91.77	106.43	19 12 4	4822.8	32.35	240.85

DIFFERENTIAL CORRECTIONS
TDE-2.4443 TRA 3.0065 TC3-3.2975 BAU 1.0875
RDE .3949 RRA -.0005 RC3 -.0567 FAU .01928
FDE -.8286 FRA 1.3490 FC3 -.6767 BSP 18968
BDE 2.4760 BRA 3.0065 BC3 3.2980 FSP -630

MID-COURSE EXECUTION ACCURACY
SGT 5927.6 SGR 459.1 SG3 186.9
RRT -.4053 RRF -.4017 RTF .9578
SGB 5945.3 R23 .0126 R13 -.9579
SG1 5930.5 SG2 419.4 THA 178.19

ORBIT DETERMINATION ACCURACY
ST 3072.9 SR 455.6 SS 814.4
CRT -.9177 CRS .8683 CST -.9937
LSA 3205.0 MSA 202.0 SSA 15.9
EL1 3101.3 EL2 179.3 ALF 172.23

LAUNCH DATE JUN 26 1967 FLIGHT TIME 200.00 ARRIVAL DATE JAN 12 1968

HELIOCENTRIC CONIC DISTANCE 572.971

RL 152.07 LAL .00 LOL 273.73 VL 25.792 GAL 7.56 AZL 93.07 HCA 279.63 SMA 122.85 ECC .26993 INC 3.0686 VI 29.298
RP 107.86 LAP 3.03 LOP 193.37 VP 37.156 GAP 14.04 AZP 90.51 TAL 158.40 TAP 78.03 RCA 89.69 APO 156.01 V2 35.134
RC 170.755 GL -15.25 GP 4.17 ZAL 50.39 ZAP 172.80 ETS 33.35 ZAE 127.23 ETE 177.06 ZAC 65.91 ETC 11.88 CLP-174.12

PLANETOCENTRIC CONIC

C3 27.060 VHL 5.202 DLA -30.88 RAL 217.47 RAD 6568.1 VEL 12.183 PTH 2.19 VHP 8.874 DPA -1.09 RAP 200.55 ECC 1.4453

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.14	11 53 30	1295.98	19.29	353.92	91.63	114.59	12 15 6	696.0	22.44	346.47
102.86	15 18 41	636.15	19.30	305.25	91.64	114.58	15 29 18	36.1	22.46	297.79
77.14	11 53 30	1295.98	19.29	353.92	91.63	114.59	12 15 6	696.0	22.44	346.47
102.86	15 18 41	636.15	19.30	305.25	91.64	114.58	15 29 18	36.1	22.46	297.79
110.00	14 12 47	842.76	8.95	315.03	85.77	123.13	14 26 50	242.8	13.25	308.58
110.00	17 58 35	5425.40	30.36	249.71	96.20	106.53	19 29 0	4825.4	32.32	241.05

DIFFERENTIAL CORRECTIONS
TDE-2.4523 TRA 3.3320 TC3-2.9996 BAU 1.0853
RDE .4152 RRA -.0117 RC3 -.0465 FAU .01743
FDE -.7886 FRA 1.3955 FC3 -.5576 BSP 19068
BDE 2.4872 BRA 3.3320 BC3 3.0000 FSP -605

MID-COURSE EXECUTION ACCURACY
SGT 5943.0 SGR 460.2 SG3 179.1
RRT -.4200 RRF -.4152 RTF .9589
SGB 5960.8 R23 .0115 R13 -.9589
SG1 5946.2 SG2 417.4 THA 178.13

ORBIT DETERMINATION ACCURACY
ST 2991.7 SR 457.4 SS 783.2
CRT -.9069 CRS .8554 CST -.9938
LSA 3119.0 MSA 210.8 SSA 15.3
EL1 3020.4 EL2 190.8 ALF 172.07

LAUNCH DATE JUN 26 1967 FLIGHT TIME 202.00 ARRIVAL DATE JAN 14 1968

HELIOCENTRIC CONIC DISTANCE 578.218

RL 152.07 LAL .00 LOL 273.73 VL 25.753 GAL 8.28 AZL 93.01 HCA 282.85 SMA 122.62 ECC .27787 INC 3.0094 VI 29.298
RP 107.90 LAP 2.93 LOP 196.60 VP 37.118 GAP 14.62 AZP 90.67 TAL 157.05 TAP 79.90 RCA 88.55 APO 156.70 V2 35.122
RC 172.686 GL -14.18 GP 4.05 ZAL 48.26 ZAP 173.63 ETS 37.34 ZAE 127.09 ETE 177.13 ZAC 63.74 ETC 11.91 CLP-175.07

PLANETOCENTRIC CONIC

C3 29.823 VHL 5.461 DLA -30.49 RAL 220.02 RAD 6568.2 VEL 12.296 PTH 2.21 VHP 9.209 DPA -2.11 RAP 202.57 ECC 1.4908

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.21	12 11 23	1295.71	18.37	353.46	95.65	114.76	12 32 59	695.7	21.56	346.07
101.79	15 21 5	684.95	18.39	308.46	95.66	114.75	15 32 30	84.9	21.57	301.07
78.21	12 11 23	1295.71	18.37	353.46	95.65	114.76	12 32 59	695.7	21.56	346.07
101.79	15 21 5	684.95	18.39	308.46	95.66	114.75	15 32 30	84.9	21.57	301.07
110.00	14 16 31	888.13	7.25	317.45	89.31	123.50	14 31 19	288.1	11.60	311.07
110.00	18 15 8	5428.56	30.29	249.94	100.59	106.65	19 45 36	4828.6	32.27	241.28

DIFFERENTIAL CORRECTIONS
TDE-2.4549 TRA 3.6801 TC3-2.7043 BAU 1.0783
RDE .4358 RRA -.0248 RC3 -.0376 FAU .01557
FDE -.7497 FRA 1.4443 FC3 -.4519 BSP 19074
BDE 2.4932 BRA 3.6802 BC3 2.7046 FSP -579

MID-COURSE EXECUTION ACCURACY
SGT 5952.5 SGR 460.1 SG3 171.8
RRT -.4351 RRF -.4289 RTF .9599
SGB 5970.3 R23 .0103 R13 -.9599
SG1 5955.9 SG2 414.0 THA 178.06

ORBIT DETERMINATION ACCURACY
ST 2906.6 SR 457.4 SS 753.7
CRT -.8950 CRS .8412 CST -.9939
LSA 3029.3 MSA 219.7 SSA 14.8
EL1 2935.4 EL2 202.0 ALF 171.95

LAUNCH DATE JUN 26 1967 FLIGHT TIME 204.00 ARRIVAL DATE JAN 16 1968

HELIOCENTRIC CONIC DISTANCE 583.366

RL 152.07 LAL .00 LOL 273.73 VL 25.715 GAL 9.06 AZL 92.95 HCA 286.07 SMA 122.40 ECC .28650 INC 2.9488 VI 29.298
RP 107.94 LAP 2.83 LOP 199.82 VP 37.079 GAP 15.24 AZP 90.82 TAL 155.71 TAP 81.78 RCA 87.53 APO 157.47 V2 35.110
RC 174.603 GL -13.14 GP 3.93 ZAL 46.22 ZAP 174.41 ETS 42.60 ZAE 126.94 ETE 177.20 ZAC 61.57 ETC 11.98 CLP-176.03

PLANETOCENTRIC CONIC

C3 33.013 VHL 5.746 DLA -30.07 RAL 222.42 RAD 6568.3 VEL 12.425 PTH 2.25 VHP 9.570 DPA -3.12 RAP 204.60 ECC 1.5433

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.45	12 30 14	1291.80	17.41	352.70	99.60	114.91	12 51 46	691.8	20.62	345.36
100.55	15 21 25	739.95	17.42	312.10	99.61	114.90	15 33 45	140.0	20.64	304.76
79.45	12 30 14	1291.80	17.41	352.70	99.60	114.91	12 51 46	691.8	20.62	345.36
100.55	15 21 25	739.95	17.42	312.10	99.61	114.90	15 33 45	140.0	20.64	304.76
110.00	14 19 37	935.22	5.47	319.94	92.78	123.79	14 35 12	335.2	9.88	313.62
110.00	18 31 13	5432.58	30.22	250.22	104.92	106.80	20 1 45	4832.6	32.22	241.58

DIFFERENTIAL CORRECTIONS
TDE-2.4610 TRA 4.0447 TC3-2.4245 BAU 1.0701
RDE .4569 RRA -.0394 RC3 -.0297 FAU .01386
FDE -.7159 FRA 1.4926 FC3 -.3634 BSP 19165
BDE 2.5030 BRA 4.0449 BC3 2.4247 FSP -557

MID-COURSE EXECUTION ACCURACY
SGT 5958.5 SGR 459.2 SG3 164.9
RRT -.4513 RRF -.4440 RTF .9613
SGB 5976.2 R23 .0092 R13 -.9613
SG1 5962.2 SG2 409.5 THA 178.00

ORBIT DETERMINATION ACCURACY
ST 2825.6 SR 455.8 SS 728.4
CRT -.8828 CRS .8275 CST -.9941
LSA 2944.6 MSA 227.6 SSA 14.3
EL1 2854.3 EL2 212.0 ALF 171.85

LAUNCH DATE JUN 26 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 18 1968

DISTANCE 588.401

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 25.677 GAL 9.89 AZL 92.89 HCA 289.29 SMA 122.18 ECC .29591 INC 2.8862 V1 29.298
RP 107.97 LAP 2.72 LOP 203.04 VP 37.041 GAP 15.90 AZP 90.95 TAL 154.40 TAP 83.69 RCA 86.03 APO 158.34 V2 35.097
RC 176.504 GL -12.14 GP 3.83 ZAL 44.30 ZAP 175.13 ETS 49.64 ZAE 126.77 ETE 177.25 ZAC 59.41 ETC 12.09 CLP-176.99

PLANETOCENTRIC CONIC
C3 36.703 VHL 6.058 DLA -29.62 RAL 224.69 RAD 6568.4 VEL 12.573 PTH 2.28 VHP 9.958 DPA -4.10 RAP 206.63 ECC 1.6040

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.92	12 50 33	1282.58	16.41	351.52	103.48	115.01	13 11 55	682.6	19.64	344.25
99.08	15 19 12	802.67	16.42	316.27	103.49	115.00	15 32 35	202.7	19.65	308.99
100.00	14 52 23	888.44	13.30	321.06	101.92	117.02	15 7 11	288.4	16.82	314.04
100.00	16 0 3	672.04	19.57	308.05	104.97	113.06	16 11 15	72.0	22.52	300.50
110.00	14 22 11	983.67	3.63	322.48	96.17	124.01	14 38 35	383.7	8.07	316.21
110.00	18 46 44	5437.62	30.12	250.58	109.19	106.99	20 17 22	4837.6	32.14	241.96

DIFFERENTIAL CORRECTIONS
TOE-2.4667 TRA 4.4318 TC3-2.1563 BAU 1.0581
RDE .4782 RRA -.0557 RC3 -.0230 FAU .01220
FDE -.6850 FRA 1.5427 FC3 -.2877 BSP 19238
BDE 2.5126 BRA 4.4322 BC3 2.1564 FSP -536

MID-COURSE EXECUTION ACCURACY
SGT 5959.5 SGR 457.2 SG3 158.3
RRT -.4679 RRF -.4597 RTF .9628
SGB 5977.0 R23 .0080 R13 -.9628
SG1 5963.3 SG2 403.8 THA 177.93

ORBIT DETERMINATION ACCURACY
ST 2746.0 SR 452.6 SS 706.0
CRT -.8700 CRS .8135 CST -.9943
LSA 2861.6 MSA 234.8 SSA 13.7
EL1 2774.3 EL2 220.9 ALF 171.79

LAUNCH DATE JUN 26 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 20 1968

DISTANCE 593.304

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 25.640 GAL 10.78 AZL 92.82 HCA 292.51 SMA 121.97 ECC .30619 INC 2.8211 V1 29.298
RP 108.01 LAP 2.61 LOP 206.26 VP 37.004 GAP 16.61 AZP 91.08 TAL 153.12 TAP 85.63 RCA 84.62 APO 159.31 V2 35.084
RC 178.389 GL -11.17 GP 3.74 ZAL 42.48 ZAP 175.74 ETS 59.06 ZAE 126.60 ETE 177.30 ZAC 57.26 ETC 12.24 CLP-177.96

PLANETOCENTRIC CONIC
C3 40.978 VHL 6.401 DLA -29.16 RAL 226.82 RAD 6568.6 VEL 12.741 PTH 2.32 VHP 10.378 DPA -5.07 RAP 208.67 ECC 1.6744

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.74	13 13 20	1264.57	15.37	349.69	107.28	115.09	13 34 24	664.6	18.62	342.46
97.26	15 13 24	876.36	15.38	321.22	107.29	115.08	15 28 1	276.4	18.64	313.99
100.00	14 39 5	986.50	10.21	326.69	104.63	118.25	14 55 32	386.5	13.90	319.86
100.00	16 30 20	629.65	20.68	305.39	109.72	112.08	16 40 49	29.7	23.49	297.73
110.00	14 24 16	1033.19	1.74	325.07	99.48	124.14	14 41 29	433.2	6.21	318.84
110.00	19 1 39	5443.78	29.99	251.02	113.39	107.23	20 32 23	4843.8	32.05	242.41

DIFFERENTIAL CORRECTIONS
TOE-2.4726 TRA 4.8438 TC3-1.9006 BAU 1.0413
RDE .4996 RRA -.0739 RC3 -.0175 FAU .01058
FDE -.6571 FRA 1.5952 FC3 -.2235 BSP 19294
BDE 2.5226 BRA 4.8444 BC3 1.9007 FSP -516

MID-COURSE EXECUTION ACCURACY
SGT 5955.3 SGR 454.1 SG3 152.1
RRT -.4849 RRF -.4758 RTF .9645
SGB 5972.6 R23 .0069 R13 -.9645
SG1 5959.4 SG2 396.9 THA 177.87

ORBIT DETERMINATION ACCURACY
ST 2668.6 SR 447.8 SS 686.7
CRT -.8565 CRS .7994 CST -.9946
LSA 2781.2 MSA 241.0 SSA 13.2
EL1 2696.2 EL2 228.7 ALF 171.76

LAUNCH DATE JUN 26 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 22 1968

DISTANCE 598.052

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 25.603 GAL 11.74 AZL 92.75 HCA 295.72 SMA 121.76 ECC .31746 INC 2.7530 V1 29.298
RP 108.05 LAP 2.48 LOP 209.47 VP 36.966 GAP 17.38 AZP 91.20 TAL 151.88 TAP 87.60 RCA 83.11 APO 160.41 V2 35.071
RC 180.257 GL -10.23 GP 3.66 ZAL 40.76 ZAP 176.19 ETS 71.40 ZAE 126.40 ETE 177.35 ZAC 55.13 ETC 12.44 CLP-178.94

PLANETOCENTRIC CONIC
C3 45.946 VHL 6.778 DLA -28.68 RAL 228.81 RAD 6568.7 VEL 12.935 PTH 2.36 VHP 10.834 DPA -6.00 RAP 210.70 ECC 1.7561

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.26	13 41 39	1227.70	14.31	346.46	111.00	115.12	14 2 7	627.7	17.58	339.28
94.74	15 0 58	970.85	14.32	327.66	111.01	115.11	15 17 9	370.8	17.59	320.48
100.00	14 31 14	1066.74	7.59	331.21	107.51	119.00	14 49 1	466.7	11.40	324.50
100.00	16 54 5	607.04	21.25	303.96	114.14	111.53	17 4 12	7.0	23.99	296.23
110.00	14 25 54	1083.52	-.18	327.70	102.73	124.18	14 43 57	483.5	4.30	321.49
110.00	19 15 54	5451.07	29.84	251.54	117.51	107.50	20 46 45	4851.1	31.94	242.96

DIFFERENTIAL CORRECTIONS
TOE-2.4762 TRA 5.2865 TC3-1.6560 BAU 1.0172
RDE .5209 RRA -.0941 RC3 -.0133 FAU .00892
FDE -.6306 FRA 1.6518 FC3 -.1681 BSP 19234
BDE 2.5304 BRA 5.2874 BC3 1.6560 FSP -494

MID-COURSE EXECUTION ACCURACY
SGT 5946.8 SGR 449.9 SG3 146.3
RRT -.5019 RRF -.4919 RTF .9663
SGB 5963.8 R23 .0056 R13 -.9663
SG1 5951.1 SG2 388.8 THA 177.82

ORBIT DETERMINATION ACCURACY
ST 2592.4 SR 441.1 SS 669.9
CRT -.8422 CRS .7845 CST -.9949
LSA 2702.4 MSA 246.4 SSA 12.8
EL1 2619.1 EL2 235.4 ALF 171.78

LAUNCH DATE JUN 26 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 24 1968

DISTANCE 602.616

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 273.73 VL 25.567 GAL 12.77 AZL 92.68 HCA 298.93 SMA 121.55 ECC .32984 INC 2.6811 V1 29.298
RP 108.09 LAP 2.35 LOP 212.69 VP 36.929 GAP 18.22 AZP 91.30 TAL 150.69 TAP 89.62 RCA 81.46 APO 161.65 V2 35.058
RC 182.108 GL -9.33 GP 3.58 ZAL 39.17 ZAP 176.42 ETS 86.48 ZAE 126.18 ETE 177.39 ZAC 53.01 ETC 12.67 CLP-179.93

PLANETOCENTRIC CONIC
C3 51.736 VHL 7.193 DLA -28.19 RAL 230.66 RAD 6568.9 VEL 13.157 PTH 2.40 VHP 11.332 DPA -6.91 RAP 212.73 ECC 1.8514

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	14 4 58	1205.92	11.01	343.24	113.54	116.25	14 25 4	605.9	14.45	336.26
90.00	14 52 26	1051.93	15.48	334.14	115.69	114.01	15 9 58	451.9	18.59	326.85
100.00	14 25 27	1139.63	5.16	335.26	110.42	119.48	14 44 27	539.6	9.05	328.63
100.00	17 14 38	5881.49	21.59	280.99	118.37	111.19	18 52 40	5281.5	24.28	273.23
110.00	14 27 6	1134.44	-2.13	330.35	105.90	124.12	14 46 1	534.4	2.36	324.15
110.00	19 29 29	5459.45	29.67	252.13	121.54	107.81	21 0 28	4859.4	31.82	243.57

DIFFERENTIAL CORRECTIONS
TOE-2.4882 TRA 5.7546 TC3-1.4319 BAU .9904
RDE .5423 RRA -.1158 RC3 -.0100 FAU .00737
FDE -.6091 FRA 1.7103 FC3 -.1233 BSP 19294
BDE 2.5466 BRA 5.7557 BC3 1.4320 FSP -476

MID-COURSE EXECUTION ACCURACY
SGT 5934.6 SGR 444.7 SG3 140.8
RRT -.5195 RRF -.5089 RTF .9684
SGB 5951.2 R23 .0044 R13 -.9684
SG1 5939.1 SG2 379.7 THA 177.76

ORBIT DETERMINATION ACCURACY
ST 2523.2 SR 433.1 SS 657.1
CRT -.8283 CRS .7711 CST -.9953
LSA 2631.2 MSA 250.0 SSA 12.3
EL1 2548.8 EL2 240.3 ALF 171.83

LAUNCH DATE JUN 26 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 26 1968

HELIOCENTRIC CONIC DISTANCE 606.960

RL 152.07 LAL .00 LOL 273.73 VL 25.532 GAL 13.89 AZL 92.60 HCA 302.14 SMA 121.35 ECC .34349 INC 2.6047 V1 29.298
RP 108.18 LAP 2.21 LOP 215.90 VP 36.892 GAP 19.13 AZP 91.39 TAL 149.55 TAP 91.70 RCA 79.67 APO 163.04 V2 35.045
RC 183.942 GL -8.47 GP 3.51 ZAL 37.68 ZAP 176.37 ETS 102.68 ZAE 125.93 ETE 177.43 ZAC 50.92 ETC 12.96 CLP 179.05

PLANETOCENTRIC CONIC

C3 58.512 VHL 7.649 DLA -27.69 RAL 232.38 RAD 6569.1 VEL 13.412 PTH 2.45 VHP 11.877 DPA -7.80 RAP 214.75 ECC 1.9630

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 43 8	1329.84	7.20	350.35	115.69	117.46	14 5 18	729.8	10.82	343.54
90.00	15 27 57	988.69	17.19	330.29	120.48	112.85	15 44 26	388.7	20.14	322.85
100.00	14 20 44	1208.31	2.85	339.05	113.31	119.77	14 40 52	608.3	6.79	332.48
100.00	17 33 3	5873.49	21.78	280.48	122.44	110.99	19 10 56	5273.5	24.44	272.69
110.00	14 27 55	1185.75	-4.08	333.04	109.00	123.97	14 47 40	585.8	.40	326.83
110.00	19 42 21	5468.81	29.47	252.79	125.47	108.15	21 13 30	4868.8	31.67	244.27

DIFFERENTIAL CORRECTIONS
TDE-2.5016 TRA 6.2561 TC3-1.2201 BAU .9544
RDE .5636 RRA -.1395 RC3 -.0077 FAU .00582
FDE -.5904 FRA 1.7730 FC3 -.0861 BSP 19315
BDE 2.5643 BRA 6.2576 BC3 1.2201 FSP -459

MID-COURSE EXECUTION ACCURACY
SGT 5916.1 SGR 438.5 SG3 135.6
RRT -.5372 RRF -.5262 RTF .9707
SGB 5932.3 R23 .0033 R13 -.9707
SG1 5920.8 SG2 369.5 THA 177.71

ORBIT DETERMINATION ACCURACY
ST 2456.6 SR 423.6 SS 647.4
CRT -.8141 CRS .7581 CST -.9957
LSA 2563.1 MSA 252.2 SSA 11.8
EL1 2480.9 EL2 243.6 ALF 171.93

LAUNCH DATE JUN 26 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 28 1968

HELIOCENTRIC CONIC DISTANCE 611.042

RL 152.07 LAL .00 LOL 273.73 VL 25.497 GAL 15.11 AZL 92.52 HCA 305.35 SMA 121.16 ECC .35857 INC 2.5227 V1 29.298
RP 108.18 LAP 2.06 LOP 219.10 VP 36.855 GAP 20.13 AZP 91.46 TAL 148.49 TAP 93.84 RCA 77.72 APO 164.60 V2 35.032
RC 185.758 GL -7.64 GP 3.44 ZAL 36.31 ZAP 176.02 ETS 117.60 ZAE 125.65 ETE 177.46 ZAC 48.87 ETC 13.29 CLP 178.00

PLANETOCENTRIC CONIC

C3 66.477 VHL 8.153 DLA -27.18 RAL 233.95 RAD 6569.3 VEL 13.705 PTH 2.50 VHP 12.477 DPA -8.65 RAP 216.75 ECC 2.0940

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 31 23	1420.09	4.34	355.44	118.21	118.01	13 55 3	820.1	8.05	348.73
90.00	15 52 16	960.16	17.94	328.53	124.69	112.29	16 8 16	360.2	20.80	321.03
100.00	14 16 33	1274.15	.62	342.66	116.15	119.89	14 37 47	674.1	4.59	336.13
100.00	17 49 47	5869.38	21.88	280.22	126.35	110.89	19 27 36	5269.4	24.53	272.42
110.00	14 28 18	1237.26	-6.04	335.75	112.02	123.71	14 48 55	637.3	-1.57	329.51
110.00	19 54 31	5479.03	29.26	253.50	129.28	108.52	21 25 50	4879.0	31.50	245.02

DIFFERENTIAL CORRECTIONS
TDE-2.5197 TRA 6.7953 TC3-1.0241 BAU .9101
RDE .5847 RRA -.1649 RC3 -.0062 FAU .00424
FDE -.5747 FRA 1.8411 FC3 -.0552 BSP 19307
BDE 2.5867 BRA 6.7973 BC3 1.0241 FSP -442

MID-COURSE EXECUTION ACCURACY
SGT 5893.9 SGR 431.2 SG3 130.6
RRT -.5549 RRF -.5438 RTF .9731
SGB 5909.7 R23 .0022 R13 -.9731
SG1 5898.8 SG2 358.4 THA 177.67

ORBIT DETERMINATION ACCURACY
ST 2394.0 SR 412.7 SS 640.9
CRT -.8000 CRS .7457 CST -.9962
LSA 2499.6 MSA 252.9 SSA 11.3
EL1 2416.9 EL2 245.3 ALF 172.06

LAUNCH DATE JUN 26 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 30 1968

HELIOCENTRIC CONIC DISTANCE 614.805

RL 152.07 LAL .00 LOL 273.73 VL 25.464 GAL 16.44 AZL 92.43 HCA 308.55 SMA 120.97 ECC .37529 INC 2.4341 V1 29.298
RP 108.22 LAP 1.90 LOP 222.31 VP 36.820 GAP 21.24 AZP 91.52 TAL 147.50 TAP 96.06 RCA 75.57 APO 166.37 V2 35.019
RC 187.557 GL -6.84 GP 3.38 ZAL 35.07 ZAP 175.42 ETS 129.77 ZAE 125.32 ETE 177.49 ZAC 46.85 ETC 13.67 CLP 176.91

PLANETOCENTRIC CONIC

C3 75.889 VHL 8.711 DLA -26.66 RAL 235.38 RAD 6569.5 VEL 14.044 PTH 2.56 VHP 13.140 DPA -9.47 RAP 218.73 ECC 2.2489

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 22 40	1499.26	1.79	359.86	120.78	118.26	13 47 39	899.3	5.56	353.21
90.00	16 12 24	943.40	18.37	327.48	128.63	111.94	16 28 8	343.4	21.18	319.94
100.00	14 12 39	1337.83	-1.54	346.16	118.93	119.86	14 34 57	737.8	2.44	339.64
100.00	18 5 7	5868.10	21.91	280.13	130.11	110.85	19 42 55	5268.1	24.55	272.33
110.00	14 28 16	1288.79	-7.98	338.48	114.96	123.35	14 49 45	688.8	-3.53	332.21
110.00	20 5 59	5489.91	29.02	254.26	132.95	108.92	21 37 29	4889.9	31.32	245.81

DIFFERENTIAL CORRECTIONS
TDE-2.5398 TRA 7.3809 TC3 -.8406 BAU .8528
RDE .6054 RRA -.1924 RC3 -.0056 FAU .00255
FDE -.5608 FRA 1.9166 FC3 -.0291 BSP 19183
BDE 2.6110 BRA 7.3834 BC3 .8406 FSP -423

MID-COURSE EXECUTION ACCURACY
SGT 5868.8 SGR 422.7 SG3 126.0
RRT -.5724 RRF -.5612 RTF .9756
SGB 5884.0 R23 .0010 R13 -.9756
SG1 5873.8 SG2 346.3 THA 177.63

ORBIT DETERMINATION ACCURACY
ST 2334.1 SR 400.4 SS 637.3
CRT -.7857 CRS .7333 CST -.9966
LSA 2439.4 MSA 252.3 SSA 10.8
EL1 2355.4 EL2 245.5 ALF 172.24

LAUNCH DATE JUN 26 1967 FLIGHT TIME 220.00 ARRIVAL DATE FEB 1 1968

HELIOCENTRIC CONIC DISTANCE 618.177

RL 152.07 LAL .00 LOL 273.73 VL 25.432 GAL 17.90 AZL 92.34 HCA 311.75 SMA 120.79 ECC .39390 INC 2.3373 V1 29.298
RP 108.26 LAP 1.74 LOP 225.51 VP 36.785 GAP 22.46 AZP 91.56 TAL 146.62 TAP 98.37 RCA 73.21 APO 168.37 V2 35.005
RC 189.337 GL -6.07 GP 3.32 ZAL 33.95 ZAP 174.63 ETS 139.09 ZAE 124.95 ETE 177.53 ZAC 44.89 ETC 14.10 CLP 175.78

PLANETOCENTRIC CONIC

C3 87.077 VHL 9.332 DLA -26.14 RAL 236.67 RAD 6569.7 VEL 14.437 PTH 2.62 VHP 13.878 DPA -10.25 RAP 220.67 ECC 2.4331

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 15 22	1572.31	-.57	3.94	123.33	118.31	13 41 34	972.3	3.22	357.31
90.00	16 29 58	933.02	18.63	326.83	132.34	111.72	16 45 31	333.0	21.41	319.27
100.00	14 8 48	1399.74	-3.63	349.56	121.63	119.69	14 32 8	799.7	.35	343.03
100.00	18 19 13	5868.86	21.90	280.18	133.70	110.87	19 57 2	5268.9	24.54	272.38
110.00	14 27 48	1340.15	-9.89	341.23	117.80	122.89	14 50 8	740.1	-5.48	334.90
110.00	20 16 43	5501.22	28.77	255.04	136.47	109.32	21 48 24	4901.2	31.12	246.63

DIFFERENTIAL CORRECTIONS
TDE-2.5736 TRA 8.0078 TC3 -.6749 BAU .7857
RDE .6261 RRA -.2213 RC3 -.0054 FAU .00087
FDE -.5520 FRA 1.9977 FC3 -.0087 BSP 19188
BDE 2.6487 BRA 8.0108 BC3 .6749 FSP -409

MID-COURSE EXECUTION ACCURACY
SGT 5837.8 SGR 413.3 SG3 121.6
RRT -.5902 RRF -.5792 RTF .9782
SGB 5852.4 R23 -.0000 R13 -.9782
SG1 5842.9 SG2 333.3 THA 177.60

ORBIT DETERMINATION ACCURACY
ST 2279.9 SR 387.1 SS 637.7
CRT -.7728 CRS .7232 CST -.9971
LSA 2385.9 MSA 249.6 SSA 10.3
EL1 2299.7 EL2 243.5 ALF 172.44

LAUNCH DATE JUN 27 1967 FLIGHT TIME 70.00 ARRIVAL DATE SEP 5 1967

DISTANCE 168.902

HELIOCENTRIC CONIC

```
RL  152.07 LAL    .00 LOL 274.68 VL  24.168 GAL  -3.70 AZL  93.59 HCA  70.88 SMA 114.28 ECC .33628 INC 3.5921 V1  29.296
RP  108.81 LAP  -3.39 LOP 345.53 VP  35.749 GAP -19.47 AZP  91.18 TAL 187.36 TAP 258.24 RCA  75.85 APO 152.71 V2  34.826
RC  43.534 GL  -15.43 GP   -3.21 ZAL 106.63 ZAP   6.33 ETS 149.43 ZAE 159.37 ETE  25.36 ZAC  95.05 ETC  13.74 CLP   5.47
```

PLANETOCENTRIC CONIC

```
C3  32.238 VHL  5.678 DLA  -9.24 RAL 162.39 RAD 6568.3 VEL 12.394 PTH   2.24 VHP 11.851 DPA   3.74 RAP 171.79 ECC 1.5306
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 3 31	2041.23	-15.02	30.80	29.83	114.29	5 37 32	1441.2	-11.62	23.77
90.00	14 41 20	5266.60	26.93	237.96	35.32	80.89	16 9 7	4666.6	25.39	229.63
100.00	6 20 20	1793.40	-16.23	11.99	29.25	115.45	6 50 14	1193.4	-12.67	5.01
100.00	16 7 12	4989.66	28.24	217.34	35.07	79.77	17 30 22	4389.7	26.54	208.95
110.00	7 18 17	1611.95	-19.43	356.51	27.53	118.70	7 45 9	1011.9	-15.45	349.65
110.00	17 25 44	4743.88	31.76	197.83	34.22	76.63	18 44 48	4143.9	29.59	189.29

DIFFERENTIAL CORRECTIONS

```
TDE  .3527 TRA -.5869 TC3  .2478 BAU  .1132
RDE -.3836 RRA -.1485 RC3  .0871 FAU .02399
FDE -.3007 FRA  .1448 FC3 -.6444 BSP   2015
BDE  .5212 BRA  .6054 BC3  .2627 FSP   -159
```

MID-COURSE EXECUTION ACCURACY

```
SGT  752.3 SGR  427.4 SG3   69.6
RRT -.0588 RRF  .0658 RTF -.6644
SGB  865.2 R23 -.0083 R13  .6649
SG1  752.9 SG2  426.3 THA 177.18
```

ORBIT DETERMINATION ACCURACY

```
ST   399.0 SR   389.8 SS   314.8
CRT -.8332 CRS -.9627 CST  .9472
LSA  619.6 MSA  161.3 SSA   17.8
EL1  534.0 EL2  161.0 ALF 135.80
```

LAUNCH DATE JUN 27 1967 FLIGHT TIME 72.00 ARRIVAL DATE SEP 7 1967

DISTANCE 175.602

HELIOCENTRIC CONIC

```
RL  152.07 LAL    .00 LOL 274.68 VL  24.483 GAL  -3.73 AZL  93.53 HCA  74.05 SMA 115.81 ECC .31920 INC 3.5273 V1  29.296
RP  108.79 LAP  -3.39 LOP 348.70 VP  35.970 GAP -18.30 AZP  90.97 TAL 188.03 TAP 262.08 RCA  78.84 APO 152.77 V2  34.834
RC  44.099 GL  -16.17 GP   -3.38 ZAL 107.91 ZAP   4.89 ETS 135.99 ZAE 157.40 ETE  22.30 ZAC  93.89 ETC  13.70 CLP   3.53
```

PLANETOCENTRIC CONIC

```
C3  29.140 VHL  5.398 DLA  -9.38 RAL 160.83 RAD 6568.2 VEL 12.268 PTH   2.21 VHP 11.189 DPA   3.08 RAP 172.86 ECC 1.4796
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 58 27	2011.24	-14.17	29.00	26.64	114.77	5 31 58	1411.2	-10.71	22.03
90.00	14 33 59	5245.86	26.70	236.49	31.92	80.19	16 1 25	4645.9	25.07	228.20
100.00	6 15 11	1763.66	-15.35	10.22	26.06	115.97	6 44 35	1163.7	-11.73	3.30
100.00	15 59 56	4968.68	27.98	215.84	31.66	79.02	17 22 45	4368.7	26.18	207.50
110.00	7 12 58	1582.74	-18.46	354.79	24.36	119.29	7 39 21	982.7	-14.42	348.01
110.00	17 18 39	4722.36	31.41	196.25	30.78	75.75	18 37 21	4122.4	29.13	187.79

DIFFERENTIAL CORRECTIONS

```
TDE  .3540 TRA -.5589 TC3  .3057 BAU  .1244
RDE -.3674 RRA -.1398 RC3  .0924 FAU .02561
FDE -.3197 FRA  .1276 FC3 -.7608 BSP   2135
BDE  .5102 BRA  .5761 BC3  .3194 FSP   -181
```

MID-COURSE EXECUTION ACCURACY

```
SGT  782.1 SGR  429.7 SG3   77.7
RRT -.0690 RRF  .0770 RTF -.6842
SGB  892.4 R23 -.0096 R13  .6847
SG1  782.9 SG2  428.3 THA 176.90
```

ORBIT DETERMINATION ACCURACY

```
ST   416.9 SR   392.6 SS   331.4
CRT -.8453 CRS -.9692 CST  .9461
LSA  641.8 MSA  159.9 SSA   18.6
EL1  550.2 EL2  158.9 ALF 137.04
```

LAUNCH DATE JUN 27 1967 FLIGHT TIME 74.00 ARRIVAL DATE SEP 9 1967

DISTANCE 182.320

HELIOCENTRIC CONIC

```
RL  152.07 LAL    .00 LOL 274.68 VL  24.772 GAL  -3.79 AZL  93.46 HCA  77.22 SMA 117.26 ECC .30349 INC 3.4645 V1  29.296
RP  108.76 LAP  -3.38 LOP 351.88 VP  36.175 GAP -17.19 AZP  90.77 TAL 188.78 TAP 266.00 RCA  81.67 APO 152.85 V2  34.842
RC  44.820 GL  -16.86 GP   -3.57 ZAL 109.31 ZAP   3.90 ETS 113.27 ZAE 155.52 ETE  19.71 ZAC  92.78 ETC  13.68 CLP   1.57
```

PLANETOCENTRIC CONIC

```
C3  26.510 VHL  5.149 DLA  -9.45 RAL 159.19 RAD 6568.1 VEL 12.161 PTH   2.18 VHP 10.559 DPA   2.42 RAP 173.88 ECC 1.4363
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 52 26	1985.43	-13.43	27.47	23.49	115.16	5 25 31	1385.4	-9.93	20.54
90.00	14 26 52	5224.54	26.44	234.98	28.54	79.48	15 53 57	4624.5	24.72	226.73
100.00	6 9 8	1737.97	-14.58	8.70	22.92	116.39	6 38 6	1138.0	-10.92	1.83
100.00	15 52 51	4947.23	27.69	214.31	28.27	78.26	17 15 18	4347.2	25.79	206.02
110.00	7 6 50	1557.32	-17.61	353.31	21.24	119.78	7 32 47	957.3	-13.51	346.59
110.00	17 11 39	4700.65	31.03	194.67	27.35	74.89	18 30 0	4100.6	28.65	186.28

DIFFERENTIAL CORRECTIONS

```
TDE  .3546 TRA -.5307 TC3  .3686 BAU  .1350
RDE -.3527 RRA -.1319 RC3  .0965 FAU .02743
FDE -.3402 FRA  .1070 FC3 -.8958 BSP   2246
BDE  .5001 BRA  .5469 BC3  .3810 FSP   -206
```

MID-COURSE EXECUTION ACCURACY

```
SGT  811.3 SGR  431.3 SG3   86.8
RRT -.0803 RRF  .0900 RTF -.7017
SGB  918.8 R23 -.0118 R13  .7024
SG1  812.4 SG2  429.3 THA 176.61
```

ORBIT DETERMINATION ACCURACY

```
ST   433.7 SR   395.0 SS   347.9
CRT -.8570 CRS -.9752 CST  .9445
LSA  663.1 MSA  158.1 SSA   19.5
EL1  565.5 EL2  156.1 ALF 138.12
```

LAUNCH DATE JUN 27 1967 FLIGHT TIME 76.00 ARRIVAL DATE SEP 11 1967

DISTANCE 189.051

HELIOCENTRIC CONIC

```
RL  152.07 LAL    .00 LOL 274.68 VL  25.035 GAL  -3.85 AZL  93.40 HCA  80.39 SMA 118.64 ECC .28909 INC 3.4032 V1  29.296
RP  108.74 LAP  -3.36 LOP 355.06 VP  36.365 GAP -16.13 AZP  90.57 TAL 189.58 TAP 269.98 RCA  84.34 APO 152.94 V2  34.851
RC  45.690 GL  -17.51 GP   -3.79 ZAL 110.78 ZAP   3.82 ETS  82.81 ZAE 153.79 ETE  17.47 ZAC  91.71 ETC  13.66 CLP   -.45
```

PLANETOCENTRIC CONIC

```
C3  24.280 VHL  4.927 DLA  -9.45 RAL 157.47 RAD 6568.0 VEL 12.069 PTH   2.16 VHP  9.958 DPA   1.76 RAP 174.85 ECC 1.3996
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 45 33	1963.93	-12.80	26.20	20.41	115.47	5 18 17	1363.9	-9.27	19.30
90.00	14 20 5	5202.67	26.16	233.44	25.21	78.75	15 46 48	4602.7	24.34	225.24
100.00	6 2 15	1716.46	-13.92	7.44	19.85	116.72	6 30 52	1116.5	-10.23	.60
100.00	15 46 3	4925.38	27.38	212.76	24.92	77.51	17 8 9	4325.4	25.38	204.53
110.00	6 59 57	1535.79	-16.88	352.07	18.19	120.18	7 25 33	935.8	-12.74	345.40
110.00	17 4 51	4678.82	30.63	193.09	23.98	74.03	18 22 50	4078.8	28.14	184.78

DIFFERENTIAL CORRECTIONS

```
TDE  .3630 TRA -.5051 TC3  .4582 BAU  .1522
RDE -.3392 RRA -.1247 RC3  .0991 FAU .02951
FDE -.3628 FRA  .0824 FC3-1.0521 BSP   1922
BDE  .4969 BRA  .5203 BC3  .4688 FSP   -235
```

MID-COURSE EXECUTION ACCURACY

```
SGT  858.3 SGR  432.1 SG3   97.1
RRT -.0941 RRF  .1048 RTF -.7301
SGB  961.0 R23 -.0132 R13  .7309
SG1  859.6 SG2  429.6 THA 176.38
```

ORBIT DETERMINATION ACCURACY

```
ST   458.6 SR   396.9 SS   364.8
CRT -.8713 CRS -.9806 CST  .9448
LSA  690.0 MSA  155.9 SSA   20.4
EL1  587.1 EL2  152.1 ALF 139.72
```

LAUNCH DATE JUN 27 1967 FLIGHT TIME 78.00 ARRIVAL DATE SEP 13 1967

HELIOCENTRIC CONIC DISTANCE 195.792

```
RL  152.07 LAL    .00 LOL 274.68 VL  25.276 GAL  -3.93 AZL  93.34 HCA  83.57 SMA 119.94 ECC .27595 INC 3.3430 VI  29.296
RP  108.71 LAP  -3.32 LOP 358.24 VP  36.540 GAP -15.11 AZP  90.38 TAL 190.44 TAP 274.01 RCA  86.84 APO 153.03 V2  34.860
RC  46.700 GL  -18.11 GP  -4.03 ZAL 112.33 ZAP   4.75 ETS  57.49 ZAE 152.23 ETE  15.48 ZAC  90.69 ETC  13.66 CLP  -2.51
```

PLANETOCENTRIC CONIC

```
C3  22.390 VHL  4.732 DLA  -9.37 RAL 155.72 RAO 6567.9 VEL 11.990 PTH   2.14 VHP  9.385 DPA   1.09 RAP 175.77 ECC 1.3685
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 37 54	1946.75	-12.30	25.19	17.41	115.71	5 10 21	1346.7	-8.74	18.32
90.00	14 13 42	5180.32	25.85	231.88	21.95	78.03	15 40 2	4580.3	23.94	223.73
100.00	5 54 39	1699.14	-13.39	6.43	16.86	116.98	6 22 58	1099.1	-9.67	359.62
100.00	15 39 38	4903.16	27.04	211.19	21.65	76.75	17 1 21	4303.2	24.95	203.02
110.00	6 52 27	1518.16	-16.27	351.07	15.22	120.49	7 17 45	918.2	-12.10	344.44
110.00	16 58 20	4656.91	30.21	191.53	20.68	73.19	18 15 57	4056.9	27.62	183.30

DIFFERENTIAL CORRECTIONS

```
TDE  .3559 TRA -.4728 TC3  .5121 BAU  .1561
RDE -.3273 RRA -.1182 RC3  .0991 FAU .03185
FDE -.3867 FRA  .0536 FC3-1.2314 BSP   2491
BDE  .4835 BRA  .4873 BC3  .5216 FSP   -269
```

MID-COURSE EXECUTION ACCURACY

```
SGT  870.2 SGR  432.3 SG3  108.7
RRT -.1094 RRF  .1228 RTF -.7354
SGB  971.6 R23 -.0167 R13  .7364
SG1  871.9 SG2  428.9 THA 175.89
```

ORBIT DETERMINATION ACCURACY

```
ST   465.0 SR   398.7 SS   381.1
CRT -.8801 CRS -.9853 CST  .9414
LSA  704.5 MSA  153.9 SSA   21.4
EL1  594.3 EL2  148.1 ALF 139.97
```

LAUNCH DATE JUN 27 1967 FLIGHT TIME 80.00 ARRIVAL DATE SEP 15 1967

HELIOCENTRIC CONIC DISTANCE 202.537

```
RL  152.07 LAL    .00 LOL 274.68 VL  25.495 GAL  -4.01 AZL  93.28 HCA  86.74 SMA 121.15 ECC .26399 INC 3.2836 VI  29.296
RP  108.68 LAP  -3.28 LOP   1.42 VP  36.701 GAP -14.14 AZP  90.19 TAL 191.34 TAP 278.09 RCA  89.17 APO 153.14 V2  34.870
RC  47.841 GL  -18.63 GP  -4.30 ZAL 113.92 ZAP   6.32 ETS  42.12 ZAE 150.85 ETE  13.70 ZAC  89.74 ETC  13.68 CLP   4.64
```

PLANETOCENTRIC CONIC

```
C3  20.791 VHL  4.560 DLA  -9.22 RAL 153.94 RAO 6567.8 VEL 11.924 PTH   2.12 VHP  8.840 DPA    .42 RAP 176.62 ECC 1.3422
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 29 36	1933.78	-11.92	24.43	14.52	115.88	5 1 50	1333.8	-8.34	17.58
90.00	14 7 49	5157.55	25.52	230.29	18.79	77.30	15 33 46	4557.6	23.52	222.19
100.00	5 46 26	1685.91	-12.98	5.66	13.97	117.16	6 14 32	1085.9	-9.24	358.87
100.00	15 33 40	4880.66	26.68	209.62	18.49	75.99	16 55 0	4280.7	24.49	201.50
110.00	6 44 25	1504.35	-15.79	350.28	12.37	120.72	7 9 29	904.4	-11.60	343.68
110.00	16 52 10	4634.98	29.77	189.97	17.49	72.37	18 9 25	4035.0	27.07	181.82

DIFFERENTIAL CORRECTIONS

```
TDE  .3552 TRA -.4437 TC3  .5885 BAU  .1658
RDE -.3166 RRA -.1126 RC3  .0967 FAU .03448
FDE -.4128 FRA  .0199 FC3-1.4359 BSP   2597
BDE  .4758 BRA  .4577 BC3  .5964 FSP   -306
```

MID-COURSE EXECUTION ACCURACY

```
SGT  897.9 SGR  431.9 SG3  121.7
RRT -.1270 RRF  .1434 RTF -.7500
SGB  996.4 R23 -.0203 R13  .7513
SG1  900.1 SG2  427.4 THA 175.48
```

ORBIT DETERMINATION ACCURACY

```
ST   477.7 SR   400.1 SS   397.3
CRT -.8906 CRS -.9892 CST  .9393
LSA  722.9 MSA  152.0 SSA   22.4
EL1  606.4 EL2  143.4 ALF 140.65
```

LAUNCH DATE JUN 27 1967 FLIGHT TIME 82.00 ARRIVAL DATE SEP 17 1967

HELIOCENTRIC CONIC DISTANCE 209.284

```
RL  152.07 LAL    .00 LOL 274.68 VL  25.694 GAL  -4.09 AZL  93.22 HCA  89.92 SMA 122.29 ECC .25316 INC 3.2244 VI  29.296
RP  108.64 LAP  -3.22 LOP   4.60 VP  36.850 GAP -13.22 AZP  90.00 TAL 192.28 TAP 282.20 RCA  91.33 APO 153.25 V2  34.881
RC  49.103 GL  -19.08 GP  -4.59 ZAL 115.53 ZAP   8.23 ETS  33.08 ZAE 149.69 ETE  12.05 ZAC  88.87 ETC  13.70 CLP  -6.84
```

PLANETOCENTRIC CONIC

```
C3  19.439 VHL  4.409 DLA  -9.00 RAL 152.17 RAO 6567.8 VEL 11.867 PTH   2.11 VHP  8.321 DPA   -.25 RAP 177.39 ECC 1.3199
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 20 48	1924.86	-11.65	23.91	11.75	115.99	4 52 53	1324.9	-8.06	17.07
90.00	14 2 29	5134.44	25.17	228.69	15.76	76.57	15 28 3	4534.4	23.07	220.65
100.00	5 37 45	1676.60	-12.69	5.12	11.22	117.29	6 5 41	1076.6	-8.93	358.35
100.00	15 28 13	4857.93	26.30	208.04	15.45	75.25	16 49 11	4257.9	24.01	199.98
110.00	6 35 59	1494.22	-15.44	349.71	9.64	120.88	7 0 54	894.2	-11.23	343.13
110.00	16 46 28	4613.07	29.31	188.43	14.43	71.57	18 3 21	4013.1	26.51	180.37

DIFFERENTIAL CORRECTIONS

```
TDE  .3538 TRA -.4150 TC3  .6662 BAU  .1748
RDE -.3071 RRA -.1078 RC3  .0911 FAU .03750
FDE -.4411 FRA -.0190 FC3-1.6700 BSP   2700
BDE  .4685 BRA  .4288 BC3  .6724 FSP   -350
```

MID-COURSE EXECUTION ACCURACY

```
SGT  924.5 SGR  431.1 SG3  136.5
RRT -.1476 RRF  .1672 RTF -.7632
SGB 1020.1 R23 -.0246 R13  .7648
SG1  927.3 SG2  425.1 THA 175.01
```

ORBIT DETERMINATION ACCURACY

```
ST   488.4 SR   401.3 SS   413.3
CRT -.9003 CRS -.9922 CST  .9369
LSA  739.8 MSA  150.4 SSA   23.3
EL1  616.8 EL2  138.3 ALF 141.19
```

LAUNCH DATE JUN 27 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 19 1967

HELIOCENTRIC CONIC DISTANCE 216.028

```
RL  152.07 LAL    .00 LOL 274.68 VL  25.875 GAL  -4.18 AZL  93.17 HCA  93.10 SMA 123.35 ECC .24338 INC 3.1653 VI  29.296
RP  108.61 LAP  -3.16 LOP   7.78 VP  36.986 GAP -12.33 AZP  89.83 TAL 193.24 TAP 286.33 RCA  93.33 APO 153.37 V2  34.891
RC  50.476 GL  -19.46 GP  -4.93 ZAL 117.14 ZAP  10.35 ETS  27.44 ZAE 148.74 ETE  10.51 ZAC  88.09 ETC  13.74 CLP  -9.12
```

PLANETOCENTRIC CONIC

```
C3  18.296 VHL  4.277 DLA  -8.72 RAL 150.42 RAO 6567.7 VEL 11.819 PTH   2.09 VHP  7.827 DPA   -.92 RAP 178.07 ECC 1.3011
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 11 37	1919.71	-11.50	23.61	9.13	116.06	4 43 37	1319.7	-7.90	16.78
90.00	13 57 46	5111.07	24.79	227.08	12.87	75.85	15 22 57	4511.1	22.60	219.10
100.00	5 28 43	1670.96	-12.51	4.80	8.61	117.37	5 56 34	1071.0	-8.75	358.03
100.00	15 23 21	4835.04	25.89	206.46	12.55	74.51	16 43 56	4235.0	23.51	198.47
110.00	6 27 18	1487.52	-15.20	349.33	7.06	120.99	6 52 6	887.5	-10.99	342.77
110.00	16 41 15	4591.24	28.83	186.91	11.52	70.78	17 57 46	3991.2	25.94	178.93

DIFFERENTIAL CORRECTIONS

```
TDE  .3511 TRA -.3868 TC3  .7427 BAU  .1828
RDE -.2986 RRA -.1038 RC3  .0820 FAU .04091
FDE -.4714 FRA -.0638 FC3-1.9358 BSP   2795
BDE  .4609 BRA  .4005 BC3  .7472 FSP   -398
```

MID-COURSE EXECUTION ACCURACY

```
SGT  948.5 SGR  429.8 SG3  153.3
RRT -.1712 RRF  .1948 RTF -.7747
SGB 1041.3 R23 -.0298 R13  .7767
SG1  952.0 SG2  421.9 THA 174.47
```

ORBIT DETERMINATION ACCURACY

```
ST   496.3 SR   402.2 SS   428.7
CRT -.9090 CRS -.9945 CST  .9340
LSA  754.3 MSA  149.3 SSA   24.2
EL1  624.8 EL2  133.2 ALF 141.55
```

LAUNCH DATE JUN 27 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 21 1967

HELIOCENTRIC CONIC DISTANCE 222.766

RL 152.07 LAL .00 LOL 274.68 VL 26.038 GAL -4.26 AZL 93.11 HCA 96.28 SMA 124.33 ECC .23459 INC 3.1057 V1 29.296
RP 108.58 LAP -3.09 LOP 10.97 VP 37.111 GAP -11.48 AZP 89.66 TAL 194.20 TAP 290.48 RCA 95.16 APO 153.50 V2 34.903
RC 51.950 GL -19.75 GP -5.30 ZAL 118.73 ZAP 12.64 ETS 23.66 ZAE 148.04 ETE 9.03 ZAC 87.40 ETC 13.79 CLP -11.49

PLANETOCENTRIC CONIC

C3 17.330 VHL 4.163 DLA -8.38 RAL 148.74 RAD 6567.7 VEL 11.778 PTH 2.08 VHP 7.359 DPA -1.59 RAP 178.65 ECC 1.2852

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 2 13	1918.01	-11.44	23.51	6.67	116.08	4 34 11	1318.0	-7.85	16.68
90.00	13 53 42	5087.52	24.38	225.48	10.15	75.14	15 18 30	4487.5	22.11	217.54
100.00	5 19 30	1668.69	-12.44	4.67	6.15	117.40	5 47 18	1068.7	-8.68	357.90
100.00	15 19 6	4812.08	25.46	204.89	9.82	73.79	16 39 18	4212.1	22.99	196.96
110.00	6 18 29	1483.99	-15.08	349.13	4.63	121.05	6 43 13	884.0	-10.86	342.58
110.00	16 36 36	4569.54	28.33	185.42	8.77	70.03	17 52 46	3969.5	25.35	177.52

DIFFERENTIAL CORRECTIONS
TDE .3476 TRA -.3591 TC3 .8173 BAU .1900
RDE -.2912 RRA -.1008 RC3 .0688 FAU .04480
FDE -.5049 FRA -.1155 FC3-2.2381 BSP 2886
BDE .4534 BRA .3730 BC3 .8202 FSP -455

MID-COURSE EXECUTION ACCURACY
SGT 970.3 SGR 428.4 SG3 172.4
RRT -.1990 RRF .2273 RTF -.7852
SGB 1060.6 R23 -.0362 R13 .7877
SG1 974.8 SG2 417.9 THA 173.84

ORBIT DETERMINATION ACCURACY
ST 501.7 SR 403.0 SS 444.3
CRT -.9169 CRS -.9958 CST .9308
LSA 767.3 MSA 148.8 SSA 25.1
EL1 630.7 EL2 127.9 ALF 141.77

