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LUNAR ORBIT RENDEZVOUS REFERENCE TRAJECTORY DATA PACKAGE (U)

PREPARED UNDER CONTRACT NO. 10001
TO BELLCOMM, INC.

C 71-244

REFERENCE TRAJECTORY LISTING (CONCLUDED)

ISSUE I
VOLUME 4

JUNE 30, 1963
8408-6016-RC-000

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(ACCESSION NUMBER)	(THRU)
208	None
(PAGES)	(CODE)
CR-125436	
(NASA CR OR TMX OR AD NUMBER)	(CATEGORY)

FF No. 602(A)

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(NASA-CR-125436) LUNAR ORBIT RENDEZVOUS REFERENCE TRAJECTORY DATA PACKAGE. VOLUME 4, ISSUE 1: REFERENCE TRAJECTORY LISTING (CONCLUDED) (Space Technology Labs., Inc.) 208 p

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LUNAR ORBIT RENDEZVOUS REFERENCE TRAJECTORY DATA PACKAGE (U)

PREPARED UNDER CONTRACT NO. 10001
TO BELLCOMM, INC.

REFERENCE TRAJECTORY LISTING (CONCLUDED)

ISSUE 1

VOLUME 4

June 30, 1963

8408-6016-RC-000

~~THIS IS NOT AN OFFICIAL APOLLO REFERENCE TRAJECTORY~~

for E. M. Boughton
Project Manager

Approved: R. M. Page
Manager,
Systems Analysis Department

[redacted]

Space Technology Laboratories, Inc.
One Space Park
Redondo Beach, California

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GST 132.2461318 DEG. 8 HR 47 MIN 32.4126 SEC

7 FEB. 1968 2 HR 3 MIN 16.15 SEC TMST 342533.1796 J.D. 2439893.5856 3 DAY 23 HR 8.9 MIN

SELENOGRAPHIC

	ALT	484635.3125	R	6187030.250	VI	5288.677124	X	-3670070.375	VX	-4235.372497
74	LTDM	4.311534106			FPVI	.0200643539	Y	-4959190.875	VY	3156.544677
	LONM	-126.5034484			AZVI	272.8317337	Z	465137.6484	VZ	260.6759414
	A	6187571.937	ASND	290.1541671	VVEN	-27965208.50	APOG	80.23300838	VAPG	5286.224853
	ECC	.37624597-03	ARGP	340.7792015	ARGL	56.76423358	PERG	79.46671867	VPER	5290.204223
	INCL	174.8431682	MA	75.94205760	TA	75.98503017	PERD	122.5292682	MOON	ELLIPSE
	LTDE	-3.563178718	LONE	-1.206773951	LTCS	-1.413949355	LCNS	82.55307483		
	WT	35799.86279	ATLI	27.54056382	VA	5305.078552	AAAP	-113.7776765	VIR	1.851903677
	DVV	4.521338045	AMIS	62.44654846	FPVA	.0200023651	AAAY	159.3067321	VIT	5288.676757
	RANG	1616.625885	RLAT	24.01234674	AZVA	272.8229713	AAAT	66.50976943	VAT	-5305.078186

7 FEB. 1968 2 HR 3 MIN 22.97 SEC TMST 342540.0000 J.D. 2439893.5857 3 DAY 23 HR 9.0 MIN

SELENOGRAPHIC

	ALT	484647.9375	R	6187042.750	VI	5288.669677	X	-3698894.343	VX	-4217.011352
74	LTDM	4.327963233			FPVI	.0200223923	Y	-4937578.000	VY	3181.210021
	LONM	-126.8380298			AZVI	272.8065147	Z	466907.6328	VZ	258.3520812
	A	6187579.500	ASND	290.1543006	VVEN	-27965172.75	APOG	80.22403812	VAPG	5286.274597
	ECC	.36621094-03	ARGP	341.0203704	ARGL	57.09840154	PERG	79.47817707	VPER	5290.147888
	INCL	174.8431758	MA	76.03760910	TA	76.07802963	PERD	122.5294895	MOON	ELLIPSE
	LTDE	-3.563270211	LONE	-1.205840632	LTCS	-1.413948491	LCNS	82.55315494		
2"	WT	35799.86279	ATLI	27.82918977	VA	5305.071166	AAAP	-114.1094694	VIR	1.847960472
	DVV	4.521326661	AMIS	62.74183607	FPVA	.0199594497	AAAY	159.4129409	VIT	5288.669311
	RANG	1622.097122	RLAT	23.65042519	AZVA	272.7978324	AAAT	66.18677616	VAT	-5305.070800

7 FEB. 1968 2 HR 3 MIN 52.97 SEC TMST 342570.0000 J.D. 2439893.5860 3 DAY 23 HR 9.5 MIN

1" SELENOGRAPHIC

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	ALT	484703.1250	R	6187097.812	VI	5288.637268	X	-3824638.937	VX	-4134.239440
74	LTDM	4.398474156			FPVI	.0198249817	Y	-4840161.500	VY	3288.803894
	LONM	-128.3153743			AZVI	272.6944694	Z	474503.8593	VZ	248.0270214
	A	6187613.812	ASND	290.1494178	VVEN	-27965017.50	APOG	80.25956726	VAPG	5286.104919
	ECC	.39555302-03	ARGP	342.0961227	ARGL	58.56829023	PERG	79.45393276	VPER	5290.288513
	INCL	174.8432083	MA	76.42831897	TA	76.47216320	PERD	122.5305109	MOON	ELLIPSE
	LTDE	-3.563673138	LONE	-1.207234784	LTCS	-1.413946896	LCNS	82.54801273		
	WT	35799.86279	ATLI	29.10935759	VA	5305.038757	AAAP	-115.5702371	VIR	1.829789876
	DVV	4.521277904	AMIS	63.96005868	FPVA	.0197629928	AAAY	159.8512439	VIT	5288.636901
	RANG	1646.252487	RLAT	22.13734722	AZVA	272.6861305	AAAT	64.76673412	VAT	-5305.038391