LAUNCH DATE JUN 27 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 23 1967

HELIOCENTRIC CONIC DISTANCE 229.495

RL 152.07 LAL .00 LOL 274.68 VL 26.185 GAL -4.34 AZL 93.05 HCA 99.46 SMA 125.23 ECC .22672 INC 3.0454 V1 29.296
RP 108.54 LAP -3.00 LOP 14.16 VP 37.225 GAP -10.66 AZP 89.50 TAL 195.17 TAP 294.63 RCA 96.84 APO 153.63 V2 34.914
RC 53.515 GL -19.96 GP -5.72 ZAL 120.29 ZAP 15.08 ETS 21.01 ZAE 147.58 ETE 7.58 ZAC 86.84 ETC 13.84 CLP -13.98

PLANETOCENTRIC CONIC

C3 16.513 VHL 4.064 DLA -7.99 RAL 147.12 RAD 6567.7 VEL 11.743 PTH 2.07 VHP 6.915 DPA -2.25 RAP 179.11 ECC 1.2718

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 52 43	1919.41	-11.49	23.59	4.37	116.06	4 24 42	1319.4	-7.89	16.76
90.00	13 50 19	5063.88	23.96	223.87	7.60	74.44	15 14 43	4463.9	21.60	216.00
100.00	5 10 12	1669.43	-12.47	4.71	3.87	117.39	5 38 2	1069.4	-8.70	357.95
100.00	15 15 31	4789.09	25.02	203.33	7.26	73.08	16 35 20	4189.1	22.46	195.46
110.00	6 9 39	1483.29	-15.06	349.09	2.38	121.06	6 34 22	883.3	-10.83	342.54
110.00	16 32 33	4548.00	27.82	183.95	6.19	69.29	17 48 21	3948.0	24.75	176.13

DIFFERENTIAL CORRECTIONS
TDE .3443 TRA -.3308 TC3 .8906 BAU .1969
RDE -.2847 RRA -.0988 RC3 .0508 FAU .04927
FDE -.5424 FRA -.1761 FC3-2.5833 BSP 3007
BDE .4468 BRA .3452 BC3 .8920 FSP -523

MID-COURSE EXECUTION ACCURACY
SGT 990.6 SGR 427.4 SG3 194.3
RRT -.2334 RRF .2660 RTF -.7959
SGB 1078.9 R23 -.0423 R13 .7990
SG1 996.7 SG2 413.0 THA 173.05

ORBIT DETERMINATION ACCURACY
ST 506.1 SR 403.7 SS 460.6
CRT -.9247 CRS -.9964 CST .9278
LSA 780.1 MSA 148.7 SSA 25.7
EL1 635.7 EL2 122.3 ALF 141.93

LAUNCH DATE JUN 27 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 25 1967

HELIOCENTRIC CONIC DISTANCE 236.213

RL 152.07 LAL .00 LOL 274.68 VL 26.318 GAL -4.42 AZL 92.98 HCA 102.65 SMA 126.06 ECC .21971 INC 2.9839 V1 29.296
RP 108.50 LAP -2.91 LOP 17.34 VP 37.330 GAP -9.88 AZP 89.35 TAL 196.11 TAP 298.76 RCA 98.36 APO 153.75 V2 34.926
RC 55.163 GL -20.09 GP -6.19 ZAL 121.79 ZAP 17.68 ETS 19.05 ZAE 147.37 ETE 6.11 ZAC 86.40 ETC 13.90 CLP -16.59

PLANETOCENTRIC CONIC

C3 15.819 VHL 3.977 DLA -7.55 RAL 145.60 RAD 6567.6 VEL 11.713 PTH 2.06 VHP 6.495 DPA -2.92 RAP 179.44 ECC 1.2603

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 43 16	1923.51	-11.61	23.83	2.26	116.01	4 15 20	1323.5	-8.02	16.99
90.00	13 47 38	5040.23	23.52	222.28	5.23	73.76	15 11 38	4440.2	21.07	214.46
100.00	5 0 59	1672.81	-12.57	4.90	1.77	117.34	5 28 52	1072.8	-8.81	358.14
100.00	15 12 36	4766.16	24.55	201.78	4.89	72.39	16 32 2	4166.2	21.91	193.98
110.00	6 0 56	1485.09	-15.12	349.19	.30	121.03	6 25 41	885.1	-10.90	342.64
110.00	16 29 8	4526.65	27.30	182.51	3.81	68.58	17 44 35	3926.7	24.15	174.77

DIFFERENTIAL CORRECTIONS
TDE .3377 TRA -.3059 TC3 .9526 BAU .2015
RDE -.2789 RRA -.0977 RC3 .0278 FAU .05430
FDE -.5815 FRA -.2433 FC3-2.9715 BSP 3067
BDE .4380 BRA .3211 BC3 .9530 FSP -597

MID-COURSE EXECUTION ACCURACY
SGT 1004.2 SGR 426.7 SG3 218.8
RRT -.2698 RRF .3096 RTF -.8027
SGB 1091.1 R23 -.0521 R13 .8068
SG1 1012.1 SG2 407.7 THA 172.18

ORBIT DETERMINATION ACCURACY
ST 504.9 SR 404.1 SS 475.5
CRT -.9302 CRS -.9961 CST .9231
LSA 788.1 MSA 150.0 SSA 26.3
EL1 635.9 EL2 117.8 ALF 141.79

LAUNCH DATE JUN 27 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 27 1967

HELIOCENTRIC CONIC DISTANCE 242.918

RL 152.07 LAL .00 LOL 274.68 VL 26.436 GAL -4.49 AZL 92.92 HCA 105.83 SMA 126.81 ECC .21349 INC 2.9208 V1 29.296
RP 108.46 LAP -2.81 LOP 20.53 VP 37.425 GAP -9.13 AZP 89.20 TAL 197.03 TAP 302.87 RCA 99.74 APO 153.88 V2 34.938
RC 56.885 GL -20.13 GP -6.72 ZAL 123.21 ZAP 20.43 ETS 17.57 ZAE 147.44 ETE 4.58 ZAC 86.12 ETC 13.97 CLP -19.34

PLANETOCENTRIC CONIC

C3 15.228 VHL 3.902 DLA -7.08 RAL 144.19 RAD 6567.6 VEL 11.688 PTH 2.06 VHP 6.099 DPA -3.58 RAP 179.61 ECC 1.2506

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 33 59	1929.96	-11.80	24.21	.33	115.93	4 6 9	1330.0	-8.22	17.36
90.00	13 45 39	5016.60	23.06	220.70	3.06	73.10	15 9 15	4416.6	20.53	212.94
100.00	4 51 56	1678.48	-12.75	5.23	359.85	117.27	5 19 54	1078.5	-8.99	358.45
100.00	15 10 23	4743.31	24.07	200.25	2.71	71.72	16 29 26	4143.3	21.35	192.51
110.00	5 52 26	1489.05	-15.26	349.42	358.41	120.97	6 17 15	889.1	-11.04	342.85
110.00	16 26 22	4505.51	26.77	181.10	1.61	67.90	17 41 27	3905.5	23.53	173.43

DIFFERENTIAL CORRECTIONS
TDE .3295 TRA -.2829 TC3 1.0051 BAU .2046
RDE -.2739 RRA -.0977 RC3 -.0010 FAU .05999
FDE -.6240 FRA -.3195 FC3-3.4104 BSP 3111
BDE .4284 BRA .2993 BC3 1.0051 FSP -682

MID-COURSE EXECUTION ACCURACY
SGT 1012.2 SGR 427.3 SG3 246.6
RRT -.3114 RRF .3599 RTF -.8076
SGB 1098.7 R23 -.0644 R13 .8130
SG1 1022.6 SG2 402.0 THA 171.13

ORBIT DETERMINATION ACCURACY
ST 500.3 SR 404.5 SS 490.4
CRT -.9344 CRS -.9953 CST .9177
LSA 794.0 MSA 152.2 SSA 26.6
EL1 633.2 EL2 113.9 ALF 141.46

LAUNCH DATE JUN 27 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 29 1967

HELIOCENTRIC CONIC DISTANCE 249.607

```
RL  152.07 LAL    .00 LOL 274.68 VL  26.541 GAL  -4.56 AZL  92.86 HCA 109.02 SMA 127.49 ECC .20798 INC 2.8557 V1  29.296
RP  108.43 LAP  -2.70 LOP  23.73 VP  37.511 GAP  -8.41 AZP  89.07 TAL 197.91 TAP 306.93 RCA 100.98 APO 154.01 V2  34.951
RC  58.673 GL  -20.09 GP   -7.32 ZAL 124.56 ZAP  23.36 ETS  16.41 ZAE 147.77 ETE   2.96 ZAC  86.00 ETC  14.03 CLP -22.25
```

PLANETOCENTRIC CONIC

```
C3  14.721 VHL  3.837 DLA  -6.58 RAL 142.89 RAD 6567.6 VEL 11.666 PTH   2.05 VHP  5.726 DPA  -4.24 RAP 179.62 ECC 1.2423
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 24 56	1938.40	-12.05	24.70	358.60	115.82	3 57 14	1338.4	-8.48	17.84
90.00	13 44 22	4993.02	22.59	219.13	1.07	72.45	15 7 35	4393.0	19.98	211.43
100.00	4 43 8	1686.10	-12.99	5.67	358.12	117.16	5 11 15	1086.1	-9.24	358.88
100.00	15 8 51	4720.55	23.58	198.74	.72	71.07	16 27 31	4120.6	20.78	191.06
110.00	5 44 13	1494.87	-15.46	349.75	356.70	120.87	6 9 8	894.9	-11.25	343.17
110.00	16 24 15	4484.55	26.22	179.71	359.61	67.24	17 39 0	3884.5	22.91	172.12

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .3194 TRA -.2624 TC3 1.0458 BAU  .2059   SGT 1013.4 SGR  429.8 SG3  278.0      ST   491.9 SR   404.8 SS   504.6
RDE -.2694 RRA -.0988 RC3 -.0364 FAU .06641   RRT -.3575 RRF  .4166 RTF -.8102     CRT -.9371 CRS -.9938 CST  .9112
FDE -.6692 FRA -.4048 FC3-3.9054 BSP   3136   SGB 1100.8 R23 -.0799 R13  .8176     LSA  797.3 MSA  155.3 SSA   26.8
BDE  .4178 BRA  .2804 BC3 1.0464 FSP   -779   SG1 1027.1 SG2  396.0 THA 169.86     EL1  627.4 EL2  110.8 ALF 140.91
```

LAUNCH DATE JUN 27 1967 FLIGHT TIME 96.00 ARRIVAL DATE OCT 1 1967

HELIOCENTRIC CONIC DISTANCE 256.278

```
RL  152.07 LAL    .00 LOL 274.68 VL  26.635 GAL  -4.62 AZL  92.79 HCA 112.22 SMA 128.10 ECC .20314 INC 2.7879 V1  29.296
RP  108.39 LAP  -2.58 LOP  26.92 VP  37.589 GAP  -7.71 AZP  88.95 TAL 198.73 TAP 310.95 RCA 102.08 APO 154.13 V2  34.964
RC  60.521 GL  -19.98 GP   -7.99 ZAL 125.82 ZAP  26.48 ETS  15.48 ZAE 148.38 ETE   1.17 ZAC  86.07 ETC  14.08 CLP -25.33
```

PLANETOCENTRIC CONIC

```
C3  14.283 VHL  3.779 DLA  -6.05 RAL 141.73 RAD 6567.6 VEL 11.648 PTH   2.04 VHP  5.377 DPA  -4.90 RAP 179.44 ECC 1.2351
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 16 12	1948.55	-12.35	25.30	357.04	115.68	3 48 41	1348.5	-8.80	18.42
90.00	13 43 48	4969.45	22.10	217.58	359.28	71.83	15 6 37	4369.5	19.41	209.94
100.00	4 34 41	1695.39	-13.27	6.21	356.58	117.03	5 2 56	1095.4	-9.55	359.41
100.00	15 8 0	4697.84	23.07	197.25	358.92	70.44	16 26 18	4097.8	20.19	189.63
110.00	5 36 22	1502.28	-15.72	350.16	355.18	120.75	6 1 24	902.3	-11.52	343.57
110.00	16 22 49	4463.72	25.67	178.35	357.80	66.61	17 37 13	3863.7	22.28	170.83

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .3092 TRA -.2430 TC3 1.0775 BAU  .2063   SGT 1010.1 SGR  435.5 SG3  313.9      ST   482.5 SR   405.4 SS   520.5
RDE -.2657 RRA -.1013 RC3 -.0796 FAU .07377   RRT -.4105 RRF  .4811 RTF -.8121     CRT -.9393 CRS -.9920 CST  .9043
FDE -.7201 FRA -.5026 FC3-4.4717 BSP   3179   SGB 1100.0 R23 -.0976 R13  .8223     LSA  801.3 MSA  158.9 SSA   26.8
BDE  .4077 BRA  .2633 BC3 1.0805 FSP   -894   SG1 1028.6 SG2  390.0 THA 168.25     EL1  620.8 EL2  108.1 ALF 140.27
```

LAUNCH DATE JUN 27 1967 FLIGHT TIME 98.00 ARRIVAL DATE OCT 3 1967

HELIOCENTRIC CONIC DISTANCE 262.931

```
RL  152.07 LAL    .00 LOL 274.68 VL  26.717 GAL  -4.67 AZL  92.72 HCA 115.41 SMA 128.65 ECC .19890 INC 2.7169 V1  29.296
RP  108.35 LAP  -2.45 LOP  30.12 VP  37.659 GAP  -7.04 AZP  88.83 TAL 199.50 TAP 314.91 RCA 103.06 APO 154.24 V2  34.977
RC  62.420 GL  -19.79 GP   -8.75 ZAL 126.97 ZAP  29.82 ETS  14.70 ZAE 149.26 ETE 359.13 ZAC  86.35 ETC  14.12 CLP -28.62
```

PLANETOCENTRIC CONIC

```
C3  13.899 VHL  3.728 DLA  -5.49 RAL 140.70 RAD 6567.5 VEL 11.631 PTH   2.04 VHP  5.052 DPA  -5.56 RAP 179.05 ECC 1.2287
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 7 51	1960.13	-12.69	25.98	355.68	115.53	3 40 31	1360.1	-9.15	19.09
90.00	13 43 56	4945.86	21.59	216.04	357.67	71.22	15 6 22	4345.9	18.82	208.45
100.00	4 26 36	1706.09	-13.60	6.84	355.22	116.88	4 55 2	1106.1	-9.89	.01
100.00	15 7 52	4675.13	22.54	195.76	357.31	69.83	16 25 48	4075.1	19.59	188.21
110.00	5 28 54	1511.02	-16.02	350.66	353.85	120.61	5 54 5	911.0	-11.84	344.05
110.00	16 22 3	4442.97	25.10	177.00	356.17	66.00	17 36 6	3843.0	21.64	169.56

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .2949 TRA -.2293 TC3 1.0867 BAU  .2034   SGT  993.6 SGR  445.2 SG3  353.5      ST   466.2 SR   405.9 SS   533.7
RDE -.2622 RRA -.1050 RC3 -.1309 FAU .08187   RRT -.4619 RRF  .5492 RTF -.8082     CRT -.9383 CRS -.9899 CST  .8943
FDE -.7706 FRA -.6074 FC3-5.0998 BSP   3146   SGB 1088.8 R23 -.1233 R13  .8230     LSA  799.6 MSA  163.7 SSA   26.7
BDE  .3946 BRA  .2522 BC3 1.0945 FSP  -1017   SG1 1018.4 SG2  385.3 THA 166.31     EL1  608.7 EL2  107.5 ALF 139.21
```

LAUNCH DATE JUN 27 1967 FLIGHT TIME 100.00 ARRIVAL DATE OCT 5 1967

HELIOCENTRIC CONIC DISTANCE 269.563

```
RL  152.07 LAL    .00 LOL 274.68 VL  26.789 GAL  -4.71 AZL  92.64 HCA 118.61 SMA 129.13 ECC .19520 INC 2.6420 V1  29.296
RP  108.31 LAP  -2.32 LOP  33.31 VP  37.723 GAP  -6.40 AZP  88.73 TAL 200.19 TAP 318.79 RCA 103.93 APO 154.34 V2  34.990
RC  64.367 GL  -19.53 GP   -9.61 ZAL 128.03 ZAP  33.37 ETS  14.03 ZAE 150.43 ETE 356.75 ZAC  86.86 ETC  14.14 CLP -32.11
```

PLANETOCENTRIC CONIC

```
C3  13.557 VHL  3.682 DLA  -4.91 RAL 139.81 RAD 6567.5 VEL 11.616 PTH   2.04 VHP  4.751 DPA  -6.21 RAP 178.41 ECC 1.2231
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 59 54	1972.98	-13.07	26.73	354.49	115.35	3 32 47	1373.0	-9.55	19.82
90.00	13 44 48	4922.12	21.06	214.50	356.25	70.62	15 6 50	4322.1	18.22	206.97
100.00	4 18 56	1718.03	-13.97	7.53	354.04	116.70	4 47 34	1118.0	-10.28	.69
100.00	15 8 27	4652.30	22.00	194.28	355.88	69.24	16 26 0	4052.3	18.98	186.79
110.00	5 21 53	1520.94	-16.37	351.22	352.69	120.44	5 47 14	920.9	-12.20	344.59
110.00	16 21 59	4422.16	24.52	175.67	354.73	65.40	17 35 42	3822.2	20.99	168.30

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE  .2784 TRA -.2197 TC3 1.0762 BAU  .1981   SGT  966.2 SGR  460.7 SG3  397.4      ST   445.9 SR   406.6 SS   545.6
RDE -.2592 RRA -.1102 RC3 -.1919 FAU .09084   RRT -.5115 RRF  .6199 RTF -.7996     CRT -.9349 CRS -.9878 CST  .8813
FDE -.8219 FRA -.7212 FC3-5.8013 BSP   3082   SGB 1070.4 R23 -.1560 R13  .8217     LSA  795.3 MSA  169.1 SSA   26.5
BDE  .3804 BRA  .2458 BC3 1.0932 FSP  -1156   SG1  999.7 SG2  382.6 THA 163.87     EL1  593.6 EL2  108.4 ALF 137.82
```

LAUNCH DATE JUN 27 1967 FLIGHT TIME 102.00 ARRIVAL DATE OCT 7 1967

DISTANCE 276.174

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 26.852 GAL -4.75 AZL 92.56 HCA 121.81 SMA 129.55 ECC .19199 INC 2.5623 V1 29.296
RP 108.27 LAP -2.18 LOP 36.51 VP 37.779 GAP -5.78 AZP 88.65 TAL 200.80 TAP 322.61 RCA 104.68 APO 154.43 V2 35.003
RC 66.356 GL -19.19 GP -10.58 ZAL 128.99 ZAP 37.18 ETS 13.42 ZAE 151.86 ETE 353.87 ZAC 87.62 ETC 14.11 CLP -35.85

PLANETOCENTRIC CONIC
C3 13.247 VHL 3.640 DLA -4.30 RAL 139.06 RAD 6567.5 VEL 11.603 PTH 2.03 VHP 4.475 DPA -6.88 RAP 177.53 ECC 1.2180

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 52 20	1986.99	-13.48	27.56	353.49	115.14	3 25 27	1387.0	-9.98	20.63
90.00	13 46 24	4898.06	20.51	212.95	355.00	70.03	15 8 2	4298.1	17.60	205.48
100.00	4 11 40	1731.09	-14.37	8.30	353.04	116.50	4 40 31	1131.1	-10.70	1.43
100.00	15 9 46	4629.19	21.44	192.80	354.63	68.65	16 26 55	4029.2	18.34	185.37
110.00	5 15 17	1531.92	-16.74	351.85	351.71	120.25	5 40 49	931.9	-12.60	345.19
110.00	16 22 38	4401.13	23.91	174.33	353.47	64.81	17 35 59	3801.1	20.32	167.03

DIFFERENTIAL CORRECTIONS
TOE .2596 TRA -.2151 TC3 1.0429 BAU .1905
ROE -.2565 RRA -.1168 RC3 -.2643 FAU .10068
FOE -.8727 FRA -.8419 FC3-6.5795 BSP 2987
BOE .3649 BRA .2447 BC3 1.0759 FSP -1309

MID-COURSE EXECUTION ACCURACY
SGT 926.6 SGR 483.7 SG3 445.5
RRT -.5543 RRF .6900 RTF -.7840
SGB 1045.3 R23 -.1970 R13 .8185
SG1 972.3 SG2 383.7 THA 160.75

ORBIT DETERMINATION ACCURACY
ST 421.8 SR 407.6 SS 555.9
CRT -.9278 CRS -.9857 CST .8642
LSA 788.5 MSA 175.0 SSA 26.2
EL1 575.8 EL2 111.3 ALF 136.06

LAUNCH DATE JUN 27 1967 FLIGHT TIME 104.00 ARRIVAL DATE OCT 9 1967

DISTANCE 282.763

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 26.906 GAL -4.78 AZL 92.48 HCA 125.01 SMA 129.92 ECC .18922 INC 2.4769 V1 29.296
RP 108.22 LAP -2.03 LOP 39.71 VP 37.829 GAP -5.18 AZP 88.58 TAL 201.33 TAP 326.34 RCA 105.34 APO 154.50 V2 35.016
RC 68.382 GL -18.78 GP -11.68 ZAL 129.85 ZAP 41.24 ETS 12.84 ZAE 153.52 ETE 350.30 ZAC 88.65 ETC 14.03 CLP -39.84

PLANETOCENTRIC CONIC
C3 12.960 VHL 3.600 DLA -3.66 RAL 138.46 RAD 6567.5 VEL 11.591 PTH 2.03 VHP 4.224 DPA -7.55 RAP 176.36 ECC 1.2133

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 45 10	2002.15	-13.91	28.46	352.65	114.91	3 18 32	1402.1	-10.44	21.50
90.00	13 48 47	4873.46	19.93	211.38	353.92	69.46	15 10 0	4273.5	16.95	203.97
100.00	4 4 47	1745.27	-14.80	9.13	352.21	116.27	4 33 53	1145.3	-11.15	2.24
100.00	15 11 50	4605.57	20.84	191.30	353.54	68.07	16 28 36	4005.6	17.68	183.93
110.00	5 9 6	1543.93	-17.15	352.54	350.90	120.03	5 34 50	943.9	-13.03	345.85
110.00	16 24 1	4379.68	23.29	172.98	352.38	64.24	17 37 0	3779.7	19.63	165.75

DIFFERENTIAL CORRECTIONS
TOE .2399 TRA -.2143 TC3 .9881 BAU .1817
ROE -.2543 RRA -.1252 RC3 -.3505 FAU .11144
FOE -.9242 FRA -.9717 FC3-7.4441 BSP 2897
BOE .3495 BRA .2482 BC3 1.0484 FSP -1483

MID-COURSE EXECUTION ACCURACY
SGT 876.8 SGR 517.0 SG3 498.5
RRT -.5863 RRF .7566 RTF -.7601
SGB 1017.8 R23 -.2437 R13 .8159
SG1 939.9 SG2 390.7 THA 156.67

ORBIT DETERMINATION ACCURACY
ST 395.8 SR 409.1 SS 566.1
CRT -.9169 CRS -.9838 CST .8425
LSA 781.7 MSA 181.1 SSA 25.8
EL1 557.3 EL2 116.0 ALF 133.97

LAUNCH DATE JUN 27 1967 FLIGHT TIME 106.00 ARRIVAL DATE OCT 11 1967

DISTANCE 289.330

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 26.951 GAL -4.79 AZL 92.38 HCA 128.21 SMA 130.23 ECC .18684 INC 2.3844 V1 29.296
RP 108.18 LAP -1.87 LOP 42.92 VP 37.874 GAP -4.60 AZP 88.52 TAL 201.77 TAP 329.98 RCA 105.90 APO 154.56 V2 35.029
RC 70.443 GL -18.28 GP -12.90 ZAL 130.60 ZAP 45.57 ETS 12.24 ZAE 155.38 ETE 345.75 ZAC 89.95 ETC 13.87 CLP -44.09

PLANETOCENTRIC CONIC
C3 12.689 VHL 3.562 DLA -2.99 RAL 138.01 RAD 6567.5 VEL 11.579 PTH 2.02 VHP 4.000 DPA -8.24 RAP 174.91 ECC 1.2088

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 38 20	2018.52	-14.38	29.43	351.98	114.66	3 11 58	1418.5	-10.93	22.45
90.00	13 51 59	4848.01	19.31	209.77	353.01	68.88	15 12 47	4248.0	16.27	202.41
100.00	3 58 17	1760.62	-15.26	10.04	351.55	116.02	4 27 37	1160.6	-11.64	3.12
100.00	15 14 43	4581.14	20.21	189.76	352.62	67.50	16 31 4	3981.1	16.99	182.45
110.00	5 3 19	1557.00	-17.60	353.29	350.26	119.79	5 29 16	957.0	-13.50	346.58
110.00	16 26 10	4357.53	22.62	171.60	351.45	63.66	17 38 48	3757.5	18.90	164.45

DIFFERENTIAL CORRECTIONS
TOE .2162 TRA -.2210 TC3 .8988 BAU .1706
ROE -.2518 RRA -.1349 RC3 -.4507 FAU .12260
FOE -.9645 FRA-1.0982 FC3-8.3643 BSP 2750
BOE .3319 BRA .2589 BC3 1.0054 FSP -1661

MID-COURSE EXECUTION ACCURACY
SGT 811.0 SGR 560.6 SG3 553.5
RRT -.5919 RRF .8146 RTF -.7171
SGB 985.9 R23 -.2960 R13 .8129
SG1 897.3 SG2 408.4 THA 151.27

ORBIT DETERMINATION ACCURACY
ST 364.3 SR 410.3 SS 570.0
CRT -.8969 CRS -.9820 CST .8093
LSA 768.2 MSA 187.7 SSA 25.4
EL1 534.6 EL2 123.6 ALF 131.22

LAUNCH DATE JUN 27 1967 FLIGHT TIME 108.00 ARRIVAL DATE OCT 13 1967

DISTANCE 295.874

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 26.989 GAL -4.80 AZL 92.28 HCA 131.42 SMA 130.49 ECC .18482 INC 2.2832 V1 29.296
RP 108.14 LAP -1.71 LOP 46.12 VP 37.913 GAP -4.04 AZP 88.49 TAL 202.12 TAP 333.53 RCA 106.38 APO 154.61 V2 35.042
RC 72.534 GL -17.70 GP -14.27 ZAL 131.26 ZAP 50.16 ETS 11.59 ZAE 157.33 ETE 339.83 ZAC 91.54 ETC 13.63 CLP -48.62

PLANETOCENTRIC CONIC
C3 12.427 VHL 3.525 DLA -2.27 RAL 137.70 RAD 6567.5 VEL 11.568 PTH 2.02 VHP 3.803 DPA -8.96 RAP 173.15 ECC 1.2045

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 31 47	2036.30	-14.88	30.50	351.48	114.37	3 5 43	1436.3	-11.47	23.48
90.00	13 56 5	4821.31	18.65	208.09	352.25	68.30	15 16 27	4221.3	15.54	200.79
100.00	3 52 4	1777.32	-15.76	11.03	351.05	115.74	4 21 41	1177.3	-12.16	4.08
100.00	15 18 30	4555.53	19.54	188.15	351.86	66.92	16 34 25	3955.5	16.25	180.91
110.00	4 57 53	1571.30	-18.08	354.12	349.78	119.52	5 24 4	971.3	-14.01	347.37
110.00	16 29 10	4334.32	21.92	170.17	350.67	63.09	17 41 24	3734.3	18.13	163.09

DIFFERENTIAL CORRECTIONS
TOE .1908 TRA -.2337 TC3 .7768 BAU .1599
ROE -.2492 RRA -.1459 RC3 -.5678 FAU .13404
FOE -.9944 FRA-1.2193 FC3-9.3381 BSP 2605
BOE .3139 BRA .2755 BC3 .9622 FSP -1847

MID-COURSE EXECUTION ACCURACY
SGT 735.3 SGR 616.9 SG3 610.3
RRT -.5613 RRF .8630 RTF -.6456
SGB 959.8 R23 -.3370 R13 .8180
SG1 853.0 SG2 440.1 THA 143.72

ORBIT DETERMINATION ACCURACY
ST 330.9 SR 411.4 SS 569.6
CRT -.8647 CRS -.9806 CST .7613
LSA 751.5 MSA 194.4 SSA 25.0
EL1 510.7 EL2 133.9 ALF 127.88

```
LAUNCH DATE  JUN 27 1967                          FLIGHT TIME 110.00                          ARRIVAL DATE  OCT 15 1967

 HELIOCENTRIC CONIC                                DISTANCE 302.394
  RL  152.07 LAL     .00 LOL 274.68 VL  27.019 GAL  -4.80 AZL  92.17 HCA 134.62 SMA 130.71 ECC .18311 INC 2.1716 V1  29.296
  RP  108.10 LAP  -1.55 LOP  49.33 VP  37.947 GAP  -3.50 AZP  88.47 TAL 202.38 TAP 337.00 RCA 106.77 APO 154.64 V2  35.056
  RC  74.652 GL  -17.01 GP  -15.79 ZAL 131.82 ZAP  55.01 ETS  10.84 ZAE 159.22 ETE 332.04 ZAC  93.40 ETC  13.26 CLP -53.43
 PLANETOCENTRIC CONIC
  C3  12.168 VHL  3.488 DLA  -1.50 RAL 137.54 RAD 6567.5 VEL 11.557 PTH   2.02 VHP  3.634 DPA  -9.71 RAP 171.09 ECC 1.2003
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     2 25 25   2055.85     -15.43     31.67     351.14      114.04    2 59 41    1455.9      -12.05      24.63
     90.00    14  1 13   4792.83      17.92    206.31     351.64       67.70   15 21  6    4192.8       14.74     199.08
    100.00     3 46  3   1795.71     -16.30     12.13     350.72      115.41    4 15 59    1195.7      -12.74       5.14
    100.00    15 23 15   4528.21      18.80    186.46     351.25       66.32   16 38 44    3928.2       15.44     179.28
    110.00     4 52 42   1587.09     -18.61    355.04     349.47      119.21    5 19  9     987.1      -14.57     348.25
    110.00    16 33  6   4309.59      21.15    168.67     350.05       62.50   17 44 56    3709.6       17.29     161.66
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE  .1649 TRA -.2516 TC3  .6216 BAU  .1529      SGT  657.5 SGR  687.9 SG3  667.7            ST   298.1 SR   412.2 SS   564.7
  RDE -.2463 RRA -.1585 RC3 -.7048 FAU .14552      RRT -.4757 RRF  .9017 RTF -.5268            CRT -.8140 CRS -.9793 CST  .6918
  FDE-1.0108 FRA-1.3325 FC-10.3532 BSP   2517      SGB  951.5 R23 -.3311 R13  .8460            LSA  732.5 MSA  201.3 SSA   24.6
  BDE  .2963 BRA  .2973 BC3  .9397 FSP  -2042      SG1  817.8 SG2  486.4 THA 132.29            EL1  487.2 EL2  146.5 ALF 123.97

LAUNCH DATE  JUN 27 1967                          FLIGHT TIME 112.00                          ARRIVAL DATE  OCT 17 1967

 HELIOCENTRIC CONIC                                DISTANCE 308.891
  RL  152.07 LAL     .00 LOL 274.68 VL  27.044 GAL  -4.78 AZL  92.05 HCA 137.84 SMA 130.87 ECC .18168 INC 2.0467 V1  29.296
  RP  108.06 LAP  -1.37 LOP  52.53 VP  37.977 GAP  -2.98 AZP  88.48 TAL 202.54 TAP 340.38 RCA 107.10 APO 154.65 V2  35.069
  RC  76.795 GL  -16.20 GP  -17.48 ZAL 132.29 ZAP  60.09 ETS   9.97 ZAE 160.81 ETE 321.92 ZAC  95.52 ETC  12.74 CLP -58.48
 PLANETOCENTRIC CONIC
  C3  11.908 VHL  3.451 DLA   -.65 RAL 137.54 RAD 6567.5 VEL 11.545 PTH   2.02 VHP  3.496 DPA -10.53 RAP 168.75 ECC 1.1960
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     2 19  6   2077.68     -16.03     33.00     350.97      113.66    2 53 44    1477.7      -12.69      25.91
     90.00    14  7 32   4761.88      17.11    204.40     351.18       67.09   15 26 54    4161.9       13.86     197.23
    100.00     3 40  8   1816.26     -16.89     13.36     350.56      115.03    4 10 25    1216.3      -13.38       6.34
    100.00    15 29 10   4498.52      17.98    184.64     350.78       65.71   16 44  9    3898.5       14.55     177.53
    110.00     4 47 42   1604.80     -19.19    356.08     349.33      118.84    5 14 26    1004.8      -15.20     349.24
    110.00    16 38  6   4282.75      20.29    167.05     349.58       61.88   17 49 29    3682.7       16.38     160.12
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE  .1371 TRA -.2764 TC3  .4230 BAU  .1527      SGT  589.6 SGR  771.2 SG3  720.5            ST   266.2 SR   410.7 SS   548.9
  RDE -.2417 RRA -.1712 RC3 -.8607 FAU .15597      RRT -.2954 RRF  .9304 RTF -.3215            CRT -.7298 CRS -.9778 CST  .5832
  FDE -.9985 FRA-1.4190 FC-11.3592 BSP   2496      SGB  970.8 R23 -.2137 R13  .9069            LSA  704.9 MSA  208.5 SSA   24.3
  BDE  .2779 BRA  .3251 BC3  .9590 FSP  -2217      SG1  808.5 SG2  537.3 THA 113.70            EL1  461.9 EL2  161.8 ALF 119.25

LAUNCH DATE  JUN 27 1967                          FLIGHT TIME 114.00                          ARRIVAL DATE  OCT 19 1967

 HELIOCENTRIC CONIC                                DISTANCE 315.365
  RL  152.07 LAL     .00 LOL 274.68 VL  27.062 GAL  -4.76 AZL  91.91 HCA 141.05 SMA 131.00 ECC .18050 INC 1.9052 V1  29.296
  RP  108.02 LAP  -1.20 LOP  55.74 VP  38.001 GAP  -2.48 AZP  88.52 TAL 202.61 TAP 343.66 RCA 107.36 APO 154.65 V2  35.082
  RC  78.958 GL  -15.24 GP  -19.34 ZAL 132.67 ZAP  65.35 ETS   8.93 ZAE 161.77 ETE 309.34 ZAC  97.85 ETC  12.05 CLP -63.77
 PLANETOCENTRIC CONIC
  C3  11.642 VHL  3.412 DLA    .31 RAL 137.71 RAD 6567.4 VEL 11.534 PTH   2.01 VHP  3.389 DPA -11.42 RAP 166.15 ECC 1.1916
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     2 12 39   2102.60     -16.70     34.51     350.97      113.20    2 47 42    1502.6      -13.42      27.37
     90.00    14 15 15   4727.50      16.19    202.30     350.87       66.44   15 34  3    4127.5       12.86     195.20
    100.00     3 34  8   1839.75     -17.56     14.79     350.58      114.58    4  4 48    1239.8      -14.10       7.71
    100.00    15 36 27   4465.57      17.04    182.64     350.47       65.07   16 50 53    3865.6       13.54     175.60
    110.00     4 42 43   1625.11     -19.85    357.29     349.37      118.41    5  9 48    1025.1      -15.90     350.39
    110.00    16 44 22   4252.86      19.33    165.28     349.25       61.24   17 55 15    3652.9       15.34     158.43
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE  .1109 TRA -.3053 TC3  .1859 BAU  .1644      SGT  560.0 SGR  869.5 SG3  768.1            ST   241.6 SR   407.0 SS   525.6
  RDE -.2356 RRA -.1844 RC3-1.0399 FAU .16518      RRT -.0103 RRF  .9516 RTF -.0182            CRT -.6051 CRS -.9760 CST  .4310
  FDE -.9610 FRA-1.4792 FC-12.2835 BSP   2649      SGB 1034.2 R23  .0015 R13  .9517            LSA  673.1 MSA  216.0 SSA   24.1
  BDE  .2604 BRA  .3567 BC3 1.0564 FSP  -2385      SG1  869.5 SG2  560.0 THA  90.65            EL1  438.3 EL2  178.6 ALF 113.98

LAUNCH DATE  JUN 27 1967                          FLIGHT TIME 116.00                          ARRIVAL DATE  OCT 21 1967

 HELIOCENTRIC CONIC                                DISTANCE 321.815
  RL  152.07 LAL     .00 LOL 274.68 VL  27.074 GAL  -4.73 AZL  91.74 HCA 144.26 SMA 131.09 ECC .17955 INC 1.7424 V1  29.296
  RP  107.98 LAP  -1.02 LOP  58.96 VP  38.022 GAP  -1.99 AZP  88.59 TAL 202.60 TAP 346.86 RCA 107.55 APO 154.63 V2  35.094
  RC  81.139 GL  -14.08 GP  -21.39 ZAL 132.97 ZAP  70.73 ETS   7.67 ZAE 161.73 ETE 295.13 ZAC 100.34 ETC  11.15 CLP -69.24
 PLANETOCENTRIC CONIC
  C3  11.368 VHL  3.372 DLA   1.41 RAL 138.04 RAD 6567.4 VEL 11.522 PTH   2.01 VHP  3.315 DPA -12.44 RAP 163.32 ECC 1.1871
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     2  5 50   2131.76     -17.48     36.30     351.18      112.64    2 41 21    1531.8      -14.26      29.11
     90.00    14 24 45   4688.41      15.11    199.94     350.73       65.76   15 42 53    4088.4       11.71     192.91
    100.00     3 27 49   1867.27     -18.33     16.47     350.79      114.03    3 58 57    1267.3      -14.93       9.32
    100.00    15 45 26   4428.14      15.96    180.39     350.32       64.38   16 59 14    3828.1       12.38     173.43
    110.00     4 37 34   1648.95     -20.62    358.71     349.61      117.89    5  5  3    1048.9      -16.73     351.75
    110.00    16 52 11   4219.22      18.21    163.30     349.09       60.56   18  2 30    3619.2       14.15     156.54
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE  .0861 TRA -.3389 TC3 -.0978 BAU  .1888      SGT  598.0 SGR  977.3 SG3  803.1            ST   226.4 SR   396.6 SS   485.0
  RDE -.2254 RRA -.1957 RC3-1.2387 FAU .17171      RRT  .3263 RRF  .9664 RTF  .3278            CRT -.4313 CRS -.9726 CST  .2247
  FDE -.8768 FRA-1.4895 FC-13.0771 BSP   2972      SGB 1145.7 R23  .1392 R13  .9565            LSA  626.8 MSA  224.2 SSA   24.2
  BDE  .2413 BRA  .3913 BC3 1.2426 FSP  -2503      SG1 1005.4 SG2  549.5 THA  73.73            EL1  412.2 EL2  196.5 ALF 108.07
```

LAUNCH DATE JUN 27 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 23 1967

DISTANCE 328.242

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 27.082 GAL -4.68 AZL 91.55 HCA 147.48 SMA 131.14 ECC .17880 INC 1.5519 V1 29.296
RP 107.94 LAP -.83 LOP 62.17 VP 38.039 GAP -1.52 AZP 88.69 TAL 202.49 TAP 349.97 RCA 107.69 APO 154.59 V2 35.107
RC 83.336 GL -12.69 GP -23.66 ZAL 133.18 ZAP 76.14 ETS 6.15 ZAE 160.48 ETE 281.10 ZAC 102.91 ETC 10.01 CLP -74.84

PLANETOCENTRIC CONIC
C3 11.083 VHL 3.329 DLA 2.71 RAL 138.56 RAD 6567.4 VEL 11.510 PTH 2.00 VHP 3.277 DPA -13.63 RAP 160.33 ECC 1.1824

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 58 15	2166.90	-18.38	38.48	351.60	111.92	2 34 22	1566.9	-15.25	31.21
90.00	14 36 31	4642.80	13.82	197.21	350.76	65.03	15 53 53	4042.8	10.34	190.26
100.00	3 20 51	1900.46	-19.24	18.51	351.23	113.33	3 52 32	1300.5	-15.92	11.29
100.00	15 56 35	4384.48	14.65	177.80	350.34	63.65	17 9 40	3784.5	11.00	170.92
110.00	4 32 0	1677.78	-21.53	.46	350.07	117.22	4 59 58	1077.8	-17.71	353.41
110.00	17 1 56	4179.92	16.88	161.03	349.10	59.83	18 11 36	3579.9	12.74	154.36

DIFFERENTIAL CORRECTIONS
TDE .0663 TRA -.3739 TC3 -.4236 BAU .2253
RDE -.2103 RRA -.2047 RC3-1.4602 FAU .17518
FDE -.7500 FRA-1.4505 FC-13.6839 BSP 3483
BDE .2205 BRA .4263 BC3 1.5204 FSP -2575

MID-COURSE EXECUTION ACCURACY
SGT 712.5 SGR 1095.7 SG3 823.9
RRT .5893 RRF .9769 RTF .5935
SGB 1307.0 R23 .1883 R13 .9588
SG1 1195.9 SG2 527.4 THA 63.49

ORBIT DETERMINATION ACCURACY
ST 224.6 SR 378.2 SS 429.6
CRT -.2425 CRS -.9661 CST .0001
LSA 568.2 MSA 233.7 SSA 24.5
EL1 384.0 EL2 214.6 ALF 101.99

LAUNCH DATE JUN 27 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 25 1967

DISTANCE 334.645

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 27.085 GAL -4.63 AZL 91.32 HCA 150.70 SMA 131.16 ECC .17823 INC 1.3245 V1 29.296
RP 107.91 LAP -.65 LOP 65.39 VP 38.052 GAP -1.06 AZP 88.84 TAL 202.30 TAP 353.00 RCA 107.78 APO 154.54 V2 35.119
RC 85.546 GL -10.95 GP -26.17 ZAL 133.31 ZAP 81.47 ETS 4.32 ZAE 158.03 ETE 269.02 ZAC 105.50 ETC 8.60 CLP -80.49

PLANETOCENTRIC CONIC
C3 10.789 VHL 3.285 DLA 4.29 RAL 139.31 RAD 6567.4 VEL 11.497 PTH 2.00 VHP 3.276 DPA -15.06 RAP 157.20 ECC 1.1776

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 49 23	2210.71	-19.47	41.24	352.31	110.97	2 26 13	1610.7	-16.45	33.87
90.00	14 51 18	4587.97	12.22	193.98	351.01	64.25	16 7 46	3988.0	8.65	187.11
100.00	3 12 44	1941.85	-20.34	21.10	351.95	112.39	3 45 6	1341.9	-17.12	13.78
100.00	16 10 38	4332.07	13.05	174.74	350.58	62.87	17 22 50	3732.1	9.31	167.95
110.00	4 25 36	1713.81	-22.63	2.67	350.83	116.33	4 54 10	1113.8	-18.91	355.51
110.00	17 14 16	4132.88	15.25	158.36	349.32	59.03	18 23 8	3532.9	11.03	151.79

DIFFERENTIAL CORRECTIONS
TDE .0552 TRA -.4075 TC3 -.7884 BAU .2714
RDE -.1892 RRA -.2108 RC3-1.7083 FAU .17532
FDE -.5849 FRA-1.3648 FC-14.0678 BSP 4174
BDE .1971 BRA .4588 BC3 1.8815 FSP -2611

MID-COURSE EXECUTION ACCURACY
SGT 886.4 SGR 1226.5 SG3 829.4
RRT .7471 RRF .9843 RTF .7510
SGB 1513.3 R23 .1990 R13 .9642
SG1 1425.9 SG2 506.8 THA 56.93

ORBIT DETERMINATION ACCURACY
ST 235.1 SR 349.7 SS 361.5
CRT -.0927 CRS -.9523 CST -.1972
LSA 497.2 MSA 245.8 SSA 25.3
EL1 350.9 EL2 233.2 ALF 96.40

LAUNCH DATE JUN 27 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 27 1967

DISTANCE 341.026

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 27.083 GAL -4.57 AZL 91.05 HCA 153.92 SMA 131.15 ECC .17783 INC 1.0458 V1 29.296
RP 107.87 LAP -.46 LOP 68.60 VP 38.062 GAP -.61 AZP 89.06 TAL 202.03 TAP 355.95 RCA 107.83 APO 154.47 V2 35.131
RC 87.767 GL -8.75 GP -29.01 ZAL 133.33 ZAP 86.62 ETS 2.13 ZAE 154.58 ETE 259.60 ZAC 108.00 ETC 6.88 CLP -86.13

PLANETOCENTRIC CONIC
C3 10.490 VHL 3.239 DLA 6.28 RAL 140.31 RAD 6567.4 VEL 11.484 PTH 2.00 VHP 3.318 DPA -16.82 RAP 153.99 ECC 1.1726

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 38 20	2267.41	-20.81	44.86	353.40	109.64	2 16 8	1667.4	-17.95	37.35
90.00	15 10 22	4519.84	10.17	190.02	351.54	63.43	16 25 42	3919.8	6.52	183.24
100.00	3 2 40	1995.42	-21.69	24.50	353.05	111.09	3 35 55	1395.4	-18.63	17.05
100.00	16 28 44	4267.06	11.00	171.00	351.11	62.03	17 39 51	3667.1	7.17	164.30
110.00	4 17 44	1760.48	-24.01	5.59	351.98	115.09	4 47 5	1160.5	-20.43	358.28
110.00	17 30 9	4074.76	13.19	155.12	349.82	58.17	18 38 4	3474.8	8.89	148.66

DIFFERENTIAL CORRECTIONS
TDE .0569 TRA -.4369 TC3-1.1917 BAU .3235
RDE -.1565 RRA -.2097 RC3-1.9752 FAU .17075
FDE -.3597 FRA-1.2115 FC-14.0918 BSP 4949
BDE .1665 BRA .4847 BC3 2.3068 FSP -2557

MID-COURSE EXECUTION ACCURACY
SGT 1100.3 SGR 1361.2 SG3 812.2
RRT .8346 RRF .9893 RTF .8371
SGB 1750.3 R23 .1985 R13 .9694
SG1 1680.0 SG2 491.1 THA 52.20

ORBIT DETERMINATION ACCURACY
ST 255.1 SR 301.0 SS 271.8
CRT -.0110 CRS -.9080 CST -.3854
LSA 400.2 MSA 261.9 SSA 27.6
EL1 301.1 EL2 255.1 ALF 91.90

LAUNCH DATE JUN 27 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 29 1967

DISTANCE 347.384

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 27.078 GAL -4.49 AZL 90.70 HCA 157.14 SMA 131.11 ECC .17757 INC .6946 V1 29.296
RP 107.83 LAP -.27 LOP 71.82 VP 38.069 GAP -.18 AZP 89.36 TAL 201.67 TAP 358.81 RCA 107.83 APO 154.39 V2 35.143
RC 89.996 GL -5.89 GP -32.28 ZAL 133.22 ZAP 91.44 ETS 359.52 ZAE 150.30 ETE 252.71 ZAC 110.32 ETC 4.79 CLP -91.70

PLANETOCENTRIC CONIC
C3 10.198 VHL 3.193 DLA 8.86 RAL 141.66 RAD 6567.4 VEL 11.471 PTH 1.99 VHP 3.411 DPA -19.04 RAP 150.70 ECC 1.1678

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 23 39	2344.17	-22.49	49.86	355.04	107.68	2 2 43	1744.2	-19.86	42.17
90.00	15 35 48	4431.70	7.45	184.98	352.51	62.60	16 49 40	3831.7	3.72	178.28
100.00	2 49 18	2067.90	-23.39	29.22	354.72	109.17	3 23 46	1467.9	-20.56	21.56
100.00	16 52 50	4183.20	8.28	166.26	352.06	61.18	18 2 33	3583.2	4.37	159.65
110.00	4 7 23	1823.57	-25.77	9.65	353.70	113.27	4 37 46	1223.6	-22.40	2.12
110.00	17 51 14	4000.29	10.48	151.05	350.73	57.28	18 57 55	3400.3	6.09	144.71

DIFFERENTIAL CORRECTIONS
TDE .0783 TRA -.4576 TC3-1.6253 BAU .3806
RDE -.1104 RRA -.2019 RC3-2.2694 FAU .16201
FDE -.0984 FRA-1.0139 FC-13.7538 BSP 5836
BDE .1353 BRA .5001 BC3 2.7913 FSP -2455

MID-COURSE EXECUTION ACCURACY
SGT 1337.0 SGR 1508.1 SG3 775.6
RRT .8834 RRF .9929 RTF .8851
SGB 2015.4 R23 .1924 R13 .9742
SG1 1956.7 SG2 482.8 THA 48.89

ORBIT DETERMINATION ACCURACY
ST 287.8 SR 230.7 SS 187.7
CRT .0144 CRS -.7294 CST -.6606
LSA 327.6 MSA 250.8 SSA 32.3
EL1 287.8 EL2 230.6 ALF 1.84

```
LAUNCH DATE  JUN 27 1967                          FLIGHT TIME 126.00                          ARRIVAL DATE  OCT 31 1967

 HELIOCENTRIC CONIC                                DISTANCE 353.719
  RL  152.07 LAL    .00 LOL 274.68 VL  27.068 GAL  -4.41 AZL  90.24 HCA 160.37 SMA 131.05 ECC .17745 INC  .2341 V1  29.296
  RP  107.80 LAP   -.08 LOP  75.05 VP  38.073 GAP    .24 AZP  89.78 TAL 201.24 TAP   1.61 RCA 107.79 APO 154.30 V2  35.154
  RC  92.232 GL   -2.02 GP  -36.15 ZAL 132.88 ZAP  95.76 ETS 356.37 ZAE 145.28 ETE 247.88 ZAC 112.34 ETC   2.24 CLP -97.14
 PLANETOCENTRIC CONIC
  C3   9.945 VHL  3.154 DLA  12.34 RAL 143.48 RAD 6567.4 VEL 11.460 PTH   1.99 VHP  3.570 DPA -21.90 RAP 147.30 ECC 1.1637
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     1  2 25   2454.22     -24.57     57.25     357.58     104.54    1 43 19    1854.2     -22.33      49.30
     90.00    16 11 33   4311.62       3.63    178.21     354.20      61.90   17 23 24    3711.6       -.15     171.58
    100.00     2 30  5   2171.49     -25.53     36.17     357.29     106.11    3  6 16    1571.5     -23.07      28.23
    100.00    17 26 34   4069.59       4.50    159.94     353.72      60.42   18 34 23    3469.6        .53     153.40
    110.00     3 52 36   1913.28     -28.05     15.63     356.36     110.39    4 24 29    1313.3     -25.01       7.77
    110.00    18 20 32   3900.55       6.76    145.72     352.32      56.41   19 25 33    3300.6       2.30     139.47
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TDE  .1298 TRA -.4640 TC3-2.0771 BAU  .4399      SGT 1586.4 SGR 1660.6 SG3  714.4      ST   352.4 SR   134.0 SS   192.5
  RDE -.0404 RRA -.1810 RC3-2.5757 FAU .14821      RRT  .9115 RRF  .9954 RTF  .9128      CRT  .2272 CRS -.3160 CST -.9582
  FDE  .2126 FRA -.7616 FC-12.9018 BSP   6763      SGB 2296.6 R23  .1861 R13  .9779      LSA  400.1 MSA  130.5 SSA   45.4
  BDE  .1360 BRA  .4980 BC3 3.3089 FSP  -2265      SGI 2245.3 SG2  482.5 THA  46.44      EL1  353.9 EL2  130.0 ALF   5.71

LAUNCH DATE  JUN 27 1967                          FLIGHT TIME 128.00                          ARRIVAL DATE  NOV  2 1967

 HELIOCENTRIC CONIC                                DISTANCE 360.032
  RL  152.07 LAL    .00 LOL 274.68 VL  27.056 GAL  -4.31 AZL  89.60 HCA 163.59 SMA 130.96 ECC .17746 INC  .3930 V1  29.296
  RP  107.77 LAP    .11 LOP  78.27 VP  38.074 GAP    .65 AZP  90.38 TAL 200.74 TAP   4.33 RCA 107.72 APO 154.20 V2  35.165
  RC  94.474 GL    3.41 GP  -40.89 ZAL 132.08 ZAP  99.36 ETS 352.57 ZAE 139.47 ETE 244.64 ZAC 113.96 ETC 359.11 CLP-102.43
 PLANETOCENTRIC CONIC
  C3   9.815 VHL  3.133 DLA  17.24 RAL 146.03 RAD 6567.4 VEL 11.454 PTH   1.99 VHP  3.826 DPA -25.63 RAP 143.65 ECC 1.1615
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00     0 27 54   2626.15     -26.97     69.26       1.65      98.98    1 11 40    2026.1     -25.45      60.92
     90.00    17  6 24   4134.47      -2.08    168.33     357.32      61.75   18 15 19    3534.5      -5.84     161.66
    100.00     1 59 11   2331.79     -28.07     47.39       1.44     100.73    2 38  3    1731.8     -26.30      39.04
    100.00    18 17 48   3904.06      -1.10    150.84     356.78      60.13   19 22 52    3304.1      -5.06     144.30
    110.00     3 29 18   2049.84     -30.91     25.23        .68     105.38    4  3 28    1449.8     -28.49      16.86
    110.00    19  4 11   3758.77       1.38    138.28     355.23      55.84   20  6 50    3158.8      -3.12     132.07
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TDE  .2305 TRA -.4471 TC3-2.5132 BAU  .5013      SGT 1841.3 SGR 1827.2 SG3  630.8      ST   495.9 SR   154.4 SS   351.9
  RDE  .0651 RRA -.1427 RC3-2.8770 FAU .12978      RRT  .9282 RRF  .9971 RTF  .9300      CRT  .9643 CRS -.9366 CST -.9559
  FDE  .5500 FRA -.4770 FC-11.4478 BSP   7748      SGB 2594.0 R23  .1785 R13  .9810      LSA  620.3 MSA   85.5 SSA   38.8
  BDE  .2396 BRA  .4693 BC3 3.8201 FSP  -2010      SGI 2547.0 SG2  491.4 THA  44.76      EL1  517.9 EL2   39.1 ALF  16.81

LAUNCH DATE  JUN 27 1967                          FLIGHT TIME 130.00                          ARRIVAL DATE  NOV  4 1967

 HELIOCENTRIC CONIC                                DISTANCE 366.320
  RL  152.07 LAL    .00 LOL 274.68 VL  27.040 GAL  -4.20 AZL  88.67 HCA 166.81 SMA 130.85 ECC .17758 INC 1.3267 V1  29.296
  RP  107.73 LAP    .30 LOP  81.50 VP  38.073 GAP   1.05 AZP  91.29 TAL 200.17 TAP   6.98 RCA 107.61 APO 154.09 V2  35.175
  RC  96.719 GL   11.37 GP  -46.91 ZAL 130.26 ZAP 101.95 ETS 347.94 ZAE 132.63 ETE 242.57 ZAC 114.99 ETC 355.19 CLP-107.64
 PLANETOCENTRIC CONIC
  C3  10.042 VHL  3.169 DLA  24.40 RAL 149.86 RAD 6567.4 VEL 11.464 PTH   1.99 VHP  4.247 DPA -30.60 RAP 139.46 ECC 1.1653
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     90.00    23 10 42   2952.69     -28.19     92.99       8.37      87.22   23 59 54    2352.7     -28.28      84.32
     90.00    18 50 15   3817.03     -12.00    150.28       3.99      64.16   19 53 52    3217.0     -15.38     143.23
    100.00     0 56 52   2623.06     -29.89     68.79       8.42      89.66    1 40 35    2023.1     -29.62      59.99
    100.00    19 50 42   3621.90     -10.48    135.16       3.20      61.85   20 51  4    3021.9     -14.17     128.30
    110.00     2 45 48   2282.23     -33.80     42.70       8.22      95.45    3 23 50    1682.2     -32.68      33.64
    110.00    20 18 15   3535.49      -7.12    126.58       1.17      56.48   21 17 10    2935.5     -11.48     120.20
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TDE  .4181 TRA -.3913 TC3-2.8426 BAU  .5618      SGT 2102.6 SGR 1997.3 SG3  520.9      ST   792.9 SR   432.1 SS   602.7
  RDE  .2356 RRA -.0716 RC3-3.0707 FAU .10605      RRT  .9379 RRF  .9981 RTF  .9409      CRT  .9782 CRS -.9988 CST -.9711
  FDE  .9017 FRA -.1651 FC3-9.1428 BSP   8735      SGB 2900.0 R23  .1716 R13  .9834      LSA 1078.4 MSA  124.5 SSA   12.8
  BDE  .4799 BRA  .3978 BC3 4.1844 FSP  -1663      SGI 2854.7 SG2  510.4 THA  43.43      EL1  899.5 EL2   79.2 ALF  28.30

LAUNCH DATE  JUN 27 1967                          FLIGHT TIME 132.00                          ARRIVAL DATE  NOV  6 1967

 HELIOCENTRIC CONIC                                DISTANCE 372.582
  RL  152.07 LAL    .00 LOL 274.68 VL  27.021 GAL  -4.08 AZL  87.15 HCA 170.03 SMA 130.72 ECC .17781 INC 2.8482 V1  29.296
  RP  107.70 LAP    .49 LOP  84.72 VP  38.069 GAP   1.44 AZP  92.81 TAL 199.52 TAP   9.55 RCA 107.48 APO 153.96 V2  35.185
  RC  98.967 GL   23.37 GP  -54.81 ZAL 126.12 ZAP 103.03 ETS 342.22 ZAE 124.27 ETE 241.11 ZAC 115.17 ETC 350.12 CLP-113.04
 PLANETOCENTRIC CONIC
  C3  11.406 VHL  3.377 DLA  35.08 RAL 156.34 RAD 6567.4 VEL 11.524 PTH   2.01 VHP  5.000 DPA -37.24 RAP 134.04 ECC 1.1877
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     68.37    18 47 13   3915.59     -27.58    164.95      18.31      67.40   19 52 28    3315.6     -30.39     156.80
    111.63     0  9 20   2905.99     -27.57     89.40      18.30      67.39    0 57 46    2306.0     -30.38      81.25
     68.37    18 47 13   3915.59     -27.58    164.95      18.31      67.40   19 52 28    3315.6     -30.39     156.80
    111.63     0  9 20   2905.99     -27.57     89.40      18.30      67.39    0 57 46    2306.0     -30.38      81.25
     68.37    18 47 13   3915.59     -27.58    164.95      18.31      67.40   19 52 28    3315.6     -30.39     156.80
    111.63     0  9 20   2905.99     -27.57     89.40      18.30      67.39    0 57 46    2306.0     -30.38      81.25
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
  TDE  .7813 TRA -.2612 TC3-2.8245 BAU  .6184      SGT 2385.3 SGR 2156.9 SG3  387.5      ST  1336.5 SR   882.6 SS   882.8
  RDE  .5186 RRA  .0589 RC3-2.9099 FAU .07773      RRT  .9426 RRF  .9986 RTF  .9488      CRT  .9864 CRS-1.0000 CST -.9865
  FDE 1.2014 FRA  .1367 FC3-5.9000 BSP   9763      SGB 3215.9 R23  .1646 R13  .9852      LSA 1822.6 MSA  150.0 SSA    5.2
  BDE  .9377 BRA  .2678 BC3 4.0553 FSP  -1251      SGI 3169.9 SG2  541.7 THA  41.95      EL1 1597.0 EL2  121.4 ALF  33.30
```

LAUNCH DATE JUN 27 1967 FLIGHT TIME 134.00 ARRIVAL DATE NOV 8 1967

DISTANCE 378.810

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 27.000 GAL -3.95 AZL 84.20 HCA 173.24 SMA 130.57 ECC .17812 INC 5.7988 V1 29.296
RP 107.67 LAP .68 LOP 87.95 VP 38.062 GAP 1.81 AZP 95.76 TAL 198.81 TAP 12.05 RCA 107.32 APO 153.83 V2 35.195
RC 101.218 GL 40.79 GP -65.50 ZAL 117.55 ZAP 101.95 ETS 334.62 ZAE 113.51 ETE 238.95 ZAC 114.11 ETC 342.86 CLP-119.96

PLANETOCENTRIC CONIC
C3 17.362 VHL 4.167 DLA 49.75 RAL 169.47 RAD 6567.7 VEL 11.779 PTH 2.08 VHP 6.601 DPA -46.03 RAP 125.52 ECC 1.2857

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
47.22	18 8 0	4260.61	-34.16	199.45	44.42	51.34	19 19 0	3660.6	-38.90	191.84
132.78	2 33 18	2745.78	-34.15	80.08	44.41	51.33	3 19 4	2145.8	-38.89	72.47
47.22	18 8 0	4260.61	-34.16	199.45	44.42	51.34	19 19 0	3660.6	-38.90	191.84
132.78	2 33 18	2745.78	-34.15	80.08	44.41	51.33	3 19 4	2145.8	-38.89	72.47
47.22	18 8 0	4260.61	-34.16	199.45	44.42	51.34	19 19 0	3660.6	-38.90	191.84
132.78	2 33 18	2745.78	-34.15	80.08	44.41	51.33	3 19 4	2145.8	-38.89	72.47

DIFFERENTIAL CORRECTIONS
TDE 1.5687 TRA .0603 TC3-2.0278 BAU .6494
RDE .9725 RRA .3304 RC3-1.9275 FAU .04604
FDE 1.3236 FRA .3959 FC3-2.2955 BSP 10643
BDE 1.8457 BRA .3358 BC3 2.7977 FSP -779

MID-COURSE EXECUTION ACCURACY
SGT 2743.2 SGR 2205.2 SG3 239.5
RRT .9405 RRF .9979 RTF .9558
SGB 3519.7 R23 .1604 R13 .9862
SG1 3469.4 SG2 592.4 THA 38.42

ORBIT DETERMINATION ACCURACY
ST 2158.0 SR 1354.7 SS 1048.5
CRT .9903 CRS -.9998 CST -.9928
LSA 2749.5 MSA 177.7 SSA 2.4
EL1 2543.0 EL2 159.3 ALF 32.01

LAUNCH DATE JUN 27 1967 FLIGHT TIME 136.00 ARRIVAL DATE NOV 10 1967

DISTANCE 384.966

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 26.977 GAL -3.80 AZL 76.04 HCA 176.40 SMA 130.41 ECC .17848 INC13.9598 V1 29.296
RP 107.65 LAP .87 LOP 91.19 VP 38.054 GAP 2.17 AZP 103.94 TAL 197.99 TAP 14.39 RCA 107.14 APO 153.69 V2 35.204
RC 103.470 GL 60.49 GP -80.20 ZAL 104.38 ZAP 98.00 ETS 315.61 ZAE 98.12 ETE 225.36 ZAC 111.52 ETC 323.14 CLP-144.85

PLANETOCENTRIC CONIC
C3 55.688 VHL 7.462 DLA 62.02 RAL 198.77 RAD 6569.0 VEL 13.306 PTH 2.43 VHP 11.422 DPA -56.66 RAP 106.64 ECC 1.9165

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
32.20	19 22 58	4635.86	-24.29	229.59	94.91	30.97	20 40 13	4035.9	-31.07	225.21
147.80	5 12 8	2946.45	-24.28	89.92	94.89	30.97	6 1 14	2346.4	-31.06	85.54
32.20	19 22 58	4635.86	-24.29	229.59	94.91	30.97	20 40 13	4035.9	-31.07	225.21
147.80	5 12 8	2946.45	-24.28	89.92	94.89	30.97	6 1 14	2346.4	-31.06	85.54
32.20	19 22 58	4635.86	-24.29	229.59	94.91	30.97	20 40 13	4035.9	-31.07	225.21
147.80	5 12 8	2946.45	-24.28	89.92	94.89	30.97	6 1 14	2346.4	-31.06	85.54

DIFFERENTIAL CORRECTIONS
TDE 3.3538 TRA 1.3199 TC3 -.5914 BAU .5139
RDE .6889 RRA .8144 RC3 -.3560 FAU .01572
FDE .9975 FRA .6082 FC3 -.2443 BSP 10728
BDE 3.4238 BRA 1.5509 BC3 .6903 FSP -346

MID-COURSE EXECUTION ACCURACY
SGT 3475.1 SGR 1529.4 SG3 113.0
RRT .8863 RRF .9628 RTF .9779
SGB 3796.8 R23 .1376 R13 .9901
SG1 3739.3 SG2 658.1 THA 22.03

ORBIT DETERMINATION ACCURACY
ST 2655.5 SR 663.3 SS 811.3
CRT .9207 CRS -.9622 CST -.9922
LSA 2842.5 MSA 264.8 SSA 1.0
EL1 2725.4 EL2 252.2 ALF 13.07

LAUNCH DATE JUN 27 1967 FLIGHT TIME 138.00 ARRIVAL DATE NOV 12 1967

DISTANCE 390.409

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 26.951 GAL -3.50 AZL 13.89 HCA 178.92 SMA 130.23 ECC .17816 INC76.0919 V1 29.296
RP 107.62 LAP 1.05 LOP 94.42 VP 38.043 GAP 2.32 AZP 166.10 TAL 196.55 TAP 15.46 RCA 107.03 APO 153.44 V2 35.212
RC 105.723 GL 48.76 GP -52.94 ZAL 92.83 ZAP 92.06 ETS 184.96 ZAE 55.32 ETE 98.93 ZAC 108.80 ETC 183.37 CLP 93.42

PLANETOCENTRIC CONIC
C31206.100 VHL 34.729 DLA 43.48 RAL 204.71 RAD 6573.1 VEL 36.433 PTH 3.53 VHP 46.814 DPA -46.38 RAP 37.11 ECC20.8494

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.51	20 58 26	4894.47	.65	225.06	115.40	46.53	22 20 0	4294.5	-4.85	219.66
124.49	4 24 1	3531.07	.66	120.03	115.39	46.53	5 22 52	2931.1	-4.84	114.63
55.51	20 58 26	4894.47	.65	225.06	115.40	46.53	22 20 0	4294.5	-4.85	219.66
124.49	4 24 1	3531.07	.66	120.03	115.39	46.53	5 22 52	2931.1	-4.84	114.63
55.51	20 58 26	4894.47	.65	225.06	115.40	46.53	22 20 0	4294.5	-4.85	219.66
124.49	4 24 1	3531.07	.66	120.03	115.39	46.53	5 22 52	2931.1	-4.84	114.63

DIFFERENTIAL CORRECTIONS
TDE-4.9182 TRA-1.4418 TC3 -.0901 BAU 3.8325
RDE-7.8327 RR-10.2166 RC3 -.2199 FAU-.06419
FDE 1.5468 FRA 2.2089 FC3 .0461 BSP 4195
BDE 9.2488 BRA10.3179 BC3 .2377 FSP -80

MID-COURSE EXECUTION ACCURACY
SGT 1076.0 SGR 3065.8 SG3 56.0
RRT .8386 RRF -.9995 RTF -.8206
SGB 3249.1 R23 -.0855 R13 -.9963
SG1 3200.2 SG2 561.5 THA 73.06

ORBIT DETERMINATION ACCURACY
ST 817.6 SR 1468.9 SS 1199.3
CRT .9309 CRS .9992 CST .9161
LSA 2044.5 MSA 290.1 SSA .5
EL1 1660.2 EL2 264.2 ALF 61.83

LAUNCH DATE JUN 27 1967 FLIGHT TIME 140.00 ARRIVAL DATE NOV 14 1967

DISTANCE 397.751

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 26.924 GAL -3.56 AZL 112.52 HCA 183.22 SMA 130.05 ECC .18012 INC22.5164 V1 29.296
RP 107.60 LAP 1.23 LOP 97.66 VP 38.031 GAP 2.99 AZP 67.51 TAL 196.63 TAP 19.85 RCA 106.62 APO 153.47 V2 35.220
RC 107.975 GL -65.00 GP 80.04 ZAL 98.82 ZAP 99.55 ETS 92.32 ZAE 91.36 ETE 179.22 ZAC 84.55 ETC 81.08 CLP-163.66

PLANETOCENTRIC CONIC
C3 128.944 VHL 11.355 DLA -51.58 RAL 130.69 RAD 6570.4 VEL 15.820 PTH 2.80 VHP 12.759 DPA 74.83 RAP 267.03 ECC 3.1221

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
44.90	3 27 48	2109.54	11.68	55.91	31.24	140.61	4 2 58	1509.5	17.80	51.00
135.10	12 4 6	5847.95	11.69	270.88	31.25	140.61	13 41 34	5248.0	17.82	265.97
44.90	3 27 48	2109.54	11.68	55.91	31.24	140.61	4 2 58	1509.5	17.80	51.00
135.10	12 4 6	5847.95	11.69	270.88	31.25	140.61	13 41 34	5248.0	17.82	265.97
44.90	3 27 48	2109.54	11.68	55.91	31.24	140.61	4 2 58	1509.5	17.80	51.00
135.10	12 4 6	5847.95	11.69	270.88	31.25	140.61	13 41 34	5248.0	17.82	265.97

DIFFERENTIAL CORRECTIONS
TDE-6.1314 TRA-2.3975 TC3 -.1158 BAU .2009
RDE-1.4706 RRA-1.4342 RC3 -.0127 FAU .00775
FDE-2.1410 FRA -.7150 FC3 -.0521 BSP 11348
BDE 6.3053 BRA 2.7937 BC3 .1165 FSP -314

MID-COURSE EXECUTION ACCURACY
SGT 3664.7 SGR 1381.1 SG3 106.4
RRT .9029 RRF .8704 RTF .9974
SGB 3916.3 R23 -.1205 R13 .9926
SG1 3875.9 SG2 561.2 THA 19.21

ORBIT DETERMINATION ACCURACY
ST 3148.4 SR 820.1 SS 1206.2
CRT .9681 CRS -.9610 CST -.9996
LSA 3463.8 MSA 205.0 SSA .8
EL1 3247.3 EL2 199.4 ALF 14.21

LAUNCH DATE JUN 27 1967 FLIGHT TIME 142.00 ARRIVAL DATE NOV 16 1967

HELIOCENTRIC CONIC DISTANCE 403.834

RL 152.07 LAL .00 LOL 274.68 VL 26.895 GAL -3.38 AZL 102.81 HCA 186.37 SMA 129.85 ECC .18076 INC12.8087 V1 29.296
RP 107.58 LAP 1.41 LOP 100.89 VP 38.017 GAP 3.32 AZP 77.27 TAL 195.64 TAP 22.01 RCA 106.37 APO 153.32 V2 35.227
RC 110.226 GL -59.35 GP 63.34 ZAL 103.81 ZAP 109.05 ETS 46.65 ZAE 107.68 ETE 138.04 ZAC 90.30 ETC 37.13 CLP-136.67

PLANETOCENTRIC CONIC

C3 47.868 VHL 6.919 DLA -45.18 RAL 131.65 RAD 6568.8 VEL 13.009 PTH 2.37 VHP 7.114 DPA 70.10 RAP 203.53 ECC 1.7878

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
53.20	3 59 52	1815.17	20.97	37.11	19.24	130.98	4 30 7	1215.2	26.08	30.81
126.80	11 39 42	5691.97	20.98	265.65	19.26	130.98	13 14 34	5092.0	26.09	259.35
53.20	3 59 52	1815.17	20.97	37.11	19.24	130.98	4 30 7	1215.2	26.08	30.81
126.80	11 39 42	5691.97	20.98	265.65	19.26	130.98	13 14 34	5092.0	26.09	259.35
53.20	3 59 52	1815.17	20.97	37.11	19.24	130.98	4 30 7	1215.2	26.08	30.81
126.80	11 39 42	5691.97	20.98	265.65	19.26	130.98	13 14 34	5092.0	26.09	259.35

DIFFERENTIAL CORRECTIONS
TOE-3.1398 TRA-1.9378 TC3 -.8268 BAU .5736
RDE 1.7313 RRA .3881 RC3 .3460 FAU .03661
FDE-2.6472 FRA -.9551 FC3 -.6621 BSP 12253
BDE 3.5855 BRA 1.9763 BC3 .8963 FSP -719

MID-COURSE EXECUTION ACCURACY
SGT 3640.3 SGR 1578.9 SG3 227.0
RRT -.9245 RRF -.9867 RTF .9725
SGB 3968.0 R23 .1728 R13 -.9843
SG1 3928.6 SG2 557.6 THA 157.68

ORBIT DETERMINATION ACCURACY
ST 2688.6 SR 1440.3 SS 1363.4
CRT -.9869 CRS .9984 CST -.9945
LSA 3333.6 MSA 222.0 SSA 1.6
EL1 3043.2 EL2 204.9 ALF 152.00

LAUNCH DATE JUN 27 1967 FLIGHT TIME 144.00 ARRIVAL DATE NOV 18 1967

HELIOCENTRIC CONIC DISTANCE 409.964

RL 152.07 LAL .00 LOL 274.68 VL 26.864 GAL -3.19 AZL 99.55 HCA 189.58 SMA 129.63 ECC .18157 INC 9.5450 V1 29.296
RP 107.56 LAP 1.58 LOP 104.13 VP 38.001 GAP 3.66 AZP 80.59 TAL 194.67 TAP 24.25 RCA 106.10 APO 153.17 V2 35.233
RC 112.475 GL -53.87 GP 50.21 ZAL 106.49 ZAP 117.38 ETS 40.21 ZAE 117.76 ETE 138.77 ZAC 95.41 ETC 31.73 CLP-135.93

PLANETOCENTRIC CONIC

C3 30.324 VHL 5.507 DLA -40.19 RAL 134.79 RAD 6568.2 VEL 12.317 PTH 2.22 VHP 5.511 DPA 60.04 RAP 182.35 ECC 1.4990

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.20	4 41 21	1621.70	23.48	22.10	13.82	123.60	5 8 23	1021.7	27.72	14.99
119.80	11 23 18	5655.35	23.49	264.49	13.84	123.59	12 57 34	5055.3	27.74	257.38
60.20	4 41 21	1621.70	23.48	22.10	13.82	123.60	5 8 23	1021.7	27.72	14.99
119.80	11 23 18	5655.35	23.49	264.49	13.84	123.59	12 57 34	5055.3	27.74	257.38
60.20	4 41 21	1621.70	23.48	22.10	13.82	123.60	5 8 23	1021.7	27.72	14.99
119.80	11 23 18	5655.35	23.49	264.49	13.84	123.59	12 57 34	5055.3	27.74	257.38

DIFFERENTIAL CORRECTIONS
TOE-2.3918 TRA-1.5858 TC3-1.4875 BAU .6453
RDE 1.2094 RRA .3018 RC3 .5666 FAU .06073
FDE-3.0427 FRA-1.0485 FC3-1.7337 BSP 12199
BDE 2.6801 BRA 1.6143 BC3 1.5918 FSP -1090

MID-COURSE EXECUTION ACCURACY
SGT 3680.0 SGR 1463.5 SG3 342.4
RRT -.9361 RRF -.9935 RTF .9661
SGB 3960.3 R23 .2080 R13 -.9768
SG1 3930.9 SG2 481.7 THA 159.25

ORBIT DETERMINATION ACCURACY
ST 2572.0 SR 1264.5 SS 1521.4
CRT -.9877 CRS .9993 CST -.9928
LSA 3237.7 MSA 214.9 SSA 2.3
EL1 2860.5 EL2 177.8 ALF 153.99

LAUNCH DATE JUN 27 1967 FLIGHT TIME 146.00 ARRIVAL DATE NOV 20 1967

HELIOCENTRIC CONIC DISTANCE 416.091

RL 152.07 LAL .00 LOL 274.68 VL 26.831 GAL -3.00 AZL 97.91 HCA 192.81 SMA 129.42 ECC .18250 INC 7.9124 V1 29.296
RP 107.54 LAP 1.75 LOP 107.37 VP 37.984 GAP 4.00 AZP 82.28 TAL 193.67 TAP 26.48 RCA 105.80 APO 153.03 V2 35.239
RC 114.720 GL -49.73 GP 40.44 ZAL 107.72 ZAP 124.11 ETS 36.59 ZAE 124.04 ETE 143.31 ZAC 99.06 ETC 28.91 CLP-137.47

PLANETOCENTRIC CONIC

C3 23.370 VHL 4.834 DLA -36.72 RAL 137.73 RAD 6567.9 VEL 12.031 PTH 2.15 VHP 4.896 DPA 51.41 RAP 173.90 ECC 1.3846

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.58	5 19 30	1480.92	23.83	10.69	11.40	118.80	5 44 11	880.9	27.48	3.21
114.42	11 8 39	5666.99	23.85	265.69	11.40	118.79	12 43 6	5067.0	27.50	258.20
65.58	5 19 30	1480.92	23.83	10.69	11.40	118.80	5 44 11	880.9	27.48	3.21
114.42	11 8 39	5666.99	23.85	265.69	11.40	118.79	12 43 6	5067.0	27.50	258.20
65.58	5 19 30	1480.92	23.83	10.69	11.40	118.80	5 44 11	880.9	27.48	3.21
114.42	11 8 39	5666.99	23.85	265.69	11.40	118.79	12 43 6	5067.0	27.50	258.20

DIFFERENTIAL CORRECTIONS
TOE-2.1015 TRA-1.4177 TC3-2.1097 BAU .6882
RDE .8711 RRA .2072 RC3 .6336 FAU .07813
FDE-3.1800 FRA-1.0287 FC3-2.8945 BSP 12721
BDE 2.2749 BRA 1.4328 BC3 2.2028 FSP -1406

MID-COURSE EXECUTION ACCURACY
SGT 3841.7 SGR 1238.9 SG3 426.4
RRT -.9377 RRF -.9931 RTF .9645
SGB 4036.5 R23 .2248 R13 -.9720
SG1 4015.4 SG2 411.7 THA 162.99

ORBIT DETERMINATION ACCURACY
ST 2569.6 SR 1036.6 SS 1606.3
CRT -.9875 CRS .9995 CST -.9920
LSA 3195.9 MSA 210.4 SSA 3.2
EL1 2766.7 EL2 152.1 ALF 158.21

LAUNCH DATE JUN 27 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 22 1967

HELIOCENTRIC CONIC DISTANCE 422.211

RL 152.07 LAL .00 LOL 274.68 VL 26.798 GAL -2.80 AZL 96.93 HCA 196.05 SMA 129.19 ECC .18353 INC 6.9287 V1 29.296
RP 107.52 LAP 1.91 LOP 110.62 VP 37.964 GAP 4.34 AZP 83.34 TAL 192.62 TAP 28.67 RCA 105.48 APO 152.90 V2 35.244
RC 116.961 GL -46.61 GP 33.22 ZAL 108.02 ZAP 129.48 ETS 33.75 ZAE 127.77 ETE 148.34 ZAC 101.41 ETC 26.68 CLP-139.46

PLANETOCENTRIC CONIC

C3 19.746 VHL 4.444 DLA -34.33 RAL 140.44 RAD 6567.8 VEL 11.880 PTH 2.11 VHP 4.646 DPA 44.65 RAP 169.81 ECC 1.3250

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.73	5 53 35	1370.44	23.62	1.80	10.58	115.66	6 16 26	770.4	26.88	354.13
110.27	10 56 6	5696.29	23.64	267.89	10.59	115.65	12 31 3	5096.3	26.89	260.23
69.73	5 53 35	1370.44	23.62	1.80	10.58	115.66	6 16 26	770.4	26.88	354.13
110.27	10 56 6	5696.29	23.64	267.89	10.59	115.65	12 31 3	5096.3	26.89	260.23
69.73	5 53 35	1370.44	23.62	1.80	10.58	115.66	6 16 26	770.4	26.88	354.13
110.27	10 56 6	5696.29	23.64	267.89	10.59	115.65	12 31 3	5096.3	26.89	260.23

DIFFERENTIAL CORRECTIONS
TOE-1.9162 TRA-1.2617 TC3-2.5820 BAU .6978
RDE .6364 RRA .1196 RC3 .5652 FAU .08344
FDE-3.0386 FRA -.8293 FC3-3.6584 BSP 12156
BDE 2.0192 BRA 1.2674 BC3 2.6431 FSP -1409

MID-COURSE EXECUTION ACCURACY
SGT 3905.3 SGR 980.1 SG3 453.9
RRT -.9270 RRF -.9886 RTF .9598
SGB 4026.4 R23 .2433 R13 -.9651
SG1 4010.4 SG2 358.0 THA 166.80

ORBIT DETERMINATION ACCURACY
ST 2541.4 SR 822.7 SS 1580.9
CRT -.9861 CRS .9995 CST -.9908
LSA 3096.9 MSA 208.9 SSA 4.1
EL1 2668.0 EL2 130.1 ALF 162.25

LAUNCH DATE JUN 27 1967 FLIGHT TIME 150.00 ARRIVAL DATE NOV 24 1967

DISTANCE 428.313

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 26.763 GAL -2.59 AZL 96.27 HCA 199.29 SMA 128.96 ECC .18468 INC 6.2683 V1 29.296
RP 107.51 LAP 2.07 LOP 113.86 VP 37.944 GAP 4.67 AZP 84.08 TAL 191.55 TAP 30.84 RCA 105.14 APO 152.77 V2 35.248
RC 119.197 GL -44.18 GP 27.80 ZAL 107.71 ZAP 133.84 ETS 31.38 ZAE 129.88 ETE 152.98 ZAC 102.76 ETC 24.80 CLP-141.54

PLANETOCENTRIC CONIC
C3 17.545 VHL 4.189 DLA -32.68 RAL 142.99 RAD 6567.7 VEL 11.787 PTH 2.08 VHP 4.562 DPA 39.37 RAP 167.70 ECC 1.2887

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.97	6 23 54	1280.80	23.33	354.71	10.72	113.56	6 45 15	680.8	26.31	346.94
107.03	10 46 8	5730.42	23.34	270.39	10.73	113.55	12 21 38	5130.4	26.32	262.62
72.97	6 23 54	1280.80	23.33	354.71	10.72	113.56	6 45 15	680.8	26.31	346.94
107.03	10 46 8	5730.42	23.34	270.39	10.73	113.55	12 21 38	5130.4	26.32	262.62
110.00	9 48 2	621.61	16.88	302.82	7.25	120.17	9 58 23	21.6	20.76	295.84
110.00	12 21 11	5437.61	30.12	250.58	13.53	106.99	13 51 49	4837.6	32.14	241.96

DIFFERENTIAL CORRECTIONS
TDE-1.8378 TRA-1.1675 TC3-3.0658 BAU .7284
RDE .5002 RRA .0774 RC3 .4952 FAU .08726
FDE-2.9028 FRA -.6823 FC3-4.3058 BSP 12678
BDE 1.9046 BRA 1.1700 BC3 3.1056 FSP -1499

MID-COURSE EXECUTION ACCURACY
SGT 4063.9 SGR 809.9 SG3 473.3
RRT -.9187 RRF -.9810 RTF .9590
SGB 4143.8 R23 .2395 R13 -.9625
SG1 4131.8 SG2 314.6 THA 169.56

ORBIT DETERMINATION ACCURACY
ST 2578.6 SR 685.3 SS 1571.3
CRT -.9859 CRS .9996 CST -.9903
LSA 3089.6 MSA 205.6 SSA 5.1
EL1 2665.8 EL2 110.8 ALF 165.29

LAUNCH DATE JUN 27 1967 FLIGHT TIME 152.00 ARRIVAL DATE NOV 26 1967

DISTANCE 434.399

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 26.727 GAL -2.36 AZL 95.79 HCA 202.53 SMA 128.72 ECC .18593 INC 5.7917 V1 29.296
RP 107.50 LAP 2.22 LOP 117.11 VP 37.922 GAP 5.00 AZP 84.65 TAL 190.45 TAP 32.97 RCA 104.78 APO 152.65 V2 35.252
RC 121.426 GL -42.24 GP 23.67 ZAL 106.94 ZAP 137.48 ETS 29.40 ZAE 130.98 ETE 156.97 ZAC 103.39 ETC 23.18 CLP-143.59

PLANETOCENTRIC CONIC
C3 16.070 VHL 4.009 DLA -31.55 RAL 145.47 RAD 6567.6 VEL 11.724 PTH 2.07 VHP 4.564 DPA 35.17 RAP 166.69 ECC 1.2645

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.46	6 50 31	1208.55	23.09	349.10	11.48	112.12	7 10 40	608.6	25.89	341.27
104.54	10 39 21	5762.33	23.10	272.71	11.48	112.11	12 15 24	5162.3	25.90	264.89
75.46	6 50 31	1208.55	23.09	349.10	11.48	112.12	7 10 40	608.6	25.89	341.27
104.54	10 39 21	5762.33	23.10	272.71	11.48	112.11	12 15 24	5162.3	25.90	264.89
110.00	9 33 39	679.00	14.89	306.07	7.14	121.13	9 44 58	79.0	18.90	299.26
110.00	12 55 24	5339.88	31.85	243.50	14.61	103.13	14 24 24	4739.9	33.32	234.58

DIFFERENTIAL CORRECTIONS
TDE-1.7948 TRA-1.0774 TC3-3.4940 BAU .7557
RDE .4084 RRA .0490 RC3 .4083 FAU .08731
FDE-2.7339 FRA -.5192 FC3-4.7036 BSP 13100
BDE 1.8407 BRA 1.0785 BC3 3.5178 FSP -1516

MID-COURSE EXECUTION ACCURACY
SGT 4206.4 SGR 674.3 SG3 475.2
RRT -.9037 RRF -.9673 RTF .9580
SGB 4260.1 R23 .2278 R13 -.9602
SG1 4250.5 SG2 285.7 THA 171.72

ORBIT DETERMINATION ACCURACY
ST 2623.3 SR 584.3 SS 1545.0
CRT -.9861 CRS .9996 CST -.9900
LSA 3093.4 MSA 202.3 SSA 6.1
EL1 2685.9 EL2 94.7 ALF 167.60

LAUNCH DATE JUN 27 1967 FLIGHT TIME 154.00 ARRIVAL DATE NOV 28 1967

DISTANCE 440.469

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 26.691 GAL -2.13 AZL 95.43 HCA 205.77 SMA 128.47 ECC .18730 INC 5.4296 V1 29.296
RP 107.49 LAP 2.36 LOP 120.35 VP 37.899 GAP 5.33 AZP 85.11 TAL 189.31 TAP 35.08 RCA 104.41 APO 152.53 V2 35.255
RC 123.648 GL -40.64 GP 20.45 ZAL 105.84 ZAP 140.60 ETS 27.74 ZAE 131.48 ETE 160.28 ZAC 103.47 ETC 21.78 CLP-145.56

PLANETOCENTRIC CONIC
C3 15.017 VHL 3.875 DLA -30.81 RAL 147.95 RAD 6567.6 VEL 11.679 PTH 2.05 VHP 4.615 DPA 31.75 RAP 166.38 ECC 1.2471

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.31	7 13 27	1152.22	22.96	344.79	12.69	111.14	7 32 39	552.2	25.62	336.93
102.69	10 36 13	5788.09	22.97	274.60	12.69	111.13	12 12 41	5188.1	25.63	266.73
77.31	7 13 27	1152.22	22.96	344.79	12.69	111.14	7 32 39	552.2	25.62	336.93
102.69	10 36 13	5788.09	22.97	274.60	12.69	111.13	12 12 41	5188.1	25.63	266.73
110.00	9 30 27	706.34	13.92	307.60	7.98	121.54	9 42 14	106.3	17.99	300.85
110.00	13 18 23	5281.96	32.66	239.18	15.81	100.69	14 46 25	4682.0	33.79	230.12

DIFFERENTIAL CORRECTIONS
TDE-1.7746 TRA -.9873 TC3-3.8776 BAU .7811
RDE .3453 RRA .0308 RC3 .3202 FAU .08521
FDE-2.5601 FRA -.3573 FC3-4.9123 BSP 13484
BDE 1.8079 BRA .9878 BC3 3.8908 FSP -1494

MID-COURSE EXECUTION ACCURACY
SGT 4336.5 SGR 570.2 SG3 466.9
RRT -.8799 RRF -.9445 RTF .9567
SGB 4373.8 R23 .2093 R13 -.9582
SG1 4365.5 SG2 269.1 THA 173.38

ORBIT DETERMINATION ACCURACY
ST 2674.4 SR 510.9 SS 1511.8
CRT -.9869 CRS .9997 CST -.9898
LSA 3108.0 MSA 198.7 SSA 7.2
EL1 2721.6 EL2 80.9 ALF 169.31

LAUNCH DATE JUN 27 1967 FLIGHT TIME 156.00 ARRIVAL DATE NOV 30 1967

DISTANCE 446.522

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 26.653 GAL -1.88 AZL 95.14 HCA 209.02 SMA 128.22 ECC .18878 INC 5.1435 V1 29.296
RP 107.48 LAP 2.49 LOP 123.60 VP 37.875 GAP 5.66 AZP 85.50 TAL 188.14 TAP 37.16 RCA 104.02 APO 152.43 V2 35.257
RC 125.861 GL -39.27 GP 17.90 ZAL 104.46 ZAP 143.32 ETS 26.35 ZAE 131.62 ETE 163.02 ZAC 103.15 ETC 20.56 CLP-147.43

PLANETOCENTRIC CONIC
C3 14.236 VHL 3.773 DLA -30.36 RAL 150.47 RAD 6567.6 VEL 11.646 PTH 2.04 VHP 4.696 DPA 28.90 RAP 166.55 ECC 1.2343

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.56	7 32 36	1111.41	22.92	341.72	14.24	110.48	7 51 7	511.4	25.50	333.83
101.44	10 37 7	5805.15	22.93	275.86	14.25	110.46	12 13 52	5205.1	25.51	267.97
78.56	7 32 36	1111.41	22.92	341.72	14.24	110.48	7 51 7	511.4	25.50	333.83
101.44	10 37 7	5805.15	22.93	275.86	14.25	110.46	12 13 52	5205.1	25.51	267.97
110.00	9 33 12	718.46	13.49	308.27	9.39	121.71	9 45 11	118.5	17.59	301.56
110.00	13 35 41	5246.10	33.08	236.46	17.28	99.14	15 3 7	4646.1	33.99	227.34

DIFFERENTIAL CORRECTIONS
TDE-1.7721 TRA -.8957 TC3-4.2264 BAU .8057
RDE .3018 RRA .0200 RC3 .2380 FAU .08202
FDE-2.3983 FRA -.2063 FC3-4.9879 BSP 13853
BDE 1.7976 BRA .8959 BC3 4.2331 FSP -1452

MID-COURSE EXECUTION ACCURACY
SGT 4460.7 SGR 493.5 SG3 453.6
RRT -.8456 RRF -.9101 RTF .9555
SGB 4488.0 R23 .1860 R13 -.9566
SG1 4480.3 SG2 262.3 THA 174.64

ORBIT DETERMINATION ACCURACY
ST 2733.9 SR 458.5 SS 1479.1
CRT -.9884 CRS .9998 CST -.9896
LSA 3136.0 MSA 194.7 SSA 8.3
EL1 2771.3 EL2 68.8 ALF 170.58

LAUNCH DATE JUN 27 1967 FLIGHT TIME 158.00 ARRIVAL DATE DEC 2 1967

HELIOCENTRIC CONIC DISTANCE 452.557

RL 152.07 LAL .00 LOL 274.68 VL 26.615 GAL -1.63 AZL 94.91 HCA 212.26 SMA 127.97 ECC .19038 INC 4.9105 V1 29.296
RP 107.48 LAP 2.62 LOP 126.85 VP 37.849 GAP 5.99 AZP 85.84 TAL 186.94 TAP 39.21 RCA 103.61 APO 152.33 V2 35.258
RC 128.066 GL -38.06 GP 15.85 ZAL 102.85 ZAP 145.74 ETS 25.18 ZAE 131.55 ETE 165.26 ZAC 102.52 ETC 19.49 CLP-149.22

PLANETOCENTRIC CONIC

C3 13.644 VHL 3.694 DLA -30.13 RAL 153.04 RAD 6567.5 VEL 11.620 PTH 2.04 VHP 4.797 DPA 26.46 RAP 167.06 ECC 1.2246

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.25	7 48 3	1085.60	22.97	339.81	16.10	110.05	8 6 8	485.6	25.49	331.90
100.75	10 42 12	5812.31	22.98	276.41	16.11	110.04	12 19 4	5212.3	25.50	268.50
79.25	7 48 3	1085.60	22.97	339.81	16.10	110.05	8 6 8	485.6	25.49	331.90
100.75	10 42 12	5812.31	22.98	276.41	16.11	110.04	12 19 4	5212.3	25.50	268.50
110.00	9 39 52	721.06	13.40	308.42	11.22	121.75	9 51 54	121.1	17.50	301.71
110.00	13 49 32	5224.85	33.30	234.84	19.05	98.20	15 16 37	4624.9	34.08	225.69

DIFFERENTIAL CORRECTIONS
TDE-1.7837 TRA -.8008 TC3-4.5469 BAU .8300
RDE .2718 RRA .0142 RC3 .1647 FAU .07839
FDE-2.2534 FRA -.0684 FC3-4.9737 BSP 14236
BDE 1.8043 BRA .8010 BC3 4.5499 FSP -1405

MID-COURSE EXECUTION ACCURACY
SGT 4582.7 SGR 439.5 SG3 438.3
RRT -.8002 RRF -.8629 RTF .9545
SGB 4603.7 R23 .1610 R13 -.9552
SG1 4596.2 SG2 262.8 THA 175.60

ORBIT DETERMINATION ACCURACY
ST 2801.9 SR 421.6 SS 1449.6
CRT -.9903 CRS .9997 CST -.9897
LSA 3177.0 MSA 190.3 SSA 9.4
EL1 2832.9 EL2 57.8 ALF 171.52

LAUNCH DATE JUN 27 1967 FLIGHT TIME 160.00 ARRIVAL DATE DEC 4 1967

HELIOCENTRIC CONIC DISTANCE 458.574

RL 152.07 LAL .00 LOL 274.68 VL 26.576 GAL -1.36 AZL 94.72 HCA 215.51 SMA 127.72 ECC .19210 INC 4.7159 V1 29.296
RP 107.48 LAP 2.74 LOP 130.10 VP 37.822 GAP 6.31 AZP 86.16 TAL 185.72 TAP 41.23 RCA 103.18 APO 152.25 V2 35.259
RC 130.261 GL -36.97 GP 14.17 ZAL 101.04 ZAP 147.93 ETS 24.20 ZAE 131.36 ETE 167.11 ZAC 101.63 ETC 18.55 CLP-150.92

PLANETOCENTRIC CONIC

C3 13.195 VHL 3.632 DLA -30.06 RAL 155.69 RAD 6567.5 VEL 11.601 PTH 2.03 VHP 4.913 DPA 24.32 RAP 167.82 ECC 1.2172

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.46	8 0 10	1073.38	23.09	338.95	18.23	109.80	8 18 3	473.4	25.58	331.02
100.54	10 51 13	5809.96	23.10	276.28	18.23	109.79	12 28 3	5210.0	25.59	268.35
79.46	8 0 10	1073.38	23.09	338.95	18.23	109.80	8 18 3	473.4	25.58	331.02
100.54	10 51 13	5809.96	23.10	276.28	18.23	109.79	12 28 3	5210.0	25.59	268.35
110.00	9 49 26	717.12	13.54	308.20	13.38	121.69	10 1 24	117.1	17.63	301.48
110.00	14 1 7	5214.22	33.40	234.03	21.09	97.73	15 28 1	4614.2	34.11	224.86

DIFFERENTIAL CORRECTIONS
TDE-1.8028 TRA -.6988 TC3-4.8293 BAU .8521
RDE .2506 RRA .0116 RC3 .0993 FAU .07434
FDE-2.1188 FRA .0603 FC3-4.8773 BSP 14571
BDE 1.8201 BRA .6989 BC3 4.8304 FSP -1348

MID-COURSE EXECUTION ACCURACY
SGT 4692.3 SGR 402.4 SG3 420.9
RRT -.7437 RRF -.8031 RTF .9534
SGB 4709.5 R23 .1372 R13 -.9539
SG1 4701.8 SG2 268.4 THA 176.34

ORBIT DETERMINATION ACCURACY
ST 2871.1 SR 395.3 SS 1419.3
CRT -.9926 CRS .9993 CST -.9897
LSA 3221.7 MSA 185.6 SSA 10.5
EL1 2897.8 EL2 47.5 ALF 172.22

LAUNCH DATE JUN 27 1967 FLIGHT TIME 162.00 ARRIVAL DATE DEC 6 1967

HELIOCENTRIC CONIC DISTANCE 464.573

RL 152.07 LAL .00 LOL 274.68 VL 26.537 GAL -1.07 AZL 94.55 HCA 218.75 SMA 127.46 ECC .19396 INC 4.5500 V1 29.296
RP 107.48 LAP 2.85 LOP 133.35 VP 37.795 GAP 6.64 AZP 86.45 TAL 184.48 TAP 43.23 RCA 102.74 APO 152.18 V2 35.259
RC 132.447 GL -35.94 GP 12.78 ZAL 99.06 ZAP 149.93 ETS 23.39 ZAE 131.10 ETE 168.64 ZAC 100.55 ETC 17.71 CLP-152.54

PLANETOCENTRIC CONIC

C3 12.859 VHL 3.586 DLA -30.12 RAL 158.43 RAD 6567.5 VEL 11.586 PTH 2.03 VHP 5.039 DPA 22.40 RAP 168.80 ECC 1.2116

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.27	8 9 41	1072.34	23.26	338.94	20.60	109.70	8 27 33	472.3	25.73	330.99
100.73	11 3 34	5799.89	23.28	275.60	20.60	109.68	12 40 14	5199.9	25.75	267.65
79.27	8 9 41	1072.34	23.26	338.94	20.60	109.70	8 27 33	472.3	25.73	330.99
100.73	11 3 34	5799.89	23.28	275.60	20.60	109.68	12 40 14	5199.9	25.75	267.65
110.00	10 1 17	708.53	13.84	307.72	15.84	121.57	10 13 6	108.5	17.92	300.98
110.00	14 11 8	5211.70	33.42	233.84	23.40	97.62	15 38 0	4611.7	34.12	224.66

DIFFERENTIAL CORRECTIONS
TDE-1.8307 TRA -.5917 TC3-5.0823 BAU .8737
RDE .2363 RRA .0116 RC3 .0427 FAU .07026
FDE-1.9986 FRA .1759 FC3-4.7302 BSP 14925
BDE 1.8459 BRA .5918 BC3 5.0825 FSP -1295

MID-COURSE EXECUTION ACCURACY
SGT 4799.6 SGR 379.4 SG3 403.5
RRT -.6807 RRF -.7352 RTF .9525
SGB 4814.6 R23 .1156 R13 -.9529
SG1 4806.6 SG2 277.5 THA 176.91

ORBIT DETERMINATION ACCURACY
ST 2945.4 SR 377.6 SS 1391.5
CRT -.9949 CRS .9984 CST -.9899
LSA 3274.4 MSA 180.5 SSA 11.6
EL1 2969.2 EL2 37.7 ALF 172.73

LAUNCH DATE JUN 27 1967 FLIGHT TIME 164.00 ARRIVAL DATE DEC 8 1967

HELIOCENTRIC CONIC DISTANCE 470.554

RL 152.07 LAL .00 LOL 274.68 VL 26.497 GAL -.78 AZL 94.41 HCA 222.00 SMA 127.20 ECC .19596 INC 4.4060 V1 29.296
RP 107.48 LAP 2.95 LOP 136.60 VP 37.766 GAP 6.97 AZP 86.72 TAL 183.21 TAP 45.21 RCA 102.28 APO 152.13 V2 35.258
RC 134.624 GL -34.95 GP 11.61 ZAL 96.92 ZAP 151.77 ETS 22.73 ZAE 130.81 ETE 169.91 ZAC 99.30 ETC 16.96 CLP-154.09

PLANETOCENTRIC CONIC

C3 12.621 VHL 3.553 DLA -30.28 RAL 161.27 RAD 6567.5 VEL 11.576 PTH 2.02 VHP 5.173 DPA 20.66 RAP 169.93 ECC 1.2077

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.80	8 17 30	1079.49	23.47	339.55	23.20	109.70	8 35 29	479.5	25.94	331.59
101.20	11 18 24	5784.73	23.48	274.55	23.21	109.68	12 54 48	5184.7	25.95	266.59
78.80	8 17 30	1079.49	23.47	339.55	23.20	109.70	8 35 29	479.5	25.94	331.59
101.20	11 18 24	5784.73	23.48	274.55	23.21	109.68	12 54 48	5184.7	25.95	266.59
110.00	10 14 59	696.61	14.27	307.06	18.56	121.40	10 26 36	96.6	18.32	300.29
110.00	14 20 5	5215.61	33.39	234.13	25.96	97.79	15 47 0	4615.6	34.11	224.97

DIFFERENTIAL CORRECTIONS
TDE-1.8676 TRA -.4781 TC3-5.3063 BAU .8953
RDE .2274 RRA .0132 RC3 -.0048 FAU .06635
FDE-1.8955 FRA .2806 FC3-4.5514 BSP 15284
BDE 1.8814 BRA .4783 BC3 5.3063 FSP -1243

MID-COURSE EXECUTION ACCURACY
SGT 4907.6 SGR 367.7 SG3 387.1
RRT -.6174 RRF -.6662 RTF .9519
SGB 4921.4 R23 .0971 R13 -.9522
SG1 4912.9 SG2 288.9 THA 177.34

ORBIT DETERMINATION ACCURACY
ST 3026.0 SR 366.9 SS 1368.9
CRT -.9969 CRS .9969 CST -.9902
LSA 3336.8 MSA 175.3 SSA 12.7
EL1 3048.1 EL2 28.5 ALF 173.11

LAUNCH DATE JUN 27 1967 FLIGHT TIME 166.00 ARRIVAL DATE DEC 10 1967

HELIOCENTRIC CONIC DISTANCE 476.514
RL 152.07 LAL .00 LOL 274.68 VL 26.457 GAL -.47 AZL 94.28 HCA 225.25 SMA 126.94 ECC .19811 INC 4.2790 V1 29.296
RP 107.48 LAP 3.04 LOP 139.85 VP 37.736 GAP 7.30 AZP 86.98 TAL 181.92 TAP 47.16 RCA 101.80 APO 152.09 V2 35.256
RC 136.791 GL -33.99 GP 10.62 ZAL 94.63 ZAP 153.48 ETS 22.19 ZAE 130.52 ETE 170.98 ZAC 97.91 ETC 16.29 CLP-155.56
PLANETOCENTRIC CONIC
C3 12.471 VHL 3.531 DLA -30.50 RAL 164.21 RAD 6567.5 VEL 11.570 PTH 2.02 VHP 5.315 DPA 19.06 RAP 171.20 ECC 1.2052

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.16	8 24 28	1092.08	23.70	340.58	26.03	109.79	8 42 40	492.1	26.18	332.61
101.84	11 34 54	5767.03	23.71	273.32	26.03	109.78	13 11 1	5167.0	26.19	265.34
78.16	8 24 28	1092.08	23.70	340.58	26.03	109.79	8 42 40	492.1	26.18	332.61
101.84	11 34 54	5767.03	23.71	273.32	26.03	109.78	13 11 1	5167.0	26.19	265.34
110.00	10 30 14	682.40	14.77	306.26	21.53	121.18	10 41 37	82.4	18.79	299.46
110.00	14 28 18	5224.70	33.30	234.83	28.75	98.20	15 55 22	4624.7	34.08	225.68

DIFFERENTIAL CORRECTIONS
TDE-1.9071 TRA -.3569 TC3-5.4981 BAU .9167
RDE .2223 RRA .0159 RC3 -.0438 FAU .06268
FDE-1.7986 FRA .3755 FC3-4.3516 BSP 15635
BDE 1.9201 BRA .3572 BC3 5.4983 FSP -1195

MID-COURSE EXECUTION ACCURACY
SGT 5010.5 SGR 363.2 SG3 371.2
RRT -.5583 RRF -.5999 RTF .9517
SGB 5023.7 R23 .0804 R13 -.9519
SG1 5014.7 SG2 301.1 THA 177.67

ORBIT DETERMINATION ACCURACY
ST 3103.0 SR 360.8 SS 1344.3
CRT -.9984 CRS .9947 CST -.9905
LSA 3396.7 MSA 169.7 SSA 13.8
EL1 3123.9 EL2 20.3 ALF 173.38

LAUNCH DATE JUN 27 1967 FLIGHT TIME 168.00 ARRIVAL DATE DEC 12 1967

HELIOCENTRIC CONIC DISTANCE 482.454
RL 152.07 LAL .00 LOL 274.68 VL 26.416 GAL -.15 AZL 94.17 HCA 228.49 SMA 126.68 ECC .20042 INC 4.1655 V1 29.296
RP 107.49 LAP 3.12 LOP 143.10 VP 37.706 GAP 7.63 AZP 87.24 TAL 180.61 TAP 49.10 RCA 101.30 APO 152.07 V2 35.254
RC 138.949 GL -33.01 GP 9.77 ZAL 92.23 ZAP 155.09 ETS 21.77 ZAE 130.23 ETE 171.88 ZAC 96.40 ETC 15.69 CLP-156.97
PLANETOCENTRIC CONIC
C3 12.403 VHL 3.522 DLA -30.77 RAL 167.25 RAD 6567.5 VEL 11.567 PTH 2.02 VHP 5.464 DPA 17.55 RAP 172.58 ECC 1.2041

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.42	8 31 12	1107.98	23.92	341.87	29.07	109.96	8 49 40	508.0	26.42	333.88
102.58	11 52 25	5748.81	23.94	272.04	29.07	109.94	13 28 14	5148.8	26.43	264.06
77.42	8 31 12	1107.98	23.92	341.87	29.07	109.96	8 49 40	508.0	26.42	333.88
102.58	11 52 25	5748.81	23.94	272.04	29.07	109.94	13 28 14	5148.8	26.43	264.06
110.00	10 46 45	666.84	15.32	305.39	24.73	120.94	10 57 51	66.8	19.30	298.54
110.00	14 36 3	5237.95	33.17	235.84	31.76	98.78	16 3 21	4637.9	34.03	226.71

DIFFERENTIAL CORRECTIONS
TDE-1.9600 TRA -.2299 TC3-5.6539 BAU .9376
RDE .2211 RRA .0192 RC3 -.0760 FAU .05905
FDE-1.7238 FRA .4609 FC3-4.1218 BSP 16111
BDE 1.9724 BRA .2307 BC3 5.6544 FSP -1167

MID-COURSE EXECUTION ACCURACY
SGT 5120.2 SGR 365.5 SG3 356.8
RRT -.5075 RRF -.5444 RTF .9517
SGB 5133.2 R23 .0692 R13 -.9519
SG1 5123.6 SG2 314.8 THA 177.92

ORBIT DETERMINATION ACCURACY
ST 3193.6 SR 359.9 SS 1330.3
CRT -.9991 CRS .9918 CST -.9910
LSA 3474.3 MSA 164.4 SSA 14.8
EL1 3213.8 EL2 15.5 ALF 173.58

LAUNCH DATE JUN 27 1967 FLIGHT TIME 170.00 ARRIVAL DATE DEC 14 1967

HELIOCENTRIC CONIC DISTANCE 488.374
RL 152.07 LAL .00 LOL 274.68 VL 26.376 GAL .18 AZL 94.06 HCA 231.74 SMA 126.43 ECC .20289 INC 4.0629 V1 29.296
RP 107.50 LAP 3.19 LOP 146.35 VP 37.674 GAP 7.96 AZP 87.48 TAL 179.28 TAP 51.02 RCA 100.77 APO 152.08 V2 35.251
RC 141.095 GL -32.03 GP 9.04 ZAL 89.72 ZAP 156.60 ETS 21.46 ZAE 129.94 ETE 172.65 ZAC 94.80 ETC 15.15 CLP-158.32
PLANETOCENTRIC CONIC
C3 12.416 VHL 3.524 DLA -31.07 RAL 170.39 RAD 6567.5 VEL 11.567 PTH 2.02 VHP 5.618 DPA 16.13 RAP 174.06 ECC 1.2043

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.65	8 38 15	1125.56	24.14	343.27	32.31	110.18	8 57 0	525.6	26.67	335.29
103.35	12 10 26	5731.69	24.15	270.84	32.32	110.16	13 45 58	5131.7	26.68	262.85
76.65	8 38 15	1125.56	24.14	343.27	32.31	110.18	8 57 0	525.6	26.67	335.29
103.35	12 10 26	5731.69	24.15	270.84	32.32	110.16	13 45 58	5131.7	26.68	262.85
110.00	11 4 16	650.69	15.88	304.48	28.14	120.68	11 15 7	50.7	19.83	297.58
110.00	14 43 35	5254.55	32.99	237.10	34.98	99.51	16 11 10	4654.6	33.95	228.00