7 FEB. 1968 2 HR 4 MIN 22.97 SEC TMST 342600.0000 J.D. 2439893.5864 3 DAY 23 HR 10.0 MIN
SELENOGRAPHIC

	ALT	484757.7500	R	6187152.437	VI	5288.605590	X	-3947735.843	VX	-4048.811523
74	LTDM	4.466090261			FPVI	.0196123123	Y	-4739632.750	VY	3394.119934
	LONM	-129.7915954			AZVI	272.5806312	Z	481787.8164	VZ	237.5388774
	A	6187648.937	ASND	290.1459350	VVEN	-27964858.25	APOG	80.24568080	VAPG	5286.192016
	ECC	.37624597-03	ARGP	343.2095222	ARGL	60.03818035	PERG	79.47938060	VPER	5290.171386
	INCL	174.8432426	MA	76.78624153	TA	76.82865238	PERD	122.5315551	MOON	ELLIPSE
	LTDE	-3.564074814	LONE	-1.207250937	LTCS	-1.413944840	LCNS	82.54424667		
	WT	35799.86279	ATLI	30.40517091	VA	5305.007324	AAAP	-117.0332050	VIR	1.810164213
	DVV	4.521229922	AMIS	65.05796051	FPVA	.0195512771	AAAY	160.2478790	VIT	5288.605224
	RANG	1670.385086	RLAT	20.74173140	AZVA	272.5726470	AAAT	63.34788942	VAT	-5305.006958

7 FEB. 1968 2 HR 4 MIN 52.97 SEC TMST 342630.0000 J.D. 2439893.5867 3 DAY 23 HR 10.5 MIN
SELENOGRAPHIC

	ALT	484811.6875	R	6187206.437	VI	5288.574707	X	-4068333.468	VX	-3960.623657
74	LTDM	4.530766785			FPVI	.0193843841	Y	-4635871.625	VY	3497.284912
	LONM	-131.2694339			AZVI	272.4650802	Z	488754.7343	VZ	226.8945922
	A	6187684.687	ASND	290.1410980	VVEN	-27964697.50	APOG	80.27123165	VAPG	5286.074707

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ECC	.39555302-03	ARGP	344.3530883	ARGL	61.50806665	PERG	79.46559715	VPER	5290.258178
INCL	174.8432750	MA	77.11092662	TA	77.15497303	PERD	122.5326156	MOON	ELLIPSE
LTDE	-3.564476549	LONE	-1.208641976	LTDS	-1.413942799	LONS	82.53910636		
WT	35799.86279	ATLI	31.71469640	VA	5304.976562	AAAP	-118.4983949	VIR	1.789127349
DVV	4.521182835	AMIS	66.04887294	FPVA	.0193243027	AAAY	160.6089324	VIT	5288.574401
RANG	1694.539733	RLAT	19.45025777	AZVA	272.4574546	AAAT	61.93034553	VAT	-5304.976257

7 FEB. 1968 2 HR 5 MIN 22.97 SEC TMST 342660.0000 J.D. 2439893.5871 3 DAY 23 HR 11.0 MIN

SELENOGRAPHIC

ALT	484865.0000	R	6187259.812	VI	5288.544433	X	-4186181.718	VX	-3869.856262
74 LTDM	4.592462241			FPVI	.0191431045	Y	-4529088.812	VY	3598.084960
LONM	-132.7468242			AZVI	272.3478889	Z	495400.2187	VZ	216.1011829
A	6187720.562	ASND	290.1369705	VVEN	-27964535.75	APOG	80.24726486	VAPG	5286.214416
ECC	.36621094-03	ARGP	345.5214309	ARGL	62.97795915	PERG	79.50138282	VPER	5290.087585
INCL	174.8433036	MA	77.41485691	TA	77.45652770	PERD	122.5336828	MOON	ELLIPSE
LTDE	-3.564879506	LONE	-1.209347978	LTDS	-1.413941577	LONS	82.53465175		
WT	35799.86279	ATLI	33.03629493	VA	5304.946411	AAAP	-119.9658241	VIR	1.766824722
DVV	4.521137118	AMIS	66.94437694	FPVA	.0190839767	AAAY	160.9393806	VIT	5288.544128
RANG	1718.682815	RLAT	18.25134515	AZVA	272.3406257	AAAT	60.51422405	VAT	-5304.946105

7 FEB. 1968 2 HR 5 MIN 52.97 SEC TMST 342690.0000 J.D. 2439893.5874 3 DAY 23 HR 11.5 MIN

SELENOGRAPHIC

ALT	484917.7500	R	6187312.437	VI	5288.514770	X	-4301259.250	VX	-3776.528747
74 LTDM	4.651132702			FPVI	.0188856125	Y	-4419307.937	VY	3696.501892
LONM	-134.2244434			AZVI	272.2291374	Z	501719.5976	VZ	205.1656932
A	6187756.375	ASND	290.1328620	VVEN	-27964372.75	APOG	80.25315856	VAPG	5286.199157
ECC	.36621094-03	ARGP	346.7065124	ARGL	64.44784355	PERG	79.50727653	VPER	5290.072265
INCL	174.8433341	MA	77.69988536	TA	77.74132728	PERD	122.5347442	MOON	ELLIPSE
LTDE	-3.565281152	LONE	-1.210053414	LTDS	-1.413939595	LONS	82.53019714		