DIFFERENTIAL CORRECTIONS
TDE-1.9972 TRA -.0832 TC3-5.7319 BAU .9516
RDE .2210 RRA .0220 RC3 -.1039 FAU .05492
FDE-1.6281 FRA .5534 FC3-3.8292 BSP 16210
BDE 2.0094 BRA .0861 BC3 5.7328 FSP -1091

MID-COURSE EXECUTION ACCURACY
SGT 5185.4 SGR 369.0 SG3 339.0
RRT -.4586 RRF -.4902 RTF .9502
SGB 5198.5 R23 .0593 R13 -.9503
SG1 5188.2 SG2 327.7 THA 178.12

ORBIT DETERMINATION ACCURACY
ST 3250.1 SR 359.5 SS 1294.8
CRT -.9989 CRS .9876 CST -.9911
LSA 3513.2 MSA 160.4 SSA 15.8
EL1 3269.9 EL2 17.1 ALF 173.70

LAUNCH DATE JUN 27 1967 FLIGHT TIME 172.00 ARRIVAL DATE DEC 16 1967

HELIOCENTRIC CONIC DISTANCE 494.272
RL 152.07 LAL .00 LOL 274.68 VL 26.335 GAL .53 AZL 93.97 HCA 234.99 SMA 126.17 ECC .20554 INC 3.9692 V1 29.296
RP 107.51 LAP 3.25 LOP 149.60 VP 37.642 GAP 8.30 AZP 87.72 TAL 177.94 TAP 52.92 RCA 100.23 APO 152.10 V2 35.247
RC 143.232 GL -31.02 GP 8.41 ZAL 87.11 ZAP 158.02 ETS 21.26 ZAE 129.68 ETE 173.30 ZAC 93.10 ETC 14.66 CLP-159.62
PLANETOCENTRIC CONIC
C3 12.512 VHL 3.537 DLA -31.37 RAL 173.62 RAD 6567.5 VEL 11.571 PTH 2.02 VHP 5.779 DPA 14.76 RAP 175.62 ECC 1.2059

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.90	8 45 52	1143.76	24.32	344.72	35.75	110.44	9 4 56	543.8	26.88	336.73
104.10	12 28 35	5716.74	24.34	269.79	35.75	110.43	14 3 52	5116.7	26.89	261.80
75.90	8 45 52	1143.76	24.32	344.72	35.75	110.44	9 4 56	543.8	26.88	336.73
104.10	12 28 35	5716.74	24.34	269.79	35.75	110.43	14 3 52	5116.7	26.89	261.80
110.00	11 22 31	634.88	16.43	303.58	31.75	120.41	11 33 6	34.9	20.34	296.64
110.00	14 51 7	5273.63	32.77	238.55	38.39	100.34	16 19 0	4673.6	33.84	229.48

DIFFERENTIAL CORRECTIONS
TDE-2.0412 TRA .0647 TC3-5.7963 BAU .9698
RDE .2236 RRA .0255 RC3 -.1224 FAU .05160
FDE-1.5464 FRA .6273 FC3-3.5707 BSP 16505
BDE 2.0534 BRA .0696 BC3 5.7976 FSP -1047

MID-COURSE EXECUTION ACCURACY
SGT 5268.9 SGR 375.5 SG3 324.1
RRT -.4228 RRF -.4479 RTF .9505
SGB 5282.3 R23 .0490 R13 -.9506
SG1 5271.3 SG2 340.2 THA 178.27

ORBIT DETERMINATION ACCURACY
ST 3308.9 SR 362.5 SS 1263.9
CRT -.9977 CRS .9829 CST -.9915
LSA 3557.1 MSA 155.7 SSA 16.7
EL1 3328.6 EL2 24.4 ALF 173.76

```
LAUNCH DATE  JUN 27 1967                          FLIGHT TIME 174.00                          ARRIVAL DATE  DEC 18 1967

  HELIOCENTRIC CONIC                              DISTANCE 500.147
   RL  152.07 LAL     .00 LOL 274.68 VL  26.293 GAL    .90 AZL  93.88 HCA 238.23 SMA 125.91 ECC .20838 INC 3.8826 V1  29.296
   RP  107.53 LAP    3.30 LOP 152.85 VP  37.609 GAP   8.65 AZP  87.95 TAL 176.58 TAP  54.81 RCA  99.67 APO 152.14 V2  35.243
   RC 145.356 GL   -29.98 GP    7.85 ZAL  84.43 ZAP 159.38 ETS  21.16 ZAE 129.43 ETE 173.86 ZAC  91.33 ETC  14.22 CLP-160.87
  PLANETOCENTRIC CONIC
   C3  12.692 VHL  3.563 DLA -31.66 RAL 176.93 RAD 6567.5 VEL 11.579 PTH   2.02 VHP  5.946 DPA  13.45 RAP 177.24 ECC 1.2089
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      75.21     8 54 16   1161.86      24.47     346.15      39.36      110.75    9 13 38     561.9      27.07     338.16
     104.79    12 46 34   5704.76      24.48     268.94      39.36      110.73   14 21 39    5104.8      27.07     260.95
      75.21     8 54 16   1161.86      24.47     346.15      39.36      110.75    9 13 38     561.9      27.07     338.16
     104.79    12 46 34   5704.76      24.48     268.94      39.36      110.73   14 21 39    5104.8      27.07     260.95
     110.00    11 41 11    620.26      16.93     302.74      35.53      120.15   11 51 31      20.3      20.81     295.76
     110.00    14 58 51   5294.35      32.50     240.11      41.98      101.22   16 27  5    4694.4      33.71     231.08
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE-2.0881 TRA  .2233 TC3-5.8155 BAU  .9870    SGT 5350.2 SGR  383.7 SG3  310.2         ST  3362.9 SR   367.9 SS  1234.3
   RDE  .2285 RRA  .0285 RC3 -.1352 FAU .04840    RRT -.3956 RRF -.4157 RTF  .9506         CRT -.9957 CRS  .9774 CST -.9918
   FDE-1.4727 FRA  .6991 FC3-3.3015 BSP  16778    SGB 5364.0 R23  .0413 R13 -.9507         LSA 3597.9 MSA  152.3 SSA   17.6
   BDE 2.1006 BRA  .2251 BC3 5.8170 FSP  -1003    SG1 5352.4 SG2  352.3 THA 178.37         EL1 3382.8 EL2   34.0 ALF 173.78

LAUNCH DATE  JUN 27 1967                          FLIGHT TIME 176.00                          ARRIVAL DATE  DEC 20 1967

  HELIOCENTRIC CONIC                              DISTANCE 505.996
   RL  152.07 LAL     .00 LOL 274.68 VL  26.252 GAL   1.28 AZL  93.80 HCA 241.47 SMA 125.65 ECC .21143 INC 3.8019 V1  29.296
   RP  107.54 LAP    3.34 LOP 156.10 VP  37.575 GAP   9.00 AZP  88.18 TAL 175.21 TAP  56.68 RCA  99.08 APO 152.21 V2  35.237
   RC 147.469 GL   -28.91 GP    7.37 ZAL  81.69 ZAP 160.67 ETS  21.16 ZAE 129.19 ETE 174.34 ZAC  89.50 ETC  13.82 CLP-162.08
  PLANETOCENTRIC CONIC
   C3  12.961 VHL  3.600 DLA -31.93 RAL 180.30 RAD 6567.5 VEL 11.591 PTH   2.03 VHP  6.120 DPA  12.17 RAP 178.92 ECC 1.2133
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      74.60     9  3 34   1179.38      24.55     347.52      43.13      111.08    9 23 13     579.4      27.19     339.54
     105.40    13  4 11   5696.26      24.56     268.33      43.13      111.06   14 39  7    5096.3      27.20     260.35
      74.60     9  3 34   1179.38      24.55     347.52      43.13      111.08    9 23 13     579.4      27.19     339.54
     105.40    13  4 11   5696.26      24.56     268.33      43.13      111.06   14 39  7    5096.3      27.20     260.35
     110.00    11 59 54    607.79      17.35     302.02      39.46      119.92   12 10  2       7.8      21.20     295.01
     110.00    15  7  1   5315.85      32.21     241.71      45.72      102.13   16 35 37    4715.8      33.54     232.74
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE-2.1360 TRA  .3910 TC3-5.7875 BAU 1.0032    SGT 5427.6 SGR  392.9 SG3  296.9         ST  3408.8 SR   375.1 SS  1204.6
   RDE  .2354 RRA  .0313 RC3 -.1427 FAU .04532    RRT -.3763 RRF -.3925 RTF  .9510         CRT -.9928 CRS  .9714 CST -.9921
   FDE-1.4053 FRA  .7644 FC3-3.0268 BSP  17047    SGB 5441.8 R23  .0357 R13 -.9511         LSA 3631.7 MSA  149.5 SSA   18.3
   BDE 2.1490 BRA  .3923 BC3 5.7892 FSP   -962    SG1 5429.7 SG2  363.9 THA 178.43         EL1 3429.1 EL2   44.7 ALF 173.77

LAUNCH DATE  JUN 27 1967                          FLIGHT TIME 178.00                          ARRIVAL DATE  DEC 22 1967

  HELIOCENTRIC CONIC                              DISTANCE 511.821
   RL  152.07 LAL     .00 LOL 274.68 VL  26.211 GAL   1.68 AZL  93.73 HCA 244.72 SMA 125.39 ECC .21470 INC 3.7261 V1  29.296
   RP  107.56 LAP    3.37 LOP 159.35 VP  37.541 GAP   9.35 AZP  88.41 TAL 173.83 TAP  58.55 RCA  98.47 APO 152.31 V2  35.231
   RC 149.570 GL   -27.80 GP    6.94 ZAL  78.91 ZAP 161.90 ETS  21.28 ZAE 128.98 ETE 174.75 ZAC  87.61 ETC  13.46 CLP-163.25
  PLANETOCENTRIC CONIC
   C3  13.327 VHL  3.651 DLA -32.15 RAL 183.72 RAD 6567.5 VEL 11.607 PTH   2.03 VHP  6.300 DPA  10.93 RAP 180.66 ECC 1.2193
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      74.09     9 13 47   1196.07      24.57     348.79      47.04      111.42    9 33 43     596.1      27.26     340.83
     105.91    13 21 15   5691.59      24.58     267.98      47.04      111.41   14 56  6    5091.6      27.27     260.02
      74.09     9 13 47   1196.07      24.57     348.79      47.04      111.42    9 33 43     596.1      27.26     340.83
     105.91    13 21 15   5691.59      24.58     267.98      47.04      111.41   14 56  6    5091.6      27.27     260.02
     110.00    12 18 21   5886.49      17.67     279.39      43.50      119.75   13 56 27    5286.5      21.49     272.35
     110.00    15 15 51   5337.20      31.89     243.30      49.61      103.02   16 44 49    4737.2      33.35     234.37
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE-2.1788 TRA  .5721 TC3-5.7042 BAU 1.0166    SGT 5492.1 SGR  402.0 SG3  283.6         ST  3436.6 SR   383.1 SS  1169.9
   RDE  .2438 RRA  .0332 RC3 -.1460 FAU .04222    RRT -.3620 RRF -.3751 RTF  .9511         CRT -.9891 CRS  .9646 CST -.9924
   FDE-1.3371 FRA  .8288 FC3-2.7428 BSP  17258    SGB 5506.8 R23  .0312 R13 -.9511         LSA 3647.4 MSA  148.4 SSA   18.8
   BDE 2.1924 BRA  .5731 BC3 5.7061 FSP   -921    SG1 5494.1 SG2  374.6 THA 178.47         EL1 3457.5 EL2   56.1 ALF 173.71

LAUNCH DATE  JUN 27 1967                          FLIGHT TIME 180.00                          ARRIVAL DATE  DEC 24 1967

  HELIOCENTRIC CONIC                              DISTANCE 517.616
   RL  152.07 LAL     .00 LOL 274.68 VL  26.170 GAL   2.10 AZL  93.65 HCA 247.96 SMA 125.14 ECC .21820 INC 3.6542 V1  29.296
   RP  107.58 LAP    3.39 LOP 162.60 VP  37.506 GAP   9.72 AZP  88.63 TAL 172.44 TAP  60.40 RCA  97.83 APO 152.44 V2  35.225
   RC 151.657 GL   -26.66 GP    6.56 ZAL  76.11 ZAP 163.09 ETS  21.51 ZAE 128.77 ETE 175.11 ZAC  85.66 ETC  13.14 CLP-164.38
  PLANETOCENTRIC CONIC
   C3  13.796 VHL  3.714 DLA -32.33 RAL 187.17 RAD 6567.5 VEL 11.627 PTH   2.04 VHP  6.487 DPA   9.72 RAP 182.44 ECC 1.2270
   LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
      73.70     9 24 56   1211.71      24.51     349.96      51.07      111.77    9 45  8     611.7      27.25     342.02
     106.30    13 37 35   5691.03      24.52     267.91      51.07      111.76   15 12 26    5091.0      27.26     259.97
      73.70     9 24 56   1211.71      24.51     349.96      51.07      111.77    9 45  8     611.7      27.25     342.02
     106.30    13 37 35   5691.03      24.52     267.91      51.07      111.76   15 12 26    5091.0      27.26     259.97
     110.00    12 36  5   5881.34      17.84     279.09      47.62      119.65   14 14  6    5281.3      21.65     272.03
     110.00    15 25 37   5357.44      31.57     244.79      53.63      103.85   16 54 54    4757.4      33.15     235.92
  DIFFERENTIAL CORRECTIONS                        MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
   TDE-2.2208 TRA  .7618 TC3-5.5856 BAU 1.0306    SGT 5557.6 SGR  411.0 SG3  271.2         ST  3453.2 SR   392.2 SS  1134.3
   RDE  .2539 RRA  .0346 RC3 -.1446 FAU .03938    RRT -.3538 RRF -.3639 RTF  .9514         CRT -.9847 CRS  .9573 CST -.9926
   FDE-1.2729 FRA  .8880 FC3-2.4715 BSP  17499    SGB 5572.7 R23  .0275 R13 -.9515         LSA 3652.8 MSA  148.4 SSA   19.1
   BDE 2.2352 BRA  .7626 BC3 5.5875 FSP   -884    SG1 5559.5 SG2  384.3 THA 178.49         EL1 3474.8 EL2   67.9 ALF 173.62
```

LAUNCH DATE JUN 27 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 26 1967

DISTANCE 523.382

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 26.129 GAL 2.54 AZL 93.59 HCA 251.20 SMA 124.88 ECC .22196 INC 3.5856 V1 29.296
RP 107.60 LAP 3.39 LOP 165.85 VP 37.470 GAP 10.09 AZP 88.84 TAL 171.04 TAP 62.24 RCA 97.16 APO 152.60 V2 35.217
RC 153.730 GL -25.50 GP 6.22 ZAL 73.30 ZAP 164.23 ETS 21.86 ZAE 128.59 ETE 175.42 ZAC 83.68 ETC 12.86 CLP-165.48

PLANETOCENTRIC CONIC
C3 14.378 VHL 3.792 DLA -32.46 RAL 190.62 RAD 6567.6 VEL 11.652 PTH 2.05 VHP 6.683 DPA 8.53 RAP 184.25 ECC 1.2366

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.43	9 36 55	1226.34	24.37	351.02	55.19	112.13	9 57 22	626.3	27.15	343.10
106.57	13 53 8	5694.61	24.38	268.12	55.19	112.12	15 28 3	5094.6	27.16	260.21
73.43	9 36 55	1226.34	24.37	351.02	55.19	112.13	9 57 22	626.3	27.15	343.10
106.57	13 53 8	5694.61	24.38	268.12	55.19	112.12	15 28 3	5094.6	27.16	260.21
110.00	12 52 43	5881.32	17.84	279.09	51.80	119.65	14 30 45	5281.3	21.65	272.03
110.00	15 36 31	5375.67	31.26	246.12	57.77	104.58	17 6 6	4775.7	32.95	237.30

DIFFERENTIAL CORRECTIONS
TDE-2.2609 TRA .9620 TC3-5.4286 BAU 1.0439
RDE .2656 RRA .0350 RC3 -.1397 FAU .03673
FDE-1.2130 FRA .9433 FC3-2.2114 BSP 17739
BDE 2.2765 BRA .9626 BC3 5.4304 FSP -850

MID-COURSE EXECUTION ACCURACY
SGT 5620.3 SGR 419.8 SG3 259.6
RRT -.3505 RRF -.3584 RTF .9521
SGB 5635.9 R23 .0246 R13 -.9521
SG1 5622.2 SG2 393.0 THA 178.49

ORBIT DETERMINATION ACCURACY
ST 3457.3 SR 401.8 SS 1098.4
CRT -.9797 CRS .9497 CST -.9928
LSA 3646.7 MSA 149.7 SSA 19.3
EL1 3479.7 EL2 80.0 ALF 173.50

LAUNCH DATE JUN 27 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 28 1967

DISTANCE 529.115

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 26.087 GAL 2.99 AZL 93.52 HCA 254.44 SMA 124.63 ECC .22600 INC 3.5196 V1 29.296
RP 107.63 LAP 3.39 LOP 169.09 VP 37.434 GAP 10.48 AZP 89.05 TAL 169.63 TAP 64.07 RCA 96.46 APO 152.80 V2 35.210
RC 155.789 GL -24.32 GP 5.91 ZAL 70.51 ZAP 165.33 ETS 22.35 ZAE 128.42 ETE 175.68 ZAC 81.65 ETC 12.61 CLP-166.55

PLANETOCENTRIC CONIC
C3 15.086 VHL 3.884 DLA -32.52 RAL 194.05 RAD 6567.6 VEL 11.682 PTH 2.05 VHP 6.887 DPA 7.36 RAP 186.11 ECC 1.2483

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.30	9 49 44	1239.80	24.14	351.94	59.38	112.49	10 10 24	639.8	26.97	344.06
106.70	14 7 44	5702.54	24.15	268.63	59.39	112.47	15 42 46	5102.5	26.98	260.75
73.30	9 49 44	1239.80	24.14	351.94	59.38	112.49	10 10 24	639.8	26.97	344.06
106.70	14 7 44	5702.54	24.15	268.63	59.39	112.47	15 42 46	5102.5	26.98	260.75
110.00	13 7 56	5887.23	17.64	279.43	55.98	119.76	14 46 4	5287.2	21.47	272.39
110.00	15 48 42	5391.14	30.99	247.25	62.02	105.20	17 18 34	4791.1	32.77	238.47

DIFFERENTIAL CORRECTIONS
TDE-2.2956 TRA 1.1750 TC3-5.2312 BAU 1.0554
RDE .2786 RRA .0344 RC3 -.1321 FAU .03413
FDE-1.1533 FRA .9974 FC3-1.9586 BSP 17944
BDE 2.3125 BRA 1.1755 BC3 5.2329 FSP -816

MID-COURSE EXECUTION ACCURACY
SGT 5675.1 SGR 427.9 SG3 248.2
RRT -.3504 RRF -.3563 RTF .9526
SGB 5691.2 R23 .0222 R13 -.9526
SG1 5677.1 SG2 400.6 THA 178.48

ORBIT DETERMINATION ACCURACY
ST 3444.3 SR 411.4 SS 1059.5
CRT -.9741 CRS .9414 CST -.9930
LSA 3623.7 MSA 152.7 SSA 19.2
EL1 3467.5 EL2 92.4 ALF 173.36

LAUNCH DATE JUN 27 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 30 1967

DISTANCE 534.813

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 26.046 GAL 3.47 AZL 93.46 HCA 257.68 SMA 124.38 ECC .23034 INC 3.4557 V1 29.296
RP 107.65 LAP 3.38 LOP 172.33 VP 37.398 GAP 10.88 AZP 89.26 TAL 168.22 TAP 65.89 RCA 95.73 APO 153.03 V2 35.201
RC 157.834 GL -23.12 GP 5.64 ZAL 67.74 ZAP 166.39 ETS 23.00 ZAE 128.26 ETE 175.92 ZAC 79.59 ETC 12.39 CLP-167.59

PLANETOCENTRIC CONIC
C3 15.931 VHL 3.991 DLA -32.52 RAL 197.45 RAD 6567.6 VEL 11.718 PTH 2.06 VHP 7.101 DPA 6.20 RAP 187.99 ECC 1.2622

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.30	10 3 18	1252.09	23.81	352.74	63.63	112.83	10 24 10	652.1	26.70	344.90
106.70	14 21 17	5714.84	23.83	269.42	63.63	112.82	15 56 32	5114.8	26.71	261.58
73.30	10 3 18	1252.09	23.81	352.74	63.63	112.83	10 24 10	652.1	26.70	344.90
106.70	14 21 17	5714.84	23.83	269.42	63.63	112.82	15 56 32	5114.8	26.71	261.58
110.00	13 21 30	611.50	17.23	302.24	60.14	119.99	13 31 41	11.5	21.08	295.23
110.00	16 2 16	5403.44	30.77	248.14	66.36	105.68	17 32 19	4803.4	32.61	239.40

DIFFERENTIAL CORRECTIONS
TDE-2.3232 TRA 1.4027 TC3-4.9951 BAU 1.0642
RDE .2928 RRA .0326 RC3 -.1227 FAU .03155
FDE-1.0934 FRA 1.0510 FC3-1.7146 BSP 18071
BDE 2.3416 BRA 1.4031 BC3 4.9966 FSP -780

MID-COURSE EXECUTION ACCURACY
SGT 5720.6 SGR 435.1 SG3 237.2
RRT -.3528 RRF -.3567 RTF .9528
SGB 5737.1 R23 .0201 R13 -.9528
SG1 5722.6 SG2 407.0 THA 178.45

ORBIT DETERMINATION ACCURACY
ST 3413.2 SR 420.6 SS 1018.0
CRT -.9677 CRS .9321 CST -.9930
LSA 3583.0 MSA 157.5 SSA 19.0
EL1 3437.4 EL2 105.2 ALF 173.19

LAUNCH DATE JUN 27 1967 FLIGHT TIME 188.00 ARRIVAL DATE JAN 1 1968

DISTANCE 540.472

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 26.006 GAL 3.98 AZL 93.39 HCA 260.91 SMA 124.13 ECC .23501 INC 3.3933 V1 29.296
RP 107.68 LAP 3.35 LOP 175.58 VP 37.361 GAP 11.29 AZP 89.46 TAL 166.81 TAP 67.72 RCA 94.96 APO 153.31 V2 35.192
RC 159.863 GL -21.91 GP 5.40 ZAL 65.02 ZAP 167.42 ETS 23.84 ZAE 128.11 ETE 176.12 ZAC 77.51 ETC 12.20 CLP-168.62

PLANETOCENTRIC CONIC
C3 16.931 VHL 4.115 DLA -32.46 RAL 200.79 RAD 6567.7 VEL 11.761 PTH 2.08 VHP 7.325 DPA 5.06 RAP 189.90 ECC 1.2786

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.43	10 17 32	1263.21	23.40	353.40	67.90	113.16	10 38 35	663.2	26.33	345.61
106.57	14 33 43	5731.56	23.41	270.51	67.90	113.15	16 9 14	5131.6	26.34	262.72
73.43	10 17 32	1263.21	23.40	353.40	67.90	113.16	10 38 35	663.2	26.33	345.61
106.57	14 33 43	5731.56	23.41	270.51	67.90	113.15	16 9 14	5131.6	26.34	262.72
110.00	13 33 17	630.26	16.59	303.31	64.25	120.33	13 43 48	30.3	20.49	296.36
110.00	16 17 7	5412.51	30.60	248.79	70.77	106.03	17 47 20	4812.5	32.49	240.08

DIFFERENTIAL CORRECTIONS
TDE-2.3495 TRA 1.6400 TC3-4.7411 BAU 1.0734
RDE .3083 RRA .0298 RC3 -.1115 FAU .02921
FDE-1.0386 FRA 1.1006 FC3-1.4936 BSP 18262
BDE 2.3696 BRA 1.6402 BC3 4.7424 FSP -751

MID-COURSE EXECUTION ACCURACY
SGT 5766.3 SGR 441.7 SG3 227.0
RRT -.3586 RRF -.3609 RTF .9534
SGB 5783.2 R23 .0185 R13 -.9535
SG1 5768.5 SG2 412.2 THA 178.42

ORBIT DETERMINATION ACCURACY
ST 3372.8 SR 429.5 SS 978.3
CRT -.9609 CRS .9227 CST -.9931
LSA 3534.2 MSA 163.2 SSA 18.6
EL1 3398.0 EL2 118.1 ALF 173.01

LAUNCH DATE JUN 27 1967 FLIGHT TIME 190.00 ARRIVAL DATE JAN 3 1968

HELIOCENTRIC CONIC DISTANCE 546.088
RL 152.07 LAL .00 LOL 274.68 VL 25.965 GAL 4.51 AZL 93.33 HCA 264.15 SMA 123.89 ECC .24003 INC 3.3322 V1 29.296
RP 107.71 LAP 3.31 LOP 178.82 VP 37.323 GAP 11.72 AZP 89.66 TAL 165.98 TAP 69.54 RCA 94.15 APO 153.63 V2 35.183
RC 161.876 GL -20.71 GP 5.18 ZAL 62.35 ZAP 168.41 ETS 24.90 ZAE 127.96 ETE 176.30 ZAC 75.40 ETC 12.05 CLP-169.62
PLANETOCENTRIC CONIC
C3 18.104 VHL 4.255 DLA -32.33 RAL 204.06 RAD 6567.7 VEL 11.810 PTH 2.09 VHP 7.560 DPA 3.94 RAP 191.84 ECC 1.2979

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.71	10 32 22	1273.08	22.90	353.91	72.18	113.47	10 53 35	673.1	25.87	346.18
106.29	14 44 55	5752.74	22.91	271.89	72.18	113.46	16 20 47	5152.7	25.88	264.15
73.71	10 32 22	1273.08	22.90	353.91	72.18	113.47	10 53 35	673.1	25.87	346.18
106.29	14 44 55	5752.74	22.91	271.89	72.18	113.46	16 20 47	5152.7	25.88	264.15
110.00	13 43 22	655.11	15.73	304.73	68.29	120.75	13 54 17	55.1	19.69	297.85
110.00	16 33 5	5418.71	30.48	249.23	75.24	106.27	18 3 23	4818.7	32.41	240.55

DIFFERENTIAL CORRECTIONS
TDE-2.3716 TRA 1.8903 TC3-4.4668 BAU 1.0814
RDE .3249 RRA .0256 RC3 -.0994 FAU .02698
FDE -.9861 FRA 1.1488 FC3-1.2901 BSP 18447
BDE 2.3938 BRA 1.8904 BC3 4.4679 FSP -723

MID-COURSE EXECUTION ACCORACY
SGT 5807.1 SGR 447.5 SG3 217.2
RRT -.3666 RRF -.3674 RTF .9541
SGB 5824.3 R23 .0171 R13 -.9541
SG1 5809.4 SG2 416.2 THA 178.37

ORBIT DETERMINATION ACCURACY
ST 3321.0 SR 437.7 SS 939.0
CRT -.9534 CRS .9126 CST -.9932
LSA 3474.6 MSA 169.9 SSA 18.1
EL1 3347.1 EL2 131.0 ALF 172.83

LAUNCH DATE JUN 27 1967 FLIGHT TIME 192.00 ARRIVAL DATE JAN 5 1968

HELIOCENTRIC CONIC DISTANCE 551.656
RL 152.07 LAL .00 LOL 274.68 VL 25.924 GAL 5.07 AZL 93.27 HCA 267.38 SMA 123.65 ECC .24544 INC 3.2717 V1 29.296
RP 107.74 LAP 3.27 LOP 182.05 VP 37.286 GAP 12.17 AZP 89.85 TAL 163.98 TAP 71.35 RCA 93.30 APO 153.99 V2 35.172
RC 163.875 GL -19.51 GP 4.98 ZAL 59.75 ZAP 169.38 ETS 26.24 ZAE 127.83 ETE 176.45 ZAC 73.27 ETC 11.93 CLP-170.61
PLANETOCENTRIC CONIC
C3 19.471 VHL 4.413 DLA -32.14 RAL 207.23 RAD 6567.8 VEL 11.868 PTH 2.11 VHP 7.809 DPA 2.83 RAP 193.79 ECC 1.3204

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.12	10 47 43	1281.79	22.31	354.30	76.45	113.76	11 9 5	681.8	25.32	346.62
105.88	14 54 51	5778.29	22.32	273.56	76.45	113.75	16 31 10	5178.3	25.34	265.88
74.12	10 47 43	1281.79	22.31	354.30	76.45	113.76	11 9 5	681.8	25.32	346.62
105.88	14 54 51	5778.29	22.32	273.56	76.45	113.75	16 31 10	5178.3	25.34	265.88
110.00	13 51 53	685.40	14.66	306.43	72.26	121.23	14 3 18	85.4	18.69	299.63
110.00	16 49 51	5422.67	30.41	249.52	79.75	106.42	18 20 14	4822.7	32.36	240.84

DIFFERENTIAL CORRECTIONS
TDE-2.3887 TRA 2.1553 TC3-4.1762 BAU 1.0873
RDE .3424 RRA .0200 RC3 -.0871 FAU .02482
FDE -.9357 FRA 1.1966 FC3-1.1038 BSP 18597
BDE 2.4132 BRA 2.1554 BC3 4.1771 FSP -695

MID-COURSE EXECUTION ACCURACY
SGT 5841.9 SGR 452.3 SG3 207.9
RRT -.3763 RRF -.3757 RTF .9548
SGB 5859.4 R23 .0157 R13 -.9548
SG1 5844.4 SG2 418.9 THA 178.32

ORBIT DETERMINATION ACCURACY
ST 3258.2 SR 444.7 SS 900.2
CRT -.9453 CRS .9018 CST -.9932
LSA 3404.7 MSA 177.8 SSA 17.5
EL1 3285.3 EL2 143.9 ALF 172.63

LAUNCH DATE JUN 27 1967 FLIGHT TIME 194.00 ARRIVAL DATE JAN 7 1968

HELIOCENTRIC CONIC DISTANCE 557.171
RL 152.07 LAL .00 LOL 274.68 VL 25.884 GAL 5.65 AZL 93.21 HCA 270.61 SMA 123.41 ECC .25129 INC 3.2116 V1 29.296
RP 107.78 LAP 3.21 LOP 185.29 VP 37.248 GAP 12.64 AZP 90.03 TAL 162.57 TAP 73.18 RCA 92.40 APO 154.42 V2 35.162
RC 165.860 GL -18.33 GP 4.80 ZAL 57.23 ZAP 170.32 ETS 27.90 ZAE 127.70 ETE 176.58 ZAC 71.12 ETC 11.84 CLP-171.58
PLANETOCENTRIC CONIC
C3 21.059 VHL 4.589 DLA -31.90 RAL 210.29 RAD 6567.9 VEL 11.935 PTH 2.12 VHP 8.072 DPA 1.74 RAP 195.77 ECC 1.3466

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.66	11 3 34	1289.14	21.63	354.54	80.69	114.04	11 25 3	689.1	24.69	346.91
105.34	15 3 26	5808.34	21.65	275.53	80.70	114.02	16 40 15	5208.3	24.71	267.90
74.66	11 3 34	1289.14	21.63	354.54	80.69	114.04	11 25 3	689.1	24.69	346.91
105.34	15 3 26	5808.34	21.65	275.53	80.70	114.02	16 40 15	5208.3	24.71	267.90
110.00	13 59 2	720.34	13.42	308.38	76.14	121.74	14 11 2	120.3	17.52	301.67
110.00	17 7 9	5425.13	30.36	249.69	84.27	106.52	18 37 34	4825.1	32.32	241.03

DIFFERENTIAL CORRECTIONS
TDE-2.3987 TRA 2.4382 TC3-3.8701 BAU 1.0898
RDE .3607 RRA .0129 RC3 -.0752 FAU .02268
FDE -.8860 FRA 1.2453 FC3 -.9323 BSP 18659
BDE 2.4256 BRA 2.4382 BC3 3.8708 FSP -664

MID-COURSE EXECUTION ACCURACY
SGT 5868.8 SGR 456.0 SG3 199.1
RRT -.3869 RRF -.3848 RTF .9553
SGB 5886.5 R23 .0144 R13 -.9553
SG1 5871.5 SG2 420.3 THA 178.27

ORBIT DETERMINATION ACCURACY
ST 3184.0 SR 450.4 SS 861.6
CRT -.9361 CRS .8896 CST -.9932
LSA 3323.8 MSA 186.6 SSA 17.0
EL1 3211.8 EL2 157.1 ALF 172.44

LAUNCH DATE JUN 27 1967 FLIGHT TIME 196.00 ARRIVAL DATE JAN 9 1968

HELIOCENTRIC CONIC DISTANCE 562.627
RL 152.07 LAL .00 LOL 274.68 VL 25.844 GAL 6.28 AZL 93.15 HCA 273.84 SMA 123.17 ECC .25760 INC 3.1515 V1 29.296
RP 107.81 LAP 3.14 LOP 188.52 VP 37.210 GAP 13.13 AZP 90.21 TAL 161.16 TAP 75.00 RCA 91.44 APO 154.90 V2 35.151
RC 167.829 GL -17.17 GP 4.63 ZAL 54.80 ZAP 171.23 ETS 30.00 ZAE 127.57 ETE 176.70 ZAC 68.96 ETC 11.78 CLP-172.54
PLANETOCENTRIC CONIC
C3 22.898 VHL 4.785 DLA -31.61 RAL 213.23 RAD 6567.9 VEL 12.012 PTH 2.14 VHP 8.351 DPA .66 RAP 197.76 ECC 1.3768

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.33	11 19 56	1294.91	20.89	354.61	84.90	114.28	11 41 31	694.9	23.99	347.05
104.67	15 10 34	5843.05	20.90	277.80	84.90	114.27	16 47 57	5243.1	24.00	270.24
75.33	11 19 56	1294.91	20.89	354.61	84.90	114.28	11 41 31	694.9	23.99	347.05
104.67	15 10 34	5843.05	20.90	277.80	84.90	114.27	16 47 57	5243.1	24.00	270.24
110.00	14 5 0	759.15	12.02	310.51	79.93	122.24	14 17 39	159.1	16.19	303.89
110.00	17 24 40	5426.81	30.33	249.81	88.79	106.58	18 55 7	4826.8	32.30	241.15

DIFFERENTIAL CORRECTIONS
TDE-2.4088 TRA 2.7329 TC3-3.5675 BAU 1.0922
RDE .3798 RRA .0044 RC3 -.0635 FAU .02072
FDE -.8412 FRA 1.2917 FC3 -.7833 BSP 18797
BDE 2.4386 BRA 2.7329 BC3 3.5680 FSP -639

MID-COURSE EXECUTION ACCURACY
SGT 5893.9 SGR 458.9 SG3 190.8
RRT -.3995 RRF -.3961 RTF .9562
SGB 5911.8 R23 .0132 R13 -.9562
SG1 5896.8 SG2 420.5 THA 178.21

ORBIT DETERMINATION ACCURACY
ST 3107.7 SR 454.8 SS 826.3
CRT -.9264 CRS .8774 CST -.9932
LSA 3241.8 MSA 195.5 SSA 16.4
EL1 3136.2 EL2 169.7 ALF 172.26

LAUNCH DATE JUN 27 1967 FLIGHT TIME 198.00 ARRIVAL DATE JAN 11 1968

HELIOCENTRIC CONIC DISTANCE 568.015
RL 152.07 LAL .00 LOL 274.68 VL 25.805 GAL 6.93 AZL 93.09 HCA 277.06 SMA 122.94 ECC .26444 INC 3.0909 V1 29.296
RP 107.84 LAP 3.07 LOP 191.75 VP 37.171 GAP 13.65 AZP 90.38 TAL 159.77 TAP 76.83 RCA 90.43 APO 155.44 V2 35.139
RC 169.783 GL -16.03 GP 4.48 ZAL 52.45 ZAP 172.11 ETS 32.65 ZAE 127.44 ETE 176.80 ZAC 66.80 ETC 11.76 CLP-173.50
PLANETOCENTRIC CONIC
C3 25.023 VHL 5.002 DLA -31.27 RAL 216.05 RAD 6568.0 VEL 12.100 PTH 2.17 VHP 8.647 DPA -.40 RAP 199.77 ECC 1.4118

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.14	11 36 49	1298.91	20.07	354.52	89.05	114.50	11 58 28	698.9	23.21	347.02
103.86	15 16 9	5882.52	20.08	280.39	89.06	114.49	16 54 12	5282.5	23.22	272.89
76.14	11 36 49	1298.91	20.07	354.52	89.05	114.50	11 58 28	698.9	23.21	347.02
103.86	15 16 9	5882.52	20.08	280.39	89.06	114.49	16 54 12	5282.5	23.22	272.89
110.00	14 10 0	801.10	10.49	312.79	83.64	122.72	14 23 21	201.1	14.73	306.26
110.00	17 42 9	5428.33	30.30	249.92	93.29	106.64	19 12 37	4828.3	32.28	241.27

DIFFERENTIAL CORRECTIONS
TDE-2.4159 TRA 3.0445 TC3-3.2651 BAU 1.0924
RDE .3996 RRA -.0057 RC3 -.0526 FAU .01884
FDE -.7992 FRA 1.3382 FC3 -.6517 BSP 18919
BDE 2.4487 BRA 3.0445 BC3 3.2656 FSP -616

MID-COURSE EXECUTION ACCURACY
SGT 5913.8 SGR 460.8 SG3 182.9
RRT -.4131 RRF -.4084 RTF .9571
SGB 5931.7 R23 .0121 R13 -.9572
SG1 5916.9 SG2 419.4 THA 178.15

ORBIT DETERMINATION ACCURACY
ST 3027.4 SR 457.7 SS 793.4
CRT -.9159 CRS .8644 CST -.9933
LSA 3156.2 MSA 204.6 SSA 15.8
EL1 3056.4 EL2 181.9 ALF 172.09

LAUNCH DATE JUN 27 1967 FLIGHT TIME 200.00 ARRIVAL DATE JAN 13 1968

HELIOCENTRIC CONIC DISTANCE 573.327
RL 152.07 LAL .00 LOL 274.68 VL 25.765 GAL 7.63 AZL 93.03 HCA 280.29 SMA 122.71 ECC .27185 INC 3.0296 V1 29.296
RP 107.88 LAP 2.98 LOP 194.98 VP 37.133 GAP 14.20 AZP 90.54 TAL 158.39 TAP 78.68 RCA 89.35 APO 156.06 V2 35.128
RC 171.722 GL -14.92 GP 4.35 ZAL 50.21 ZAP 172.95 ETS 36.04 ZAE 127.30 ETE 176.89 ZAC 64.62 ETC 11.77 CLP-174.45
PLANETOCENTRIC CONIC
C3 27.477 VHL 5.242 DLA -30.90 RAL 218.74 RAD 6568.1 VEL 12.201 PTH 2.19 VHP 8.964 DPA -1.44 RAP 201.79 ECC 1.4522

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.09	11 54 15	1300.88	19.19	354.24	93.15	114.69	12 15 56	700.9	22.36	346.80
102.91	15 20 8	638.85	19.21	305.40	93.16	114.68	15 30 47	38.8	22.37	297.96
77.09	11 54 15	1300.88	19.19	354.24	93.15	114.69	12 15 56	700.9	22.36	346.80
102.91	15 20 8	638.85	19.21	305.40	93.16	114.68	15 30 47	38.8	22.37	297.96
110.00	14 14 11	845.57	8.84	315.19	87.27	123.16	14 28 17	245.6	13.14	308.73
110.00	17 59 23	5430.20	30.26	250.06	97.75	106.71	19 29 53	4830.2	32.25	241.40

DIFFERENTIAL CORRECTIONS
TDE-2.4204 TRA 3.3742 TC3-2.9661 BAU 1.0897
RDE .4198 RRA -.0174 RC3 -.0428 FAU .01701
FDE -.7600 FRA 1.3854 FC3 -.5361 BSP 19027
BDE 2.4566 BRA 3.3742 BC3 2.9664 FSP -593

MID-COURSE EXECUTION ACCURACY
SGT 5928.0 SGR 461.6 SG3 175.4
RRT -.4275 RRF -.4216 RTF .9582
SGB 5946.0 R23 .0111 R13 -.9582
SG1 5931.3 SG2 417.1 THA 178.08

ORBIT DETERMINATION ACCURACY
ST 2944.6 SR 458.9 SS 763.0
CRT -.9046 CRS .8508 CST -.9934
LSA 3068.8 MSA 213.6 SSA 15.3
EL1 2973.8 EL2 193.7 ALF 171.94

LAUNCH DATE JUN 27 1967 FLIGHT TIME 202.00 ARRIVAL DATE JAN 15 1968

HELIOCENTRIC CONIC DISTANCE 578.552
RL 152.07 LAL .00 LOL 274.68 VL 25.726 GAL 8.37 AZL 92.97 HCA 283.51 SMA 122.48 ECC .27990 INC 2.9670 V1 29.296
RP 107.92 LAP 2.88 LOP 198.21 VP 37.094 GAP 14.79 AZP 90.69 TAL 157.03 TAP 80.54 RCA 88.20 APO 156.76 V2 35.116
RC 173.647 GL -13.84 GP 4.22 ZAL 48.07 ZAP 173.76 ETS 40.43 ZAE 127.16 ETE 176.97 ZAC 62.45 ETC 11.82 CLP-175.40
PLANETOCENTRIC CONIC
C3 30.311 VHL 5.506 DLA -30.49 RAL 221.28 RAD 6568.2 VEL 12.316 PTH 2.22 VHP 9.303 DPA -2.46 RAP 203.82 ECC 1.4988

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.20	12 12 27	1299.97	18.26	353.72	97.19	114.85	12 34 7	700.0	21.46	346.34
101.80	15 22 16	688.84	18.27	308.70	97.19	114.84	15 33 45	88.8	21.47	301.31
78.20	12 12 27	1299.97	18.26	353.72	97.19	114.85	12 34 7	700.0	21.46	346.34
101.80	15 22 16	688.84	18.27	308.70	97.19	114.84	15 33 45	88.8	21.47	301.31
110.00	14 17 41	892.06	7.10	317.66	90.82	123.53	14 32 33	292.1	11.46	311.28
110.00	18 16 12	5432.79	30.21	250.24	102.16	106.81	19 46 45	4832.8	32.21	241.60

DIFFERENTIAL CORRECTIONS
TDE-2.4194 TRA 3.7269 TC3-2.6698 BAU 1.0820
RDE .4403 RRA -.0310 RC3 -.0343 FAU .01518
FDE -.7219 FRA 1.4351 FC3 -.4336 BSP 19027
BDE 2.4592 BRA 3.7270 BC3 2.6701 FSP -567

MID-COURSE EXECUTION ACCURACY
SGT 5936.3 SGR 461.3 SG3 168.3
RRT -.4422 RRF -.4350 RTF .9593
SGB 5954.2 R23 .0098 R13 -.9594
SG1 5939.8 SG2 413.5 THA 178.02

ORBIT DETERMINATION ACCURACY
ST 2858.4 SR 458.3 SS 734.5
CRT -.8921 CRS .8358 CST -.9935
LSA 2978.3 MSA 222.7 SSA 14.7
EL1 2887.7 EL2 205.0 ALF 171.82

LAUNCH DATE JUN 27 1967 FLIGHT TIME 204.00 ARRIVAL DATE JAN 17 1968

HELIOCENTRIC CONIC DISTANCE 583.676
RL 152.07 LAL .00 LOL 274.68 VL 25.688 GAL 9.16 AZL 92.90 HCA 286.73 SMA 122.26 ECC .28866 INC 2.9028 V1 29.296
RP 107.96 LAP 2.78 LOP 201.43 VP 37.056 GAP 15.41 AZP 90.84 TAL 155.69 TAP 82.42 RCA 86.97 APO 157.55 V2 35.103
RC 175.555 GL -12.80 GP 4.11 ZAL 46.04 ZAP 174.50 ETS 46.17 ZAE 127.02 ETE 177.03 ZAC 60.28 ETC 11.91 CLP-176.35
PLANETOCENTRIC CONIC
C3 33.587 VHL 5.795 DLA -30.05 RAL 223.69 RAD 6568.3 VEL 12.448 PTH 2.25 VHP 9.668 DPA -3.47 RAP 205.86 ECC 1.5528

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.49	12 31 38	1295.29	17.28	352.89	101.15	114.98	12 53 14	695.3	20.50	345.57
100.51	15 22 16	745.17	17.29	312.42	101.16	114.97	15 34 42	145.2	20.52	305.10
79.49	12 31 38	1295.29	17.28	352.89	101.15	114.98	12 53 14	695.3	20.50	345.57
100.51	15 22 16	745.17	17.29	312.42	101.16	114.97	15 34 42	145.2	20.52	305.10
110.00	14 20 34	940.14	5.29	320.20	94.28	123.82	14 36 15	340.1	9.69	313.88
110.00	18 32 31	5436.35	30.14	250.49	106.52	106.95	20 3 7	4836.3	32.16	241.86

DIFFERENTIAL CORRECTIONS
TDE-2.4220 TRA 4.0961 TC3-2.3902 BAU 1.0733
RDE .4612 RRA -.0460 RC3 -.0268 FAU .01351
FDE -.6889 FRA 1.4844 FC3 -.3482 BSP 19119
BDE 2.4656 BRA 4.0964 BC3 2.3903 FSP -546

MID-COURSE EXECUTION ACCURACY
SGT 5941.2 SGR 460.0 SG3 161.7
RRT -.4580 RRF -.4498 RTF .9608
SGB 5959.0 R23 .0086 R13 -.9608
SG1 5945.0 SG2 408.7 THA 177.96

ORBIT DETERMINATION ACCURACY
ST 2776.8 SR 456.2 SS 710.1
CRT -.8792 CRS .8213 CST -.9937
LSA 2893.0 MSA 230.7 SSA 14.2
EL1 2805.8 EL2 215.1 ALF 171.73

LAUNCH DATE JUN 27 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 19 1968

HELIOCENTRIC CONIC DISTANCE 588.683
RL 152.07 LAL .00 LOL 274.68 VL 25.650 GAL 10.01 AZL 92.84 HCA 289.95 SMA 122.04 ECC .29822 INC 2.8364 V1 29.296
RP 107.99 LAP 2.67 LOP 204.65 VP 37.018 GAP 16.08 AZP 90.97 TAL 154.37 TAP 84.32 RCA 85.64 APO 158.43 V2 35.091
RC 177.448 GL -11.80 GP 4.01 ZAL 44.11 ZAP 175.17 ETS 53.75 ZAE 126.86 ETE 177.09 ZAC 58.12 ETC 12.04 CLP-177.30
PLANETOCENTRIC CONIC
C3 37.378 VHL 6.114 DLA -29.60 RAL 225.96 RAD 6568.5 VEL 12.599 PTH 2.29 VHP 10.061 DPA -4.45 RAP 207.90 ECC 1.6152

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.01	12 52 22	1284.98	16.26	351.63	105.04	115.07	13 13 47	685.0	19.50	344.36
98.99	15 19 38	809.49	16.27	316.71	105.05	115.07	15 33 7	209.5	19.52	309.44
100.00	14 51 59	897.93	13.01	321.61	103.39	117.15	15 6 57	297.9	16.55	314.61
100.00	16 2 41	671.78	19.58	308.04	106.60	113.05	16 13 53	71.8	22.53	300.49
110.00	14 22 57	989.47	3.41	322.79	97.67	124.03	14 39 27	389.5	7.86	316.52
110.00	18 48 13	5441.04	30.05	250.83	110.81	107.12	20 18 54	4841.0	32.09	242.21

DIFFERENTIAL CORRECTIONS
TDE-2.4238 TRA 4.4884 TC3-2.1221 BAU 1.0605
RDE .4823 RRA -.0629 RC3 -.0205 FAU .01187
FDE -.6587 FRA 1.5354 FC3 -.2750 BSP 19183
BDE 2.4713 BRA 4.4889 BC3 2.1222 FSP -526

MID-COURSE EXECUTION ACCURACY
SGT 5940.9 SGR 457.7 SG3 155.3
RRT -.4742 RRF -.4651 RTF .9624
SGB 5958.5 R23 .0075 R13 -.9624
SG1 5944.8 SG2 402.7 THA 177.90

ORBIT DETERMINATION ACCURACY
ST 2696.6 SR 452.4 SS 688.7
CRT -.8656 CRS .8066 CST -.9940
LSA 2809.6 MSA 238.0 SSA 13.7
EL1 2725.1 EL2 224.2 ALF 171.68

LAUNCH DATE JUN 27 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 21 1968

HELIOCENTRIC CONIC DISTANCE 593.554
RL 152.07 LAL .00 LOL 274.68 VL 25.612 GAL 10.91 AZL 92.77 HCA 293.16 SMA 121.82 ECC .30868 INC 2.7672 V1 29.296
RP 108.03 LAP 2.54 LOP 207.87 VP 36.980 GAP 16.80 AZP 91.09 TAL 153.09 TAP 86.25 RCA 84.22 APO 159.42 V2 35.078
RC 179.325 GL -10.83 GP 3.91 ZAL 42.29 ZAP 175.72 ETS 63.71 ZAE 126.68 ETE 177.15 ZAC 55.96 ETC 12.20 CLP-178.26
PLANETOCENTRIC CONIC
C3 41.775 VHL 6.463 DLA -29.12 RAL 228.08 RAD 6568.6 VEL 12.773 PTH 2.32 VHP 10.487 DPA -5.41 RAP 209.94 ECC 1.6875

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.91	13 15 46	1265.14	15.21	349.65	108.85	115.13	13 36 52	665.1	18.47	342.44
97.09	15 13 11	885.51	15.22	321.81	108.86	115.13	15 27 56	285.5	18.48	314.60
100.00	14 38 48	995.88	9.90	327.22	106.11	118.35	14 55 24	395.9	13.62	320.40
100.00	16 32 50	630.00	20.67	305.42	111.36	112.09	16 43 20	30.0	23.49	297.75
110.00	14 24 52	1039.76	1.49	325.42	100.99	124.15	14 42 12	439.8	5.96	319.18
110.00	19 3 16	5446.93	29.93	251.24	115.02	107.34	20 34 2	4846.9	32.01	242.65

DIFFERENTIAL CORRECTIONS
TDE-2.4258 TRA 4.9062 TC3-1.8670 BAU 1.0427
RDE .5034 RRA -.0815 RC3 -.0155 FAU .01027
FDE -.6313 FRA 1.5892 FC3 -.2128 BSP 19226
BDE 2.4775 BRA 4.9069 BC3 1.8670 FSP -506

MID-COURSE EXECUTION ACCURACY
SGT 5935.8 SGR 454.3 SG3 149.4
RRT -.4907 RRF -.4808 RTF .9642
SGB 5953.2 R23 .0064 R13 -.9642
SG1 5940.0 SG2 395.6 THA 177.84

ORBIT DETERMINATION ACCURACY
ST 2619.2 SR 447.0 SS 670.3
CRT -.8514 CRS .7916 CST -.9943
LSA 2729.3 MSA 244.3 SSA 13.2
EL1 2646.9 EL2 232.0 ALF 171.67

LAUNCH DATE JUN 27 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 23 1968

HELIOCENTRIC CONIC DISTANCE 598.265
RL 152.07 LAL .00 LOL 274.68 VL 25.576 GAL 11.88 AZL 92.69 HCA 296.37 SMA 121.61 ECC .32014 INC 2.6947 V1 29.296
RP 108.07 LAP 2.41 LOP 211.08 VP 36.942 GAP 17.58 AZP 91.20 TAL 151.85 TAP 88.22 RCA 82.68 APO 160.54 V2 35.065
RC 181.185 GL -9.89 GP 3.82 ZAL 40.59 ZAP 176.10 ETS 76.33 ZAE 126.48 ETE 177.19 ZAC 53.83 ETC 12.42 CLP-179.24
PLANETOCENTRIC CONIC
C3 46.888 VHL 6.848 DLA -28.63 RAL 230.07 RAD 6568.8 VEL 12.971 PTH 2.37 VHP 10.950 DPA -6.34 RAP 211.98 ECC 1.7717

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.59	13 45 28	1223.96	14.14	346.10	112.57	115.16	14 5 52	624.0	17.41	338.94
94.41	14 59 19	984.78	14.15	328.60	112.58	115.15	15 15 44	384.8	17.43	321.43
100.00	14 30 54	1076.46	7.27	331.75	108.99	119.08	14 48 50	476.5	11.09	325.05
100.00	16 56 34	607.51	21.24	303.99	115.79	111.54	17 6 42	7.5	23.98	296.26
110.00	14 26 21	1090.76	-.46	328.07	104.23	124.18	14 44 32	490.8	4.03	321.86
110.00	19 17 37	5454.02	29.78	251.75	119.15	107.61	20 48 31	4854.0	31.90	243.17

DIFFERENTIAL CORRECTIONS
TDE-2.4258 TRA 5.3549 TC3-1.6235 BAU 1.0177
RDE .5244 RRA -.1021 RC3 -.0116 FAU .00863
FDE -.6055 FRA 1.6470 FC3 -.1594 BSP 19169
BDE 2.4819 BRA 5.3559 BC3 1.6235 FSP -485

MID-COURSE EXECUTION ACCURACY
SGT 5926.4 SGR 449.8 SG3 143.8
RRT -.5073 RRF -.4966 RTF .9661
SGB 5943.5 R23 .0051 R13 -.9662
SG1 5930.8 SG2 387.3 THA 177.79

ORBIT DETERMINATION ACCURACY
ST 2543.6 SR 439.8 SS 654.5
CRT -.8362 CRS .7760 CST -.9946
LSA 2651.3 MSA 249.6 SSA 12.7
EL1 2570.3 EL2 238.7 ALF 171.70

LAUNCH DATE JUN 27 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 25 1968

HELIOCENTRIC CONIC DISTANCE 602.786
RL 152.07 LAL .00 LOL 274.68 VL 25.539 GAL 12.94 AZL 92.62 HCA 299.58 SMA 121.41 ECC .33275 INC 2.6182 V1 29.296
RP 108.11 LAP 2.28 LOP 214.29 VP 36.904 GAP 18.43 AZP 91.29 TAL 150.66 TAP 90.24 RCA 81.01 APO 161.80 V2 35.052
RC 183.028 GL -9.00 GP 3.74 ZAL 38.99 ZAP 176.25 ETS 91.07 ZAE 126.26 ETE 177.24 ZAC 51.71 ETC 12.67 CLP 179.76
PLANETOCENTRIC CONIC
C3 52.854 VHL 7.270 DLA -28.13 RAL 231.91 RAD 6568.9 VEL 13.199 PTH 2.41 VHP 11.455 DPA -7.25 RAP 214.01 ECC 1.8698

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	14 1 6	1227.20	10.37	344.48	114.88	116.50	14 21 33	627.2	13.85	337.52
90.00	14 58 24	1041.26	15.77	333.49	117.48	113.83	15 15 45	441.3	18.86	326.18
100.00	14 25 3	1149.71	4.82	335.82	111.90	119.54	14 44 13	549.7	8.72	329.20
100.00	17 17 8	5882.03	21.57	281.03	120.02	111.21	18 55 10	5282.0	24.26	273.26
110.00	14 27 26	1142.25	-2.43	330.76	107.41	124.11	14 46 28	542.3	2.07	324.56
110.00	19 31 15	5462.25	29.61	252.33	123.18	107.91	21 2 17	4862.2	31.77	243.78

DIFFERENTIAL CORRECTIONS
TDE-2.4326 TRA 5.8293 TC3-1.3999 BAU .9892
RDE .5456 RRA -.1243 RC3 -.0087 FAU .00710
FDE -.5845 FRA 1.7068 FC3 -.1162 BSP 19245
BDE 2.4930 BRA 5.8306 BC3 1.3999 FSP -467

MID-COURSE EXECUTION ACCURACY
SGT 5912.4 SGR 444.2 SG3 138.4
RRT -.5243 RRF -.5132 RTF .9683
SGB 5929.0 R23 .0040 R13 -.9683
SG1 5917.0 SG2 378.0 THA 177.73

ORBIT DETERMINATION ACCURACY
ST 2474.2 SR 431.2 SS 642.6
CRT -.8213 CRS .7617 CST -.9950
LSA 2580.0 MSA 253.2 SSA 12.2
EL1 2499.6 EL2 243.5 ALF 171.77

LAUNCH DATE JUN 27 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 27 1968

DISTANCE 607.080

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 25.504 GAL 14.08 AZL 92.54 HCA 302.79 SMA 121.21 ECC .34665 INC 2.5366 V1 29.296
RP 108.16 LAP 2.13 LOP 217.50 VP 36.867 GAP 19.36 AZP 91.37 TAL 149.52 TAP 92.32 RCA 79.19 APO 163.22 V2 35.039
RC 184.853 GL -8.14 GP 3.67 ZAL 37.52 ZAP 176.12 ETS 106.29 ZAE 126.01 ETE 177.28 ZAC 49.62 ETC 12.98 CLP 178.74

PLANETOCENTRIC CONIC
C3 59.843 VHL 7.736 DLA -27.62 RAL 233.61 RAD 6569.1 VEL 13.461 PTH 2.46 VHP 12.009 OPA -8.12 RAP 216.03 ECC 1.9849

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 41 22	1344.39	6.74	351.17	117.11	117.57	14 3 46	744.4	10.38	344.38
90.00	15 31 43	985.12	17.28	330.07	122.17	112.78	15 48 8	385.1	20.22	322.63
100.00	14 20 15	1218.69	2.50	339.62	114.79	119.80	14 40 34	618.7	6.45	333.06
100.00	17 35 30	5874.09	21.77	280.52	124.08	111.01	19 13 25	5274.1	24.43	272.73
110.00	14 28 6	1194.05	-4.40	333.47	110.50	123.93	14 48 0	594.0	.09	327.26
110.00	19 44 9	5471.50	29.42	252.97	127.10	108.25	21 15 20	4871.5	31.62	244.46

DIFFERENTIAL CORRECTIONS
TDE-2.4432 TRA 6.3380 TC3-1.1900 BAU .9521
ROE .5665 RRA -.1482 RC3 -.0067 FAU .00556
FOE -.5665 FRA 1.7710 FC3 -.0804 BSP 19236
BOE 2.5080 BRA 6.3397 BC3 1.1900 FSP -451

MID-COURSE EXECUTION ACCURACY
SGT 5893.4 SGR 437.6 SG3 133.4
RRT -.5415 RRF -.5302 RTF .9707
SGB 5909.7 R23 .0029 R13 -.9707
SG1 5898.2 SG2 367.6 THA 177.69

ORBIT DETERMINATION ACCURACY
ST 2409.1 SR 421.3 SS 633.9
CRT -.8064 CRS .7481 CST -.9955
LSA 2513.5 MSA 255.2 SSA 11.7
EL1 2433.2 EL2 246.6 ALF 171.89

LAUNCH DATE JUN 27 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 29 1968

DISTANCE 611.101

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 25.470 GAL 15.32 AZL 92.45 HCA 306.00 SMA 121.01 ECC .36202 INC 2.4490 V1 29.296
RP 108.20 LAP 1.98 LOP 220.70 VP 36.831 GAP 20.37 AZP 91.44 TAL 148.46 TAP 94.46 RCA 77.20 APO 164.82 V2 35.025
RC 186.660 GL -7.31 GP 3.60 ZAL 36.16 ZAP 175.72 ETS 119.97 ZAE 125.73 ETE 177.31 ZAC 47.57 ETC 13.34 CLP 177.69

PLANETOCENTRIC CONIC
C3 68.068 VHL 8.250 DLA -27.10 RAL 235.17 RAD 6569.3 VEL 13.763 PTH 2.51 VHP 12.620 OPA -8.97 RAP 218.03 ECC 2.1202

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 30 0	1433.41	3.91	356.18	119.65	118.07	13 53 54	833.4	7.63	349.48
90.00	15 55 31	958.12	17.99	328.40	126.36	112.24	16 11 30	358.1	20.85	320.89
100.00	14 16 1	1284.77	.26	343.25	117.63	119.89	14 37 26	684.8	4.23	336.72
100.00	17 52 12	5870.04	21.87	280.26	127.99	110.90	19 30 2	5270.0	24.51	272.46
110.00	14 28 23	1245.95	-6.37	336.21	113.52	123.66	14 49 9	645.9	-1.90	329.97
110.00	19 56 19	5481.62	29.20	253.68	130.91	108.62	21 27 41	4881.6	31.46	245.21

DIFFERENTIAL CORRECTIONS
TDE-2.4579 TRA 6.8851 TC3 -.9955 BAU .9060
ROE .5873 RRA -.1740 RC3 -.0055 FAU .00399
FOE -.5512 FRA 1.8408 FC3 -.0507 BSP 19233
BOE 2.5271 BRA 6.8873 BC3 .9955 FSP -435

MID-COURSE EXECUTION ACCURACY
SGT 5870.5 SGR 429.9 SG3 128.6
RRT -.5588 RRF -.5473 RTF .9732
SGB 5886.2 R23 .0018 R13 -.9732
SG1 5875.4 SG2 356.3 THA 177.65

ORBIT DETERMINATION ACCURACY
ST 2347.9 SR 409.9 SS 628.4
CRT -.7916 CRS .7351 CST -.9960
LSA 2451.5 MSA 255.7 SSA 11.2
EL1 2370.4 EL2 248.1 ALF 172.04

LAUNCH DATE JUN 27 1967 FLIGHT TIME 218.00 ARRIVAL DATE JAN 31 1968

DISTANCE 614.791

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 25.436 GAL 16.67 AZL 92.35 HCA 309.20 SMA 120.82 ECC .37909 INC 2.3541 V1 29.296
RP 108.24 LAP 1.82 LOP 223.91 VP 36.795 GAP 21.50 AZP 91.49 TAL 147.49 TAP 96.69 RCA 75.02 APO 166.63 V2 35.012
RC 188.449 GL -6.52 GP 3.54 ZAL 34.93 ZAP 175.10 ETS 131.10 ZAE 125.39 ETE 177.35 ZAC 45.57 ETC 13.75 CLP 176.60

PLANETOCENTRIC CONIC
C3 77.800 VHL 8.820 DLA -26.58 RAL 236.59 RAD 6569.5 VEL 14.112 PTH 2.57 VHP 13.296 OPA -9.78 RAP 220.01 ECC 2.2804

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 21 26	1512.07	1.38	.58	122.22	118.29	13 46 38	912.1	5.15	353.93
90.00	16 15 23	942.09	18.40	327.40	130.27	111.91	16 31 6	342.1	21.21	319.86
100.00	14 12 2	1348.62	-1.91	346.75	120.40	119.84	14 34 31	748.6	2.08	340.23
100.00	18 7 28	5868.81	21.90	280.18	131.73	110.87	19 45 17	5268.8	24.54	272.38
110.00	14 28 14	1297.78	-8.31	338.96	116.45	123.28	14 49 52	697.8	-3.88	332.68
110.00	20 7 46	5492.41	28.96	254.43	134.57	109.00	21 39 18	4892.4	31.28	245.99

DIFFERENTIAL CORRECTIONS
TDE-2.4744 TRA 7.4789 TC3 -.8141 BAU .8467
ROE .6076 RRA -.2016 RC3 -.0051 FAU .00231
FOE -.5378 FRA 1.9180 FC3 -.0257 BSP 19118
BOE 2.5479 BRA 7.4816 BC3 .8141 FSP -416

MID-COURSE EXECUTION ACCURACY
SGT 5844.1 SGR 421.1 SG3 124.2
RRT -.5758 RRF -.5643 RTF .9757
SGB 5859.3 R23 .0007 R13 -.9758
SG1 5849.2 SG2 344.0 THA 177.62

ORBIT DETERMINATION ACCURACY
ST 2289.3 SR 397.1 SS 625.8
CRT -.7765 CRS .7223 CST -.9965
LSA 2392.8 MSA 254.7 SSA 10.7
EL1 2310.3 EL2 248.0 ALF 172.24

LAUNCH DATE JUN 27 1967 FLIGHT TIME 220.00 ARRIVAL DATE FEB 2 1968

DISTANCE 618.074

HELIOCENTRIC CONIC
RL 152.07 LAL .00 LOL 274.68 VL 25.404 GAL 18.17 AZL 92.25 HCA 312.40 SMA 120.64 ECC .39809 INC 2.2501 V1 29.296
RP 108.28 LAP 1.66 LOP 227.10 VP 36.760 GAP 22.75 AZP 91.52 TAL 146.61 TAP 99.02 RCA 72.62 APO 168.67 V2 34.999
RC 190.221 GL -5.75 GP 3.48 ZAL 33.83 ZAP 174.29 ETS 139.72 ZAE 125.01 ETE 177.39 ZAC 43.61 ETC 14.21 CLP 175.47

PLANETOCENTRIC CONIC
C3 89.383 VHL 9.454 DLA -26.05 RAL 237.86 RAD 6569.7 VEL 14.516 PTH 2.63 VHP 14.049 OPA -10.55 RAP 221.95 ECC 2.4710

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 14 11	1584.82	-.97	4.64	124.77	118.30	13 40 36	984.8	2.82	358.01
90.00	16 32 45	932.14	18.65	326.78	133.96	111.70	16 48 17	332.1	21.43	319.21
100.00	14 8 7	1410.63	-4.00	350.16	123.09	119.65	14 31 38	810.6	-.02	343.63
100.00	18 21 29	5869.61	21.88	280.23	135.30	110.89	19 59 19	5269.6	24.52	272.43
110.00	14 27 39	1349.37	-10.23	341.72	119.29	122.80	14 50 8	749.4	-5.83	335.39
110.00	20 18 27	5503.63	28.71	255.21	138.07	109.40	21 50 11	4903.6	31.08	246.81

DIFFERENTIAL CORRECTIONS
TDE-2.5041 TRA 8.1159 TC3 -.6500 BAU .7767
ROE .6279 RRA -.2306 RC3 -.0051 FAU .00061
FOE -.5293 FRA 2.0014 FC3 -.0059 BSP 19107
BOE 2.5816 BRA 8.1191 BC3 .6500 FSP -402

MID-COURSE EXECUTION ACCURACY
SGT 5812.4 SGR 411.2 SG3 119.9
RRT -.5929 RRF -.5817 RTF .9784
SGB 5827.0 R23 -.0003 R13 -.9784
SG1 5817.6 SG2 330.8 THA 177.59

ORBIT DETERMINATION ACCURACY
ST 2236.5 SR 383.4 SS 627.1
CRT -.7629 CRS .7117 CST -.9970
LSA 2340.6 MSA 251.7 SSA 10.2
EL1 2255.7 EL2 245.8 ALF 172.46

LAUNCH DATE JUN 28 1967 FLIGHT TIME 70.00 ARRIVAL DATE SEP 6 1967

HELIOCENTRIC CONIC DISTANCE 169.820

RL	152.08	LAL	.00	LOL	275.63	VL	24.319	GAL	-4.09	AZL	93.58	HCA	71.51	SMA	115.01	ECC	.32931	INC	3.5787	V1	29.295
RP	108.80	LAP	-3.39	LOP	347.11	VP	35.856	GAP	-18.99	AZP	91.14	TAL	188.41	TAP	259.93	RCA	77.13	APO	152.88	V2	34.830
RC	43.796	GL	-15.68	GP	-3.45	ZAL	108.66	ZAP	5.77	ETS	143.01	ZAE	158.33	ETE	23.27	ZAC	94.39	ETC	13.70	CLP	4.62

PLANETOCENTRIC CONIC

C3	31.370	VHL	5.601	DLA	-9.02	RAL	161.22	RAD	6568.2	VEL	12.359	PTH	2.23	VHP	11.584	DPA	3.22	RAP	172.37	ECC	1.5163		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 53 10	2041.52	-15.03	30.81	28.24	114.28	5 27 12	1441.5	-11.62	23.79
90.00	14 34 30	5252.58	26.77	236.96	33.54	80.42	16 2 2	4652.6	25.18	228.66
100.00	6 10 7	1793.30	-16.23	11.99	27.67	115.45	6 40 0	1193.3	-12.67	5.00
100.00	16 0 14	4976.03	28.07	216.36	33.28	79.28	17 23 10	4376.0	26.31	208.01
110.00	7 8 20	1611.01	-19.40	356.45	25.96	118.72	7 35 11	1011.0	-15.41	349.59
110.00	17 18 31	4731.09	31.55	196.89	32.40	76.11	18 37 22	4131.1	29.32	188.39

DIFFERENTIAL CORRECTIONS

TDE	.3480	TRA	-.5637	TC3	.2707	BAU	.1192
RDE	-.3789	RRA	-.1452	RC3	.0861	FAU	.02463
FDE	-.2981	FRA	.1214	FC3	-.6798	BSP	2014
BDE	.5145	BRA	.5822	BC3	.2841	FSP	-165

MID-COURSE EXECUTION ACCURACY

SGT	748.1	SGR	426.8	SG3	71.7		
RRT	-.0654	RRF	.0728	RTF	-.6651		
SGB	861.3	R23	-.0085	R13	.6657		
SG1	748.9	SG2	425.4	THA	176.84		

ORBIT DETERMINATION ACCURACY

ST	396.9	SR	390.2	SS	308.3
CRT	-.8398	CRS	-.9683	CST	.9435
LSA	616.1	MSA	158.1	SSA	18.3
EL1	533.8	EL2	157.5	ALF	135.58

LAUNCH DATE JUN 28 1967 FLIGHT TIME 72.00 ARRIVAL DATE SEP 8 1967

HELIOCENTRIC CONIC DISTANCE 176.531

RL	152.08	LAL	.00	LOL	275.63	VL	24.625	GAL	-4.12	AZL	93.51	HCA	74.68	SMA	116.52	ECC	.31273	INC	3.5111	V1	29.295		
RP	108.78	LAP	-3.39	LOP	350.29	VP	36.072	GAP	-17.83	AZP	90.93	TAL	189.15	TAP	263.84	RCA	80.08	APO	152.96	V2	34.838		
RC	44.440	GL	-16.38	GP	-3.64	ZAL	110.02	ZAP	4.51	ETS	125.79	ZAE	156.41	ETE	20.51	ZAC	93.27	ETC	13.68	CLP	2.66		

PLANETOCENTRIC CONIC

C3	28.449	VHL	5.334	DLA	-9.10	RAL	159.61	RAD	6568.1	VEL	12.240	PTH	2.20	VHP	10.931	DPA	2.56	RAP	173.40	ECC	1.4682		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 47 22	2014.42	-14.26	29.19	25.05	114.72	5 20 56	1414.4	-10.81	22.21
90.00	14 27 25	5230.69	26.52	235.41	30.12	79.68	15 54 35	4630.7	24.82	227.15
100.00	6 4 15	1766.34	-15.43	10.38	24.48	115.92	6 33 42	1166.3	-11.82	3.45
100.00	15 53 12	4953.99	27.78	214.79	29.85	78.50	17 15 46	4354.0	25.92	206.49
110.00	7 2 23	1584.35	-18.52	354.88	22.79	119.26	7 28 47	984.4	-14.48	348.10
110.00	17 11 34	4708.75	31.17	195.26	28.94	75.21	18 30 3	4108.7	28.83	186.84

DIFFERENTIAL CORRECTIONS

TDE	.3488	TRA	-.5357	TC3	.3301	BAU	.1302
RDE	-.3636	RRA	-.1371	RC3	.0905	FAU	.02635
FDE	-.3168	FRA	.1018	FC3	-.8018	BSP	2128
BDE	.5038	BRA	.5530	BC3	.3423	FSP	-188

MID-COURSE EXECUTION ACCURACY

SGT	777.2	SGR	429.1	SG3	80.1		
RRT	-.0762	RRF	.0850	RTF	-.6845		
SGB	887.8	R23	-.0103	R13	.6852		
SG1	778.2	SG2	427.3	THA	176.55		

ORBIT DETERMINATION ACCURACY

ST	413.6	SR	393.1	SS	323.9
CRT	-.8517	CRS	-.9744	CST	.9419
LSA	636.9	MSA	156.6	SSA	19.1
EL1	549.1	EL2	155.2	ALF	136.70

LAUNCH DATE JUN 28 1967 FLIGHT TIME 74.00 ARRIVAL DATE SEP 10 1967

HELIOCENTRIC CONIC DISTANCE 183.258

RL	152.08	LAL	.00	LOL	275.63	VL	24.904	GAL	-4.16	AZL	93.45	HCA	77.85	SMA	117.96	ECC	.29751	INC	3.4455	V1	29.295		
RP	108.75	LAP	-3.37	LOP	353.47	VP	36.271	GAP	-16.74	AZP	90.73	TAL	189.96	TAP	267.81	RCA	82.86	APO	153.05	V2	34.846		
RC	45.237	GL	-17.03	GP	-3.86	ZAL	111.48	ZAP	3.91	ETS	99.24	ZAE	154.61	ETE	18.14	ZAC	92.19	ETC	13.66	CLP	.66		

PLANETOCENTRIC CONIC

C3	25.974	VHL	5.096	DLA	-9.11	RAL	157.91	RAD	6568.1	VEL	12.139	PTH	2.18	VHP	10.309	DPA	1.89	RAP	174.39	ECC	1.4275		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 40 39	1991.62	-13.61	27.84	21.92	115.07	5 13 51	1391.6	-10.12	20.90
90.00	14 20 37	5208.23	26.23	233.83	26.74	78.93	15 47 25	4608.2	24.44	225.62
100.00	5 57 33	1743.56	-14.75	9.03	21.35	116.30	6 26 36	1143.6	-11.10	2.14
100.00	15 46 25	4931.53	27.47	213.19	26.46	77.72	17 8 36	4331.5	25.50	204.95
110.00	6 55 39	1561.59	-17.75	353.56	19.69	119.70	7 21 41	961.6	-13.67	346.83
110.00	17 4 47	4686.26	30.77	193.63	25.51	74.32	18 22 53	4086.3	28.32	185.29

DIFFERENTIAL CORRECTIONS

TDE	.3490	TRA	-.5075	TC3	.3947	BAU	.1408
RDE	-.3497	RRA	-.1297	RC3	.0934	FAU	.02829
FDE	-.3372	FRA	.0783	FC3	-.9429	BSP	2246
BDE	.4941	BRA	.5238	BC3	.4056	FSP	-214

MID-COURSE EXECUTION ACCURACY

SGT	806.0	SGR	430.7	SG3	89.6		
RRT	-.0882	RRF	.0994	RTF	-.7022		
SGB	913.8	R23	-.0131	R13	.7031		
SG1	807.2	SG2	428.3	THA	176.24		

ORBIT DETERMINATION ACCURACY

ST	429.1	SR	395.7	SS	339.4
CRT	-.8631	CRS	-.9800	CST	.9399
LSA	656.9	MSA	154.9	SSA	20.1
EL1	563.5	EL2	152.2	ALF	137.68

LAUNCH DATE JUN 28 1967 FLIGHT TIME 76.00 ARRIVAL DATE SEP 12 1967

HELIOCENTRIC CONIC DISTANCE 189.997

RL	152.08	LAL	.00	LOL	275.63	VL	25.160	GAL	-4.22	AZL	93.38	HCA	81.03	SMA	119.31	ECC	.28361	INC	3.3814	V1	29.295		
RP	108.72	LAP	-3.34	LOP	356.65	VP	36.456	GAP	-15.69	AZP	90.53	TAL	190.82	TAP	271.85	RCA	85.47	APO	153.15	V2	34.856		
RC	46.178	GL	-17.63	GP	-4.09	ZAL	113.01	ZAP	4.32	ETS	70.66	ZAE	152.97	ETE	16.06	ZAC	91.16	ETC	13.66	CLP	-1.39		

PLANETOCENTRIC CONIC

C3	23.879	VHL	4.887	DLA	-9.04	RAL	156.17	RAD	6568.0	VEL	12.052	PTH	2.15	VHP	9.717	DPA	1.23	RAP	175.31	ECC	1.3930		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 33 8	1973.18	-13.07	26.74	18.87	115.34	5 6 1	1373.2	-9.55	19.83
90.00	14 14 12	5185.27	25.92	232.22	23.43	78.19	15 40 38	4585.3	24.03	224.06
100.00	5 50 4	1724.99	-14.18	7.94	18.31	116.59	6 18 49	1125.0	-10.50	1.09
100.00	15 39 58	4908.69	27.13	211.58	23.13	76.93	17 1 46	4308.7	25.06	203.39
110.00	6 48 16	1542.76	-17.11	352.47	16.67	120.05	7 13 58	942.8	-12.99	345.79
110.00	16 58 15	4663.69	30.35	192.01	22.16	73.45	18 15 59	4063.7	27.78	183.75

DIFFERENTIAL CORRECTIONS

TDE	.3497	TRA	-.4778	TC3	.4659	BAU	.1518
RDE	-.3373	RRA	-.1231	RC3	.0944	FAU	.03048
FDE	-.3592	FRA	.0507	FC3	-1.1052	BSP	2373
BDE	.4858	BRA	.4934	BC3	.4754	FSP	-245

MID-COURSE EXECUTION ACCURACY

SGT	835.0	SGR	431.6	SG3	100.3		
RRT	-.1034	RRF	.1160	RTF	-.7208		
SGB	939.9	R23	-.0149	R13	.7218		
SG1	836.6	SG2	428.4	THA	175.85		

ORBIT DETERMINATION ACCURACY

ST	444.1	SR	397.9	SS	354.9
CRT	-.8751	CRS	-.9848	CST	.9383
LSA	676.6	MSA	152.7	SSA	21.1
EL1	577.6	EL2	148.1	ALF	138.59

LAUNCH DATE JUN 28 1967 FLIGHT TIME 78.00 ARRIVAL DATE SEP 14 1967

HELIOCENTRIC CONIC DISTANCE 196.743

```
RL  152.08 LAL    .00 LOL 275.63 VL  25.392 GAL  -4.29 AZL  93.32 HCA  84.20 SMA 120.59 ECC .27094 INC 3.3184 VI  29.295
RP  108.69 LAP  -3.30 LOP 359.83 VP  36.626 GAP -14.69 AZP  90.34 TAL 191.73 TAP 275.93 RCA  87.91 APO 153.26 V2  34.865
RC  47.255 GL  -18.16 GP   -4.35 ZAL 114.59 ZAP   5.58 ETS  50.55 ZAE 151.50 ETE  14.19 ZAC  90.19 ETC  13.67 CLP  -3.50
```

PLANETOCENTRIC CONIC

```
C3  22.108 VHL  4.702 DLA  -8.89 RAL 154.39 RAD 6567.9 VEL 11.979 PTH   2.13 VHP  9.153 DPA    .55 RAP 176.18 ECC 1.3638
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 24 55	1959.03	-12.66	25.91	15.92	115.54	4 57 34	1359.0	-9.12	19.02
90.00	14 8 15	5161.89	25.59	230.59	20.21	77.43	15 34 17	4561.9	23.60	222.48
100.00	5 41 56	1710.60	-13.74	7.10	15.37	116.81	6 10 26	1110.6	-10.04	.27
100.00	15 33 56	4885.56	26.76	209.96	19.90	76.16	16 55 22	4285.6	24.59	201.83
110.00	6 40 18	1527.82	-16.60	351.62	13.76	120.32	7 5 46	927.8	-12.45	344.97
110.00	16 52 3	4641.09	29.90	190.40	18.91	72.60	18 9 24	4041.1	27.23	182.23

DIFFERENTIAL CORRECTIONS

```
TOE  .3489 TRA -.4497 TC3  .5376 BAU  .1613
ROE -.3261 RRA -.1172 RC3  .0929 FAU .03296
FOE -.3825 FRA  .0186 FC3-1.2907 BSP  2472
BOE  .4776 BRA  .4647 BC3  .5456 FSP  -279
```

MID-COURSE EXECUTION ACCURACY

```
SGT  862.5 SGR  431.8 SG3  112.4
RRT -.1197 RRF  .1350 RTF -.7351
SGB  964.6 R23 -.0185 R13  .7364
SG1  864.6 SG2  427.7 THA 175.46
```

ORBIT DETERMINATION ACCURACY

```
ST   456.8 SR   399.8 SS   369.7
CRT -.8854 CRS -.9888 CST  .9357
LSA  694.2 MSA  151.0 SSA   22.1
EL1  589.7 EL2  143.9 ALF 139.30
```

LAUNCH DATE JUN 28 1967 FLIGHT TIME 80.00 ARRIVAL DATE SEP 16 1967

HELIOCENTRIC CONIC DISTANCE 203.492

```
RL  152.08 LAL    .00 LOL 275.63 VL  25.604 GAL  -4.36 AZL  93.26 HCA  87.38 SMA 121.78 ECC .25946 INC 3.2560 VI  29.295
RP  108.66 LAP  -3.25 LOP   3.01 VP  36.783 GAP -13.73 AZP  90.15 TAL 192.68 TAP 280.05 RCA  90.18 APO 153.38 V2  34.875
RC  48.458 GL  -18.63 GP   -4.65 ZAL 116.20 ZAP   7.33 ETS  38.54 ZAE 150.24 ETE  12.49 ZAC  89.30 ETC  13.69 CLP  -5.68
```

PLANETOCENTRIC CONIC

```
C3  20.612 VHL  4.540 DLA  -8.68 RAL 152.61 RAD 6567.8 VEL 11.916 PTH   2.12 VHP  8.616 DPA   -.12 RAP 176.98 ECC 1.3392
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 16 9	1949.02	-12.37	25.32	13.09	115.68	4 48 38	1349.0	-8.81	18.45
90.00	14 2 51	5138.17	25.22	228.95	17.11	76.69	15 28 29	4538.2	23.14	220.90
100.00	5 33 16	1700.22	-13.42	6.49	12.55	116.96	6 1 37	1100.2	-9.70	359.68
100.00	15 28 24	4862.20	26.37	208.34	16.79	75.39	16 49 27	4262.2	24.10	200.27
110.00	6 31 54	1516.65	-16.22	350.98	10.97	120.51	6 57 10	916.7	-12.05	344.35
110.00	16 46 16	4618.53	29.43	188.81	15.77	71.76	18 3 15	4018.5	26.65	180.73

DIFFERENTIAL CORRECTIONS

```
TOE  .3477 TRA -.4210 TC3  .6126 BAU  .1706
ROE -.3162 RRA -.1123 RC3  .0886 FAU .03579
FOE -.4080 FRA -.0191 FC3-1.5032 BSP  2577
BOE  .4700 BRA  .4357 BC3  .6190 FSP  -319
```

MID-COURSE EXECUTION ACCURACY

```
SGT  889.3 SGR  431.6 SG3  126.1
RRT -.1390 RRF  .1575 RTF -.7492
SGB  988.5 R23 -.0226 R13  .7508
SG1  891.9 SG2  426.1 THA 175.00
```

ORBIT DETERMINATION ACCURACY

```
ST   467.8 SR   401.4 SS   384.6
CRT -.8955 CRS -.9920 CST  .9329
LSA  710.6 MSA  149.4 SSA   23.1
EL1  600.5 EL2  139.2 ALF 139.87
```

LAUNCH DATE JUN 28 1967 FLIGHT TIME 82.00 ARRIVAL DATE SEP 18 1967

HELIOCENTRIC CONIC DISTANCE 210.240

```
RL  152.08 LAL    .00 LOL 275.63 VL  25.796 GAL  -4.44 AZL  93.19 HCA  90.56 SMA 122.89 ECC .24909 INC 3.1939 VI  29.295
RP  108.63 LAP  -3.19 LOP   6.19 VP  36.927 GAP -12.82 AZP  89.97 TAL 193.65 TAP 284.21 RCA  92.28 APO 153.50 V2  34.886
RC  49.776 GL  -19.01 GP   -4.97 ZAL 117.83 ZAP   9.35 ETS  31.20 ZAE 149.19 ETE  10.91 ZAC  88.48 ETC  13.73 CLP  -7.93
```

PLANETOCENTRIC CONIC

```
C3  19.349 VHL  4.399 DLA  -8.41 RAL 150.86 RAD 6567.8 VEL 11.863 PTH   2.10 VHP  8.106 DPA   -.79 RAP 177.68 ECC 1.3184
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 6 58	1942.90	-12.19	24.97	10.40	115.76	4 39 21	1342.9	-8.62	18.10
90.00	13 58 1	5114.19	24.84	227.30	14.15	75.95	15 23 15	4514.2	22.66	219.30
100.00	5 24 14	1693.62	-13.22	6.11	9.87	117.06	5 52 28	1093.6	-9.49	359.31
100.00	15 23 26	4838.70	25.96	206.71	13.83	74.63	16 44 5	4238.7	23.59	198.71
110.00	6 23 11	1509.03	-15.95	350.55	8.32	120.64	6 48 20	909.0	-11.77	343.94
110.00	16 40 58	4596.06	28.94	187.25	12.79	70.95	17 57 34	3996.1	26.07	179.24

DIFFERENTIAL CORRECTIONS

```
TOE  .3454 TRA -.3927 TC3  .6871 BAU  .1790
ROE -.3074 RRA -.1081 RC3  .0810 FAU .03898
FOE -.4355 FRA -.0622 FC3-1.7441 BSP  2678
BOE  .4624 BRA  .4073 BC3  .6918 FSP  -364
```

MID-COURSE EXECUTION ACCURACY

```
SGT  913.9 SGR  430.9 SG3  141.5
RRT -.1613 RRF  .1835 RTF -.7618
SGB 1010.4 R23 -.0273 R13  .7638
SG1  917.2 SG2  423.7 THA 174.47
```

ORBIT DETERMINATION ACCURACY

```
ST   476.3 SR   402.7 SS   399.0
CRT -.9046 CRS -.9943 CST  .9298
LSA  725.0 MSA  148.2 SSA   24.1
EL1  609.1 EL2  134.2 ALF 140.28
```

LAUNCH DATE JUN 28 1967 FLIGHT TIME 84.00 ARRIVAL DATE SEP 20 1967

HELIOCENTRIC CONIC DISTANCE 216.985

```
RL  152.08 LAL    .00 LOL 275.63 VL  25.970 GAL  -4.51 AZL  93.13 HCA  93.74 SMA 123.93 ECC .23975 INC 3.1317 VI  29.295
RP  108.59 LAP  -3.13 LOP   9.38 VP  37.059 GAP -11.94 AZP  89.80 TAL 194.64 TAP 288.38 RCA  94.21 APO 153.64 V2  34.897
RC  51.201 GL  -19.32 GP   -5.34 ZAL 119.44 ZAP  11.56 ETS  26.43 ZAE 148.38 ETE   9.40 ZAC  87.77 ETC  13.77 CLP -10.27
```

PLANETOCENTRIC CONIC

```
C3  18.283 VHL  4.276 DLA  -8.07 RAL 149.15 RAD 6567.7 VEL 11.818 PTH   2.09 VHP  7.622 DPA  -1.47 RAP 178.30 ECC 1.3009
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 57 30	1940.36	-12.11	24.82	7.87	115.79	4 29 51	1340.4	-8.54	17.95
90.00	13 53 50	5090.06	24.43	225.65	11.35	75.22	15 18 40	4490.1	22.16	217.71
100.00	5 14 57	1690.52	-13.12	5.93	7.35	117.10	5 43 7	1090.5	-9.39	359.13
100.00	15 19 4	4815.13	25.52	205.10	11.02	73.88	16 39 19	4215.1	23.06	197.16
110.00	6 14 18	1504.68	-15.80	350.30	5.83	120.71	6 39 23	904.7	-11.61	343.70
110.00	16 36 12	4573.74	28.43	185.71	9.96	70.17	17 52 26	3973.7	25.46	177.79

DIFFERENTIAL CORRECTIONS

```
TOE  .3421 TRA -.3650 TC3  .7603 BAU  .1866
ROE -.2997 RRA -.1049 RC3  .0695 FAU .04263
FOE -.4654 FRA -.1122 FC3-2.0186 BSP  2772
BOE  .4548 BRA  .3798 BC3  .7635 FSP  -416
```

MID-COURSE EXECUTION ACCURACY

```
SGT  936.5 SGR  430.0 SG3  159.1
RRT -.1870 RRF  .2140 RTF -.7730
SGB 1030.5 R23 -.0334 R13  .7755
SG1  940.8 SG2  420.5 THA 173.86
```

ORBIT DETERMINATION ACCURACY

```
ST   482.2 SR   403.8 SS   413.2
CRT -.9128 CRS -.9957 CST  .9260
LSA  737.5 MSA  147.7 SSA   25.0
EL1  615.6 EL2  129.2 ALF 140.53
```

LAUNCH DATE JUN 28 1967 FLIGHT TIME 86.00 ARRIVAL DATE SEP 22 1967

HELIOCENTRIC CONIC DISTANCE 223.722

RL 152.08 LAL .00 LOL 275.63 VL 26.126 GAL -4.59 AZL 93.07 HCA 96.92 SMA 124.88 ECC .23139 INC 3.0691 V1 29.295
RP 108.56 LAP -3.05 LOP 12.56 VP 37.179 GAP -11.10 AZP 89.63 TAL 195.64 TAP 292.55 RCA 95.98 APO 153.77 V2 34.908
RC 52.722 GL -19.54 GP -5.75 ZAL 121.01 ZAP 13.93 ETS 23.14 ZAE 147.80 ETE 7.92 ZAC 87.16 ETC 13.82 CLP -12.71

PLANETOCENTRIC CONIC

C3 17.382 VHL 4.169 DLA -7.68 RAL 147.50 RAD 6567.7 VEL 11.780 PTH 2.08 VHP 7.163 DPA -2.14 RAP 178.80 ECC 1.2861

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 47 55	1941.05	-12.13	24.86	5.51	115.78	4 20 16	1341.0	-8.56	17.99
90.00	13 50 18	5065.85	24.00	224.01	8.72	74.50	15 14 44	4465.9	21.64	216.13
100.00	5 5 34	1690.55	-13.12	5.93	5.00	117.10	5 33 44	1090.6	-9.39	359.14
100.00	15 15 21	4791.58	25.06	203.49	8.38	73.16	16 35 12	4191.6	22.52	195.62
110.00	6 5 22	1503.29	-15.76	350.22	3.50	120.74	6 30 26	903.3	-11.56	343.63
110.00	16 32 2	4551.61	27.91	184.20	7.31	69.41	17 47 53	3951.6	24.85	176.36

DIFFERENTIAL CORRECTIONS
TDE .3376 TRA -.3382 TC3 .8296 BAU .1932
RDE -.2928 RRA -.1026 RC3 .0537 FAU .04677
FDE -.4977 FRA -.1694 FC3-2.3293 BSP 2854
BDE .4469 BRA .3534 BC3 .8313 FSP -476

MID-COURSE EXECUTION ACCURACY
SGT 955.9 SGR 429.2 SG3 179.1
RRT -.2169 RRF .2493 RTF -.7828
SGB 1047.8 R23 -.0406 R13 .7859
SG1 961.4 SG2 416.5 THA 173.14

ORBIT DETERMINATION ACCURACY
ST 485.3 SR 404.7 SS 427.0
CRT -.9200 CRS -.9961 CST .9217
LSA 747.7 MSA 147.9 SSA 25.8
EL1 619.5 EL2 124.2 ALF 140.61

LAUNCH DATE JUN 28 1967 FLIGHT TIME 88.00 ARRIVAL DATE SEP 24 1967

HELIOCENTRIC CONIC DISTANCE 230.449

RL 152.08 LAL .00 LOL 275.63 VL 26.267 GAL -4.66 AZL 93.01 HCA 100.10 SMA 125.75 ECC .22392 INC 3.0055 V1 29.295
RP 108.52 LAP -2.96 LOP 15.75 VP 37.290 GAP -10.30 AZP 89.47 TAL 196.62 TAP 296.72 RCA 97.59 APO 153.91 V2 34.920
RC 54.330 GL -19.68 GP -6.20 ZAL 122.54 ZAP 16.46 ETS 20.77 ZAE 147.48 ETE 6.45 ZAC 86.67 ETC 13.89 CLP -15.27

PLANETOCENTRIC CONIC

C3 16.620 VHL 4.077 DLA -7.25 RAL 145.95 RAD 6567.7 VEL 11.747 PTH 2.07 VHP 6.728 DPA -2.82 RAP 179.18 ECC 1.2735

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 38 20	1944.59	-12.24	25.06	3.33	115.74	4 10 44	1344.6	-8.67	18.20
90.00	13 47 28	5041.65	23.55	222.37	6.28	73.80	15 11 30	4441.7	21.10	214.56
100.00	4 56 12	1693.37	-13.21	6.10	2.83	117.06	5 24 25	1093.4	-9.48	359.29
100.00	15 12 17	4768.10	24.59	201.91	5.93	72.45	16 31 45	4168.1	21.96	194.10
110.00	5 56 31	1504.53	-15.80	350.29	1.36	120.71	6 21 35	904.5	-11.61	343.69
110.00	16 28 28	4529.70	27.38	182.72	4.84	68.68	17 43 57	3929.7	24.23	174.96

DIFFERENTIAL CORRECTIONS
TDE .3333 TRA -.3111 TC3 .8970 BAU .1994
RDE -.2869 RRA -.1015 RC3 .0329 FAU .05153
FDE -.5337 FRA -.2356 FC3-2.6842 BSP 2964
BDE .4397 BRA .3272 BC3 .8977 FSP -547

MID-COURSE EXECUTION ACCURACY
SGT 974.0 SGR 428.9 SG3 202.0
RRT -.2535 RRF .2910 RTF -.7928
SGB 1064.2 R23 -.0478 R13 .7968
SG1 981.3 SG2 411.7 THA 172.26

ORBIT DETERMINATION ACCURACY
ST 487.2 SR 405.5 SS 441.6
CRT -.9270 CRS -.9957 CST .9175
LSA 757.6 MSA 148.6 SSA 26.4
EL1 622.6 EL2 119.0 ALF 140.64

LAUNCH DATE JUN 28 1967 FLIGHT TIME 90.00 ARRIVAL DATE SEP 26 1967

HELIOCENTRIC CONIC DISTANCE 237.164

RL 152.08 LAL .00 LOL 275.63 VL 26.394 GAL -4.73 AZL 92.94 HCA 103.29 SMA 126.55 ECC .21729 INC 2.9406 V1 29.295
RP 108.48 LAP -2.86 LOP 18.94 VP 37.390 GAP -9.53 AZP 89.32 TAL 197.57 TAP 300.86 RCA 99.05 APO 154.05 V2 34.932
RC 56.016 GL -19.73 GP -6.72 ZAL 124.00 ZAP 19.14 ETS 18.99 ZAE 147.42 ETE 4.93 ZAC 86.33 ETC 13.95 CLP -17.97

PLANETOCENTRIC CONIC

C3 15.972 VHL 3.996 DLA -6.77 RAL 144.49 RAD 6567.6 VEL 11.720 PTH 2.06 VHP 6.318 DPA -3.49 RAP 179.41 ECC 1.2629

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 28 53	1950.57	-12.41	25.42	1.33	115.66	4 1 23	1350.6	-8.86	18.54
90.00	13 45 19	5017.52	23.08	220.76	4.03	73.12	15 8 57	4417.5	20.55	213.00
100.00	4 46 59	1698.59	-13.37	6.40	.85	116.98	5 15 18	1098.6	-9.65	359.59
100.00	15 9 54	4744.74	24.10	200.35	3.67	71.76	16 28 59	4144.7	21.39	192.60
110.00	5 47 51	1508.05	-15.92	350.49	359.40	120.66	6 12 59	908.1	-11.74	343.89
110.00	16 25 32	4508.04	26.83	181.27	2.57	67.98	17 40 40	3908.0	23.61	173.59

DIFFERENTIAL CORRECTIONS
TDE .3257 TRA -.2876 TC3 .9515 BAU .2032
RDE -.2815 RRA -.1013 RC3 .0069 FAU .05686
FDE -.5714 FRA -.3094 FC3-3.0820 BSP 3013
BDE .4305 BRA .3049 BC3 .9516 FSP -624

MID-COURSE EXECUTION ACCURACY
SGT 984.3 SGR 429.3 SG3 227.6
RRT -.2924 RRF .3382 RTF -.7986
SGB 1073.8 R23 -.0591 R13 .8039
SG1 993.9 SG2 406.6 THA 171.26

ORBIT DETERMINATION ACCURACY
ST 483.7 SR 406.0 SS 454.9
CRT -.9316 CRS -.9946 CST .9115
LSA 763.1 MSA 150.6 SSA 26.9
EL1 621.0 EL2 114.9 ALF 140.35

LAUNCH DATE JUN 28 1967 FLIGHT TIME 92.00 ARRIVAL DATE SEP 28 1967

HELIOCENTRIC CONIC DISTANCE 243.864

RL 152.08 LAL .00 LOL 275.63 VL 26.507 GAL -4.79 AZL 92.87 HCA 106.48 SMA 127.28 ECC .21142 INC 2.8739 V1 29.295
RP 108.45 LAP -2.76 LOP 22.13 VP 37.481 GAP -8.78 AZP 89.18 TAL 198.49 TAP 304.97 RCA 100.37 APO 154.18 V2 34.945
RC 57.772 GL -19.71 GP -7.30 ZAL 125.39 ZAP 22.00 ETS 17.61 ZAE 147.63 ETE 3.33 ZAC 86.15 ETC 14.01 CLP -20.81

PLANETOCENTRIC CONIC

C3 15.419 VHL 3.927 DLA -6.27 RAL 143.15 RAD 6567.6 VEL 11.696 PTH 2.06 VHP 5.931 DPA -4.16 RAP 179.49 ECC 1.2538

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 19 39	1958.66	-12.65	25.89	359.53	115.55	3 52 17	1358.7	-9.11	19.00
90.00	13 43 52	4993.49	22.60	219.16	1.97	72.47	15 7 6	4393.5	19.99	211.46
100.00	4 38 1	1705.86	-13.60	6.82	359.05	116.88	5 6 27	1105.9	-9.88	.00
100.00	15 8 12	4721.52	23.60	198.80	1.61	71.10	16 26 53	4121.5	20.80	191.12
110.00	5 39 27	1513.52	-16.11	350.80	357.63	120.56	6 4 40	913.5	-11.93	344.18
110.00	16 23 15	4486.63	26.28	179.85	.49	67.31	17 38 2	3886.6	22.97	172.25

DIFFERENTIAL CORRECTIONS
TDE .3164 TRA -.2664 TC3 .9957 BAU .2053
RDE -.2768 RRA -.1023 RC3 -.0252 FAU .06289
FDE -.6117 FRA -.3925 FC3-3.5309 BSP 3047
BDE .4204 BRA .2854 BC3 .9960 FSP -713

MID-COURSE EXECUTION ACCURACY
SGT 988.7 SGR 431.3 SG3 256.6
RRT -.3359 RRF .3918 RTF -.8022
SGB 1078.7 R23 -.0734 R13 .8093
SG1 1001.3 SG2 401.1 THA 170.05

ORBIT DETERMINATION ACCURACY
ST 476.9 SR 406.4 SS 467.8
CRT -.9349 CRS -.9928 CST .9043
LSA 766.2 MSA 153.7 SSA 27.2
EL1 616.5 EL2 111.6 ALF 139.88

LAUNCH DATE JUN 28 1967 FLIGHT TIME 94.00 ARRIVAL DATE SEP 30 1967

HELIOCENTRIC CONIC DISTANCE 250.547
RL 152.08 LAL .00 LOL 275.63 VL 26.607 GAL -4.85 AZL 92.81 HCA 109.67 SMA 127.93 ECC .20625 INC 2.8050 V1 29.295
RP 108.41 LAP -2.64 LOP 25.32 VP 37.564 GAP -8.07 AZP 89.06 TAL 199.36 TAP 309.03 RCA 101.54 APO 154.31 V2 34.957
RC 59.590 GL -19.61 GP -7.96 ZAL 126.69 ZAP 25.04 ETS 16.52 ZAE 148.11 ETE 1.59 ZAC 86.14 ETC 14.07 CLP -23.82
PLANETOCENTRIC CONIC
C3 14.942 VHL 3.866 DLA -5.73 RAL 141.94 RAD 6567.6 VEL 11.676 PTH 2.05 VHP 5.569 DPA -4.83 RAP 179.38 ECC 1.2459

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 10 43	1968.53	-12.94	26.47	357.91	115.41	3 43 32	1368.5	-9.41	19.57
90.00	13 43 7	4969.54	22.10	217.59	.10	71.83	15 5 57	4369.5	19.41	209.95
100.00	4 29 21	1714.87	-13.87	7.35	357.44	116.75	4 57 56	1114.9	-10.18	.51
100.00	15 7 11	4698.43	23.08	197.28	359.74	70.46	16 25 29	4098.4	20.21	189.67
110.00	5 31 23	1520.65	-16.36	351.21	356.04	120.44	5 56 44	920.7	-12.19	344.57
110.00	16 21 38	4465.41	25.71	178.46	358.60	66.66	17 36 3	3865.4	22.33	170.94

DIFFERENTIAL CORRECTIONS
TDE .3053 TRA -.2478 TC3 1.0278 BAU .2057
RDE -.2726 RRA -.1045 RC3 -.0643 FAU .06971
FDE -.6546 FRA -.4855 FC3-4.0390 BSP 3059
BDE .4093 BRA .2690 BC3 1.0298 FSP -815

MID-COURSE EXECUTION ACCURACY
SGT 986.1 SGR 435.8 SG3 289.3
RRT -.3835 RRF .4520 RTF -.8034
SG8 1078.1 R23 -.0914 R13 .8133
SG1 1002.9 SG2 395.8 THA 168.58

ORBIT DETERMINATION ACCURACY
ST 466.5 SR 406.7 SS 480.5
CRT -.9366 CRS -.9905 CST .8957
LSA 767.0 MSA 157.6 SSA 27.4
EL1 609.2 EL2 109.2 ALF 139.18

LAUNCH DATE JUN 28 1967 FLIGHT TIME 96.00 ARRIVAL DATE OCT 2 1967

HELIOCENTRIC CONIC DISTANCE 257.211
RL 152.08 LAL .00 LOL 275.63 VL 26.695 GAL -4.90 AZL 92.73 HCA 112.86 SMA 128.51 ECC .20171 INC 2.7332 V1 29.295
RP 108.37 LAP -2.52 LOP 28.52 VP 37.639 GAP -7.38 AZP 88.94 TAL 200.17 TAP 313.03 RCA 102.59 APO 154.44 V2 34.970
RC 61.464 GL -19.44 GP -8.69 ZAL 127.89 ZAP 28.28 ETS 15.62 ZAE 148.86 ETE 359.63 ZAC 86.34 ETC 14.12 CLP -27.02
PLANETOCENTRIC CONIC
C3 14.528 VHL 3.812 DLA -5.17 RAL 140.86 RAD 6567.6 VEL 11.658 PTH 2.05 VHP 5.230 DPA -5.50 RAP 179.07 ECC 1.2391

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 2 10	1979.90	-13.27	27.14	356.49	115.25	3 35 9	1379.9	-9.76	20.22
90.00	13 43 4	4945.63	21.58	216.02	358.43	71.21	15 5 30	4345.6	18.82	208.44
100.00	4 21 4	1725.36	-14.20	7.96	356.02	116.59	4 49 49	1125.4	-10.51	1.11
100.00	15 6 51	4675.40	22.55	195.78	358.06	69.84	16 24 47	4075.4	19.60	188.23
110.00	5 23 43	1529.19	-16.65	351.69	354.64	120.29	5 49 13	929.2	-12.50	345.04
110.00	16 20 41	4444.34	25.14	177.09	356.91	66.04	17 34 45	3844.3	21.68	169.64

DIFFERENTIAL CORRECTIONS
TDE .2922 TRA -.2330 TC3 1.0439 BAU .2039
RDE -.2688 RRA -.1080 RC3 -.1110 FAU .07733
FDE -.6991 FRA -.5878 FC3-4.6085 BSP 3043
BDE .3970 BRA .2568 BC3 1.0497 FSP -928

MID-COURSE EXECUTION ACCURACY
SGT 974.5 SGR 443.9 SG3 326.0
RRT -.4334 RRF .5175 RTF -.8010
SG8 1070.9 R23 -.1146 R13 .8150
SG1 996.9 SG2 391.0 THA 166.76

ORBIT DETERMINATION ACCURACY
ST 452.3 SR 407.0 SS 492.2
CRT -.9362 CRS -.9878 CST .8850
LSA 765.1 MSA 162.4 SSA 27.3
EL1 598.8 EL2 108.0 ALF 138.22

LAUNCH DATE JUN 28 1967 FLIGHT TIME 98.00 ARRIVAL DATE OCT 4 1967

HELIOCENTRIC CONIC DISTANCE 263.856
RL 152.08 LAL .00 LOL 275.63 VL 26.773 GAL -4.95 AZL 92.66 HCA 116.06 SMA 129.03 ECC .19775 INC 2.6579 V1 29.295
RP 108.33 LAP -2.39 LOP 31.71 VP 37.706 GAP -6.72 AZP 88.83 TAL 200.91 TAP 316.97 RCA 103.51 APO 154.55 V2 34.983
RC 63.388 GL -19.19 GP -9.52 ZAL 128.99 ZAP 31.74 ETS 14.86 ZAE 149.89 ETE 357.37 ZAC 86.75 ETC 14.14 CLP -30.43
PLANETOCENTRIC CONIC
C3 14.162 VHL 3.763 DLA -4.59 RAL 139.92 RAD 6567.6 VEL 11.642 PTH 2.04 VHP 4.916 DPA -6.17 RAP 178.53 ECC 1.2331

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 53 59	1992.58	-13.64	27.89	355.24	115.06	3 27 12	1392.6	-10.15	20.95
90.00	13 43 44	4921.66	21.05	214.47	356.93	70.61	15 5 45	4321.7	18.21	206.94
100.00	4 13 11	1737.13	-14.55	8.65	354.79	116.40	4 42 8	1137.1	-10.89	1.78
100.00	15 7 13	4652.35	22.00	194.29	356.56	69.24	16 24 46	4052.3	18.98	186.80
110.00	5 16 29	1538.94	-16.98	352.25	353.43	120.12	5 42 8	938.9	-12.85	345.58
110.00	16 20 24	4423.30	24.55	175.74	355.40	65.43	17 34 8	3823.3	21.03	168.36

DIFFERENTIAL CORRECTIONS
TDE .2788 TRA -.2201 TC3 1.0473 BAU .2008
RDE -.2656 RRA -.1133 RC3 -.1673 FAU .08597
FDE -.7480 FRA -.7033 FC3-5.2554 BSP 3043
BDE .3851 BRA .2476 BC3 1.0606 FSP -1063

MID-COURSE EXECUTION ACCURACY
SGT 956.4 SGR 457.5 SG3 367.5
RRT -.4863 RRF .5881 RTF -.7964
SG8 1060.2 R23 -.1419 R13 .8167
SG1 986.8 SG2 387.4 THA 164.45

ORBIT DETERMINATION ACCURACY
ST 437.0 SR 407.7 SS 505.3
CRT -.9347 CRS -.9850 CST .8730
LSA 764.0 MSA 167.8 SSA 27.1
EL1 587.9 EL2 107.8 ALF 137.12

LAUNCH DATE JUN 28 1967 FLIGHT TIME 100.00 ARRIVAL DATE OCT 6 1967

HELIOCENTRIC CONIC DISTANCE 270.480
RL 152.08 LAL .00 LOL 275.63 VL 26.841 GAL -4.98 AZL 92.58 HCA 119.25 SMA 129.49 ECC .19431 INC 2.5782 V1 29.295
RP 108.29 LAP -2.25 LOP 34.91 VP 37.766 GAP -6.09 AZP 88.74 TAL 201.57 TAP 320.83 RCA 104.33 APO 154.65 V2 34.996
RC 65.357 GL -18.87 GP -10.46 ZAL 129.99 ZAP 35.44 ETS 14.18 ZAE 151.19 ETE 354.68 ZAC 87.41 ETC 14.13 CLP -34.06
PLANETOCENTRIC CONIC
C3 13.833 VHL 3.719 DLA -3.98 RAL 139.12 RAD 6567.5 VEL 11.628 PTH 2.04 VHP 4.627 DPA -6.84 RAP 177.75 ECC 1.2277