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WT	35799.86279	ATLI	34.3685503C	VA	5304.916870	AAAP	-121.4355030	VIR	1.743044614
DVV	4.521092355	AMIS	67.7545557C	FPVA	.0188274383	AAAY	161.2433185	VIT	5288.514465
RANG	1742.825576	RLAT	17.13491702	AZVA	272.22224C4	AAAT	59.09964752	VAT	-5304.916564

7 FEB. 1968 2 HR 6 MIN 22.97 SEC TMST 342720.00C0 J.D. 2439893.5877 3 DAY 23 HR 12.0 MIN

SELENOGRAPHIC

ALT	484969.6250	R	6187364.437	VI	5288.485778	X	-4413386.750	VX	-3680.794006
74 LTDM	4.706740200			FPVI	.0186147690	Y	-4306707.375	VY	3792.382415
LONM	-135.7009048			AZVI	272.1089019	Z	507708.8437	VZ	194.0954017
A	6187792.437	ASND	290.1301383	VVEN	-27964210.25	APOG	80.24858C93	VAPG	5286.238342
ECC	.35589306-03	ARGP	347.9168205	ARCL	65.91772270	PERG	79.52371406	VPER	5290.002319
INCL	174.8433666	MA	77.96136951	TA	78.00089836	PERD	122.5358161	MOON	ELLIPSE
LTDE	-3.565682977	LONE	-1.20938453C	LTCS	-1.413936510	LCNS	82.52711772		
WT	35799.86279	ATLI	35.71025562	VA	5304.8880C0	AAAP	-122.9074325	VIR	1.718056440
DVV	4.521049082	AMIS	68.48820018	FPVA	.0185565948	AAAY	161.5241565	VIT	5288.485473
RANG	1766.945541	RLAT	16.09218502	AZVA	272.1023788	AAAT	57.68675518	VAT	-5304.887695

7 FEB. 1968 2 HR 6 MIN 52.97 SEC TMST 342750.00C0 J.D. 2439893.5881 3 DAY 23 HR 12.5 MIN

SELENOGRAPHIC

ALT	485020.7500	R	6187415.50C	VI	5288.457458	X	-4522648.812	VX	-3582.582427
74 LTDM	4.759248137			FPVI	.0183286667	Y	-4191207.062	VY	3885.799011
LONM	-137.1782608			AZVI	271.9872627	Z	513364.0703	VZ	182.8975315
A	6187828.312	ASND	290.1267509	VVEN	-27964048.C0	APOG	80.25448513	VAPG	5286.223083
ECC	.35589306-03	ARGP	349.1475524	ARCL	67.38760375	PERG	79.52961826	VPER	5289.986938
INCL	174.8433933	MA	78.19983005	TA	78.24005031	PERD	122.5368824	MOON	ELLIPSE
2" LTDE	-3.566085100	LONE	-1.209401503	LTCS	-1.413934186	LCNS	82.52335071		
WT	35799.86279	ATLI	37.06036949	VA	5304.859802	AAAP	-124.3816184	VIR	1.691651940
DVV	4.521007061	AMIS	69.15299415	FPVA	.0182723999	AAAY	161.7847499	VIT	5288.457153
RANG	1791.076354	RLAT	15.11547148	AZVA	271.9811134	AAAT	56.27569532	VAT	-5304.859497

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7 FEB. 1968 2 HR 7 MIN 22.97 SEC TMST 342780.0000 J.D. 2439893.5884 3 DAY 23 HR 13.0 MIN

SELENOGRAPHIC

	ALT	485071.0625	R	6187465.812	VI	5288.429687	X	-4629018.187	VX	-3481.907775
74	LTDM	4.808622241			FPVI	.0180292129	Y	-4072823.843	VY	3976.728271
	LONM	-138.6571884			AZVI	271.8642997	Z	518681.6562	VZ	171.5794029
	A	6187864.000	ASND	290.1220169	VVEN	-27963886.50	APOG	80.23836708	VAPG	5286.321960
	ECC	.33430332-03	ARGP	350.3965301	ARGL	68.85749244	PERG	79.55747318	VPER	5289.857543
	INCL	174.8434181	MA	78.42335033	TA	78.46095943	PERD	122.5379428	MOON	ELLIPSE
	LTDE	-3.566487044	LONE	-1.210792586	LTDS	-1.413933187	LONS	82.51821136		
	WT	35799.86279	ATLI	38.41798877	VA	5304.832214	AAAP	-125.8580484	VIR	1.663977265
	DVV	4.520965576	AMIS	69.75566387	FPVA	.0179729461	AAAY	162.0275077	VIT	5288.429382
	RANG	1815.229232	RLAT	14.19804584	AZVA	271.8585319	AAAT	54.86663436	VAT	-5304.831909

7 FEB. 1968 2 HR 7 MIN 52.97 SEC TMST 342810.0000 J.D. 2439893.5888 3 DAY 23 HR 13.5 MIN

SELENOGRAPHIC

	ALT	485120.6250	R	6187515.375	VI	5288.402587	X	-4732226.500	VX	-3379.025268
74	LTDM	4.854826986			FPVI	.0177173614	Y	-3951855.468	VY	4064.940734
	LONM	-140.1349334			AZVI	271.7400970	Z	523657.8515	VZ	160.1485748
	A	6187899.875	ASND	290.1186637	VVEN	-27963724.75	APOG	80.26626300	VAPG	5286.192382
	ECC	.35589306-03	ARGP	351.6687049	ARGL	70.32736873	PERG	79.54138565	VPER	5289.956420
	INCL	174.8434448	MA	78.61927413	TA	78.65865993	PERD	122.5390081	MOON	ELLIPSE
	LTDE	-3.566888809	LONE	-1.210810974	LTDS	-1.413930445	LONS	82.51444339		
	WT	35799.86279	ATLI	39.78232669	VA	5304.805297	AAAP	-127.3367099	VIR	1.635195851
	DVV	4.520925581	AMIS	70.30212593	FPVA	.0176620483	AAAY	162.2544841	VIT	5288.402282
	RANG	1839.359420	RLAT	13.33399844	AZVA	271.7347145	AAAT	53.45975065	VAT	-5304.804992

7 FEB. 1968 2 HR 8 MIN 22.97 SEC TMST 342840.0000 J.D. 2439893.5891 3 DAY 23 HR 14.0 MIN

SELENOGRAPHIC

	ALT	485169.1875	R	6187563.937	VI	5288.376220	X	-4832397.562	VX	-3273.810211
74	LTDM	4.897833168			FPVI	.0173902511	Y	-3828157.812	VY	4150.542663
	LONM	-141.6142234			AZVI	271.6147346	Z	528289.5312	VZ	148.6124591

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A	6187935.187	ASND	290.1139602	VVEN	-27963565.00	APOG	80.25009346	VAPG	5286.291442
ECC	.33430332-03	ARGP	352.9597740	ARGL	71.79724788	PERG	79.56918907	VPER	5289.827087
INCL	174.8434696	MA	78.79921340	TA	78.83747100	PERD	122.5400571	MOON	ELLIPSE
LTDE	-3.567290425	LONE	-1.212203040	LTCS	-1.413928389	LCNS	82.50930118		
WT	35799.86279	ATLI	41.15269660	VA	5304.778991	AAAP	-128.8175830	VIR	1.604953765
DVV	4.520886182	AMIS	70.79758262	FPVA	.0173358917	AAAY	162.4674301	VIT	5288.375976
RANG	1863.511611	RLAT	12.51812112	AZVA	271.6097412	AAAT	52.05524158	VAT	-5304.778747

7 FEB. 1968 2 HR 8 MIN 52.97 SEC TMST 342870.0000 J.D. 2439893.5895 3 DAY 23 HR 14.5 MIN

SELENOGRAPHIC

ALT	485216.8125	R	6187611.687	VI	5288.350402	X	-4929278.812	VX	-3166.529235
74 LTDM	4.937610983			FPVI	.0170497894	Y	-3702041.875	VY	4233.317871
LONM	-143.0923080			AZVI	271.4882965	Z	532573.5625	VZ	136.9787483
A	6187970.312	ASND	290.1106376	VVEN	-27963407.25	APOG	80.25587368	VAPG	5286.276428
ECC	.33430332-03	ARGP	354.2680969	ARGL	73.26711750	PERG	79.57497024	VPER	5289.812072
INCL	174.8434925	MA	78.96082210	TA	78.99901771	PERD	122.5411005	MOON	ELLIPSE
LTDE	-3.567691594	LONE	-1.212221667	LTCS	-1.413925483	LCNS	82.50553512		
WT	35799.86279	ATLI	42.52849912	VA	5304.753356	AAAP	-130.3006439	VIR	1.573581099
DVV	4.520848274	AMIS	71.24663734	FPVA	.0169973373	AAAY	162.6678638	VIT	5288.350158
RANG	1887.641113	RLAT	11.74581289	AZVA	271.4836921	AAAT	50.65332555	VAT	-5304.753112

7 FEB. 1968 2 HR 9 MIN 22.97 SEC TMST 342900.0000 J.D. 2439893.5898 3 DAY 23 HR 15.0 MIN

SELENOGRAPHIC

ALT	485263.6250	R	6187658.375	VI	5288.325134	X	-5022986.375	VX	-3057.052459
74 LTDM	4.974136292			FPVI	.0166969299	Y	-3573357.531	VY	4313.365783
LONM	-144.5719127			AZVI	271.3608665	Z	536507.3828	VZ	125.2549867
A	6188004.562	ASND	290.1059684	VVEN	-27963252.00	APOG	80.29401493	VAPG	5286.093200
ECC	.36621094-03	ARGP	355.5802688	ARGL	74.73699378	PERG	79.54811286	VPER	5289.966186
INCL	174.8435134	MA	79.11484336	TA	79.15672111	PERD	122.5421180	MOON	ELLIPSE
LTDE	-3.568093925	LONE	-1.213610991	LTCS	-1.413924336	LCNS	82.50039482		

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WT	35799.86279	ATLI	43.90920829	VA	5304.728149	AAAP	-131.7858600	VIR	1.540967345
DVV	4.520810723	AMIS	71.65336036	FPVA	.0166454315	AAAY	162.8570880	VIT	5288.324890
RANG	1911.792648	RLAT	11.01299560	AZVA	271.3566589	AAAT	49.25424671	VAT	-5304.727905