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 46 14	2006.39	-14.03	28.71	354.17	114.85	3 19 40	1406.4	-10.57	21.75
90.00	13 45 6	4897.52	20.49	212.91	355.62	70.02	15 6 43	4297.5	17.59	205.45
100.00	4 5 43	1750.00	-14.94	9.41	353.73	116.19	4 34 53	1150.0	-11.30	2.51
100.00	15 8 18	4629.14	21.43	192.80	355.24	68.65	16 25 27	4029.1	18.34	185.37
110.00	5 9 41	1549.74	-17.35	352.87	352.39	119.92	5 35 31	949.7	-13.24	346.17
110.00	16 20 49	4402.17	23.94	174.40	354.07	64.84	17 34 11	3802.2	20.35	167.09

DIFFERENTIAL CORRECTIONS
TDE .2612 TRA -.2141 TC3 1.0247 BAU .1943
RDE -.2624 RRA -.1197 RC3 -.2334 FAU .09530
FDE -.7929 FRA -.8230 FC3-5.9647 BSP 2960
BDE .3703 BRA .2453 BC3 1.0509 FSP -1205

MID-COURSE EXECUTION ACCURACY
SGT 923.2 SGR 477.3 SG3 412.5
RRT -.5308 RRF .6579 RTF -.7835
SG8 1039.3 R23 -.1793 R13 .8144
SG1 964.5 SG2 387.2 THA 161.58

ORBIT DETERMINATION ACCURACY
ST 415.1 SR 408.1 SS 514.3
CRT -.9286 CRS -.9822 CST .8553
LSA 756.6 MSA 173.9 SSA 26.9
EL1 571.7 EL2 110.0 ALF 135.53

LAUNCH DATE JUN 28 1967 FLIGHT TIME 102.00 ARRIVAL DATE OCT 8 1967

HELIOCENTRIC CONIC DISTANCE 277.082

RL 152.08 LAL .00 LOL 275.63 VL 26.899 GAL -5.01 AZL 92.49 HCA 122.45 SMA 129.88 ECC .19133 INC 2.4934 V1 29.295
RP 108.25 LAP -2.10 LOP 38.11 VP 37.820 GAP -5.48 AZP 88.66 TAL 202.15 TAP 324.61 RCA 105.03 APO 154.73 V2 35.009
RC 67.365 GL -18.48 GP -11.51 ZAL 130.89 ZAP 39.39 ETS 13.55 ZAE 152.73 ETE 351.38 ZAC 88.32 ETC 14.07 CLP -37.94

PLANETOCENTRIC CONIC

C3 13.531 VHL 3.678 DLA -3.35 RAL 138.46 RAD 6567.5 VEL 11.615 PTH 2.04 VHP 4.363 DPA -7.53 RAP 176.70 ECC 1.2227

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 38 53	2021.30	-14.46	29.60	353.28	114.61	3 12 34	1421.3	-11.02	22.61
90.00	13 47 13	4872.98	19.91	211.35	354.48	69.44	15 8 26	4273.0	16.94	203.94
100.00	3 58 39	1763.94	-15.36	10.24	352.84	115.96	4 28 3	1163.9	-11.74	3.31
100.00	15 10 7	4605.57	20.84	191.30	354.10	68.07	16 26 52	4005.6	17.68	183.93
110.00	5 3 19	1561.53	-17.75	353.56	351.52	119.70	5 29 21	961.5	-13.66	346.83
110.00	16 21 57	4380.75	23.32	173.05	352.92	64.27	17 34 58	3780.7	19.66	165.82

DIFFERENTIAL CORRECTIONS
TDE .2418 TRA -.2130 TC3 .9790 BAU .1859
RDE -.2595 RRA -.1279 RC3 -.3115 FAU .10548
FDE -.8363 FRA -.9503 FC3-6.7485 BSP 2857
BDE .3547 BRA .2484 BC3 1.0274 FSP -1362

MID-COURSE EXECUTION ACCURACY
SGT 878.1 SGR 505.7 SG3 461.6
RRT -.5652 RRF .7255 RTF -.7618
SGB 1013.3 R23 -.2243 R13 .8110
SG1 934.4 SG2 392.0 THA 157.88

ORBIT DETERMINATION ACCURACY
ST 390.2 SR 408.7 SS 521.9
CRT -.9182 CRS -.9794 CST .8320
LSA 747.3 MSA 180.5 SSA 26.6
EL1 553.4 EL2 114.2 ALF 133.56

LAUNCH DATE JUN 28 1967 FLIGHT TIME 104.00 ARRIVAL DATE OCT 10 1967

HELIOCENTRIC CONIC DISTANCE 283.662

RL 152.08 LAL .00 LOL 275.63 VL 26.948 GAL -5.03 AZL 92.40 HCA 125.66 SMA 130.22 ECC .18877 INC 2.4022 V1 29.295
RP 108.20 LAP -1.95 LOP 41.31 VP 37.867 GAP -4.89 AZP 88.60 TAL 202.64 TAP 328.30 RCA 105.64 APO 154.81 V2 35.023
RC 69.409 GL -18.01 GP -12.69 ZAL 131.69 ZAP 43.60 ETS 12.91 ZAE 154.48 ETE 347.22 ZAC 89.51 ETC 13.94 CLP -42.08

PLANETOCENTRIC CONIC

C3 13.249 VHL 3.640 DLA -2.68 RAL 137.95 RAD 6567.5 VEL 11.603 PTH 2.03 VHP 4.125 DPA -8.22 RAP 175.37 ECC 1.2180

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 31 53	2037.33	-14.91	30.56	352.56	114.35	3 5 51	1437.3	-11.50	23.54
90.00	13 50 6	4847.78	19.30	209.75	353.51	68.87	15 10 54	4247.8	16.26	202.40
100.00	3 51 59	1778.97	-15.80	11.13	352.12	115.71	4 21 38	1179.0	-12.22	4.18
100.00	15 12 42	4581.37	20.22	189.77	353.12	67.50	16 29 3	3981.4	16.99	182.46
110.00	4 57 21	1574.32	-18.18	354.30	350.83	119.46	5 23 36	974.3	-14.12	347.54
110.00	16 23 49	4358.79	22.66	171.68	351.93	63.70	17 36 28	3758.8	18.94	164.52

DIFFERENTIAL CORRECTIONS
TDE .2217 TRA -.2163 TC3 .9109 BAU .1765
RDE -.2569 RRA -.1379 RC3 -.4040 FAU .11650
FDE -.8787 FRA-1.0840 FC3-7.6123 BSP 2762
BDE .3394 BRA .2565 BC3 .9965 FSP -1539

MID-COURSE EXECUTION ACCURACY
SGT 823.2 SGR 545.2 SG3 515.1
RRT -.5839 RRF .7877 RTF -.7285
SGB 987.4 R23 -.2724 R13 .8097
SG1 900.7 SG2 404.6 THA 152.99

ORBIT DETERMINATION ACCURACY
ST 364.2 SR 409.8 SS 529.1
CRT -.9023 CRS -.9771 CST .8021
LSA 738.0 MSA 187.3 SSA 26.2
EL1 534.9 EL2 120.3 ALF 131.27

LAUNCH DATE JUN 28 1967 FLIGHT TIME 106.00 ARRIVAL DATE OCT 12 1967

HELIOCENTRIC CONIC DISTANCE 290.219

RL 152.08 LAL .00 LOL 275.63 VL 26.990 GAL -5.04 AZL 92.30 HCA 128.86 SMA 130.51 ECC .18659 INC 2.3034 V1 29.295
RP 108.16 LAP -1.79 LOP 44.52 VP 37.909 GAP -4.32 AZP 88.55 TAL 203.04 TAP 331.90 RCA 106.16 APO 154.86 V2 35.036
RC 71.485 GL -17.45 GP -14.01 ZAL 132.39 ZAP 48.08 ETS 12.25 ZAE 156.37 ETE 341.89 ZAC 90.97 ETC 13.73 CLP -46.48

PLANETOCENTRIC CONIC

C3 12.978 VHL 3.603 DLA -1.98 RAL 137.58 RAD 6567.5 VEL 11.592 PTH 2.03 VHP 3.915 DPA -8.93 RAP 173.74 ECC 1.2136

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 25 13	2054.61	-15.39	31.60	352.00	114.06	2 59 28	1454.6	-12.01	24.55
90.00	13 53 51	4821.59	18.65	208.10	352.69	68.30	15 14 13	4221.6	15.54	200.81
100.00	3 45 39	1795.20	-16.28	12.10	351.57	115.42	4 15 34	1195.2	-12.72	5.11
100.00	15 16 7	4556.23	19.56	188.20	352.30	66.93	16 32 3	3956.2	16.27	180.95
110.00	4 51 46	1588.20	-18.64	355.11	350.29	119.18	5 18 14	988.2	-14.61	348.31
110.00	16 26 29	4336.00	21.97	170.28	351.10	63.13	17 38 45	3736.0	18.19	163.19

DIFFERENTIAL CORRECTIONS
TDE .1978 TRA -.2274 TC3 .8069 BAU .1657
RDE -.2538 RRA -.1491 RC3 -.5108 FAU .12769
FDE -.9065 FRA-1.2113 FC3-8.5178 BSP 2617
BDE .3218 BRA .2719 BC3 .9550 FSP -1715

MID-COURSE EXECUTION ACCURACY
SGT 753.6 SGR 595.5 SG3 569.6
RRT -.5683 RRF .8400 RTF -.6691
SGB 960.5 R23 -.3186 R13 .8114
SG1 858.9 SG2 429.9 THA 146.35

ORBIT DETERMINATION ACCURACY
ST 333.2 SR 410.0 SS 529.1
CRT -.8742 CRS -.9747 CST .7558
LSA 721.5 MSA 194.6 SSA 25.9
EL1 512.2 EL2 129.5 ALF 128.28

LAUNCH DATE JUN 28 1967 FLIGHT TIME 108.00 ARRIVAL DATE OCT 14 1967

HELIOCENTRIC CONIC DISTANCE 296.752

RL 152.08 LAL .00 LOL 275.63 VL 27.024 GAL -5.04 AZL 92.20 HCA 132.07 SMA 130.75 ECC .18473 INC 2.1951 V1 29.295
RP 108.12 LAP -1.63 LOP 47.72 VP 37.945 GAP -3.77 AZP 88.53 TAL 203.35 TAP 335.41 RCA 106.59 APO 154.90 V2 35.049
RC 73.590 GL -16.81 GP -15.47 ZAL 133.00 ZAP 52.82 ETS 11.51 ZAE 158.26 ETE 334.94 ZAC 92.71 ETC 13.40 CLP -51.17

PLANETOCENTRIC CONIC

C3 12.714 VHL 3.566 DLA -1.24 RAL 137.36 RAD 6567.5 VEL 11.580 PTH 2.03 VHP 3.732 DPA -9.68 RAP 171.81 ECC 1.2092

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 18 47	2073.41	-15.91	32.74	351.60	113.74	2 53 21	1473.4	-12.57	25.65
90.00	13 58 32	4793.94	17.95	206.38	352.02	67.72	15 18 26	4193.9	14.77	199.15
100.00	3 39 34	1812.87	-16.79	13.16	351.18	115.10	4 9 46	1212.9	-13.27	6.14
100.00	15 20 27	4529.71	18.84	186.55	351.63	66.35	16 35 57	3929.7	15.48	179.37
110.00	4 46 29	1603.37	-19.14	356.00	349.92	118.87	5 13 13	1003.4	-15.15	349.16
110.00	16 30 1	4311.98	21.22	168.81	350.42	62.55	17 41 53	3712.0	17.38	161.79

DIFFERENTIAL CORRECTIONS
TDE .1727 TRA -.2447 TC3 .6703 BAU .1569
RDE -.2501 RRA -.1616 RC3 -.6348 FAU .13894
FDE -.9207 FRA-1.3297 FC3-9.4610 BSP 2499
BDE .3039 BRA .2932 BC3 .9232 FSP -1896

MID-COURSE EXECUTION ACCURACY
SGT 678.3 SGR 658.7 SG3 624.7
RRT -.5052 RRF .8827 RTF -.5699
SGB 945.5 R23 -.3353 R13 .8291
SG1 820.4 SG2 470.0 THA 136.67

ORBIT DETERMINATION ACCURACY
ST 301.9 SR 409.6 SS 524.0
CRT -.8292 CRS -.9725 CST .6886
LSA 701.4 MSA 202.1 SSA 25.5
EL1 488.8 EL2 141.4 ALF 124.76

LAUNCH DATE JUN 28 1967 FLIGHT TIME 110.00 ARRIVAL DATE OCT 16 1967

HELIOCENTRIC CONIC DISTANCE 303.261

```
RL  152.08 LAL    .00 LOL 275.63 VL  27.051 GAL  -5.03 AZL  92.08 HCA 135.28 SMA 130.94 ECC .18317 INC 2.0752 V1  29.295
RP  108.08 LAP  -1.46 LOP  50.93 VP  37.977 GAP  -3.23 AZP  88.53 TAL 203.56 TAP 338.83 RCA 106.95 APO 154.92 V2  35.062
RC  75.721 GL  -16.06 GP  -17.09 ZAL 133.51 ZAP  57.79 ETS  10.65 ZAE 159.97 ETE 325.90 ZAC  94.71 ETC  12.94 CLP -56.11
```

PLANETOCENTRIC CONIC

```
C3  12.450 VHL  3.528 DLA   -.42 RAL 137.29 RAD 6567.5 VEL 11.569 PTH   2.02 VHP  3.580 DPA -10.47 RAP 169.59 ECC 1.2049
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 12 29	2094.14	-16.48	34.00	351.37	113.36	2 47 23	1494.1	-13.18	26.88
90.00	14 4 17	4764.24	17.17	204.55	351.51	67.13	15 23 41	4164.2	13.93	197.37
100.00	3 33 38	1832.39	-17.35	14.34	350.96	114.73	4 4 10	1232.4	-13.87	7.28
100.00	15 25 49	4501.23	18.05	184.80	351.11	65.76	16 40 51	3901.2	14.63	177.68
110.00	4 41 26	1620.18	-19.69	356.99	349.72	118.52	5 8 26	1020.2	-15.73	350.11
110.00	16 34 31	4286.21	20.40	167.26	349.88	61.96	17 45 57	3686.2	16.50	160.32

DIFFERENTIAL CORRECTIONS

```
TDE  .1478 TRA -.2670 TC3  .5002 BAU  .1540
RDE -.2458 RRA -.1755 RC3 -.7787 FAU .14994
FDE -.9201 FRA-1.4364 FC-10.4264 BSP   2471
BDE  .2868 BRA  .3195 BC3  .9255 FSP  -2084
```

MID-COURSE EXECUTION ACCURACY

```
SGT  608.4 SGR  736.5 SG3  679.3
RRT -.3709 RRF  .9160 RTF -.4066
SGB  955.3 R23 -.2682 R13  .8789
SG1  802.2 SG2  518.7 THA 121.29
```

ORBIT DETERMINATION ACCURACY

```
ST   273.1 SR   408.5 SS   514.8
CRT -.7602 CRS -.9703 CST  .5936
LSA  679.6 MSA  209.8 SSA   25.2
EL1  466.1 EL2  155.5 ALF 120.73
```

LAUNCH DATE JUN 28 1967 FLIGHT TIME 112.00 ARRIVAL DATE OCT 18 1967

HELIOCENTRIC CONIC DISTANCE 309.747

```
RL  152.08 LAL    .00 LOL 275.63 VL  27.072 GAL  -5.01 AZL  91.94 HCA 138.49 SMA 131.08 ECC .18187 INC 1.9408 V1  29.295
RP  108.04 LAP  -1.29 LOP  54.14 VP  38.004 GAP  -2.72 AZP  88.55 TAL 203.67 TAP 342.16 RCA 107.24 APO 154.92 V2  35.075
RC  77.874 GL  -15.17 GP  -18.86 ZAL 133.93 ZAP  62.97 ETS   9.65 ZAE 161.19 ETE 314.47 ZAC  96.95 ETC  12.31 CLP -61.30
```

PLANETOCENTRIC CONIC

```
C3  12.182 VHL  3.490 DLA    .48 RAL 137.38 RAD 6567.5 VEL 11.557 PTH   2.02 VHP  3.458 DPA -11.32 RAP 167.11 ECC 1.2005
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 6 10	2117.43	-17.10	35.42	351.30	112.92	2 41 27	1517.4	-13.85	28.25
90.00	14 11 18	4731.73	16.30	202.56	351.14	66.52	15 30 10	4131.7	12.99	195.45
100.00	3 27 43	1854.33	-17.97	15.67	350.90	114.29	3 58 38	1254.3	-14.54	8.56
100.00	15 32 25	4470.06	17.17	182.91	350.73	65.15	16 46 55	3870.1	13.68	175.86
110.00	4 36 29	1639.11	-20.31	358.12	349.69	118.11	5 3 48	1039.1	-16.39	351.19
110.00	16 40 9	4258.05	19.49	165.58	349.50	61.35	17 51 7	3658.0	15.52	158.72

DIFFERENTIAL CORRECTIONS

```
TDE  .1218 TRA -.2963 TC3  .2866 BAU  .1601
RDE -.2391 RRA -.1890 RC3 -.9405 FAU .15946
FDE -.8870 FRA-1.5085 FC-11.3324 BSP   2538
BDE  .2683 BRA  .3514 BC3  .9832 FSP  -2244
```

MID-COURSE EXECUTION ACCURACY

```
SGT  562.7 SGR  825.4 SG3  727.2
RRT -.1268 RRF  .9405 RTF -.1413
SGB  999.0 R23 -.0761 R13  .9376
SG1  831.0 SG2  554.4 THA  98.95
```

ORBIT DETERMINATION ACCURACY

```
ST   247.6 SR   403.9 SS   493.5
CRT -.6501 CRS -.9674 CST  .4503
LSA  648.0 MSA  217.9 SSA   25.0
EL1  441.3 EL2  172.2 ALF 115.97
```

LAUNCH DATE JUN 28 1967 FLIGHT TIME 114.00 ARRIVAL DATE OCT 20 1967

HELIOCENTRIC CONIC DISTANCE 316.209

```
RL  152.08 LAL    .00 LOL 275.63 VL  27.087 GAL  -4.98 AZL  91.79 HCA 141.70 SMA 131.19 ECC .18081 INC 1.7881 V1  29.295
RP  108.00 LAP  -1.11 LOP  57.35 VP  38.026 GAP  -2.22 AZP  88.60 TAL 203.70 TAP 345.40 RCA 107.47 APO 154.91 V2  35.088
RC  80.046 GL  -14.12 GP  -20.81 ZAL 134.26 ZAP  68.29 ETS   8.44 ZAE 161.60 ETE 301.03 ZAC  99.36 ETC  11.50 CLP -66.69
```

PLANETOCENTRIC CONIC

```
C3  11.908 VHL  3.451 DLA   1.50 RAL 137.63 RAD 6567.5 VEL 11.545 PTH   2.02 VHP  3.368 DPA -12.26 RAP 164.39 ECC 1.1960
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 59 36	2144.20	-17.80	37.07	351.42	112.39	2 35 20	1544.2	-14.61	29.85
90.00	14 19 51	4695.35	15.30	200.36	350.93	65.88	15 38 6	4095.3	11.92	193.31
100.00	3 21 38	1879.57	-18.67	17.22	351.03	113.77	3 52 58	1279.6	-15.30	10.05
100.00	15 40 29	4435.20	16.16	180.81	350.52	64.51	16 54 25	3835.2	12.60	173.83
110.00	4 31 29	1660.96	-21.00	359.44	349.84	117.61	4 59 10	1061.0	-17.14	352.44
110.00	16 47 8	4226.58	18.46	163.73	349.27	60.70	17 57 35	3626.6	14.41	156.95

DIFFERENTIAL CORRECTIONS

```
TDE  .0975 TRA -.3300 TC3  .0326 BAU  .1787
RDE -.2295 RRA -.2018 RC3-1.1221 FAU .16705
FDE -.8198 FRA-1.5425 FC-12.1454 BSP   2780
BDE  .2493 BRA  .3868 BC3 1.1226 FSP  -2376
```

MID-COURSE EXECUTION ACCURACY

```
SGT  572.0 SGR  925.9 SG3  766.4
RRT  .1975 RRF  .9581 RTF  .1962
SGB 1088.3 R23  .1001 R13  .9529
SG1  936.5 SG2  554.3 THA  79.23
```

ORBIT DETERMINATION ACCURACY

```
ST   230.8 SR   394.7 SS   460.8
CRT -.4960 CRS -.9628 CST  .2579
LSA  607.8 MSA  226.6 SSA   25.1
EL1  415.8 EL2  190.3 ALF 110.69
```

LAUNCH DATE JUN 28 1967 FLIGHT TIME 116.00 ARRIVAL DATE OCT 22 1967

HELIOCENTRIC CONIC DISTANCE 322.648

```
RL  152.08 LAL    .00 LOL 275.63 VL  27.097 GAL  -4.94 AZL  91.61 HCA 144.92 SMA 131.26 ECC .17996 INC 1.6118 V1  29.295
RP  107.96 LAP   -.93 LOP  60.56 VP  38.045 GAP  -1.74 AZP  88.68 TAL 203.63 TAP 348.55 RCA 107.64 APO 154.88 V2  35.101
RC  82.236 GL  -12.87 GP  -22.95 ZAL 134.51 ZAP  73.68 ETS   7.00 ZAE 160.89 ETE 286.97 ZAC 101.89 ETC  10.46 CLP -72.23
```

PLANETOCENTRIC CONIC

```
C3  11.624 VHL  3.409 DLA   2.68 RAL 138.06 RAD 6567.4 VEL 11.533 PTH   2.01 VHP  3.313 DPA -13.34 RAP 161.48 ECC 1.1913
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 52 31	2175.81	-18.61	39.04	351.75	111.74	2 28 47	1575.8	-15.50	31.75
90.00	14 30 19	4653.64	14.13	197.86	350.88	65.20	15 47 53	4053.6	10.67	190.89
100.00	3 15 7	1909.41	-19.48	19.07	351.37	113.13	3 46 56	1309.4	-16.18	11.83
100.00	15 50 25	4395.28	14.98	178.44	350.46	63.83	17 3 40	3795.3	11.34	171.54
110.00	4 26 13	1686.84	-21.81	1.01	350.20	117.00	4 54 20	1086.8	-18.01	353.93
110.00	16 55 47	4190.61	17.25	161.65	349.20	60.02	18 5 38	3590.6	13.13	154.95

DIFFERENTIAL CORRECTIONS

```
TDE  .0779 TRA -.3656 TC3 -.2593 BAU  .2100
RDE -.2165 RRA -.2135 RC3-1.3265 FAU .17231
FDE -.7226 FRA-1.5376 FC-12.8331 BSP   3224
BDE  .2301 BRA  .4234 BC3 1.3516 FSP  -2484
```

MID-COURSE EXECUTION ACCURACY

```
SGT  653.3 SGR 1039.0 SG3  795.4
RRT  .4910 RRF  .9709 RTF  .4954
SGB 1227.4 R23  .1728 R13  .9556
SG1 1104.4 SG2  535.5 THA  67.20
```

ORBIT DETERMINATION ACCURACY

```
ST   226.3 SR   380.5 SS   419.3
CRT -.3205 CRS -.9557 CST  .0433
LSA  561.5 MSA  236.3 SSA   25.2
EL1  390.2 EL2  209.0 ALF 105.27
```

LAUNCH DATE JUN 28 1967 FLIGHT TIME 118.00 ARRIVAL DATE OCT 24 1967

HELIOCENTRIC CONIC DISTANCE 329.063

RL 152.08 LAL .00 LOL 275.63 VL 27.101 GAL -4.89 AZL 91.40 HCA 148.14 SMA 131.29 ECC .17930 INC 1.4047 V1 29.295
RP 107.92 LAP -.74 LOP 63.78 VP 38.060 GAP -1.27 AZP 88.81 TAL 203.47 TAP 351.61 RCA 107.75 APO 154.83 V2 35.113
RC 84.440 GL -11.34 GP -25.29 ZAL 134.67 ZAP 79.04 ETS 5.28 ZAE 159.01 ETE 274.11 ZAC 104.46 ETC 9.17 CLP -77.87

PLANETOCENTRIC CONIC

C3 11.331 VHL 3.366 DLA 4.08 RAL 138.68 RAD 6567.4 VEL 11.520 PTH 2.01 VHP 3.294 DPA -14.61 RAP 158.44 ECC 1.1865

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 44 30	2214.28	-19.56	41.46	352.32	110.89	2 21 24	1614.3	-16.55	34.08
90.00	14 43 18	4604.56	12.71	194.95	351.03	64.48	16 0 3	4004.6	9.17	188.06
100.00	3 7 46	1945.73	-20.44	21.34	351.95	112.30	3 40 11	1345.7	-17.23	14.01
100.00	16 2 44	4348.34	13.55	175.69	350.60	63.10	17 15 12	3748.3	9.83	168.87
110.00	4 20 24	1718.40	-22.77	2.95	350.82	116.21	4 49 2	1118.4	-19.06	355.78
110.00	17 6 35	4148.43	15.79	159.24	349.33	59.28	18 15 43	3548.4	11.60	152.64

DIFFERENTIAL CORRECTIONS
TDE .0640 TRA -.4026 TC3 -.5938 BAU .2511
RDE -.1967 RRA -.2211 RC3-1.5477 FAU .17380
FDE -.5742 FRA-1.4704 FC-13.2788 BSP 3810
BDE .2068 BRA .4593 BC3 1.6577 FSP -2525

MID-COURSE EXECUTION ACCURACY
SGT 802.3 SGR 1157.6 SG3 806.7
RRT .6883 RRF .9797 RTF .6931
SGB 1408.4 R23 .1969 R13 .9601
SG1 1311.4 SG2 513.7 THA 59.29

ORBIT DETERMINATION ACCURACY
ST 233.4 SR 354.7 SS 359.3
CRT -.1545 CRS -.9395 CST -.1758
LSA 497.2 MSA 248.0 SSA 26.0
EL1 357.8 EL2 228.6 ALF 99.86

LAUNCH DATE JUN 28 1967 FLIGHT TIME 120.00 ARRIVAL DATE OCT 26 1967

HELIOCENTRIC CONIC DISTANCE 335.455

RL 152.08 LAL .00 LOL 275.63 VL 27.102 GAL -4.82 AZL 91.16 HCA 151.36 SMA 131.29 ECC .17880 INC 1.1563 V1 29.295
RP 107.89 LAP -.55 LOP 67.00 VP 38.071 GAP -.82 AZP 88.99 TAL 203.24 TAP 354.59 RCA 107.81 APO 154.76 V2 35.125
RC 86.655 GL -9.45 GP -27.89 ZAL 134.74 ZAP 84.27 ETS 3.23 ZAE 156.06 ETE 263.59 ZAC 106.98 ETC 7.61 CLP -83.52

PLANETOCENTRIC CONIC

C3 11.031 VHL 3.321 DLA 5.81 RAL 139.53 RAD 6567.4 VEL 11.507 PTH 2.00 VHP 3.314 DPA -16.13 RAP 155.30 ECC 1.1815

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 34 54	2262.73	-20.71	44.55	353.20	109.76	2 12 36	1662.7	-17.83	37.06
90.00	14 59 42	4545.04	10.93	191.48	351.42	63.72	16 15 27	3945.0	7.32	184.67
100.00	2 58 59	1991.50	-21.59	24.25	352.85	111.19	3 32 11	1391.5	-18.52	16.80
100.00	16 18 18	4291.50	11.78	172.40	350.98	62.33	17 29 49	3691.5	7.98	165.67
110.00	4 13 31	1758.22	-23.95	5.45	351.76	115.16	4 42 50	1158.2	-20.36	358.14
110.00	17 20 15	4097.54	14.00	156.38	349.68	58.49	18 28 32	3497.5	9.73	149.88

DIFFERENTIAL CORRECTIONS
TDE .0609 TRA -.4366 TC3 -.9636 BAU .3001
RDE -.1698 RRA -.2250 RC3-1.7927 FAU .17184
FDE -.3926 FRA-1.3573 FC-13.4860 BSP 4548
BDE .1804 BRA .4912 BC3 2.0352 FSP -2529

MID-COURSE EXECUTION ACCURACY
SGT 996.9 SGR 1286.9 SG3 802.4
RRT .8004 RRF .9860 RTF .8041
SGB 1627.9 R23 .1996 R13 .9659
SG1 1550.4 SG2 496.1 THA 53.94

ORBIT DETERMINATION ACCURACY
ST 251.0 SR 317.5 SS 290.5
CRT -.0440 CRS -.9023 CST -.3706
LSA 422.4 MSA 262.8 SSA 27.3
EL1 318.0 EL2 250.3 ALF 95.25

LAUNCH DATE JUN 28 1967 FLIGHT TIME 122.00 ARRIVAL DATE OCT 28 1967

HELIOCENTRIC CONIC DISTANCE 341.823

RL 152.08 LAL .00 LOL 275.63 VL 27.097 GAL -4.75 AZL 90.85 HCA 154.58 SMA 131.26 ECC .17846 INC .8503 V1 29.295
RP 107.85 LAP -.37 LOP 70.21 VP 38.079 GAP -.38 AZP 89.23 TAL 202.91 TAP 357.49 RCA 107.84 APO 154.69 V2 35.137
RC 88.880 GL -7.03 GP -30.82 ZAL 134.69 ZAP 89.24 ETS .81 ZAE 152.26 ETE 255.60 ZAC 109.37 ETC 5.72 CLP -89.12

PLANETOCENTRIC CONIC

C3 10.731 VHL 3.276 DLA 7.98 RAL 140.66 RAD 6567.4 VEL 11.494 PTH 2.00 VHP 3.380 DPA -18.02 RAP 152.10 ECC 1.1766

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 22 39	2326.17	-22.11	48.68	354.52	108.15	2 1 25	1726.2	-19.42	41.03
90.00	15 20 59	4470.31	8.65	187.18	352.14	62.93	16 35 29	3870.3	4.95	180.45
100.00	2 47 51	2051.40	-23.01	28.13	354.19	109.62	3 22 2	1451.4	-20.13	20.53
100.00	16 38 29	4220.32	9.49	168.35	351.69	61.52	17 48 49	3620.3	5.62	161.70
110.00	4 4 53	1810.34	-25.41	8.79	353.14	113.67	4 35 3	1210.3	-21.99	1.30
110.00	17 37 56	4034.15	11.72	152.89	350.36	57.66	18 45 10	3434.1	7.37	146.50

DIFFERENTIAL CORRECTIONS
TDE .0730 TRA -.4647 TC3-1.3665 BAU .3537
RDE -.1301 RRA -.2209 RC3-2.0524 FAU .16523
FDE -.1595 FRA-1.1800 FC-13.3295 BSP 5350
BDE .1492 BRA .5146 BC3 2.4657 FSP -2448

MID-COURSE EXECUTION ACCURACY
SGT 1221.3 SGR 1418.5 SG3 776.1
RRT .8630 RRF .9904 RTF .8654
SGB 1871.8 R23 .1969 R13 .9709
SG1 1808.2 SG2 484.0 THA 49.94

ORBIT DETERMINATION ACCURACY
ST 278.7 SR 259.1 SS 214.1
CRT .0118 CRS -.7753 CST -.6138
LSA 342.8 MSA 268.6 SSA 30.6
EL1 278.8 EL2 259.0 ALF 4.62

LAUNCH DATE JUN 28 1967 FLIGHT TIME 124.00 ARRIVAL DATE OCT 30 1967

HELIOCENTRIC CONIC DISTANCE 348.169

RL 152.08 LAL .00 LOL 275.63 VL 27.089 GAL -4.67 AZL 90.46 HCA 157.80 SMA 131.20 ECC .17826 INC .4618 V1 29.295
RP 107.82 LAP -.17 LOP 73.44 VP 38.084 GAP .05 AZP 89.57 TAL 202.51 TAP .31 RCA 107.82 APO 154.59 V2 35.149
RC 91.113 GL -3.87 GP -34.21 ZAL 134.47 ZAP 93.81 ETS 357.93 ZAE 147.75 ETE 249.82 ZAC 111.52 ETC 3.46 CLP -94.61

PLANETOCENTRIC CONIC

C3 10.451 VHL 3.233 DLA 10.82 RAL 142.17 RAD 6567.4 VEL 11.482 PTH 2.00 VHP 3.500 DPA -20.40 RAP 148.84 ECC 1.1720

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 5 56	2413.33	-23.84	54.48	356.50	105.75	1 46 9	1813.3	-21.45	46.62
90.00	15 49 43	4372.42	5.58	181.63	353.38	62.19	17 2 36	3772.4	1.81	174.97
100.00	2 32 41	2133.54	-24.78	33.59	356.19	107.27	3 8 14	1533.5	-22.19	25.76
100.00	17 5 39	4127.44	6.44	163.14	352.91	60.75	18 14 27	3527.4	2.49	156.58
110.00	3 53 12	1881.60	-27.28	13.49	355.21	111.45	4 24 33	1281.6	-24.12	5.75
110.00	18 1 38	3952.15	8.70	148.46	351.53	56.81	19 7 30	3352.1	4.27	142.17

DIFFERENTIAL CORRECTIONS
TDE .1083 TRA -.4820 TC3-1.7928 BAU .4109
RDE -.0742 RRA -.2081 RC3-2.3309 FAU .15444
FDE .1079 FRA -.9576 FC-12.7932 BSP 6229
BDE .1313 BRA .5250 BC3 2.9406 FSP -2311

MID-COURSE EXECUTION ACCURACY
SGT 1461.8 SGR 1558.7 SG3 730.3
RRT .8989 RRF .9935 RTF .9006
SGB 2136.9 R23 .1915 R13 .9751
SG1 2082.5 SG2 479.3 THA 47.04

ORBIT DETERMINATION ACCURACY
ST 325.7 SR 179.0 SS 183.1
CRT .0980 CRS -.4101 CST -.9152
LSA 369.6 MSA 183.3 SSA 38.0
EL1 326.4 EL2 177.8 ALF 4.39

LAUNCH DATE JUN 28 1967 FLIGHT TIME 126.00 ARRIVAL DATE NOV 1 1967

HELIOCENTRIC CONIC DISTANCE 354.492
RL 152.08 LAL .00 LOL 275.63 VL 27.078 GAL -4.58 AZL 89.95 HCA 161.02 SMA 131.12 ECC .17819 INC .0297 V1 29.295
RP 107.78 LAP .02 LOP 76.66 VP 38.086 GAP .46 AZP 90.05 TAL 202.04 TAP 3.06 RCA 107.76 APO 154.49 V2 35.160
RC 93.352 GL .42 GP -38.25 ZAL 133.94 ZAP 97.80 ETS 354.50 ZAE 142.57 ETE 245.79 ZAC 113.33 ETC .74 CLP -99.95
PLANETOCENTRIC CONIC
C3 10.237 VHL 3.200 DLA 14.68 RAL 144.21 RAD 6567.4 VEL 11.473 PTH 1.99 VHP 3.693 DPA -23.46 RAP 145.46 ECC 1.1685

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	0 40 56	2540.94	-25.92	63.25	359.53	101.82	1 23 17	1940.9	-24.03	55.09
90.00	16 31 0	4236.48	1.22	174.02	355.55	61.71	17 41 36	3636.5	-2.58	167.39
100.00	2 10 10	2253.16	-26.95	41.82	359.27	103.45	2 47 43	1653.2	-24.83	33.66
100.00	17 44 27	3999.50	2.14	156.08	355.04	60.18	18 51 6	3399.5	-1.85	149.56
110.00	3 36 3	1984.44	-29.64	20.56	358.42	107.87	4 9 7	1384.4	-26.91	12.43
110.00	18 35 3	3840.98	4.51	142.58	353.56	56.08	19 39 4	3241.0	.03	136.37

DIFFERENTIAL CORRECTIONS
TDE .1793 TRA -.4818 TC3-2.2240 BAU .4697
RDE .0076 RRA -.1814 RC3-2.6133 FAU .13913
FDE .4085 FRA -.6923 FC-11.7656 BSP 7141
BDE .1795 BRA .5148 BC3 3.4315 FSP -2101

MID-COURSE EXECUTION ACCURACY
SGT 1709.9 SGR 1705.7 SG3 662.9
RRT .9201 RRF .9957 RTF .9218
SGB 2415.2 R23 .1856 R13 .9784
SG1 2366.5 SG2 482.6 THA 44.92

ORBIT DETERMINATION ACCURACY
ST 420.2 SR 113.3 SS 273.4
CRT .7030 CRS -.6184 CST -.9652
LSA 503.8 MSA 87.3 SSA 52.2
EL1 427.9 EL2 79.1 ALF 11.12

LAUNCH DATE JUN 28 1967 FLIGHT TIME 128.00 ARRIVAL DATE NOV 3 1967

HELIOCENTRIC CONIC DISTANCE 360.792
RL 152.08 LAL .00 LOL 275.63 VL 27.063 GAL -4.48 AZL 89.24 HCA 164.25 SMA 131.02 ECC .17824 INC .7628 V1 29.295
RP 107.75 LAP .21 LOP 79.88 VP 38.085 GAP .87 AZP 90.74 TAL 201.49 TAP 5.74 RCA 107.67 APO 154.37 V2 35.170
RC 95.596 GL 6.46 GP -43.22 ZAL 132.79 ZAP 100.98 ETS 350.39 ZAE 136.60 ETE 243.09 ZAC 114.68 ETC 357.41 CLP-105.15
PLANETOCENTRIC CONIC
C3 10.209 VHL 3.195 DLA 20.12 RAL 147.10 RAD 6567.4 VEL 11.472 PTH 1.99 VHP 3.998 DPA -27.45 RAP 141.78 ECC 1.1680

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	23 53 42	2748.79	-27.96	78.10	4.39	94.67	24 39 31	2148.8	-27.02	69.56
90.00	17 37 20	4027.53	-5.50	162.33	359.62	62.18	18 44 27	3427.5	-9.18	155.59
100.00	1 31 55	2444.76	-29.23	55.59	4.25	96.57	2 12 40	1844.8	-28.01	47.00
100.00	18 45 44	3806.79	-4.38	145.49	359.01	60.40	19 49 10	3206.8	-8.29	138.89
110.00	3 7 52	2144.58	-32.41	32.20	3.66	101.51	3 43 36	1544.6	-30.49	23.51
110.00	19 26 16	3679.74	-1.65	134.16	357.30	55.85	20 27 36	3079.7	-6.12	127.92

DIFFERENTIAL CORRECTIONS
TDE .3081 TRA -.4548 TC3-2.6168 BAU .5295
RDE .1303 RRA -.1344 RC3-2.8642 FAU .11948
FDE .7246 FRA -.4011 FC-10.1318 BSP 8115
BDE .3345 BRA .4743 BC3 3.8796 FSP -1834

MID-COURSE EXECUTION ACCURACY
SGT 1963.7 SGR 1863.0 SG3 574.4
RRT .9329 RRF .9973 RTF .9353
SGB 2706.8 R23 .1790 R13 .9812
SG1 2661.1 SG2 495.1 THA 43.38

ORBIT DETERMINATION ACCURACY
ST 612.9 SR 252.0 SS 460.7
CRT .9833 CRS -.9874 CST -.9634
LSA 800.5 MSA 100.5 SSA 24.6
EL1 661.3 EL2 42.5 ALF 22.11

LAUNCH DATE JUN 28 1967 FLIGHT TIME 130.00 ARRIVAL DATE NOV 5 1967

HELIOCENTRIC CONIC DISTANCE 367.067
RL 152.08 LAL .00 LOL 275.63 VL 27.045 GAL -4.36 AZL 88.17 HCA 167.47 SMA 130.90 ECC .17839 INC 1.8342 V1 29.295
RP 107.72 LAP .40 LOP 83.11 VP 38.082 GAP 1.26 AZP 91.79 TAL 200.87 TAP 8.34 RCA 107.55 APO 154.25 V2 35.180
RC 97.843 GL 15.30 GP -49.56 ZAL 130.28 ZAP 103.02 ETS 345.41 ZAE 129.56 ETE 241.32 ZAC 115.38 ETC 353.26 CLP-110.33
PLANETOCENTRIC CONIC
C3 10.706 VHL 3.272 DLA 28.04 RAL 151.52 RAD 6567.4 VEL 11.493 PTH 2.00 VHP 4.501 DPA -32.73 RAP 137.44 ECC 1.1762

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	21 37 48	3285.34	-24.81	116.66	11.13	75.89	22 32 33	2685.3	-26.50	108.41
90.00	20 28 34	3510.17	-20.26	131.56	9.61	69.78	21 27 4	2910.2	-22.83	123.83
100.00	23 52 38	2850.64	-28.61	85.55	12.01	80.95	24 40 9	2250.6	-29.57	76.88
100.00	20 56 24	3420.10	-16.67	123.37	8.03	64.83	21 53 24	2820.1	-19.93	116.09
110.00	2 9 40	2434.07	-34.15	54.53	12.61	88.46	2 50 14	1834.1	-33.99	45.28
110.00	20 59 48	3409.44	-11.79	119.81	5.27	57.68	21 56 37	2809.4	-15.98	113.20

DIFFERENTIAL CORRECTIONS
TDE .5439 TRA -.3800 TC3-2.8465 BAU .5867
RDE .3271 RRA -.0481 RC3-2.9502 FAU .09501
FDE 1.0391 FRA -.0897 FC3-7.6832 BSP 9056
BDE .6347 BRA .3830 BC3 4.0996 FSP -1480

MID-COURSE EXECUTION ACCURACY
SGT 2223.8 SGR 2016.0 SG3 462.2
RRT .9399 RRF .9982 RTF .9442
SGB 3001.6 R23 .1732 R13 .9832
SG1 2956.6 SG2 517.8 THA 42.02

ORBIT DETERMINATION ACCURACY
ST 980.5 SR 576.5 SS 710.4
CRT .9824 CRS -.9996 CST -.9791
LSA 1334.5 MSA 132.3 SSA 9.4
EL1 1133.6 EL2 93.1 ALF 30.24

LAUNCH DATE JUN 28 1967 FLIGHT TIME 132.00 ARRIVAL DATE NOV 7 1967

HELIOCENTRIC CONIC DISTANCE 373.314
RL 152.08 LAL .00 LOL 275.63 VL 27.025 GAL -4.24 AZL 86.37 HCA 170.69 SMA 130.75 ECC .17864 INC 3.6315 V1 29.295
RP 107.69 LAP .59 LOP 86.34 VP 38.076 GAP 1.64 AZP 93.58 TAL 200.19 TAP 10.87 RCA 107.39 APO 154.11 V2 35.190
RC 100.092 GL 28.40 GP -57.88 ZAL 124.91 ZAP 103.42 ETS 339.26 ZAE 120.91 ETE 239.86 ZAC 115.17 ETC 347.84 CLP-115.89
PLANETOCENTRIC CONIC
C3 12.889 VHL 3.590 DLA 39.56 RAL 159.25 RAD 6567.5 VEL 11.588 PTH 2.03 VHP 5.421 DPA -39.72 RAP 131.58 ECC 1.2121

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.14	18 17 29	4051.21	-30.08	177.29	24.75	62.99	19 25 0	3451.2	-33.43	169.17
118.86	0 54 28	2822.02	-30.07	83.89	24.74	62.98	1 41 30	2222.0	-33.42	75.77
61.14	18 17 29	4051.21	-30.08	177.29	24.75	62.99	19 25 0	3451.2	-33.43	169.17
118.86	0 54 28	2822.02	-30.07	83.89	24.74	62.98	1 41 30	2222.0	-33.42	75.77
61.14	18 17 29	4051.21	-30.08	177.29	24.75	62.99	19 25 0	3451.2	-33.43	169.17
118.86	0 54 28	2822.02	-30.07	83.89	24.74	62.98	1 41 30	2222.0	-33.42	75.77

DIFFERENTIAL CORRECTIONS
TDE 1.0018 TRA -.2108 TC3-2.6326 BAU .6362
RDE .6476 RRA .1099 RC3-2.5883 FAU .06675
FDE 1.2761 FRA .1997 FC3-4.4836 BSP 10003
BDE 1.1928 BRA .2377 BC3 3.6919 FSP -1072

MID-COURSE EXECUTION ACCURACY
SGT 2513.9 SGR 2138.6 SG3 331.1
RRT .9423 RRF .9984 RTF .9510
SGB 3300.5 R23 .1676 R13 .9847
SG1 3253.8 SG2 553.1 THA 40.11

ORBIT DETERMINATION ACCURACY
ST 1605.1 SR 1037.2 SS 956.7
CRT .9890 CRS-1.0000 CST -.9898
LSA 2131.5 MSA 154.6 SSA 4.2
EL1 1906.7 EL2 129.3 ALF 32.75

```
LAUNCH DATE  JUN 28 1967                          FLIGHT TIME 134.00                          ARRIVAL DATE  NOV  9 1967

 HELIOCENTRIC CONIC                               DISTANCE 379.522
  RL  152.08 LAL     .00 LOL 275.63 VL  27.002 GAL  -4.10 AZL  82.70 HCA 173.89 SMA 130.59 ECC .17897 INC 7.2970 V1  29.295
  RP  107.66 LAP     .78 LOP  89.57 VP  38.068 GAP   2.01 AZP  97.26 TAL 199.43 TAP  13.31 RCA 107.22 APO 153.97 V2  35.199
  RC 102.344 GL    46.41 GP  -69.12 ZAL 114.88 ZAP 101.54 ETS 330.62 ZAE 109.65 ETE 236.73 ZAC 113.70 ETC 339.51 CLP-124.14
 PLANETOCENTRIC CONIC
  C3  22.313 VHL  4.724 DLA  54.07 RAL 175.43 RAD 6567.9 VEL 11.987 PTH   2.14 VHP  7.464 DPA -48.77 RAP 121.74 ECC 1.3672
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT    INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     41.80    18 11 17   4357.84     -33.74      209.31      56.50      44.88   19 23 55     3757.8     -39.20      202.45
    138.20     3  9 46   2767.56     -33.73       81.94      56.48      44.88    3 55 54     2167.6     -39.19       75.08
     41.80    18 11 17   4357.84     -33.74      209.31      56.50      44.88   19 23 55     3757.8     -39.20      202.45
    138.20     3  9 46   2767.56     -33.73       81.94      56.48      44.88    3 55 54     2167.6     -39.19       75.08
     41.80    18 11 17   4357.84     -33.74      209.31      56.50      44.88   19 23 55     3757.8     -39.20      202.45
    138.20     3  9 46   2767.56     -33.73       81.94      56.48      44.88    3 55 54     2167.6     -39.19       75.08
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE 2.0021 TRA  .2261 TC3-1.6256 BAU  .6448      SGT 2911.0 SGR 2092.8 SG3  194.6         ST  2432.9 SR  1348.9 SS  1026.0
  RDE 1.0887 RRA  .4393 RC3-1.4247 FAU .03656      RRT  .9353 RRF  .9963 RTF  .9588         CRT  .9893 CRS -.9995 CST -.9935
  FDE 1.2919 FRA  .4388 FC3-1.4186 BSP  10668      SGB 3585.2 R23  .1634 R13  .9857         LSA 2959.0 MSA  188.6 SSA    2.1
  BDE 2.2789 BRA  .4941 BC3 2.1615 FSP   -628      SG1 3532.9 SG2  610.1 THA  35.12         EL1 2776.5 EL2  172.1 ALF  28.87

LAUNCH DATE  JUN 28 1967                          FLIGHT TIME 136.00                          ARRIVAL DATE  NOV 11 1967

 HELIOCENTRIC CONIC                               DISTANCE 385.627
  RL  152.08 LAL     .00 LOL 275.63 VL  26.977 GAL  -3.93 AZL  71.25 HCA 177.01 SMA 130.42 ECC .17930 INC18.7463 V1  29.295
  RP  107.63 LAP     .96 LOP  92.80 VP  38.059 GAP   2.35 AZP 108.72 TAL 198.54 TAP  15.55 RCA 107.03 APO 153.80 V2  35.208
  RC 104.596 GL    63.78 GP  -83.16 ZAL 101.41 ZAP  96.83 ETS 294.14 ZAE  92.67 ETE 205.32 ZAC 110.97 ETC 301.91 CLP-178.14
 PLANETOCENTRIC CONIC
  C3  92.976 VHL  9.642 DLA  62.36 RAL 207.19 RAD 6569.8 VEL 14.640 PTH   2.65 VHP 14.335 DPA -58.71 RAP  97.39 ECC 2.5302
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT    INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     31.80    19 51 37   4757.57     -17.28      233.82     107.83      29.06   21 10 55     4157.6     -24.22      229.99
    148.20     5 42 45   3064.80     -17.27       93.67     107.81      29.06    6 33 50     2464.8     -24.21       89.84
     31.80    19 51 37   4757.57     -17.28      233.82     107.83      29.06   21 10 55     4157.6     -24.22      229.99
    148.20     5 42 45   3064.80     -17.27       93.67     107.81      29.06    6 33 50     2464.8     -24.21       89.84
     31.80    19 51 37   4757.57     -17.28      233.82     107.83      29.06   21 10 55     4157.6     -24.22      229.99
    148.20     5 42 45   3064.80     -17.27       93.67     107.81      29.06    6 33 50     2464.8     -24.21       89.84
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE 3.8972 TRA 2.2710 TC3 -.2826 BAU  .3617      SGT 3758.1 SGR  650.2 SG3   89.5         ST  2474.8 SR   478.7 SS   730.7
  RDE -.7745 RRA  .3429 RC3 -.0694 FAU .00865      RRT  .1168 RRF  .2423 RTF  .9917         CRT -.8024 CRS  .7375 CST -.9948
  FDE  .8886 FRA  .6847 FC3 -.0805 BSP  10520      SGB 3813.9 R23  .1238 R13  .9921         LSA 2607.9 MSA  294.4 SSA     .7
  BDE 3.9734 BRA 2.2967 BC3  .2910 FSP   -267      SG1 3758.9 SG2  645.6 THA   1.19        EL1 2504.8 EL2  282.3 ALF 171.06

LAUNCH DATE  JUN 28 1967                          FLIGHT TIME 138.00                          ARRIVAL DATE  NOV 13 1967

 HELIOCENTRIC CONIC                               DISTANCE 392.864
  RL  152.08 LAL     .00 LOL 275.63 VL  26.949 GAL  -3.98 AZL 160.56 HCA 181.21 SMA 130.23 ECC .18115 INC70.5482 V1  29.295
  RP  107.61 LAP    1.14 LOP  96.04 VP  38.047 GAP   2.99 AZP  19.45 TAL 198.53 TAP  19.74 RCA 106.64 APO 153.82 V2  35.216
  RC 106.849 GL   -51.13 GP   59.46 ZAL  93.39 ZAP  92.99 ETS 177.57 ZAE  57.75 ETE 262.49 ZAC  85.91 ETC 161.31 CLP  95.89
 PLANETOCENTRIC CONIC
  C31060.222 VHL 32.561 DLA -45.67 RAL 153.89 RAD 6573.0 VEL 34.373 PTH   3.51 VHP 40.715 DPA  53.23 RAP 335.79 ECC18.4486
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT    INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     52.54     5 22 14   2275.47       -.43       58.61      64.30     135.67    6  0  9     1675.5       5.28       53.42
    127.46    13  6 58    851.52       -.42      308.07      64.32     135.67   13 21 10      251.5       5.30      302.88
     52.54     5 22 14   2275.47       -.43       58.61      64.30     135.67    6  0  9     1675.5       5.28       53.42
    127.46    13  6 58    851.52       -.42      308.07      64.32     135.67   13 21 10      251.5       5.30      302.88
     52.54     5 22 14   2275.47       -.43       58.61      64.30     135.67    6  0  9     1675.5       5.28       53.42
    127.46    13  6 58    851.52       -.42      308.07      64.32     135.67   13 21 10      251.5       5.30      302.88
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE 4.6645 TRA 2.5940 TC3 -.0956 BAU 3.5305      SGT 1219.6 SGR 3118.7 SG3   56.5         ST   844.1 SR  2714.6 SS  2038.8
  RD-15.4128 RRA-1.4135 RC3  .2300 FAU-.05564      RRT -.8914 RRF  .9993 RTF -.8794         CRT -.9810 CRS-1.0000 CST  .9797
  FDE-3.2914 FRA -.2514 FC3  .0454 BSP   5155      SGB 3348.7 R23 -.0816 R13  .9963         LSA 3494.6 MSA  161.2 SSA    1.7
  BDE16.1032 BRA 2.9541 BC3  .2491 FSP    -93      SG1 3307.9 SG2  521.1 THA 109.73         EL1 2838.5 EL2  156.4 ALF 107.02

LAUNCH DATE  JUN 28 1967                          FLIGHT TIME 140.00                          ARRIVAL DATE  NOV 15 1967

 HELIOCENTRIC CONIC                               DISTANCE 398.433
  RL  152.08 LAL     .00 LOL 275.63 VL  26.920 GAL  -3.69 AZL 109.97 HCA 183.87 SMA 130.03 ECC .18104 INC19.9676 V1  29.295
  RP  107.59 LAP    1.32 LOP  99.27 VP  38.033 GAP   3.18 AZP  70.07 TAL 197.14 TAP  21.01 RCA 106.49 APO 153.57 V2  35.223
  RC 109.101 GL   -64.25 GP   77.15 ZAL 100.13 ZAP 101.45 ETS  74.69 ZAE  94.65 ETE 161.68 ZAC  85.62 ETC  62.73 CLP-153.15
 PLANETOCENTRIC CONIC
  C3 103.748 VHL 10.186 DLA -50.56 RAL 130.49 RAD 6570.0 VEL 15.003 PTH   2.70 VHP 11.258 DPA  75.50 RAP 252.61 ECC 2.7074
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT    INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     46.19     3 27  8   2056.22       13.78       52.91      28.83     139.14    4  1 24     1456.2      19.76       47.78
    133.81    11 55 21   5813.29       13.80      269.83      28.85     139.14   13 32 15     5213.3      19.78      264.69
     46.19     3 27  8   2056.22       13.78       52.91      28.83     139.14    4  1 24     1456.2      19.76       47.78
    133.81    11 55 21   5813.29       13.80      269.83      28.85     139.14   13 32 15     5213.3      19.78      264.69
     46.19     3 27  8   2056.22       13.78       52.91      28.83     139.14    4  1 24     1456.2      19.76       47.78
    133.81    11 55 21   5813.29       13.80      269.83      28.85     139.14   13 32 15     5213.3      19.78      264.69
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY            ORBIT DETERMINATION ACCURACY
  TDE-5.4818 TRA-2.5938 TC3 -.2295 BAU  .3192      SGT 3873.1 SGR  601.2 SG3  120.6         ST  3159.6 SR   374.6 SS  1188.3
  RDE  .6121 RRA -.5552 RC3  .0173 FAU .01253      RRT  .0218 RRF -.1102 RTF  .9909         CRT -.8113 CRS  .8418 CST -.9985
  FDE-2.1422 FRA -.7580 FC3 -.1045 BSP  11458      SGB 3919.5 R23 -.1324 R13  .9909         LSA 3389.0 MSA  224.3 SSA    1.0
  BDE 5.5159 BRA 2.6525 BC3  .2301 FSP   -360      SG1 3873.1 SG2  601.1 THA   .20         EL1 3174.3 EL2  218.0 ALF 174.48
```