7 FEB. 1968 2 HR 9 MIN 52.97 SEC TMST 342930.0000 J.D. 2439893.5902 3 DAY 23 HR 15.5 MIN

SELENOGRAPHIC

ALT	485309.3125	R	6187704.062	VI	5288.300598	X	-5113243.000	VX	-2945.709594
74 LTDM	5.007383167			FPVI	.0163297653	Y	-3442489.375	VY	4390.449584
LONM	-146.0495986			AZVI	271.2325325	Z	540088.2578	VZ	113.4490308
A	6188038.375	ASND	290.1033592	VVEN	-27963098.50	APOG	80.24357223	VAPG	5286.369445
ECC	.31121945-03	ARGP	356.9236526	ARGL	76.20685577	PERG	79.60966587	VPER	5289.660949
INCL	174.8435306	MA	79.24806594	TA	79.28320312	PERD	122.5431232	MOON	ELLIPSE
LTDE	-3.568496733	LONE	-1.212943881	LTCS	-1.413922324	LCNS	82.49731445		
WT	35799.86279	ATLI	45.29435300	VA	5304.703674	AAAP	-133.2731971	VIR	1.507064700
DVV	4.520774424	AMIS	72.02137088	FPVA	.0162801742	AAAY	163.0362472	VIT	5288.300354
RANG	1935.910293	RLAT	10.31604444	AZVA	271.2287178	AAAT	47.85826921	VAT	-5304.703430

7 FEB. 1968 2 HR 10 MIN 22.97 SEC TMST 342960.0000 J.D. 2439893.5905 3 DAY 23 HR 16.0 MIN

SELENOGRAPHIC

ALT	485354.0000	R	6187748.750	VI	5288.276550	X	-5200161.812	VX	-2832.368530
74 LTDM	5.037328302			FPVI	.0159521103	Y	-3309284.312	VY	4464.665893
LONM	-147.5280971			AZVI	271.1033706	Z	543313.7187	VZ	101.5684957
A	6188071.500	ASND	290.1000823	VVEN	-27962948.75	APOG	80.22361660	VAPG	5286.487121
ECC	.28628026-03	ARGP	358.2722930	ARGL	77.67671775	PERG	79.64052391	VPER	5289.514770
INCL	174.8435478	MA	79.37146663	TA	79.40442276	PERD	122.5441055	MOON	ELLIPSE
2" LTDE	-3.568898320	LONE	-1.212961629	LTCS	-1.413920328	LCNS	82.49354648		
WT	35799.86279	ATLI	46.68352365	VA	5304.679809	AAAP	-134.7626056	VIR	1.472181677
DVV	4.520739138	AMIS	72.35389041	FPVA	.0159025192	AAAY	163.2063350	VIT	5288.276306
RANG	1960.038864	RLAT	9.651729464	AZVA	271.0999603	AAAT	46.46569585	VAT	-5304.679565

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7 FEB. 1968 2 HR 10 MIN 52.97 SEC TMST 342990.0000 J.D. 2439893.5909 3 DAY 23 HR 16.5 MIN

SELENOGRAPHIC

	ALT	485397.6250	R	6187792.437	VI	5288.253112	X	-5283718.437	VX	-2717.047424
74	LTDM	5.063951849			FPVI	.0155611038	Y	-3173764.437	VY	4535.994140
	LONM	-149.0080757			AZVI	270.9734764	Z	546181.6640	VZ	89.62124919
	A	6188104.125	ASND	290.0954475	VVEN	-27962802.50	APOG	80.25439262	VAPG	5286.341308
	ECC	.31121945-03	ARGP	359.6356964	ARCL	79.14657402	PERG	79.62048625	VPER	5289.632751
	INCL	174.8435630	MA	79.47584056	TA	79.51087284	PERD	122.5450744	MOON	ELLIPSE
	LTDE	-3.569299966	LONE	-1.214352369	LTCS	-1.413917675	LCNS	82.48840713		
	WT	35799.86279	ATLI	48.07634973	VA	5304.656494	AAAP	-136.2540416	VIR	1.436074793
	DVV	4.520704329	AMIS	72.65379238	FPVA	.0155124664	AAAY	163.3682308	VIT	5288.252868
	RANG	1984.189453	RLAT	9.017163753	AZVA	270.9704666	AAAT	45.07685899	VAT	-5304.656250

7 FEB. 1968 2 HR 11 MIN 22.97 SEC TMST 343020.0000 J.D. 2439893.5912 3 DAY 23 HR 17.0 MIN

SELENOGRAPHIC

	ALT	485440.1250	R	6187834.875	VI	5288.230346	X	-5363702.375	VX	-2600.038024
74	LTDM	5.087237775			FPVI	.0151576996	Y	-3036270.250	VY	4604.254394
	LONM	-150.4867820			AZVI	270.8429336	Z	548690.3828	VZ	77.61516284
	A	6188135.687	ASND	290.0921974	VVEN	-27962659.00	APOG	80.25959777	VAPG	5286.327880
	ECC	.31121945-03	ARGP	1.010203361	ARCL	80.61642646	PERG	79.62568092	VPER	5289.619262
	INCL	174.8435783	MA	79.57120704	TA	79.60622310	PERD	122.5460138	MOON	ELLIPSE
	LTDE	-3.569701820	LONE	-1.214370325	LTCS	-1.413915962	LCNS	82.48464012		
	WT	35799.86279	ATLI	49.47250509	VA	5304.633850	AAAP	-137.7474479	VIR	1.398865878
	DVV	4.520670652	AMIS	72.92365741	FPVA	.0151109695	AAAY	163.5227088	VIT	5288.230163
	RANG	2008.317352	RLAT	8.409756064	AZVA	270.8403282	AAAT	43.69213390	VAT	-5304.633666

7 FEB. 1968 2 HR 11 MIN 52.97 SEC TMST 343050.0000 J.D. 2439893.5916 3 DAY 23 HR 17.5 MIN

SELENOGRAPHIC

	ALT	485481.5625	R	6187876.375	VI	5288.208007	X	-5440209.812	VX	-2481.198547
74	LTDM	5.107170105			FPVI	.0147428512	Y	-2896637.625	VY	4669.528930
	LONM	-151.9669456			AZVI	270.7118301	Z	550838.2265	VZ	65.55811500

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A	6188166.437	ASND	290.0875816	VVEN	-27962520.50	APOG	80.23925209	VAPG	5286.446533
ECC	.28628026-03	ARGP	2.393758773	ARGL	82.08627510	PERG	79.65614891	VPER	5289.474182
INCL	174.8435897	MA	79.65921211	TA	79.69251632	PERD	122.5469264	MOON	ELLIPSE
LTDE	-3.570104569	LONE	-1.215764239	LTCS	-1.413914471	LCNS	82.47949695		
WT	35799.86279	ATLI	50.87169647	VA	5304.611572	AAAP	-139.2427597	VIR	1.360602915
DVV	4.520637631	AMIS	73.16579151	FPVA	.0146980285	AAAY	163.6704559	VIT	5288.207824
RANG	2032.467407	RLAT	7.827178597	AZVA	270.7096290	AAAT	42.31194353	VAT	-5304.611389

7 FEB. 1968 2 HR 12 MIN 22.97 SEC TMST 343080.0000 J.D. 2439893.5919 3 DAY 23 HR 18.0 MIN

SELENOGRAPHIC

	ALT	485521.7500	R	6187916.500	VI	5288.186218	X	-5513047.250	VX	-2360.830474
74	LTDM	5.123733758			FPVI	.0143175125	Y	-2755218.437	VY	4731.652526
	LONM	-153.4457988			AZVI	270.5802497	Z	552623.5390	VZ	53.45805788
	A	6188195.750	ASND	290.0843467	VVEN	-27962387.75	APOG	80.24407577	VAPG	5286.433959
	ECC	.28628026-03	ARGP	3.776206016	ARGL	83.55611133	PERG	79.66096305	VPER	5289.461730
	INCL	174.8435993	MA	79.74721622	TA	79.77990531	PERD	122.5477972	MOON	ELLIPSE
	LTDE	-3.570505768	LONE	-1.215780466	LTCS	-1.413912639	LCNS	82.47573184		
	WT	35799.86279	ATLI	52.27366018	VA	5304.589965	AAAP	-140.7399196	VIR	1.321291685
	DVV	4.520605862	AMIS	73.38227558	FPVA	.0142726898	AAAY	163.8120784	VIT	5288.186035
	RANG	2056.594665	RLAT	7.267331779	AZVA	270.5784568	AAAT	40.93676233	VAT	-5304.589782

7 FEB. 1968 2 HR 12 MIN 52.97 SEC TMST 343110.0000 J.D. 2439893.5923 3 DAY 23 HR 18.5 MIN

SELENOGRAPHIC

	ALT	485560.8125	R	6187955.625	VI	5288.165161	X	-5582208.812	VX	-2238.959960
74	LTDM	5.136919081			FPVI	.0138797760	Y	-2612043.968	VY	4790.620178
2"	LONM	-154.9240226			AZVI	270.4482879	Z	554045.3359	VZ	41.32300853
	A	6188224.562	ASND	290.0818023	VVEN	-27962258.00	APOG	80.24881744	VAPG	5286.421813
	ECC	.28628026-03	ARGP	5.179020881	ARGL	85.02593326	PERG	79.66570472	VPER	5289.449401
	INCL	174.8436069	MA	79.81288242	TA	79.84691238	PERD	122.5486516	MOON	ELLIPSE
1"	LTDE	-3.570907652	LONE	-1.215111181	LTCS	-1.413909748	LCNS	82.47265148		

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WT	35799.86279	ATLI	53.67815876	VA	5304.568969	AAAP	-142.2388458	VIR	1.280939877
DVV	4.520574152	AMIS	73.57498359	FPVA	.0138368606	AAAY	163.9481258	VIT	5288.164978
RANG	2080.710510	RLAT	6.728316843	AZVA	270.4468994	AAAT	39.56713151	VAT	-5304.568786

7 FEB. 1968 2 HR 13 MIN 22.97 SEC TMST 343140.0000 J.D. 2439893.5926 3 DAY 23 HR 19.0 MIN

SELENOGRAPHIC

ALT	485598.6250	R	6187993.500	VI	5288.144592	X	-5647742.375	VX	-2115.495666
74 LTDM	5.146715223			FPVI	.0134325027	Y	-2467008.593	VY	4846.473083
LONM	-156.4036540			AZVI	270.3160209	Z	555102.4609	VZ	29.16081905
A	6188252.250	ASND	290.0778923	VVEN	-27962133.25	APOG	80.23980712	VAPG	5286.480346
ECC	.27295752-03	ARGP	6.592282295	ARGL	86.49575424	PERG	79.68382930	VPER	5289.367065
INCL	174.8436145	MA	79.87163066	TA	79.90347194	PERD	122.5494747	MOON	ELLIPSE
LTDE	-3.571307957	LONE	-1.215815454	LTCS	-1.413906633	LONS	82.46819877		
WT	35799.86279	ATLI	55.08497714	VA	5304.548522	AAAP	-143.7394676	VIR	1.239675343
DVV	4.520543575	AMIS	73.74560832	FPVA	.0133905411	AAAY	164.0790901	VIT	5288.144409
RANG	2104.848388	RLAT	6.208412230	AZVA	270.3150444	AAAT	38.20366525	VAT	-5304.548339