LAUNCH DATE JUN 28 1967 FLIGHT TIME 142.00 ARRIVAL DATE NOV 17 1967

HELIOCENTRIC CONIC DISTANCE 404.522
RL 152.08 LAL .00 LOL 275.63 VL 26.890 GAL -3.50 AZL 102.30 HCA 187.04 SMA 129.82 ECC .18171 INC12.3024 V1 29.295
RP 107.57 LAP 1.50 LOP 102.51 VP 38.017 GAP 3.51 AZP 77.79 TAL 196.14 TAP 23.18 RCA 106.23 APO 153.41 V2 35.230
RC 111.351 GL -58.45 GP 61.32 ZAL 104.68 ZAP 110.73 ETS 46.66 ZAE 109.10 ETE 138.51 ZAC 91.13 ETC 36.11 CLP-137.54
PLANETOCENTRIC CONIC
C3 45.036 VHL 6.711 DLA -44.38 RAL 132.24 RAD 6568.7 VEL 12.900 PTH 2.35 VHP 6.889 DPA 68.80 RAP 199.03 ECC 1.7412

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
54.28	4 2 25	1789.13	21.33	35.05	18.70	129.89	4 32 14	1189.1	26.32	28.62
125.72	11 34 0	5687.42	21.35	265.57	18.71	129.88	13 8 48	5087.4	26.33	259.14
54.28	4 2 25	1789.13	21.33	35.05	18.70	129.89	4 32 14	1189.1	26.32	28.62
125.72	11 34 0	5687.42	21.35	265.57	18.71	129.88	13 8 48	5087.4	26.33	259.14
54.28	4 2 25	1789.13	21.33	35.05	18.70	129.89	4 32 14	1189.1	26.32	28.62
125.72	11 34 0	5687.42	21.35	265.57	18.71	129.88	13 8 48	5087.4	26.33	259.14

DIFFERENTIAL CORRECTIONS
TOE-3.0120 TRA-1.9300 TC3 -.9107 BAU .5905
ROE 1.5886 RRA .3674 RC3 .3638 FAU .03931
FOE-2.6313 FRA -.9728 FC3 -.7557 BSP 12154
BOE 3.4052 BRA 1.9646 BC3 .9807 FSP -743

MID-COURSE EXECUTION ACCURACY
SGT 3663.5 SGR 1506.8 SG3 235.4
RRT -.9232 RRF -.9868 RTF .9712
SGB 3961.3 R23 .1826 R13 -.9823
SG1 3924.2 SG2 540.7 THA 158.79

ORBIT DETERMINATION ACCURACY
ST 2663.2 SR 1362.7 SS 1353.3
CRT -.9863 CRS .9984 CST -.9941
LSA 3276.0 MSA 220.9 SSA 1.8
EL1 2984.8 EL2 200.9 ALF 153.09

LAUNCH DATE JUN 28 1967 FLIGHT TIME 144.00 ARRIVAL DATE NOV 19 1967

HELIOCENTRIC CONIC DISTANCE 410.644
RL 152.08 LAL .00 LOL 275.63 VL 26.857 GAL -3.31 AZL 99.40 HCA 190.25 SMA 129.60 ECC .18253 INC 9.4004 V1 29.295
RP 107.55 LAP 1.67 LOP 105.75 VP 38.000 GAP 3.84 AZP 80.75 TAL 195.13 TAP 25.39 RCA 105.94 APO 153.26 V2 35.236
RC 113.598 GL -53.28 GP 49.05 ZAL 107.13 ZAP 118.76 ETS 40.93 ZAE 118.26 ETE 139.94 ZAC 95.81 ETC 31.30 CLP-137.23
PLANETOCENTRIC CONIC
C3 29.852 VHL 5.464 DLA -39.72 RAL 135.30 RAD 6568.2 VEL 12.297 PTH 2.21 VHP 5.505 DPA 59.01 RAP 181.21 ECC 1.4913

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.89	4 42 37	1608.76	23.39	20.94	13.92	123.07	5 9 26	1008.8	27.57	13.80
119.11	11 18 14	5660.37	23.40	264.85	13.93	123.06	12 52 35	5060.4	27.58	257.70
60.89	4 42 37	1608.76	23.39	20.94	13.92	123.07	5 9 26	1008.8	27.57	13.80
119.11	11 18 14	5660.37	23.40	264.85	13.93	123.06	12 52 35	5060.4	27.58	257.70
60.89	4 42 37	1608.76	23.39	20.94	13.92	123.07	5 9 26	1008.8	27.57	13.80
119.11	11 18 14	5660.37	23.40	264.85	13.93	123.06	12 52 35	5060.4	27.58	257.70

DIFFERENTIAL CORRECTIONS
TOE-2.3671 TRA-1.6162 TC3-1.5492 BAU .6558
ROE 1.1261 RRA .2819 RC3 .5482 FAU .06124
FOE-2.9545 FRA-1.0427 FC3-1.7759 BSP 12221
BOE 2.6213 BRA 1.6406 BC3 1.6433 FSP -1079

MID-COURSE EXECUTION ACCURACY
SGT 3726.0 SGR 1378.8 SG3 338.9
RRT -.9328 RRF -.9925 RTF .9653
SGB 3973.0 R23 .2148 R13 -.9751
SG1 3945.1 SG2 469.2 THA 160.67

ORBIT DETERMINATION ACCURACY
ST 2569.3 SR 1186.6 SS 1487.7
CRT -.9867 CRS .9992 CST -.9924
LSA 3190.1 MSA 215.2 SSA 2.5
EL1 2824.7 EL2 175.1 ALF 155.40

LAUNCH DATE JUN 28 1967 FLIGHT TIME 146.00 ARRIVAL DATE NOV 21 1967

HELIOCENTRIC CONIC DISTANCE 416.761
RL 152.08 LAL .00 LOL 275.63 VL 26.824 GAL -3.11 AZL 97.88 HCA 193.48 SMA 129.37 ECC .18348 INC 7.8754 V1 29.295
RP 107.53 LAP 1.83 LOP 108.99 VP 37.981 GAP 4.18 AZP 82.34 TAL 194.10 TAP 27.58 RCA 105.64 APO 153.11 V2 35.241
RC 115.842 GL -49.34 GP 39.84 ZAL 108.25 ZAP 125.26 ETS 37.43 ZAE 124.03 ETE 144.36 ZAC 99.11 ETC 28.54 CLP-138.75
PLANETOCENTRIC CONIC
C3 23.402 VHL 4.838 DLA -36.47 RAL 138.18 RAD 6567.9 VEL 12.032 PTH 2.15 VHP 4.950 DPA 50.76 RAP 173.75 ECC 1.3851

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.00	5 19 33	1474.70	23.67	10.10	11.77	118.58	5 44 7	874.7	27.30	2.61
114.00	11 4 15	5673.89	23.69	266.15	11.78	118.57	12 38 49	5073.9	27.31	258.66
66.00	5 19 33	1474.70	23.67	10.10	11.77	118.58	5 44 7	874.7	27.30	2.61
114.00	11 4 15	5673.89	23.69	266.15	11.78	118.57	12 38 49	5073.9	27.31	258.66
66.00	5 19 33	1474.70	23.67	10.10	11.77	118.58	5 44 7	874.7	27.30	2.61
114.00	11 4 15	5673.89	23.69	266.15	11.78	118.57	12 38 49	5073.9	27.31	258.66

DIFFERENTIAL CORRECTIONS
TOE-2.0985 TRA-1.4548 TC3-2.1495 BAU .6982
ROE .8238 RRA .1953 RC3 .5999 FAU .07677
FOE-3.0522 FRA-1.0100 FC3-2.8399 BSP 12768
BOE 2.2544 BRA 1.4679 BC3 2.2316 FSP -1360

MID-COURSE EXECUTION ACCURACY
SGT 3885.0 SGR 1171.2 SG3 412.8
RRT -.9338 RRF -.9918 RTF .9635
SGB 4057.7 R23 .2297 R13 -.9705
SG1 4037.6 SG2 403.3 THA 164.12

ORBIT DETERMINATION ACCURACY
ST 2568.0 SR 979.6 SS 1558.1
CRT -.9864 CRS .9994 CST -.9915
LSA 3152.4 MSA 211.2 SSA 3.3
EL1 2744.4 EL2 150.5 ALF 159.31

LAUNCH DATE JUN 28 1967 FLIGHT TIME 148.00 ARRIVAL DATE NOV 23 1967

HELIOCENTRIC CONIC DISTANCE 422.871
RL 152.08 LAL .00 LOL 275.63 VL 26.789 GAL -2.90 AZL 96.93 HCA 196.72 SMA 129.14 ECC .18452 INC 6.9314 V1 29.295
RP 107.52 LAP 1.99 LOP 112.24 VP 37.961 GAP 4.51 AZP 83.36 TAL 193.03 TAP 29.75 RCA 105.31 APO 152.96 V2 35.246
RC 118.080 GL -46.34 GP 32.95 ZAL 108.49 ZAP 130.47 ETS 34.65 ZAE 127.50 ETE 149.15 ZAC 101.20 ETC 26.35 CLP-140.67
PLANETOCENTRIC CONIC
C3 19.917 VHL 4.463 DLA -34.20 RAL 140.84 RAD 6567.8 VEL 11.887 PTH 2.11 VHP 4.720 DPA 44.25 RAP 170.07 ECC 1.3278

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.96	5 52 40	1368.30	23.49	1.56	11.09	115.61	6 15 28	768.3	26.73	353.90
110.04	10 52 26	5702.51	23.50	268.31	11.10	115.60	12 27 29	5102.5	26.74	260.65
69.96	5 52 40	1368.30	23.49	1.56	11.09	115.61	6 15 28	768.3	26.73	353.90
110.04	10 52 26	5702.51	23.50	268.31	11.10	115.60	12 27 29	5102.5	26.74	260.65
69.96	5 52 40	1368.30	23.49	1.56	11.09	115.61	6 15 28	768.3	26.73	353.90
110.04	10 52 26	5702.51	23.50	268.31	11.10	115.60	12 27 29	5102.5	26.74	260.65

DIFFERENTIAL CORRECTIONS
TOE-1.9204 TRA-1.3005 TC3-2.6073 BAU .7085
ROE .6101 RRA .1142 RC3 .5320 FAU .08120
FOE-2.9061 FRA -.8143 FC3-3.5298 BSP 12240
BOE 2.0150 BRA 1.3055 BC3 2.6610 FSP -1353

MID-COURSE EXECUTION ACCURACY
SGT 3945.9 SGR 932.9 SG3 435.8
RRT -.9220 RRF -.9865 RTF .9587
SGB 4054.7 R23 .2464 R13 -.9636
SG1 4039.3 SG2 353.0 THA 167.61

ORBIT DETERMINATION ACCURACY
ST 2539.8 SR 785.2 SS 1529.8
CRT -.9850 CRS .9994 CST -.9903
LSA 3060.0 MSA 209.7 SSA 4.3
EL1 2655.2 EL2 129.5 ALF 163.02

```
LAUNCH DATE  JUN 28 1967                          FLIGHT TIME 150.00                          ARRIVAL DATE  NOV 25 1967

 HELIOCENTRIC CONIC                                DISTANCE 428.962
  RL  152.08 LAL     .00 LOL 275.63 VL  26.753 GAL  -2.69 AZL  96.29 HCA 199.96 SMA 128.90 ECC .18568 INC 6.2865 V1  29.295
  RP  107.50 LAP    2.14 LOP 115.48 VP  37.939 GAP   4.84 AZP  84.09 TAL 191.93 TAP  31.89 RCA 104.96 APO 152.83 V2  35.250
  RC 120.312 GL   -43.99 GP   27.74 ZAL 108.15 ZAP 134.72 ETS  32.32 ZAE 129.49 ETE 153.55 ZAC 102.38 ETC  24.48 CLP-142.66
 PLANETOCENTRIC CONIC
  C3  17.751 VHL  4.213 DLA -32.63 RAL 143.39 RAD 6567.7 VEL 11.795 PTH   2.09 VHP  4.643 DPA  39.12 RAP 168.18 ECC 1.2921
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     73.06     6 22 10   1281.71      23.22     354.73      11.29      113.59    6 43 32     681.7      26.21     346.97
    106.94    10 43 14   5734.93      23.24     270.69      11.30      113.58   12 18 48    5134.9      26.22     262.93
     73.06     6 22 10   1281.71      23.22     354.73      11.29      113.59    6 43 32     681.7      26.21     346.97
    106.94    10 43 14   5734.93      23.24     270.69      11.30      113.58   12 18 48    5134.9      26.22     262.93
    110.00     9 44 37    627.76      16.67     303.17       7.75      120.28    9 55  5      27.8      20.57     296.21
    110.00    12 19 57   5436.88      30.13     250.53      14.15      106.97   13 50 34    4836.9      32.15     241.90
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE-1.8437 TRA-1.2041 TC3-3.0790 BAU  .7390      SGT 4098.6 SGR  776.6 SG3  453.0            ST  2575.4 SR   660.5 SS  1520.2
  RDE  .4849 RRA  .0746 RC3  .4654 FAU .08455      RRT -.9127 RRF -.9779 RTF  .9578            CRT -.9849 CRS  .9995 CST -.9898
  FDE-2.7753 FRA -.6701 FC3-4.1235 BSP  12752      SGB 4171.5 R23  .2413 R13 -.9610            LSA 3055.7 MSA  206.4 SSA     5.3
  BDE 1.9064 BRA 1.2064 BC3 3.1140 FSP  -1434      SG1 4159.8 SG2  312.7 THA 170.13            EL1 2656.4 EL2  111.0 ALF 165.80

LAUNCH DATE  JUN 28 1967                          FLIGHT TIME 152.00                          ARRIVAL DATE  NOV 27 1967

 HELIOCENTRIC CONIC                                DISTANCE 435.038
  RL  152.08 LAL     .00 LOL 275.63 VL  26.716 GAL  -2.46 AZL  95.82 HCA 203.20 SMA 128.65 ECC .18694 INC 5.8155 V1  29.295
  RP  107.49 LAP    2.29 LOP 118.73 VP  37.916 GAP   5.17 AZP  84.65 TAL 190.80 TAP  34.00 RCA 104.60 APO 152.70 V2  35.253
  RC 122.538 GL   -42.09 GP   23.74 ZAL 107.36 ZAP 138.28 ETS  30.36 ZAE 130.56 ETE 157.33 ZAC 102.86 ETC  22.88 CLP-144.63
 PLANETOCENTRIC CONIC
  C3  16.278 VHL  4.035 DLA -31.56 RAL 145.88 RAD 6567.7 VEL 11.733 PTH   2.07 VHP  4.647 DPA  35.01 RAP 167.32 ECC 1.2679
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     75.44     6 48  5   1211.94      23.02     349.32      12.09      112.21    7  8 17     611.9      25.83     341.51
    104.56    10 37 13   5764.79      23.04     272.87      12.10      112.20   12 13 18    5164.8      25.84     265.05
     75.44     6 48  5   1211.94      23.02     349.32      12.09      112.21    7  8 17     611.9      25.83     341.51
    104.56    10 37 13   5764.79      23.04     272.87      12.10      112.20   12 13 18    5164.8      25.84     265.05
    110.00     9 31 32    681.37      14.81     306.21       7.73      121.17    9 42 53      81.4      18.83     299.40
    110.00    12 52 57   5343.36      31.79     243.75      15.25      103.27   14 22  0    4743.4      33.29     234.84
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE-1.8014 TRA-1.1126 TC3-3.5014 BAU  .7665      SGT 4238.6 SGR  651.5 SG3  454.6            ST  2619.4 SR   568.2 SS  1495.7
  RDE  .3997 RRA  .0479 RC3  .3838 FAU .08450      RRT -.8963 RRF -.9627 RTF  .9566            CRT -.9851 CRS  .9996 CST -.9895
  FDE-2.6160 FRA -.5126 FC3-4.4944 BSP  13188      SGB 4288.3 R23  .2285 R13 -.9588            LSA 3062.7 MSA  203.1 SSA     6.3
  BDE 1.8452 BRA 1.1136 BC3 3.5223 FSP  -1451      SG1 4278.8 SG2  286.1 THA 172.12            EL1 2678.6 EL2   95.4 ALF 167.92

LAUNCH DATE  JUN 28 1967                          FLIGHT TIME 154.00                          ARRIVAL DATE  NOV 29 1967

 HELIOCENTRIC CONIC                                DISTANCE 441.098
  RL  152.08 LAL     .00 LOL 275.63 VL  26.678 GAL  -2.22 AZL  95.45 HCA 206.44 SMA 128.40 ECC .18831 INC 5.4544 V1  29.295
  RP  107.49 LAP    2.43 LOP 121.98 VP  37.892 GAP   5.50 AZP  85.11 TAL 189.64 TAP  36.08 RCA 104.22 APO 152.58 V2  35.256
  RC 124.755 GL   -40.51 GP   20.60 ZAL 106.23 ZAP 141.33 ETS  28.71 ZAE 131.07 ETE 160.50 ZAC 102.84 ETC  21.49 CLP-146.52
 PLANETOCENTRIC CONIC
  C3  15.215 VHL  3.901 DLA -30.86 RAL 148.38 RAD 6567.6 VEL 11.688 PTH   2.06 VHP  4.698 DPA  31.63 RAP 167.11 ECC 1.2504
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     77.19     7 10 23   1157.87      22.92     345.20      13.33      111.25    7 29 40     557.9      25.60     337.35
    102.81    10 34 52   5788.30      22.93     274.59      13.34      111.24   12 11 20    5188.3      25.61     266.74
     77.19     7 10 23   1157.87      22.92     345.20      13.33      111.25    7 29 40     557.9      25.60     337.35
    102.81    10 34 52   5788.30      22.93     274.59      13.34      111.24   12 11 20    5188.3      25.61     266.74
    110.00     9 29  0    706.79      13.91     307.63       8.63      121.55    9 40 47     106.8      17.98     300.88
    110.00    13 15 25   5287.38      32.59     239.58      16.48      100.93   14 43 33    4687.4      33.76     230.54
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE-1.7804 TRA-1.0194 TC3-3.8798 BAU  .7916      SGT 4363.9 SGR  554.9 SG3  446.7            ST  2668.7 SR   500.5 SS  1464.4
  RDE  .3405 RRA  .0304 RC3  .3005 FAU .08243      RRT -.8708 RRF -.9381 RTF  .9552            CRT -.9860 CRS  .9997 CST -.9892
  FDE-2.4520 FRA -.3539 FC3-4.6905 BSP  13550      SGB 4399.0 R23  .2095 R13 -.9567            LSA 3078.5 MSA  199.5 SSA     7.4
  BDE 1.8127 BRA 1.0198 BC3 3.8914 FSP  -1428      SG1 4390.7 SG2  271.2 THA 173.66            EL1 2713.9 EL2   82.0 ALF 169.51

LAUNCH DATE  JUN 28 1967                          FLIGHT TIME 156.00                          ARRIVAL DATE  DEC  1 1967

 HELIOCENTRIC CONIC                                DISTANCE 447.140
  RL  152.08 LAL     .00 LOL 275.63 VL  26.640 GAL  -1.97 AZL  95.17 HCA 209.69 SMA 128.14 ECC .18980 INC 5.1671 V1  29.295
  RP  107.48 LAP    2.56 LOP 125.22 VP  37.867 GAP   5.82 AZP  85.51 TAL 188.44 TAP  38.13 RCA 103.82 APO 152.46 V2  35.258
  RC 126.964 GL   -39.16 GP   18.09 ZAL 104.83 ZAP 144.00 ETS  27.33 ZAE 131.24 ETE 163.12 ZAC 102.44 ETC  20.28 CLP-148.33
 PLANETOCENTRIC CONIC
  C3  14.420 VHL  3.797 DLA -30.43 RAL 150.92 RAD 6567.6 VEL 11.654 PTH   2.05 VHP  4.778 DPA  28.79 RAP 167.36 ECC 1.2373
  LNCH AZMTH  LNCH TIME  L-I TIME    INJ LAT   INJ LONG  INJ RT ASC  INJ AZMTH  INJ TIME  PO CST TIM  INJ 2 LAT INJ 2 LONG
     78.35     7 28 58   1119.11      22.90     342.29      14.92      110.61    7 47 37     519.1      25.50     334.41
    101.65    10 36 32   5803.12      22.92     275.70      14.92      110.59   12 13 15    5203.1      25.51     267.82
     78.35     7 28 58   1119.11      22.90     342.29      14.92      110.61    7 47 37     519.1      25.50     334.41
    101.65    10 36 32   5803.12      22.92     275.70      14.92      110.59   12 13 15    5203.1      25.51     267.82
    110.00     9 32 13    717.58      13.52     308.22      10.08      121.70    9 44 11     117.6      17.62     301.51
    110.00    13 32 27   5252.64      33.01     236.96      17.98       99.43   15  0  0    4652.6      33.96     227.85
 DIFFERENTIAL CORRECTIONS                          MID-COURSE EXECUTION ACCURACY                ORBIT DETERMINATION ACCURACY
  TDE-1.7777 TRA -.9256 TC3-4.2277 BAU  .8162      SGT 4486.4 SGR  484.2 SG3  434.6            ST  2727.7 SR   452.3 SS  1434.6
  RDE  .2997 RRA  .0201 RC3  .2231 FAU .07944      RRT -.8351 RRF -.9018 RTF  .9540            CRT -.9876 CRS  .9998 CST -.9891
  FDE-2.3007 FRA -.2075 FC3-4.7694 BSP  13929      SGB 4512.5 R23  .1860 R13 -.9550            LSA 3108.8 MSA  195.5 SSA     8.5
  BDE 1.8028 BRA  .9258 BC3 4.2336 FSP  -1392      SG1 4504.6 SG2  265.3 THA 174.83            EL1 2764.0 EL2   70.1 ALF 170.69
```

LAUNCH DATE JUN 28 1967 FLIGHT TIME 158.00 ARRIVAL DATE DEC 3 1967

DISTANCE 453.166

HELIOCENTRIC CONIC
RL 152.08 LAL .00 LOL 275.63 VL 26.600 GAL -1.70 AZL 94.93 HCA 212.93 SMA 127.89 ECC .19142 INC 4.9318 V1 29.295
RP 107.48 LAP 2.68 LOP 128.47 VP 37.840 GAP 6.15 AZP 85.86 TAL 187.23 TAP 40.16 RCA 103.41 APO 152.36 V2 35.259
RC 129.165 GL -37.95 GP 16.07 ZAL 103.20 ZAP 146.38 ETS 26.16 ZAE 131.21 ETE 165.28 ZAC 101.73 ETC 19.22 CLP-150.06

PLANETOCENTRIC CONIC
C3 13.813 VHL 3.717 DLA -30.22 RAL 153.53 RAD 6567.5 VEL 11.628 PTH 2.04 VHP 4.879 DPA 26.35 RAP 167.92 ECC 1.2273

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.98	7 43 59	1094.90	22.97	340.51	16.80	110.19	8 2 14	494.9	25.52	332.60
101.02	10 42 17	5808.39	22.99	276.12	16.81	110.18	12 19 5	5208.4	25.53	268.22
78.98	7 43 59	1094.90	22.97	340.51	16.80	110.19	8 2 14	494.9	25.52	332.60
101.02	10 42 17	5808.39	22.99	276.12	16.81	110.18	12 19 5	5208.4	25.53	268.22
110.00	9 39 17	719.11	13.47	308.31	11.94	121.72	9 51 16	119.1	17.56	301.59
110.00	13 46 9	5232.18	33.23	235.40	19.77	98.53	15 13 21	4632.2	34.05	226.26

DIFFERENTIAL CORRECTIONS
TDE-1.7887 TRA -.8279 TC3-4.5464 BAU .8401
RDE .2714 RRA .0146 RC3 .1536 FAU .07598
FDE-2.1651 FRA -.0727 FC3-4.7620 BSP 14316
BDE 1.8092 BRA .8280 BC3 4.5490 FSP -1350

MID-COURSE EXECUTION ACCURACY
SGT 4605.0 SGR 434.5 SG3 420.5
RRT -.7887 RRF -.8532 RTF .9530
SGB 4625.4 R23 .1611 R13 -.9537
SG1 4617.7 SG2 266.4 THA 175.73

ORBIT DETERMINATION ACCURACY
ST 2794.7 SR 418.5 SS 1407.7
CRT -.9897 CRS .9997 CST -.9891
LSA 3151.3 MSA 191.0 SSA 9.6
EL1 2825.2 EL2 59.2 ALF 171.57

LAUNCH DATE JUN 28 1967 FLIGHT TIME 160.00 ARRIVAL DATE DEC 5 1967

DISTANCE 459.174

HELIOCENTRIC CONIC
RL 152.08 LAL .00 LOL 275.63 VL 26.561 GAL -1.43 AZL 94.73 HCA 216.18 SMA 127.63 ECC .19315 INC 4.7344 V1 29.295
RP 107.48 LAP 2.79 LOP 131.72 VP 37.813 GAP 6.47 AZP 86.18 TAL 185.98 TAP 42.16 RCA 102.97 APO 152.28 V2 35.259
RC 131.355 GL -36.86 GP 14.40 ZAL 101.37 ZAP 148.53 ETS 25.19 ZAE 131.05 ETE 167.08 ZAC 100.79 ETC 18.28 CLP-151.71

PLANETOCENTRIC CONIC
C3 13.349 VHL 3.654 DLA -30.17 RAL 156.21 RAD 6567.5 VEL 11.608 PTH 2.03 VHP 4.993 DPA 24.20 RAP 168.74 ECC 1.2197

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.13	7 55 49	1083.87	23.11	339.74	18.95	109.95	8 13 53	483.9	25.62	331.82
100.87	10 51 52	5804.52	23.12	275.89	18.96	109.94	12 28 37	5204.5	25.63	267.96
79.13	7 55 49	1083.87	23.11	339.74	18.95	109.95	8 13 53	483.9	25.62	331.82
100.87	10 51 52	5804.52	23.12	275.89	18.96	109.94	12 28 37	5204.5	25.63	267.96
110.00	9 49 13	714.22	13.64	308.04	14.14	121.65	10 1 8	114.2	17.73	301.31
110.00	13 57 38	5222.17	33.33	234.64	21.84	98.09	15 24 40	4622.2	34.08	225.48

DIFFERENTIAL CORRECTIONS
TDE-1.8057 TRA -.7218 TC3-4.8250 BAU .8613
RDE .2512 RRA .0120 RC3 .0907 FAU .07201
FDE-2.0360 FRA .0553 FC3-4.6702 BSP 14611
BDE 1.8231 BRA .7219 BC3 4.8259 FSP -1293

MID-COURSE EXECUTION ACCURACY
SGT 4707.9 SGR 400.1 SG3 403.9
RRT -.7314 RRF -.7924 RTF .9516
SGB 4724.8 R23 .1378 R13 -.9521
SG1 4717.0 SG2 272.3 THA 176.43

ORBIT DETERMINATION ACCURACY
ST 2860.8 SR 394.0 SS 1378.2
CRT -.9921 CRS .9993 CST -.9892
LSA 3194.3 MSA 186.2 SSA 10.7
EL1 2887.4 EL2 48.8 ALF 172.22

LAUNCH DATE JUN-28 1967 FLIGHT TIME 162.00 ARRIVAL DATE DEC 7 1967

DISTANCE 465.163

HELIOCENTRIC CONIC
RL 152.08 LAL .00 LOL 275.63 VL 26.520 GAL -1.14 AZL 94.57 HCA 219.43 SMA 127.36 ECC .19503 INC 4.5654 V1 29.295
RP 107.48 LAP 2.90 LOP 134.97 VP 37.784 GAP 6.79 AZP 86.47 TAL 184.72 TAP 44.14 RCA 102.52 APO 152.20 V2 35.259
RC 133.537 GL -35.83 GP 13.01 ZAL 99.36 ZAP 150.49 ETS 24.39 ZAE 130.84 ETE 168.56 ZAC 99.65 ETC 17.45 CLP-153.28

PLANETOCENTRIC CONIC
C3 13.001 VHL 3.606 DLA -30.24 RAL 158.99 RAD 6567.5 VEL 11.593 PTH 2.03 VHP 5.118 DPA 22.28 RAP 169.76 ECC 1.2140

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.91	8 5 15	1083.38	23.30	339.78	21.36	109.85	8 23 19	483.4	25.79	331.84
101.09	11 4 36	5793.57	23.31	275.14	21.36	109.84	12 41 9	5193.6	25.80	267.20
78.91	8 5 15	1083.38	23.30	339.78	21.36	109.85	8 23 19	483.4	25.79	331.84
101.09	11 4 36	5793.57	23.31	275.14	21.36	109.84	12 41 9	5193.6	25.80	267.20
110.00	10 1 26	704.75	13.98	307.51	16.63	121.52	10 13 11	104.7	18.05	300.76
110.00	14 7 35	5220.20	33.35	234.49	24.18	98.00	15 34 36	4620.2	34.09	225.32

DIFFERENTIAL CORRECTIONS
TDE-1.8346 TRA -.6125 TC3-5.0818 BAU .8833
RDE .2380 RRA .0121 RC3 .0374 FAU .06823
FDE-1.9259 FRA .1679 FC3-4.5434 BSP 14972
BDE 1.8500 BRA .6126 BC3 5.0819 FSP -1245

MID-COURSE EXECUTION ACCURACY
SGT 4816.4 SGR 379.8 SG3 388.3
RRT -.6703 RRF -.7258 RTF .9508
SGB 4831.3 R23 .1162 R13 -.9512
SG1 4823.1 SG2 281.5 THA 176.96

ORBIT DETERMINATION ACCURACY
ST 2936.8 SR 378.3 SS 1354.6
CRT -.9946 CRS .9984 CST -.9894
LSA 3251.2 MSA 181.0 SSA 11.8
EL1 2960.8 EL2 38.9 ALF 172.70

LAUNCH DATE JUN 28 1967 FLIGHT TIME 164.00 ARRIVAL DATE DEC 9 1967

DISTANCE 471.133

HELIOCENTRIC CONIC
RL 152.08 LAL .00 LOL 275.63 VL 26.480 GAL -.84 AZL 94.42 HCA 222.67 SMA 127.10 ECC .19704 INC 4.4182 V1 29.295
RP 107.48 LAP 2.99 LOP 138.22 VP 37.754 GAP 7.12 AZP 86.75 TAL 183.43 TAP 46.10 RCA 102.06 APO 152.15 V2 35.257
RC 135.709 GL -34.83 GP 11.85 ZAL 97.19 ZAP 152.30 ETS 23.73 ZAE 130.59 ETE 169.81 ZAC 98.36 ETC 16.71 CLP-154.78

PLANETOCENTRIC CONIC
C3 12.752 VHL 3.571 DLA -30.41 RAL 161.87 RAD 6567.5 VEL 11.582 PTH 2.03 VHP 5.252 DPA 20.52 RAP 170.93 ECC 1.2099

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.42	8 13 7	1090.72	23.52	340.41	24.00	109.86	8 31 18	490.7	26.01	332.46
101.58	11 19 42	5777.91	23.53	274.06	24.00	109.84	12 56 0	5177.9	26.02	266.10
78.42	8 13 7	1090.72	23.52	340.41	24.00	109.86	8 31 18	490.7	26.01	332.46
101.58	11 19 42	5777.91	23.53	274.06	24.00	109.84	12 56 0	5177.9	26.02	266.10
110.00	10 15 31	691.99	14.43	306.80	19.40	121.33	10 27 3	92.0	18.47	300.02
110.00	14 16 29	5224.64	33.30	234.83	26.77	98.20	15 43 34	4624.6	34.08	225.67

DIFFERENTIAL CORRECTIONS
TDE-1.8701 TRA -.4958 TC3-5.3055 BAU .9045
RDE .2297 RRA .0136 RC3 -.0081 FAU .06448
FDE-1.8272 FRA .2712 FC3-4.3776 BSP 15338
BDE 1.8841 BRA .4960 BC3 5.3055 FSP -1200

MID-COURSE EXECUTION ACCURACY
SGT 4920.5 SGR 369.5 SG3 372.9
RRT -.6091 RRF -.6583 RTF .9502
SGB 4934.4 R23 .0977 R13 -.9505
SG1 4925.7 SG2 292.7 THA 177.37

ORBIT DETERMINATION ACCURACY
ST 3015.4 SR 368.6 SS 1332.8
CRT -.9967 CRS .9969 CST -.9897
LSA 3312.7 MSA 175.6 SSA 12.9
EL1 3037.7 EL2 29.6 ALF 173.05

LAUNCH DATE JUN 28 1967 FLIGHT TIME 166.00 ARRIVAL DATE DEC 11 1967

HELIOCENTRIC CONIC DISTANCE 477.084

```
RL  152.08 LAL    .00 LOL 275.63 VL  26.439 GAL   -.53 AZL  94.29 HCA 225.92 SMA 126.84 ECC .19920 INC 4.2881 V1  29.295
RP  107.49 LAP   3.08 LOP 141.47 VP  37.724 GAP   7.45 AZP  87.01 TAL 182.12 TAP  48.04 RCA 101.57 APO 152.10 V2  35.255
RC 137.871 GL  -33.85 GP   10.86 ZAL  94.87 ZAP 153.98 ETS  23.21 ZAE 130.32 ETE 170.86 ZAC  96.93 ETC  16.05 CLP-156.21
```

PLANETOCENTRIC CONIC

```
C3  12.592 VHL  3.549 DLA -30.65 RAL 164.85 RAD 6567.5 VEL 11.575 PTH   2.02 VHP  5.393 DPA  18.89 RAP 172.23 ECC 1.2072
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.76	8 20 15	1103.20	23.76	341.44	26.86	109.95	8 38 38	503.2	26.26	333.47
102.24	11 36 24	5760.03	23.77	272.82	26.86	109.94	13 12 24	5160.0	26.26	264.84
77.76	8 20 15	1103.20	23.76	341.44	26.86	109.95	8 38 38	503.2	26.26	333.47
102.24	11 36 24	5760.03	23.77	272.82	26.86	109.94	13 12 24	5160.0	26.26	264.84
110.00	10 31 10	676.95	14.96	305.96	22.42	121.10	10 42 27	77.0	18.97	299.14
110.00	14 24 39	5234.28	33.21	235.56	29.60	98.62	15 51 54	4634.3	34.04	226.42

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.9097 TRA -.3710 TC3-5.4921 BAU  .9246   SGT 5018.5 SGR  366.1 SG3  357.6     ST  3092.7 SR   363.4 SS  1310.3
RDE  .2250 RRA  .0161 RC3 -.0462 FAU .06079   RRT -.5518 RRF -.5943 RTF  .9498     CRT -.9983 CRS  .9946 CST -.9901
FDE-1.7361 FRA  .3660 FC3-4.1796 BSP  15663   SGB 5031.8 R23  .0819 R13 -.9500     LSA 3374.1 MSA  170.1 SSA   14.0
BDE 1.9229 BRA  .3713 BC3 5.4923 FSP  -1152   SG1 5022.5 SG2  305.0 THA 177.69     EL1 3113.9 EL2   21.2 ALF 173.31
```

LAUNCH DATE JUN 28 1967 FLIGHT TIME 168.00 ARRIVAL DATE DEC 13 1967

HELIOCENTRIC CONIC DISTANCE 483.015

```
RL  152.08 LAL    .00 LOL 275.63 VL  26.398 GAL   -.20 AZL  94.17 HCA 229.17 SMA 126.57 ECC .20153 INC 4.1715 V1  29.295
RP  107.50 LAP   3.16 LOP 144.73 VP  37.692 GAP   7.78 AZP  87.27 TAL 180.79 TAP  49.96 RCA 101.07 APO 152.08 V2  35.253
RC 140.023 GL  -32.87 GP   10.01 ZAL  92.44 ZAP 155.56 ETS  22.80 ZAE 130.06 ETE 171.74 ZAC  95.38 ETC  15.45 CLP-157.59
```

PLANETOCENTRIC CONIC

```
C3  12.517 VHL  3.538 DLA -30.92 RAL 167.94 RAD 6567.5 VEL 11.572 PTH   2.02 VHP  5.541 DPA  17.37 RAP 173.64 ECC 1.2060
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.02	8 27 12	1118.90	23.99	342.71	29.94	110.12	8 45 51	518.9	26.51	334.73
102.98	11 54 5	5741.78	24.00	271.54	29.95	110.10	13 29 47	5141.8	26.52	263.56
77.02	8 27 12	1118.90	23.99	342.71	29.94	110.12	8 45 51	518.9	26.51	334.73
102.98	11 54 5	5741.78	24.00	271.54	29.95	110.10	13 29 47	5141.8	26.52	263.56
110.00	10 48 5	660.56	15.54	305.04	25.67	120.84	10 59 5	60.6	19.51	298.17
110.00	14 32 23	5248.12	33.06	236.62	32.64	99.23	15 59 51	4648.1	33.98	227.50

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.9553 TRA -.2397 TC3-5.6386 BAU  .9437   SGT 5113.8 SGR  368.5 SG3  343.3     ST  3171.8 SR   362.7 SS  1292.6
RDE  .2239 RRA  .0194 RC3 -.0769 FAU .05725   RRT -.5028 RRF -.5398 RTF  .9499     CRT -.9990 CRS  .9916 CST -.9906
FDE-1.6590 FRA  .4498 FC3-3.9599 BSP  16030   SGB 5127.1 R23  .0697 R13 -.9501     LSA 3440.3 MSA  164.2 SSA   15.0
BDE 1.9681 BRA  .2405 BC3 5.6392 FSP  -1116   SG1 5117.2 SG2  318.3 THA 177.92     EL1 3192.4 EL2   15.9 ALF 173.48
```

LAUNCH DATE JUN 28 1967 FLIGHT TIME 170.00 ARRIVAL DATE DEC 15 1967

HELIOCENTRIC CONIC DISTANCE 488.924

```
RL  152.08 LAL    .00 LOL 275.63 VL  26.356 GAL    .14 AZL  94.07 HCA 232.41 SMA 126.31 ECC .20402 INC 4.0659 V1  29.295
RP  107.51 LAP   3.22 LOP 147.98 VP  37.660 GAP   8.11 AZP  87.52 TAL 179.45 TAP  51.86 RCA 100.54 APO 152.08 V2  35.249
RC 142.165 GL  -31.87 GP    9.27 ZAL  89.89 ZAP 157.04 ETS  22.51 ZAE 129.81 ETE 172.50 ZAC  93.74 ETC  14.92 CLP-158.91
```

PLANETOCENTRIC CONIC

```
C3  12.525 VHL  3.539 DLA -31.22 RAL 171.13 RAD 6567.5 VEL 11.572 PTH   2.02 VHP  5.695 DPA  15.92 RAP 175.14 ECC 1.2061
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.26	8 34 31	1136.10	24.21	344.10	33.23	110.34	8 53 27	536.1	26.76	336.11
103.74	12 12 13	5724.86	24.22	270.35	33.23	110.33	13 47 38	5124.9	26.77	262.37
76.26	8 34 31	1136.10	24.21	344.10	33.23	110.34	8 53 27	536.1	26.76	336.11
103.74	12 12 13	5724.86	24.22	270.35	33.23	110.33	13 47 38	5124.9	26.77	262.37
110.00	11 6 1	643.69	16.12	304.08	29.13	120.56	11 16 44	43.7	20.06	297.17
110.00	14 39 53	5265.27	32.87	237.92	35.90	99.97	16 7 38	4665.3	33.89	228.83

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-1.9951 TRA -.0961 TC3-5.7412 BAU  .9615   SGT 5194.2 SGR  371.9 SG3  327.3     ST  3232.8 SR   362.6 SS  1257.6
RDE  .2238 RRA  .0223 RC3 -.1021 FAU .05363   RRT -.4578 RRF -.4873 RTF  .9490     CRT -.9989 CRS  .9874 CST -.9907
FDE-1.5667 FRA  .5361 FC3-3.7069 BSP  16313   SGB 5207.5 R23  .0575 R13 -.9491     LSA 3484.0 MSA  160.1 SSA   16.0
BDE 2.0077 BRA  .0986 BC3 5.7422 FSP  -1060   SG1 5197.0 SG2  330.5 THA 178.11     EL1 3253.0 EL2   17.0 ALF 173.61
```

LAUNCH DATE JUN 28 1967 FLIGHT TIME 172.00 ARRIVAL DATE DEC 17 1967

HELIOCENTRIC CONIC DISTANCE 494.812

```
RL  152.08 LAL    .00 LOL 275.63 VL  26.315 GAL    .50 AZL  93.97 HCA 235.66 SMA 126.05 ECC .20669 INC 3.9691 V1  29.295
RP  107.52 LAP   3.28 LOP 151.23 VP  37.627 GAP   8.45 AZP  87.76 TAL 178.09 TAP  53.74 RCA  99.99 APO 152.10 V2  35.245
RC 144.295 GL  -30.85 GP    8.64 ZAL  87.25 ZAP 158.44 ETS  22.33 ZAE 129.57 ETE 173.14 ZAC  92.02 ETC  14.44 CLP-160.17
```

PLANETOCENTRIC CONIC

```
C3  12.617 VHL  3.552 DLA -31.53 RAL 174.41 RAD 6567.5 VEL 11.576 PTH   2.02 VHP  5.855 DPA  14.54 RAP 176.71 ECC 1.2076
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.52	8 42 27	1153.87	24.40	345.52	36.71	110.61	9 1 40	553.9	26.98	337.53
104.48	12 30 27	5710.22	24.41	269.33	36.72	110.60	14 5 37	5110.2	26.99	261.34
75.52	8 42 27	1153.87	24.40	345.52	36.71	110.61	9 1 40	553.9	26.98	337.53
104.48	12 30 27	5710.22	24.41	269.33	36.72	110.60	14 5 37	5110.2	26.99	261.34
110.00	11 24 41	627.13	16.69	303.14	32.80	120.27	11 35 8	27.1	20.59	296.18
110.00	14 47 23	5284.95	32.62	239.40	39.34	100.82	16 15 28	4685.0	33.77	230.35

```
DIFFERENTIAL CORRECTIONS                    MID-COURSE EXECUTION ACCURACY          ORBIT DETERMINATION ACCURACY
TDE-2.0404 TRA  .0598 TC3-5.7957 BAU  .9778   SGT 5272.4 SGR  379.2 SG3  313.6     ST  3293.8 SR   366.6 SS  1232.8
RDE  .2271 RRA  .0252 RC3 -.1203 FAU .05026   RRT -.4243 RRF -.4489 RTF  .9486     CRT -.9978 CRS  .9826 CST -.9910
FDE-1.4944 FRA  .6164 FC3-3.4487 BSP  16492   SGB 5286.0 R23  .0494 R13 -.9487     LSA 3532.5 MSA  156.1 SSA   16.9
BDE 2.0530 BRA  .0650 BC3 5.7970 FSP  -1009   SG1 5274.9 SG2  343.2 THA 178.24     EL1 3314.0 EL2   24.2 ALF 173.66
```

LAUNCH DATE JUN 28 1967 FLIGHT TIME 174.00 ARRIVAL DATE DEC 19 1967

HELIOCENTRIC CONIC DISTANCE 500.676

```
RL  152.08 LAL    .00 LOL 275.63 VL  26.273 GAL   .87 AZL  93.88 HCA 238.90 SMA 125.79 ECC .20956 INC 3.8796 V1  29.295
RP  107.53 LAP   3.32 LOP 154.48 VP  37.593 GAP  8.79 AZP  87.99 TAL 176.71 TAP  55.61 RCA  99.43 APO 152.15 V2  35.240
RC 146.414 GL  -29.79 GP    8.08 ZAL  84.54 ZAP 159.78 ETS  22.26 ZAE 129.34 ETE 173.69 ZAC  90.23 ETC  14.00 CLP-161.40
```

PLANETOCENTRIC CONIC

```
C3  12.796 VHL  3.577 DLA -31.82 RAL 177.77 RAD 6567.5 VEL 11.584 PTH   2.03 VHP  6.022 DPA  13.21 RAP 178.35 ECC 1.2106
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.84	8 51 10	1171.52	24.54	346.91	40.37	110.92	9 10 42	571.5	27.16	338.93
105.16	12 48 31	5698.61	24.55	268.50	40.38	110.90	14 23 30	5098.6	27.17	260.52
74.84	8 51 10	1171.52	24.54	346.91	40.37	110.92	9 10 42	571.5	27.16	338.93
105.16	12 48 31	5698.61	24.55	268.50	40.38	110.90	14 23 30	5098.6	27.17	260.52
110.00	11 43 45	611.90	17.21	302.26	36.64	120.00	11 53 56	11.9	21.07	295.26
110.00	14 55 8	5306.22	32.34	241.00	42.97	101.73	16 23 34	4706.2	33.62	232.00

DIFFERENTIAL CORRECTIONS

```
TDE-2.0896 TRA  .2194 TC3-5.8189 BAU  .9957
RDE  .2324 RRA  .0283 RC3 -.1320 FAU .04723
FDE-1.4279 FRA  .6846 FC3-3.1953 BSP  16818
BDE 2.1024 BRA  .2212 BC3 5.8204 FSP   -974
```

MID-COURSE EXECUTION ACCURACY

```
SGT 5357.6 SGR  387.8 SG3  300.8
RRT -.3999 RRF -.4198 RTF  .9492
SGB 5371.6 R23  .0421 R13 -.9493
SG1 5359.8 SG2  355.3 THA 178.33
```

ORBIT DETERMINATION ACCURACY

```
ST  3351.5 SR   372.7 SS  1207.4
CRT -.9958 CRS  .9772 CST -.9915
LSA 3578.5 MSA  152.2 SSA   17.8
EL1 3372.0 EL2   33.9 ALF 173.68
```

LAUNCH DATE JUN 28 1967 FLIGHT TIME 176.00 ARRIVAL DATE DEC 21 1967

HELIOCENTRIC CONIC DISTANCE 506.516

```
RL  152.08 LAL    .00 LOL 275.63 VL  26.231 GAL  1.26 AZL  93.80 HCA 242.14 SMA 125.52 ECC .21263 INC 3.7960 V1  29.295
RP  107.55 LAP   3.36 LOP 157.73 VP  37.559 GAP  9.14 AZP  88.22 TAL 175.33 TAP  57.47 RCA  98.83 APO 152.22 V2  35.234
RC 148.521 GL  -28.70 GP    7.59 ZAL  81.76 ZAP 161.05 ETS  22.30 ZAE 129.13 ETE 174.17 ZAC  88.37 ETC  13.61 CLP-162.58
```

PLANETOCENTRIC CONIC

```
C3  13.067 VHL  3.615 DLA -32.08 RAL 181.19 RAD 6567.5 VEL 11.595 PTH   2.03 VHP  6.195 DPA  11.92 RAP 180.05 ECC 1.2151
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.25	9 0 48	1188.61	24.63	348.25	44.19	111.25	9 20 37	588.6	27.29	340.27
105.75	13 6 12	5690.53	24.64	267.93	44.20	111.23	14 41 3	5090.5	27.30	259.95
74.25	9 0 48	1188.61	24.63	348.25	44.19	111.25	9 20 37	588.6	27.29	340.27
105.75	13 6 12	5690.53	24.64	267.93	44.20	111.23	14 41 3	5090.5	27.30	259.95
110.00	12 2 51	5886.98	17.65	279.42	40.63	119.76	13 40 58	5287.0	21.48	272.38
110.00	15 3 20	5328.20	32.02	242.63	46.75	102.65	16 32 8	4728.2	33.43	233.68

DIFFERENTIAL CORRECTIONS

```
TDE-2.1343 TRA  .3908 TC3-5.7854 BAU 1.0110
RDE  .2394 RRA  .0307 RC3 -.1391 FAU .04418
FDE-1.3603 FRA  .7503 FC3-2.9274 BSP  17074
BDE 2.1477 BRA  .3920 BC3 5.7871 FSP   -936
```

MID-COURSE EXECUTION ACCURACY

```
SGT 5428.9 SGR  396.7 SG3  287.8
RRT -.3812 RRF -.3970 RTF  .9495
SGB 5443.4 R23  .0361 R13 -.9496
SG1 5431.1 SG2  366.6 THA 178.40
```

ORBIT DETERMINATION ACCURACY

```
ST  3392.3 SR   379.8 SS  1176.4
CRT -.9929 CRS  .9711 CST -.9918
LSA 3607.4 MSA  149.6 SSA   18.4
EL1 3413.2 EL2   44.8 ALF 173.66
```

LAUNCH DATE JUN 28 1967 FLIGHT TIME 178.00 ARRIVAL DATE DEC 23 1967

HELIOCENTRIC CONIC DISTANCE 512.329

```
RL  152.08 LAL    .00 LOL 275.63 VL  26.189 GAL  1.67 AZL  93.72 HCA 245.39 SMA 125.26 ECC .21593 INC 3.7173 V1  29.295
RP  107.57 LAP   3.38 LOP 160.97 VP  37.523 GAP  9.50 AZP  88.45 TAL 173.93 TAP  59.32 RCA  98.22 APO 152.31 V2  35.228
RC 150.615 GL  -27.58 GP    7.15 ZAL  78.95 ZAP 162.26 ETS  22.45 ZAE 128.93 ETE 174.58 ZAC  86.45 ETC  13.26 CLP-163.72
```

PLANETOCENTRIC CONIC

```
C3  13.436 VHL  3.666 DLA -32.31 RAL 184.66 RAD 6567.5 VEL 11.611 PTH   2.03 VHP  6.375 DPA  10.66 RAP 181.80 ECC 1.2211
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.75	9 11 21	1204.92	24.64	349.50	48.15	111.59	9 31 26	604.9	27.35	341.54
106.25	13 23 21	5686.30	24.65	267.61	48.16	111.58	14 58 7	5086.3	27.36	259.65
73.75	9 11 21	1204.92	24.64	349.50	48.15	111.59	9 31 26	604.9	27.35	341.54
106.25	13 23 21	5686.30	24.65	267.61	48.16	111.58	14 58 7	5086.3	27.36	259.65
110.00	12 21 36	5877.36	17.98	278.86	44.73	119.58	13 59 34	5277.4	21.78	271.79
110.00	15 12 16	5349.89	31.69	244.23	50.68	103.54	16 41 26	4749.9	33.23	235.34

DIFFERENTIAL CORRECTIONS

```
TDE-2.1758 TRA  .5752 TC3-5.7013 BAU 1.0245
RDE  .2479 RRA  .0324 RC3 -.1416 FAU .04122
FDE-1.2946 FRA  .8147 FC3-2.6556 BSP  17266
BDE 2.1898 BRA  .5762 BC3 5.7031 FSP   -895
```

MID-COURSE EXECUTION ACCURACY

```
SGT 5492.5 SGR  405.6 SG3  275.3
RRT -.3682 RRF -.3805 RTF  .9497
SGB 5507.5 R23  .0314 R13 -.9497
SG1 5494.6 SG2  377.0 THA 178.44
```

ORBIT DETERMINATION ACCURACY

```
ST  3418.1 SR   388.0 SS  1142.6
CRT -.9892 CRS  .9642 CST -.9920
LSA 3621.8 MSA  148.5 SSA   19.0
EL1 3439.6 EL2   56.4 ALF 173.59
```

LAUNCH DATE JUN 28 1967 FLIGHT TIME 180.00 ARRIVAL DATE DEC 25 1967

HELIOCENTRIC CONIC DISTANCE 518.114

```
RL  152.08 LAL    .00 LOL 275.63 VL  26.147 GAL  2.09 AZL  93.64 HCA 248.63 SMA 125.01 ECC .21947 INC 3.6426 V1  29.295
RP  107.59 LAP   3.39 LOP 164.22 VP  37.488 GAP  9.86 AZP  88.67 TAL 172.53 TAP  61.15 RCA  97.57 APO 152.44 V2  35.221
RC 152.696 GL  -26.43 GP    6.77 ZAL  76.12 ZAP 163.43 ETS  22.73 ZAE 128.75 ETE 174.93 ZAC  84.49 ETC  12.94 CLP-164.84
```

PLANETOCENTRIC CONIC

```
C3  13.912 VHL  3.730 DLA -32.48 RAL 188.16 RAD 6567.5 VEL 11.632 PTH   2.04 VHP  6.563 DPA   9.43 RAP 183.59 ECC 1.2290
```

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.38	9 22 50	1220.15	24.57	350.63	52.23	111.94	9 43 10	620.2	27.33	342.70
106.62	13 39 44	5686.27	24.58	267.58	52.24	111.93	15 14 31	5086.3	27.34	259.64
73.38	9 22 50	1220.15	24.57	350.63	52.23	111.94	9 43 10	620.2	27.33	342.70
106.62	13 39 44	5686.27	24.58	267.58	52.24	111.93	15 14 31	5086.3	27.34	259.64
110.00	12 39 34	5872.21	18.15	278.56	48.92	119.48	14 17 26	5272.2	21.93	271.48
110.00	15 22 11	5370.25	31.36	245.73	54.75	104.37	16 51 41	4770.2	33.01	236.89

DIFFERENTIAL CORRECTIONS

```
TDE-2.2163 TRA  .7684 TC3-5.5800 BAU 1.0382
RDE  .2582 RRA  .0333 RC3 -.1399 FAU .03846
FDE-1.2327 FRA  .8743 FC3-2.3935 BSP  17496
BDE 2.2313 BRA  .7692 BC3 5.5817 FSP   -859
```