7 FEB. 1968 2 HR 13 MIN 52.97 SEC TMST 343170.0000 J.D. 2439893.5930 3 DAY 23 HR 19.5 MIN

SELENOGRAPHIC

ALT	485635.1875	R	6188029.937	VI	5288.124450	X	-5709538.375	VX	-1990.632446
74 LTDM	5.153120398			FPVI	.0129747391	Y	-2320340.250	VY	4899.117736
LONM	-157.8833103			AZVI	270.1835479	Z	555794.7109	VZ	16.97955250
A	6188277.937	ASND	290.0739936	VVEN	-27962015.75	APOG	80.22977828	VAPG	5286.543395
ECC	.25895024-03	ARGP	7.987503051	ARGL	87.96556663	PERG	79.70232391	VPER	5289.281982
INCL	174.8436183	MA	79.94999790	TA	79.97806358	PERD	122.5502386	MOON	ELLIPSE
LTDE	-3.571710765	LONE	-1.216518893	LTCS	-1.413905173	LONS	82.46374607		
WT	35799.86279	ATLI	56.49392271	VA	5304.528442	AAAP	-145.2417030	VIR	1.197366848
DVV	4.520513713	AMIS	73.89568138	FPVA	.0129346847	AAAY	164.2054100	VIT	5288.124267
RANG	2128.985992	RLAT	5.706051588	AZVA	270.1829795	AAAT	36.84706449	VAT	-5304.528259

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7 FEB. 1968 2 HR 14 MIN 22.97 SEC TMST 343200.0000 J.D. 2439893.5933 3 DAY 23 HR 20.0 MIN

SELENOGRAPHIC

	ALT	485670.4375	R	6188065.187	VI	5288.104980	X	-5767556.437	VX	-1864.452758
74	LTDM	5.156127214			FPVI	.0125074386	Y	-2172135.750	VY	4948.519714
	LONM	-159.3629798			AZVI	270.0509529	Z	556121.3046	VZ	4.787168920
	A	6188302.875	ASND	290.0700988	VVEN	-27961903.50	APOG	80.23388195	VAPG	5286.532775
	ECC	.25895024-03	ARGP	9.400648117	ARCL	89.43537425	PERG	79.70642757	VPER	5289.271301
	INCL	174.8436183	MA	80.00525188	TA	80.03472614	PERD	122.5509777	MOON	ELLIPSE
	LTDE	-3.572113156	LONE	-1.217227444	LTCS	-1.413904085	LCNS	82.45928955		
	WT	35799.86279	ATLI	57.90481758	VA	5304.509033	AAAP	-146.7454624	VIR	1.154191270
	DVV	4.520484268	AMIS	74.0265932C	FPVA	.0124673843	AAAY	164.3274860	VIT	5288.104858
	RANG	2153.123413	RLAT	5.219806849	AZVA	270.0507926	AAAT	35.49813175	VAT	-5304.508911

7 FEB. 1968 2 HR 14 MIN 52.97 SEC TMST 343230.0000 J.D. 2439893.5937 3 DAY 23 HR 20.5 MIN

SELENOGRAPHIC

	ALT	485704.4375	R	6188099.125	VI	5288.085937	X	-5821781.937	VX	-1736.980941
74	LTDM	5.155731916			FPVI	.0120296478	Y	-2022424.250	VY	4994.666687
	LONM	-160.8433227			AZVI	269.9183197	Z	556081.8359	VZ	-7.408160507
	A	6188326.312	ASND	290.0655136	VVEN	-27961797.75	APOG	80.25200653	VAPG	5286.448730
	ECC	.27295752-03	ARGP	10.80567169	ARCL	90.90516090	PERG	79.69601821	VPER	5289.335449
	INCL	174.8436203	MA	80.06762599	TA	80.09948921	PERD	122.5516748	MOON	ELLIPSE
	LTDE	-3.572513699	LONE	-1.218615889	LTCS	-1.413900867	LCNS	82.45415019		
	WT	35799.86279	ATLI	59.31750059	VA	5304.490051	AAAP	-148.2506561	VIR	1.110173821
	DVV	4.520455956	AMIS	74.13961029	FPVA	.0119924545	AAAY	164.4456806	VIT	5288.085815
	RANG	2177.271636	RLAT	4.748371541	AZVA	269.9185752	AAAT	34.15779113	VAT	-5304.489929

7 FEB. 1968 2 HR 15 MIN 22.97 SEC TMST 343260.0000 J.D. 2439893.5940 3 DAY 23 HR 21.0 MIN

SELENOGRAPHIC

	ALT	485737.0625	R	6188131.812	VI	5288.067443	X	-5872106.625	VX	-1608.480438
74	LTDM	5.151938021			FPVI	.0115432739	Y	-1871513.640	VY	5037.466064
	LONM	-162.3222675			AZVI	269.7857475	Z	555676.6796	VZ	-19.59859466