MID-COURSE EXECUTION ACCURACY

```
SGT 5556.6 SGR  414.5 SG3  263.6
RRT -.3607 RRF -.3700 RTF  .9501
SGB 5572.0 R23  .0275 R13 -.9501
SG1 5558.6 SG2  386.5 THA 178.45
```

ORBIT DETERMINATION ACCURACY

```
ST  3432.5 SR   397.0 SS  1107.8
CRT -.9849 CRS  .9568 CST -.9922
LSA 3625.5 MSA  148.7 SSA   19.3
EL1 3454.7 EL2   68.4 ALF 173.50
```

LAUNCH DATE JUN 28 1967 FLIGHT TIME 182.00 ARRIVAL DATE DEC 27 1967

HELIOCENTRIC CONIC DISTANCE 523.869

RL 152.08 LAL .00 LOL 275.63 VL 26.106 GAL 2.53 AZL 93.57 HCA 251.87 SMA 124.75 ECC .22327 INC 3.5711 VI 29.295
RP 107.62 LAP - 3.39 LOP 167.47 VP 37.452 GAP 10.24 AZP 88.89 TAL 171.11 TAP 62.98 RCA 96.90 APO 152.60 V2 35.214
RC 154.762 GL -25.25 GP 6.43 ZAL 73.28 ZAP 164.55 ETS 23.14 ZAE 128.58 ETE 175.24 ZAC 82.49 ETC 12.67 CLP-165.92

PLANETOCENTRIC CONIC

C3 14.504 VHL 3.808 DLA -32.60 RAL 191.66 RAD 6567.6 VEL 11.657 PTH 2.05 VHP 6.759 DPA 8.23 RAP 185.42 ECC 1.2387

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.13	9 35 10	1234.37	24.42	351.65	56.40	112.30	9 55 45	634.4	27.22	343.75
106.87	13 55 19	5690.44	24.43	267.83	56.41	112.28	15 30 9	5090.4	27.23	259.92
73.13	9 35 10	1234.37	24.42	351.65	56.40	112.30	9 55 45	634.4	27.22	343.75
106.87	13 55 19	5690.44	24.43	267.83	56.41	112.28	15 30 9	5090.4	27.23	259.92
110.00	12 56 19	5872.56	18.14	278.58	53.14	119.48	14 34 11	5272.6	21.92	271.50
110.00	15 33 21	5388.29	31.04	247.04	58.94	105.09	17 3 9	4788.3	32.80	238.26

DIFFERENTIAL CORRECTIONS
TOE-2.2541 TRA .9724 TC3-5.4176 BAU 1.0508
RDE .2700 RRA .0334 RC3 -.1347 FAU .03584
FDE-1.1739 FRA .9300 FC3-2.1391 BSP 17718
BDE 2.2702 BRA .9729 BC3 5.4193 FSP -826

MID-COURSE EXECUTION ACCURACY
SGT 5616.3 SGR 423.1 SG3 252.4
RRT -.3578 RRF -.3649 RTF .9507
SGB 5632.3 R23 .0247 R13 -.9507
SG1 5618.4 SG2 395.0 THA 178.45

ORBIT DETERMINATION ACCURACY
ST 3433.2 SR 406.5 SS 1072.0
CRT -.9798 CRS .9490 CST -.9925
LSA 3616.4 MSA 150.2 SSA 19.4
EL1 3456.2 EL2 80.7 ALF 173.38

LAUNCH DATE JUN 28 1967 FLIGHT TIME 184.00 ARRIVAL DATE DEC 29 1967

HELIOCENTRIC CONIC DISTANCE 529.590

RL 152.08 LAL .00 LOL 275.63 VL 26.064 GAL 3.00 AZL 93.50 HCA 255.10 SMA 124.50 ECC .22735 INC 3.5023 VI 29.295
RP 107.64 LAP 3.38 LOP 170.71 VP 37.415 GAP 10.62 AZP 89.10 TAL 169.69 TAP 64.80 RCA 96.19 APO 152.80 V2 35.205
RC 156.813 GL -24.05 GP 6.12 ZAL 70.45 ZAP 165.63 ETS 23.70 ZAE 128.42 ETE 175.51 ZAC 80.45 ETC 12.42 CLP-166.97

PLANETOCENTRIC CONIC

C3 15.224 VHL 3.902 DLA -32.65 RAL 195.14 RAD 6567.6 VEL 11.688 PTH 2.06 VHP 6.963 DPA 7.05 RAP 187.28 ECC 1.2506

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.02	9 48 20	1247.40	24.18	352.54	60.65	112.64	10 9 8	647.4	27.03	344.67
106.98	14 9 55	5699.04	24.19	268.38	60.65	112.63	15 44 54	5099.0	27.04	260.50
73.02	9 48 20	1247.40	24.18	352.54	60.65	112.64	10 9 8	647.4	27.03	344.67
106.98	14 9 55	5699.04	24.19	268.38	60.65	112.63	15 44 54	5099.0	27.04	260.50
110.00	13 11 31	5879.23	17.91	278.97	57.36	119.61	14 49 30	5279.2	21.72	271.91
110.00	15 45 55	5403.25	30.77	248.12	63.23	105.67	17 15 58	4803.3	32.61	239.39

DIFFERENTIAL CORRECTIONS
TOE-2.2833 TRA 1.1919 TC3-5.2087 BAU 1.0605
RDE .2829 RRA .0323 RC3 -.1273 FAU .03321
FDE-1.1133 FRA .9865 FC3-1.8886 BSP 17842
BDE 2.3008 BRA 1.1923 BC3 5.2103 FSP -789

MID-COURSE EXECUTION ACCURACY
SGT 5664.3 SGR 430.8 SG3 241.4
RRT -.3573 RRF -.3620 RTF .9510
SGB 5680.7 R23 .0220 R13 -.9510
SG1 5666.4 SG2 402.3 THA 178.44

ORBIT DETERMINATION ACCURACY
ST 3412.6 SR 415.8 SS 1031.8
CRT -.9740 CRS .9400 CST -.9925
LSA 3585.9 MSA 153.9 SSA 19.3
EL1 3436.5 EL2 93.6 ALF 173.23

LAUNCH DATE JUN 28 1967 FLIGHT TIME 186.00 ARRIVAL DATE DEC 31 1967

HELIOCENTRIC CONIC DISTANCE 535.276

RL 152.08 LAL .00 LOL 275.63 VL 26.023 GAL 3.49 AZL 93.44 HCA 258.34 SMA 124.24 ECC .23174 INC 3.4356 VI 29.295
RP 107.67 LAP 3.36 LOP 173.96 VP 37.378 GAP 11.02 AZP 89.30 TAL 168.27 TAP 66.61 RCA 95.45 APO 153.04 V2 35.197
RC 158.850 GL -22.84 GP 5.84 ZAL 67.66 ZAP 166.67 ETS 24.44 ZAE 128.27 ETE 175.74 ZAC 78.37 ETC 12.21 CLP-168.00

PLANETOCENTRIC CONIC

C3 16.087 VHL 4.011 DLA -32.64 RAL 198.58 RAD 6567.6 VEL 11.725 PTH 2.07 VHP 7.178 DPA 5.88 RAP 189.18 ECC 1.2647

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.05	10 2 15	1259.27	23.84	353.30	64.94	112.98	10 23 14	659.3	26.74	345.47
106.95	14 23 26	5712.08	23.85	269.22	64.94	112.97	15 58 38	5112.1	26.75	261.39
73.05	10 2 15	1259.27	23.84	353.30	64.94	112.98	10 23 14	659.3	26.74	345.47
106.95	14 23 26	5712.08	23.85	269.22	64.94	112.97	15 58 38	5112.1	26.75	261.39
110.00	13 24 54	604.66	17.46	301.84	61.55	119.87	13 34 59	4.7	21.30	294.82
110.00	15 59 57	5414.69	30.56	248.95	67.62	106.12	17 30 12	4814.7	32.46	240.25

DIFFERENTIAL CORRECTIONS
TOE-2.3120 TRA 1.4193 TC3-4.9789 BAU 1.0711
RDE .2973 RRA .0303 RC3 -.1173 FAU .03084
FDE-1.0578 FRA 1.0376 FC3-1.6597 BSP 18055
BDE 2.3310 BRA 1.4196 BC3 4.9803 FSP -760

MID-COURSE EXECUTION ACCURACY
SGT 5714.6 SGR 438.1 SG3 231.1
RRT -.3608 RRF -.3636 RTF .9517
SGB 5731.4 R23 .0199 R13 -.9517
SG1 5716.8 SG2 408.4 THA 178.41

ORBIT DETERMINATION ACCURACY
ST 3382.9 SR 425.0 SS 993.1
CRT -.9677 CRS .9310 CST -.9927
LSA 3547.6 MSA 158.4 SSA 19.0
EL1 3407.9 EL2 106.4 ALF 173.06

LAUNCH DATE JUN 28 1967 FLIGHT TIME 188.00 ARRIVAL DATE JAN 2 1968

HELIOCENTRIC CONIC DISTANCE 540.922

RL 152.08 LAL .00 LOL 275.63 VL 25.981 GAL 4.00 AZL 93.37 HCA 261.58 SMA 124.00 ECC .23646 INC 3.3704 VI 29.295
RP 107.70 LAP 3.33 LOP 177.20 VP 37.340 GAP 11.44 AZP 89.51 TAL 166.84 TAP 68.42 RCA 94.68 APO 153.31 V2 35.187
RC 160.871 GL -21.62 GP 5.59 ZAL 64.91 ZAP 167.68 ETS 25.38 ZAE 128.13 ETE 175.95 ZAC 76.28 ETC 12.04 CLP-169.01

PLANETOCENTRIC CONIC

C3 17.107 VHL 4.136 DLA -32.56 RAL 201.95 RAD 6567.7 VEL 11.768 PTH 2.08 VHP 7.403 DPA 4.73 RAP 191.10 ECC 1.2815

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.21	10 16 47	1270.01	23.41	353.92	69.25	113.30	10 37 57	670.0	26.36	346.14
106.79	14 35 49	5729.53	23.42	270.36	69.26	113.29	16 11 19	5129.5	26.36	262.57
73.21	10 16 47	1270.01	23.41	353.92	69.25	113.30	10 37 57	670.0	26.36	346.14
106.79	14 35 49	5729.53	23.42	270.36	69.26	113.29	16 11 19	5129.5	26.36	262.57
110.00	13 36 26	624.86	16.77	303.01	65.69	120.23	13 46 51	24.9	20.66	296.04
110.00	16 15 21	5422.68	30.41	249.52	72.09	106.42	17 45 44	4822.7	32.36	240.84

DIFFERENTIAL CORRECTIONS
TOE-2.3361 TRA 1.6599 TC3-4.7220 BAU 1.0802
RDE .3129 RRA .0270 RC3 -.1062 FAU .02855
FDE-1.0046 FRA 1.0878 FC3-1.4450 BSP 18245
BDE 2.3570 BRA 1.6601 BC3 4.7231 FSP -732

MID-COURSE EXECUTION ACCURACY
SGT 5759.6 SGR 444.5 SG3 221.3
RRT -.3667 RRF -.3680 RTF .9523
SGB 5776.7 R23 .0182 R13 -.9523
SG1 5761.9 SG2 413.4 THA 178.37

ORBIT DETERMINATION ACCURACY
ST 3340.1 SR 433.7 SS 954.2
CRT -.9607 CRS .9212 CST -.9927
LSA 3496.8 MSA 164.4 SSA 18.6
EL1 3366.0 EL2 119.5 ALF 172.88

LAUNCH DATE JUN 28 1967 FLIGHT TIME 190.00 ARRIVAL DATE JAN 4 1968

DISTANCE 546.524

HELIOCENTRIC CONIC
RL 152.08 LAL .00 LOL 275.63 VL 25.940 GAL 4.54 AZL 93.31 HCA 264.81 SMA 123.75 ECC .24154 INC 3.3064 V1 29.295
RP 107.73 LAP 3.29 LOP 180.44 VP 37.302 GAP 11.87 AZP 89.70 TAL 165.42 TAP 70.23 RCA 93.86 APO 153.64 V2 35.178
RC 162.878 GL -20.40 GP 5.37 ZAL 62.23 ZAP 168.66 ETS 26.56 ZAE 128.00 ETE 176.12 ZAC 74.15 ETC 11.89 CLP-170.00

PLANETOCENTRIC CONIC
C3 18.305 VHL 4.278 DLA -32.42 RAL 205.25 RAD 6567.7 VEL 11.819 PTH 2.09 VHP 7.640 DPA 3.60 RAP 193.04 ECC 1.3013

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.52	10 31 56	1279.54	22.89	354.40	73.57	113.61	10 53 15	679.5	25.88	346.67
106.48	14 46 58	5751.46	22.90	271.79	73.57	113.60	16 22 49	5151.5	25.89	264.06
73.52	10 31 56	1279.54	22.89	354.40	73.57	113.61	10 53 15	679.5	25.88	346.67
106.48	14 46 58	5751.46	22.90	271.79	73.57	113.60	16 22 49	5151.5	25.89	264.06
110.00	13 46 11	651.32	15.86	304.51	69.75	120.69	13 57 3	51.3	19.81	297.62
110.00	16 31 53	5427.68	30.31	249.88	76.61	106.62	18 2 20	4827.7	32.29	241.22

DIFFERENTIAL CORRECTIONS
TDE-2.3547 TRA 1.9142 TC3-4.4432 BAU 1.0876
RDE .3295 RRA .0223 RC3 -.0942 FAU .02637
FDE -.9529 FRA 1.1366 FC3-1.2469 BSP 18411
BDE 2.3776 BRA 1.9143 BC3 4.4442 FSP -705

MID-COURSE EXECUTION ACCURACY
SGT 5798.3 SGR 450.0 SG3 211.9
RRT -.3746 RRF -.3743 RTF .9530
SGB 5815.7 R23 .0167 R13 -.9531
SG1 5800.7 SG2 417.1 THA 178.33

ORBIT DETERMINATION ACCURACY
ST 3284.3 SR 441.4 SS 915.1
CRT -.9530 CRS .9107 CST -.9928
LSA 3433.5 MSA 171.5 SSA 18.1
EL1 3311.1 EL2 132.7 ALF 172.69

LAUNCH DATE JUN 28 1967 FLIGHT TIME 192.00 ARRIVAL DATE JAN 6 1968

DISTANCE 552.078

HELIOCENTRIC CONIC
RL 152.08 LAL .00 LOL 275.63 VL 25.899 GAL 5.10 AZL 93.24 HCA 268.04 SMA 123.50 ECC .24702 INC 3.2430 V1 29.295
RP 107.76 LAP 3.24 LOP 183.67 VP 37.264 GAP 12.32 AZP 89.89 TAL 163.99 TAP 72.04 RCA 93.00 APO 154.01 V2 35.167
RC 164.869 GL -19.19 GP 5.17 ZAL 59.61 ZAP 169.61 ETS 28.03 ZAE 127.87 ETE 176.28 ZAC 72.01 ETC 11.78 CLP-170.97

PLANETOCENTRIC CONIC
C3 19.704 VHL 4.439 DLA -32.21 RAL 208.44 RAD 6567.8 VEL 11.878 PTH 2.11 VHP 7.890 DPA 2.49 RAP 195.01 ECC 1.3243

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.96	10 47 35	1287.82	22.28	354.74	77.87	113.89	11 9 3	687.8	25.31	347.07
106.04	14 56 48	5777.89	22.29	273.52	77.88	113.88	16 33 6	5177.9	25.32	265.84
73.96	10 47 35	1287.82	22.28	354.74	77.87	113.89	11 9 3	687.8	25.31	347.07
106.04	14 56 48	5777.89	22.29	273.52	77.88	113.88	16 33 6	5177.9	25.32	265.84
110.00	13 54 21	683.27	14.74	306.31	73.73	121.20	14 5 44	83.3	18.76	299.51
110.00	16 49 13	5430.44	30.26	250.07	81.16	106.72	18 19 43	4830.4	32.25	241.42

DIFFERENTIAL CORRECTIONS
TDE-2.3691 TRA 2.1825 TC3-4.1502 BAU 1.0935
RDE .3471 RRA .0163 RC3 -.0821 FAU .02427
FDE -.9038 FRA 1.1845 FC3-1.0664 BSP 18571
BDE 2.3944 BRA 2.1826 BC3 4.1510 FSP -679

MID-COURSE EXECUTION ACCURACY
SGT 5832.1 SGR 454.6 SG3 203.0
RRT -.3842 RRF -.3826 RTF .9538
SGB 5849.8 R23 .0154 R13 -.9538
SG1 5834.7 SG2 419.5 THA 178.28

ORBIT DETERMINATION ACCURACY
ST 3218.9 SR 448.1 SS 877.2
CRT -.9445 CRS .8994 CST -.9928
LSA 3361.4 MSA 179.6 SSA 17.5
EL1 3246.6 EL2 145.9 ALF 172.49

LAUNCH DATE JUN 28 1967 FLIGHT TIME 194.00 ARRIVAL DATE JAN 8 1968

DISTANCE 557.578

HELIOCENTRIC CONIC
RL 152.08 LAL .00 LOL 275.63 VL 25.859 GAL 5.70 AZL 93.18 HCA 271.27 SMA 123.26 ECC .25294 INC 3.1800 V1 29.295
RP 107.79 LAP 3.18 LOP 186.91 VP 37.226 GAP 12.79 AZP 90.07 TAL 162.57 TAP 73.85 RCA 92.09 APO 154.44 V2 35.156
RC 166.846 GL -18.00 GP 4.98 ZAL 57.07 ZAP 170.53 ETS 29.87 ZAE 127.75 ETE 176.41 ZAC 69.86 ETC 11.70 CLP-171.94

PLANETOCENTRIC CONIC
C3 21.329 VHL 4.618 DLA -31.96 RAL 211.53 RAD 6567.9 VEL 11.946 PTH 2.13 VHP 8.155 DPA 1.39 RAP 196.99 ECC 1.3510

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.53	11 3 45	1294.73	21.58	354.94	82.15	114.15	11 25 20	694.7	24.66	347.32
105.47	15 5 15	5808.86	21.60	275.54	82.15	114.14	16 42 3	5208.9	24.67	267.93
74.53	11 3 45	1294.73	21.58	354.94	82.15	114.15	11 25 20	694.7	24.66	347.32
105.47	15 5 15	5808.86	21.60	275.54	82.15	114.14	16 42 3	5208.9	24.67	267.93
110.00	14 1 9	719.81	13.44	308.35	77.62	121.73	14 13 8	119.8	17.54	301.63
110.00	17 7 2	5431.78	30.23	250.17	85.73	106.77	18 37 33	4831.8	32.23	241.52

DIFFERENTIAL CORRECTIONS
TDE-2.3758 TRA 2.4690 TC3-3.8412 BAU 1.0955
RDE .3653 RRA .0087 RC3 -.0705 FAU .02216
FDE -.8552 FRA 1.2336 FC3 -.8997 BSP 18633
BDE 2.4037 BRA 2.4691 BC3 3.8419 FSP -650

MID-COURSE EXECUTION ACCURACY
SGT 5857.4 SGR 458.1 SG3 194.5
RRT -.3947 RRF -.3916 RTF .9544
SGB 5875.3 R23 .0140 R13 -.9545
SG1 5860.2 SG2 420.7 THA 178.22

ORBIT DETERMINATION ACCURACY
ST 3141.9 SR 453.3 SS 839.3
CRT -.9350 CRS .8867 CST -.9928
LSA 3278.1 MSA 188.7 SSA 17.0
EL1 3170.5 EL2 159.3 ALF 172.30

LAUNCH DATE JUN 28 1967 FLIGHT TIME 196.00 ARRIVAL DATE JAN 10 1968

DISTANCE 563.016

HELIOCENTRIC CONIC
RL 152.08 LAL .00 LOL 275.63 VL 25.818 GAL 6.33 AZL 93.12 HCA 274.50 SMA 123.03 ECC .25934 INC 3.1168 V1 29.295
RP 107.83 LAP 3.11 LOP 190.14 VP 37.187 GAP 13.28 AZP 90.24 TAL 161.16 TAP 75.66 RCA 91.12 APO 154.93 V2 35.145
RC 168.808 GL -16.83 GP 4.82 ZAL 54.63 ZAP 171.42 ETS 32.18 ZAE 127.63 ETE 176.53 ZAC 67.69 ETC 11.66 CLP-172.89

PLANETOCENTRIC CONIC
C3 23.211 VHL 4.818 DLA -31.65 RAL 214.49 RAD 6567.9 VEL 12.025 PTH 2.15 VHP 8.436 DPA .31 RAP 198.99 ECC 1.3820

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.24	11 20 22	1300.19	20.82	354.98	86.38	114.39	11 42 2	700.2	23.93	347.43
104.76	15 12 15	5844.41	20.83	277.87	86.39	114.38	16 49 39	5244.4	23.94	270.32
75.24	11 20 22	1300.19	20.82	354.98	86.38	114.39	11 42 2	700.2	23.93	347.43
104.76	15 12 15	5844.41	20.83	277.87	86.39	114.38	16 49 39	5244.4	23.94	270.32
110.00	14 6 48	760.11	11.99	310.56	81.43	122.25	14 19 28	160.1	16.16	303.94
110.00	17 25 0	5432.48	30.22	250.22	90.29	106.80	18 55 32	4832.5	32.22	241.58

DIFFERENTIAL CORRECTIONS
TDE-2.3825 TRA 2.7680 TC3-3.5364 BAU 1.0976
RDE .3844 RRA -.0003 RC3 -.0591 FAU .02024
FDE -.8114 FRA 1.2808 FC3 -.7550 BSP 18764
BDE 2.4133 BRA 2.7680 BC3 3.5369 FSP -626

MID-COURSE EXECUTION ACCURACY
SGT 5881.4 SGR 460.7 SG3 186.5
RRT -.4070 RRF -.4026 RTF .9554
SGB 5899.4 R23 .0129 R13 -.9554
SG1 5884.4 SG2 420.6 THA 178.16

ORBIT DETERMINATION ACCURACY
ST 3063.3 SR 457.2 SS 804.9
CRT -.9249 CRS .8738 CST -.9928
LSA 3193.9 MSA 197.9 SSA 16.4
EL1 3092.4 EL2 172.2 ALF 172.12

LAUNCH DATE JUN 28 1967 FLIGHT TIME 198.00 ARRIVAL DATE JAN 12 1968

HELIOCENTRIC CONIC DISTANCE 568.386
RL 152.08 LAL .00 LOL 275.63 VL 25.778 GAL 7.00 AZL 93.05 HCA 277.72 SMA 122.79 ECC .26627 INC 3.0531 V1 29.295
RP 107.86 LAP 3.03 LOP 193.37 VP 37.149 GAP 13.81 AZP 90.41 TAL 159.76 TAP 77.48 RCA 90.10 APO 155.49 V2 35.134
RC 170.755 GL -15.69 GP 4.66 ZAL 52.27 ZAP 172.27 ETS 35.10 ZAE 127.50 ETE 176.63 ZAC 65.52 ETC 11.65 CLP-173.83
PLANETOCENTRIC CONIC
C3 25.389 VHL 5.039 DLA -31.29 RAL 217.32 RAD 6568.0 VEL 12.115 PTH 2.17 VHP 8.735 OPA -.75 RAP 201.01 ECC 1.4178

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.09	11 37 33	1303.67	19.98	354.84	90.56	114.60	11 59 17	703.7	23.13	347.35
103.91	15 17 38	5884.93	19.99	280.53	90.56	114.59	16 55 43	5284.9	23.14	273.04
76.09	11 37 33	1303.67	19.98	354.84	90.56	114.60	11 59 17	703.7	23.13	347.35
103.91	15 17 38	5884.93	19.99	280.53	90.56	114.59	16 55 43	5284.9	23.14	273.04
110.00	14 11 30	803.41	10.40	312.92	85.14	122.75	14 24 53	203.4	14.65	306.39
110.00	17 42 52	5433.18	30.20	250.27	94.82	106.83	19 13 25	4833.2	32.21	241.63

DIFFERENTIAL CORRECTIONS
TDE-2.3857 TRA 3.0837 TC3-3.2316 BAU 1.0970
RDE .4041 RRA -.0109 RC3 -.0486 FAU .01839
FDE -.7700 FRA 1.3281 FC3 -.6270 BSP 18879
BDE 2.4197 BRA 3.0838 BC3 3.2320 FSP -603

MID-COURSE EXECUTION ACCURACY
SGT 5899.5 SGR 462.3 SG3 178.9
RRT -.4203 RRF -.4146 RTF .9564
SGB 5917.6 R23 .0117 R13 -.9564
SG1 5902.7 SG2 419.3 THA 178.10

ORBIT DETERMINATION ACCURACY
ST 2980.7 SR 459.5 SS 772.6
CRT -.9139 CRS .8601 CST -.9929
LSA 3106.3 MSA 207.3 SSA 15.8
EL1 3010.2 EL2 184.7 ALF 171.95

LAUNCH DATE JUN 28 1967 FLIGHT TIME 200.00 ARRIVAL DATE JAN 14 1968

HELIOCENTRIC CONIC DISTANCE 573.678
RL 152.08 LAL .00 LOL 275.63 VL 25.739 GAL 7.71 AZL 92.99 HCA 280.95 SMA 122.56 ECC .27378 INC 2.9884 V1 29.295
RP 107.90 LAP 2.93 LOP 196.60 VP 37.110 GAP 14.36 AZP 90.57 TAL 158.37 TAP 79.32 RCA 89.01 APO 156.11 V2 35.122
RC 172.686 GL -14.58 GP 4.52 ZAL 50.03 ZAP 173.09 ETS 38.81 ZAE 127.38 ETE 176.72 ZAC 63.34 ETC 11.68 CLP-174.78
PLANETOCENTRIC CONIC
C3 27.906 VHL 5.283 DLA -30.90 RAL 220.01 RAD 6568.1 VEL 12.218 PTH 2.20 VHP 9.055 OPA -1.79 RAP 203.03 ECC 1.4593

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.08	11 55 17	1305.05	19.08	354.51	94.68	114.78	12 17 2	705.1	22.27	347.08
102.92	15 21 23	642.40	19.10	305.62	94.68	114.77	15 32 5	42.4	22.28	298.19
77.08	11 55 17	1305.05	19.08	354.51	94.68	114.78	12 17 2	705.1	22.27	347.08
102.92	15 21 23	642.40	19.10	305.62	94.68	114.77	15 32 5	42.4	22.28	298.19
110.00	14 15 25	849.11	8.71	315.37	88.77	123.19	14 29 34	249.1	13.02	308.93
110.00	18 0 25	5434.38	30.18	250.35	99.31	106.87	19 30 59	4834.4	32.19	241.72

DIFFERENTIAL CORRECTIONS
TDE-2.3865 TRA 3.4180 TC3-2.9316 BAU 1.0938
RDE .4242 RRA -.0231 RC3 -.0392 FAU .01660
FDE -.7315 FRA 1.3763 FC3 -.5150 BSP 18973
BDE 2.4239 BRA 3.4181 BC3 2.9319 FSP -580

MID-COURSE EXECUTION ACCURACY
SGT 5912.7 SGR 462.9 SG3 171.8
RRT -.4344 RRF -.4275 RTF .9575
SGB 5930.8 R23 .0105 R13 -.9576
SG1 5916.2 SG2 416.7 THA 178.04

ORBIT DETERMINATION ACCURACY
ST 2896.3 SR 460.2 SS 743.1
CRT -.9020 CRS .8456 CST -.9930
LSA 3017.5 MSA 216.6 SSA 15.2
EL1 2926.0 EL2 196.7 ALF 171.81

LAUNCH DATE JUN 28 1967 FLIGHT TIME 202.00 ARRIVAL DATE JAN 16 1968

HELIOCENTRIC CONIC DISTANCE 578.881
RL 152.08 LAL .00 LOL 275.63 VL 25.700 GAL 8.46 AZL 92.92 HCA 284.17 SMA 122.33 ECC .28195 INC 2.9224 V1 29.295
RP 107.94 LAP 2.83 LOP 199.82 VP 37.071 GAP 14.95 AZP 90.72 TAL 157.00 TAP 81.17 RCA 87.84 APO 156.82 V2 35.110
RC 174.603 GL -13.50 GP 4.40 ZAL 47.88 ZAP 173.86 ETS 43.59 ZAE 127.24 ETE 176.80 ZAC 61.16 ETC 11.74 CLP-175.72
PLANETOCENTRIC CONIC
C3 30.815 VHL 5.551 DLA -30.48 RAL 222.56 RAD 6568.2 VEL 12.336 PTH 2.22 VHP 9.397 OPA -2.82 RAP 205.07 ECC 1.5071

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.22	12 13 47	1303.50	18.13	353.92	98.73	114.93	12 35 31	703.5	21.34	346.55
101.78	15 23 14	693.58	18.15	308.99	98.73	114.92	15 34 47	93.6	21.36	301.62
78.22	12 13 47	1303.50	18.13	353.92	98.73	114.93	12 35 31	703.5	21.34	346.55
101.78	15 23 14	693.58	18.15	308.99	98.73	114.92	15 34 47	93.6	21.36	301.62
110.00	14 18 41	896.67	6.93	317.90	92.32	123.56	14 33 38	296.7	11.29	311.53
110.00	18 17 30	5436.44	30.14	250.50	103.75	106.95	19 48 7	4836.4	32.16	241.87

DIFFERENTIAL CORRECTIONS
TDE-2.3818 TRA 3.7751 TC3-2.6351 BAU 1.0856
RDE .4445 RRA -.0372 RC3 -.0312 FAU .01480
FDE -.6943 FRA 1.4267 FC3 -.4159 BSP 18974
BDE 2.4230 BRA 3.7753 BC3 2.6352 FSP -555

MID-COURSE EXECUTION ACCURACY
SGT 5919.9 SGR 462.3 SG3 165.0
RRT -.4487 RRF -.4406 RTF .9588
SGB 5937.9 R23 .0092 R13 -.9588
SG1 5923.5 SG2 412.8 THA 177.98

ORBIT DETERMINATION ACCURACY
ST 2809.2 SR 459.0 SS 715.5
CRT -.8888 CRS .8298 CST -.9931
LSA 2926.2 MSA 225.9 SSA 14.7
EL1 2838.8 EL2 208.2 ALF 171.69

LAUNCH DATE JUN 28 1967 FLIGHT TIME 204.00 ARRIVAL DATE JAN 18 1968

HELIOCENTRIC CONIC DISTANCE 583.979
RL 152.08 LAL .00 LOL 275.63 VL 25.661 GAL 9.26 AZL 92.85 HCA 287.39 SMA 122.11 ECC .29085 INC 2.8545 V1 29.295
RP 107.97 LAP 2.72 LOP 203.04 VP 37.032 GAP 15.58 AZP 90.85 TAL 155.66 TAP 83.04 RCA 86.59 APO 157.62 V2 35.097
RC 176.504 GL -12.46 GP 4.28 ZAL 45.84 ZAP 174.57 ETS 49.80 ZAE 127.10 ETE 176.87 ZAC 58.98 ETC 11.84 CLP-176.66
PLANETOCENTRIC CONIC
C3 34.179 VHL 5.846 DLA -30.03 RAL 224.97 RAD 6568.3 VEL 12.472 PTH 2.26 VHP 9.766 OPA -3.82 RAP 207.11 ECC 1.5625

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.56	12 33 21	1297.94	17.14	353.02	102.70	115.04	12 54 59	697.9	20.37	345.71
100.44	15 22 53	751.32	17.15	312.81	102.71	115.03	15 35 24	151.3	20.39	305.50
79.56	12 33 21	1297.94	17.14	353.02	102.70	115.04	12 54 59	697.9	20.37	345.71
100.44	15 22 53	751.32	17.15	312.81	102.71	115.03	15 35 24	151.3	20.39	305.50
110.00	14 21 23	945.71	5.08	320.49	95.79	123.85	14 37 9	345.7	9.49	314.18
110.00	18 34 1	5439.59	30.08	250.72	108.12	107.07	20 4 41	4839.6	32.12	242.10

DIFFERENTIAL CORRECTIONS
TDE-2.3807 TRA 4.1493 TC3-2.3550 BAU 1.0762
RDE .4653 RRA -.0528 RC3 -.0241 FAU .01315
FDE -.6622 FRA 1.4768 FC3 -.3331 BSP 19060
BDE 2.4257 BRA 4.1496 BC3 2.3552 FSP -536

MID-COURSE EXECUTION ACCURACY
SGT 5923.5 SGR 460.7 SG3 158.6
RRT -.4642 RRF -.4551 RTF .9603
SGB 5941.4 R23 .0081 R13 -.9603
SG1 5927.4 SG2 407.8 THA 177.92

ORBIT DETERMINATION ACCURACY
ST 2726.9 SR 456.3 SS 692.1
CRT -.8752 CRS .8145 CST -.9933
LSA 2840.5 MSA 234.0 SSA 14.1
EL1 2756.2 EL2 218.4 ALF 171.62

LAUNCH DATE JUN 28 1967 FLIGHT TIME 214.00 ARRIVAL DATE JAN 28 1968

DISTANCE 607.187

HELIOCENTRIC CONIC
RL 152.08 LAL .00 LOL 275.63 VL 25.476 GAL 14.27 AZL 92.47 HCA 303.44 SMA 121.06 ECC .34986 INC 2.4659 V1 29.295
RP 108.18 LAP 2.06 LOP 219.10 VP 36.843 GAP 19.58 AZP 91.36 TAL 149.49 TAP 92.93 RCA 78.70 APO 163.41 V2 35.032
RC 185.758 GL -7.80 GP 3.83 ZAL 37.36 ZAP 175.86 ETS 109.46 ZAE 126.09 ETE 177.13 ZAC 48.33 ETC 13.01 CLP 178.44

PLANETOCENTRIC CONIC
C3 61.221 VHL 7.824 DLA -27.54 RAL 234.85 RAD 6569.1 VEL 13.512 PTH 2.47 VHP 12.144 DPA -8.45 RAP 217.31 ECC 2.0075

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 39 22	1359.79	6.25	352.04	118.53	117.67	14 2 1	759.8	9.91	345.27
90.00	15 35 43	980.79	17.40	329.80	123.87	112.70	15 52 4	380.8	20.33	322.35
100.00	14 19 36	1229.75	2.12	340.23	116.26	119.82	14 40 6	629.7	6.08	333.67
100.00	17 38 10	5874.10	21.77	280.52	125.73	111.01	19 16 4	5274.1	24.43	272.73
110.00	14 28 11	1202.78	-4.73	333.93	112.01	123.89	14 48 14	602.8	-.25	327.72
110.00	19 46 4	5473.84	29.37	253.14	128.74	108.34	21 17 18	4873.8	31.59	244.63

DIFFERENTIAL CORRECTIONS
TDE-2.3834 TRA 6.4214 TC3-1.1600 BAU .9494
RDE .5693 RRA -.1569 RC3 -.0057 FAU .00530
FDE -.5427 FRA 1.7697 FC3 -.0750 BSP 19169
BDE 2.4504 BRA 6.4233 BC3 1.1600 FSP -443

MID-COURSE EXECUTION ACCURACY
SGT 5870.6 SGR 436.6 SG3 131.2
RRT -.5455 RRF -.5337 RTF .9707
SGB 5886.8 R23 .0024 R13 -.9707
SG1 5875.5 SG2 365.6 THA 177.67

ORBIT DETERMINATION ACCURACY
ST 2362.2 SR 418.7 SS 620.9
CRT -.7982 CRS .7375 CST -.9953
LSA 2464.5 MSA 258.2 SSA 11.6
EL1 2386.0 EL2 249.7 ALF 171.86

LAUNCH DATE JUN 28 1967 FLIGHT TIME 216.00 ARRIVAL DATE JAN 30 1968

DISTANCE 611.145

HELIOCENTRIC CONIC
RL 152.08 LAL .00 LOL 275.63 VL 25.442 GAL 15.53 AZL 92.37 HCA 306.65 SMA 120.86 ECC .36554 INC 2.3725 V1 29.295
RP 108.22 LAP 1.90 LOP 222.31 VP 36.806 GAP 20.62 AZP 91.42 TAL 148.43 TAP 95.08 RCA 76.68 APO 165.04 V2 35.019
RC 187.557 GL -6.98 GP 3.76 ZAL 36.01 ZAP 175.42 ETS 122.03 ZAE 125.80 ETE 177.17 ZAC 46.28 ETC 13.40 CLP 177.39

PLANETOCENTRIC CONIC
C3 69.717 VHL 8.350 DLA -27.02 RAL 236.39 RAD 6569.3 VEL 13.823 PTH 2.52 VHP 12.766 DPA -9.28 RAP 219.32 ECC 2.1474

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 28 25	1447.46	3.46	356.97	121.08	118.12	13 52 32	847.5	7.19	350.28
90.00	15 58 59	955.43	18.06	328.23	128.03	112.19	16 14 55	355.4	20.91	320.72
100.00	14 15 19	1295.97	-.12	343.86	119.10	119.89	14 36 55	696.0	3.86	337.33
100.00	17 54 47	5870.19	21.86	280.27	129.63	110.91	19 32 37	5270.2	24.51	272.47
110.00	14 28 21	1255.04	-6.71	336.69	115.02	123.60	14 49 16	655.0	-2.25	330.44
110.00	19 58 14	5483.89	29.15	253.84	132.54	108.70	21 29 38	4883.9	31.42	245.37

DIFFERENTIAL CORRECTIONS
TDE-2.3940 TRA 6.9763 TC3 -.9674 BAU .9017
RDE .5897 RRA -.1829 RC3 -.0048 FAU .00374
FDE -.5279 FRA 1.8410 FC3 -.0464 BSP 19170
BDE 2.4655 BRA 6.9787 BC3 .9674 FSP -428

MID-COURSE EXECUTION ACCURACY
SGT 5846.7 SGR 428.5 SG3 126.6
RRT -.5622 RRF -.5504 RTF .9733
SGB 5862.3 R23 .0014 R13 -.9733
SG1 5851.6 SG2 354.1 THA 177.63

ORBIT DETERMINATION ACCURACY
ST 2302.1 SR 406.8 SS 616.3
CRT -.7824 CRS .7239 CST -.9959
LSA 2403.8 MSA 258.5 SSA 11.1
EL1 2324.3 EL2 250.9 ALF 172.03

LAUNCH DATE JUN 28 1967 FLIGHT TIME 218.00 ARRIVAL DATE FEB 1 1968

DISTANCE 614.760

HELIOCENTRIC CONIC
RL 152.08 LAL .00 LOL 275.63 VL 25.408 GAL 16.92 AZL 92.27 HCA 309.85 SMA 120.68 ECC .38295 INC 2.2710 V1 29.295
RP 108.26 LAP 1.74 LOP 225.51 VP 36.771 GAP 21.77 AZP 91.46 TAL 147.47 TAP 97.32 RCA 74.46 APO 166.89 V2 35.005
RC 189.337 GL -6.19 GP 3.70 ZAL 34.80 ZAP 174.77 ETS 132.27 ZAE 125.47 ETE 177.21 ZAC 44.28 ETC 13.84 CLP 176.30

PLANETOCENTRIC CONIC
C3 79.781 VHL 8.932 DLA -26.48 RAL 237.79 RAD 6569.6 VEL 14.182 PTH 2.58 VHP 13.455 DPA -10.08 RAP 221.30 ECC 2.3130

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 20 1	1525.50	.95	1.33	123.66	118.30	13 45 26	925.5	4.72	354.68
90.00	16 18 33	940.22	18.45	327.28	131.93	111.87	16 34 13	340.2	21.25	319.74
100.00	14 11 17	1359.92	-2.29	347.37	121.86	119.81	14 33 57	759.9	1.70	340.85
100.00	18 9 58	5869.07	21.89	280.20	133.36	110.88	19 47 47	5269.1	24.53	272.40
110.00	14 28 6	1307.14	-8.66	339.46	117.94	123.20	14 49 53	707.1	-4.23	333.17
110.00	20 9 38	5494.61	28.91	254.59	136.19	109.08	21 41 13	4894.6	31.24	246.15

DIFFERENTIAL CORRECTIONS
TDE-2.4065 TRA 7.5794 TC3 -.7875 BAU .8399
RDE .6096 RRA -.2106 RC3 -.0046 FAU .00205
FDE -.5150 FRA 1.9202 FC3 -.0223 BSP 19041
BDE 2.4825 BRA 7.5823 BC3 .7875 FSP -410

MID-COURSE EXECUTION ACCURACY
SGT 5819.6 SGR 419.3 SG3 122.3
RRT -.5787 RRF -.5670 RTF .9759
SGB 5834.7 R23 .0004 R13 -.9759
SG1 5824.7 SG2 341.6 THA 177.60

ORBIT DETERMINATION ACCURACY
ST 2245.1 SR 393.7 SS 614.7
CRT -.7665 CRS .7104 CST -.9964
LSA 2346.7 MSA 257.2 SSA 10.7
EL1 2265.5 EL2 250.5 ALF 172.25

LAUNCH DATE JUN 28 1967 FLIGHT TIME 220.00 ARRIVAL DATE FEB 3 1968

DISTANCE 617.952

HELIOCENTRIC CONIC
RL 152.08 LAL .00 LOL 275.63 VL 25.376 GAL 18.44 AZL 92.16 HCA 313.05 SMA 120.50 ECC .40236 INC 2.1598 V1 29.295
RP 108.30 LAP 1.58 LOP 228.70 VP 36.736 GAP 23.04 AZP 91.47 TAL 146.61 TAP 99.66 RCA 72.01 APO 168.98 V2 34.992
RC 191.100 GL -5.43 GP 3.64 ZAL 33.71 ZAP 173.94 ETS 140.30 ZAE 125.07 ETE 177.25 ZAC 42.34 ETC 14.33 CLP 175.15

PLANETOCENTRIC CONIC
C3 91.777 VHL 9.580 DLA -25.95 RAL 239.04 RAD 6569.8 VEL 14.599 PTH 2.65 VHP 14.223 DPA -10.84 RAP 223.24 ECC 2.5104

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 12 50	1597.85	-1.39	5.36	126.20	118.29	13 39 28	997.9	2.40	358.73
90.00	16 35 40	930.79	18.68	326.69	135.59	111.67	16 51 10	330.8	21.46	319.12
100.00	14 7 18	1421.96	-4.38	350.79	124.54	119.60	14 31 0	822.0	-.41	344.25
100.00	18 23 53	5869.95	21.87	280.25	136.91	110.90	20 1 43	5269.9	24.52	272.46
110.00	14 27 24	1358.91	-10.58	342.24	120.77	122.70	14 50 3	758.9	-6.19	335.89
110.00	20 20 17	5505.76	28.66	255.36	139.67	109.48	21 52 2	4905.8	31.04	246.96

DIFFERENTIAL CORRECTIONS
TDE-2.4328 TRA 8.2257 TC3 -.6255 BAU .7675
RDE .6296 RRA -.2397 RC3 -.0048 FAU .00035
FDE -.5069 FRA 2.0056 FC3 -.0033 BSP 19039
BDE 2.5129 BRA 8.2292 BC3 .6256 FSP -397

MID-COURSE EXECUTION ACCURACY
SGT 5786.8 SGR 409.0 SG3 118.2
RRT -.5953 RRF -.5840 RTF .9786
SGB 5801.3 R23 -.0006 R13 -.9786
SG1 5792.0 SG2 328.3 THA 177.58

ORBIT DETERMINATION ACCURACY
ST 2193.7 SR 379.6 SS 617.0
CRT -.7522 CRS .6994 CST -.9969
LSA 2296.2 MSA 253.8 SSA 10.2
EL1 2212.4 EL2 248.0 ALF 172.49

LAUNCH DATE JUN 28 1967 FLIGHT TIME 206.00 ARRIVAL DATE JAN 20 1968

HELIOCENTRIC CONIC DISTANCE 588.958

RL 152.08 LAL .00 LOL 275.63 VL 25.623 GAL 10.12 AZL 92.78 HCA 290.60 SMA 121.89 ECC .30057 INC 2.7842 VI 29.295
RP 108.01 LAP 2.61 LOP 206.26 VP 36.994 GAP 16.26 AZP 90.98 TAL 154.34 TAP 84.94 RCA 85.25 APO 158.52 V2 35.084
RC 178.389 GL -11.45 GP 4.18 ZAL 43.92 ZAP 175.19 ETS 57.88 ZAE 126.94 ETE 176.94 ZAC 56.82 ETC 11.98 CLP-177.61

PLANETOCENTRIC CONIC

C3 38.075 VHL 6.171 DLA -29.56 RAL 227.23 RAD 6568.5 VEL 12.627 PTH 2.29 VHP 10.165 DPA -4.80 RAP 209.16 ECC 1.6266

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.14	12 54 32	1286.38	16.11	351.66	106.60	115.13	13 15 58	686.4	19.36	344.40
98.86	15 19 45	817.43	16.12	317.22	106.61	115.12	15 33 23	217.4	19.37	309.96
100.00	14 51 2	909.35	12.65	322.28	104.85	117.31	15 6 11	309.4	16.22	315.29
100.00	16 5 56	669.69	19.63	307.91	108.26	113.00	16 17 6	69.7	22.58	300.35
110.00	14 23 35	995.87	3.17	323.12	99.18	124.05	14 40 11	395.9	7.62	316.86
110.00	18 49 53	5443.98	29.99	251.03	112.43	107.23	20 20 36	4844.0	32.05	242.43

DIFFERENTIAL CORRECTIONS
TDE-2.3789 TRA 4.5467 TC3-2.0874 BAU 1.0626
RDE .4861 RRA -.0701 RC3 -.0182 FAU .01155
FDE -.6326 FRA 1.5289 FC3 -.2625 BSP 19124
BDE 2.4280 BRA 4.5473 BC3 2.0874 FSP -516

MID-COURSE EXECUTION ACCURACY
SGT 5922.2 SGR 458.1 SG3 152.5
RRT -.4800 RRF -.4700 RTF .9621
SGB 5939.9 R23 .0070 R13 -.9621
SG1 5926.3 SG2 401.6 THA 177.86

ORBIT DETERMINATION ACCURACY
ST 2646.7 SR 452.0 SS 671.6
CRT -.8608 CRS .7989 CST -.9936
LSA 2757.2 MSA 241.4 SSA 13.6
EL1 2675.4 EL2 227.6 ALF 171.58

LAUNCH DATE JUN 28 1967 FLIGHT TIME 208.00 ARRIVAL DATE JAN 22 1968

HELIOCENTRIC CONIC DISTANCE 593.796

RL 152.08 LAL .00 LOL 275.63 VL 25.585 GAL 11.04 AZL 92.71 HCA 293.82 SMA 121.67 ECC .31120 INC 2.7110 VI 29.295
RP 108.05 LAP 2.48 LOP 209.47 VP 36.956 GAP 16.99 AZP 91.10 TAL 153.05 TAP 86.87 RCA 83.81 APO 159.54 V2 35.071
RC 180.257 GL -10.49 GP 4.08 ZAL 42.11 ZAP 175.68 ETS 68.26 ZAE 126.76 ETE 176.99 ZAC 54.66 ETC 12.17 CLP-178.57

PLANETOCENTRIC CONIC

C3 42.598 VHL 6.527 DLA -29.07 RAL 229.35 RAD 6568.6 VEL 12.805 PTH 2.33 VHP 10.596 DPA -5.75 RAP 211.21 ECC 1.7011

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.13	13 18 39	1264.39	15.05	349.52	110.42	115.17	13 39 44	664.4	18.31	342.31
96.87	15 12 32	896.09	15.06	322.51	110.43	115.17	15 27 29	296.1	18.33	315.31
100.00	14 38 10	1006.49	9.56	327.83	107.58	118.46	14 54 57	406.5	13.29	321.02
100.00	16 35 43	629.23	20.69	305.37	113.01	112.07	16 46 12	29.2	23.50	297.70
110.00	14 25 20	1046.88	1.22	325.79	102.50	124.16	14 42 47	446.9	5.69	319.56
110.00	19 5 2	5449.64	29.87	251.44	116.65	107.44	20 35 52	4849.6	31.97	242.85

DIFFERENTIAL CORRECTIONS
TDE-2.3774 TRA 4.9697 TC3-1.8335 BAU 1.0442
RDE .5071 RRA -.0891 RC3 -.0135 FAU .00997
FDE -.6060 FRA 1.5836 FC3 -.2027 BSP 19177
BDE 2.4309 BRA 4.9705 BC3 1.8335 FSP -497

MID-COURSE EXECUTION ACCURACY
SGT 5916.1 SGR 454.4 SG3 146.7
RRT -.4961 RRF -.4855 RTF .9640
SGB 5933.5 R23 .0059 R13 -.9640
SG1 5920.4 SG2 394.3 THA 177.81

ORBIT DETERMINATION ACCURACY
ST 2569.7 SR 446.0 SS 654.3
CRT -.8458 CRS .7832 CST -.9940
LSA 2677.5 MSA 247.6 SSA 13.1
EL1 2597.4 EL2 235.4 ALF 171.58

LAUNCH DATE JUN 28 1967 FLIGHT TIME 210.00 ARRIVAL DATE JAN 24 1968

HELIOCENTRIC CONIC DISTANCE 598.469

RL 152.08 LAL .00 LOL 275.63 VL 25.548 GAL 12.03 AZL 92.63 HCA 297.03 SMA 121.46 ECC .32287 INC 2.6341 VI 29.295
RP 108.09 LAP 2.35 LOP 212.69 VP 36.918 GAP 17.78 AZP 91.20 TAL 151.81 TAP 88.84 RCA 82.25 APO 160.68 V2 35.058
RC 182.108 GL -9.55 GP 3.99 ZAL 40.41 ZAP 175.98 ETS 80.98 ZAE 126.57 ETE 177.04 ZAC 52.53 ETC 12.40 CLP-179.54

PLANETOCENTRIC CONIC

C3 47.863 VHL 6.918 DLA -28.57 RAL 231.33 RAD 6568.8 VEL 13.009 PTH 2.37 VHP 11.066 DPA -6.68 RAP 213.25 ECC 1.7877

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
86.03	13 50 12	1217.34	13.96	345.53	114.14	115.18	14 10 29	617.3	17.24	338.37
93.97	14 56 46	1001.70	13.98	329.75	114.15	115.17	15 13 28	401.7	17.26	322.59
100.00	14 30 18	1087.14	6.91	332.35	110.47	119.15	14 48 25	487.1	10.75	325.66
100.00	16 59 21	607.13	21.25	303.96	117.44	111.53	17 9 28	7.1	23.99	296.23
110.00	14 26 41	1098.51	-.75	328.48	105.74	124.18	14 44 59	498.5	3.73	322.27
110.00	19 19 28	5456.56	29.73	251.92	120.79	107.70	20 50 24	4856.6	31.86	243.36

DIFFERENTIAL CORRECTIONS
TDE-2.3739 TRA 5.4244 TC3-1.5909 BAU 1.0180
RDE .5278 RRA -.1101 RC3 -.0101 FAU .00836
FDE -.5809 FRA 1.6426 FC3 -.1512 BSP 19102
BDE 2.4319 BRA 5.4255 BC3 1.5909 FSP -476

MID-COURSE EXECUTION ACCURACY
SGT 5905.6 SGR 449.5 SG3 141.3
RRT -.5122 RRF -.5009 RTF .9660
SGB 5922.7 R23 .0046 R13 -.9660
SG1 5910.1 SG2 385.7 THA 177.76

ORBIT DETERMINATION ACCURACY
ST 2494.9 SR 438.2 SS 639.6
CRT -.8297 CRS .7668 CST -.9943
LSA 2600.3 MSA 252.9 SSA 12.6
EL1 2521.5 EL2 242.0 ALF 171.63

LAUNCH DATE JUN 28 1967 FLIGHT TIME 212.00 ARRIVAL DATE JAN 26 1968

HELIOCENTRIC CONIC DISTANCE 602.945

RL 152.08 LAL .00 LOL 275.63 VL 25.512 GAL 13.10 AZL 92.55 HCA 300.24 SMA 121.26 ECC .33570 INC 2.5527 VI 29.295
RP 108.13 LAP 2.21 LOP 215.90 VP 36.880 GAP 18.64 AZP 91.29 TAL 150.62 TAP 90.86 RCA 80.55 APO 161.96 V2 35.045
RC 183.942 GL -8.66 GP 3.91 ZAL 38.82 ZAP 176.05 ETS 95.25 ZAE 126.35 ETE 177.09 ZAC 50.41 ETC 12.68 CLP 179.46

PLANETOCENTRIC CONIC

C3 54.011 VHL 7.349 DLA -28.06 RAL 233.16 RAD 6569.0 VEL 13.243 PTH 2.42 VHP 11.580 DPA -7.58 RAP 215.29 ECC 1.8889

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 57 17	1248.40	9.72	345.70	116.22	116.73	14 18 5	648.4	13.23	338.78
90.00	15 4 19	1030.78	16.06	332.86	119.27	113.64	15 21 29	430.8	19.12	325.52
100.00	14 24 26	1160.57	4.46	336.42	113.38	119.59	14 43 47	560.6	8.37	329.81
100.00	17 19 51	5881.87	21.58	281.02	121.67	111.20	18 57 52	5281.9	24.27	273.25
110.00	14 27 38	1150.54	-2.74	331.20	108.91	124.09	14 46 48	550.5	1.75	324.99
110.00	19 33 8	5464.67	29.56	252.50	124.82	108.00	21 4 13	4864.7	31.73	243.96

DIFFERENTIAL CORRECTIONS
TDE-2.3768 TRA 5.9067 TC3-1.3683 BAU .9881
RDE .5486 RRA -.1327 RC3 -.0075 FAU .00683
FDE -.5604 FRA 1.7038 FC3 -.1095 BSP 19141
BDE 2.4393 BRA 5.9082 BC3 1.3684 FSP -460

MID-COURSE EXECUTION ACCURACY
SGT 5891.5 SGR 443.6 SG3 136.1
RRT -.5288 RRF -.5172 RTF .9683
SGB 5908.2 R23 .0036 R13 -.9683
SG1 5896.2 SG2 376.2 THA 177.71

ORBIT DETERMINATION ACCURACY
ST 2426.5 SR 429.2 SS 628.7
CRT -.8139 CRS .7519 CST -.9948
LSA 2530.1 MSA 256.4 SSA 12.1
EL1 2451.8 EL2 246.8 ALF 171.72