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A	6188348.312	ASND	290.062313C	VVEN	-27961698.00	APOG	80.21021366	VAPG	5286.675048
ECC	.22837264-03	ARGP	12.21378326	ARGL	92.37494468	PERG	79.74504184	VPER	5289.090209
INCL	174.8436183	MA	80.13489532	TA	80.16116142	PERD	122.5523290	MOON	ELLIPSE
LTDE	-3.572914868	LONE	-1.218631863	LTCS	-1.413899034	LCNS	82.45038414		
WT	35799.86279	ATLI	60.73182439	VA	5304.471740	AAAP	-149.7571868	VIR	1.065205574
DVV	4.520428001	AMIS	74.23587608	FPVA	.0115070343	AAAY	164.5603237	VIT	5288.067321
RANG	2201.397155	RLAT	4.290547609	AZVA	269.7864112	AAAT	32.82711219	VAT	-5304.471618

7 FEB. 1968 2 HR 15 MIN 52.97 SEC TMST 343290.0000 J.D. 2439893.5944 3 DAY 23 HR 21.5 MIN

SELENOGRAPHIC									
ALT	485768.3125	R	6188163.125	VI	5288.049499	X	-5918590.500	VX	-1478.795837
74 LTDM	5.144747078			FPVI	.0110483169	Y	-1719223.406	VY	5076.969665
LONM	-163.8025512			AZVI	269.6533203	Z	554905.9687	VZ	-31.77599120
A	6188368.812	ASND	290.0577316	VVEN	-27961605.75	APOG	80.19633769	VAPG	5286.755859
ECC	.21143198-03	ARGP	13.61419296	ARGL	93.84471130	PERG	79.76567649	VPER	5288.991821
INCL	174.8436126	MA	80.20586776	TA	80.23051834	PERD	122.5529375	MOON	ELLIPSE
LTDE	-3.573316663	LONE	-1.220023870	LTCS	-1.413896352	LCNS	82.44524478		
WT	35799.86279	ATLI	62.14765501	VA	5304.453857	AAAP	-151.2649555	VIR	1.019566208
DVV	4.520400702	AMIS	74.31644153	FPVA	.0110149383	AAAY	164.6717128	VIT	5288.049377
RANG	2225.544891	RLAT	3.845233291	AZVA	269.6543884	AAAT	31.50733590	VAT	-5304.453735

7 FEB. 1968 2 HR 16 MIN 22.97 SEC TMST 343320.0000 J.D. 2439893.5947 3 DAY 23 HR 22.0 MIN

SELENOGRAPHIC									
ALT	485798.1875	R	6188192.937	VI	5288.032104	X	-5961097.875	VX	-1348.316711
74 LTDM	5.134165346			FPVI	.0105438232	Y	-1566008.625	VY	5113.061279
LONM	-165.2807197			AZVI	269.5211219	Z	553770.3671	VZ	-43.93240594
A	6188387.875	ASND	290.0552139	VVEN	-27961519.75	APOG	80.24787139	VAPG	5286.496520
ECC	.25895024-03	ARGP	15.01049613	ARGL	95.31446552	PERG	79.72041702	VPER	5289.234985
INCL	174.8436069	MA	80.27493381	TA	80.30396938	PERD	122.5535049	MOON	ELLIPSE
LTDE	-3.573719173	LONE	-1.219354316	LTCS	-1.413894698	LCNS	82.44216537		

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WT	35799.86279	ATLI	63.56486654	VA	5304.436523	AAAP	-152.7738609	VIR	.9730472564
DVV	4.520373940	AMIS	74.38226222	FPVA	.0105113983	AAAY	164.7801303	VIT	5288.031982
RANG	2249.658721	RLAT	3.411412060	AZVA	269.5226020	AAAT	30.19990229	VAT	-5304.436401

7 FEB. 1968 2 HR 16 MIN 52.97 SEC TMST 343350.0000 J.D. 2439893.5950 3 DAY 23 HR 22.5 MIN

SELENOGRAPHIC

ALT	485826.6875	R	6188221.437	VI	5288.015197	X	-5999685.187	VX	-1216.886245
74 LTDM	5.120197176			FPVI	.0100326538	Y	-1411687.109	VY	5145.789611
LONM	-166.7595081			AZVI	269.3892478	Z	552270.3281	VZ	-56.05981826
A	6188405.375	ASND	290.0520019	VVEN	-27961440.50	APOG	80.20235538	VAPG	5286.740112
ECC	.21143198-03	ARGP	16.40622234	ARGL	96.78420734	PERG	79.77169322	VPER	5288.976196
INCL	174.8435974	MA	80.35354614	TA	80.37798500	PERD	122.5540237	MOON	ELLIPSE
LTDE	-3.574120253	LONE	-1.219374388	LTCS	-1.413892820	LCNS	82.43839645		
WT	35799.86279	ATLI	64.98334503	VA	5304.419738	AAAP	-154.2837905	VIR	.9258434772
DVV	4.520348072	AMIS	74.43420886	FPVA	.0100021362	AAAY	164.8858242	VIT	5288.015075
RANG	2273.783416	RLAT	2.988143473	AZVA	269.3911361	AAAT	28.90650653	VAT	-5304.419616

7 FEB. 1968 2 HR 17 MIN 22.97 SEC TMST 343380.0000 J.D. 2439893.5954 3 DAY 23 HR 23.0 MIN

SELENOGRAPHIC

ALT	485853.7500	R	6188248.500	VI	5287.998901	X	-6034336.250	VX	-1084.528488
74 LTDM	5.102853775			FPVI	.0095138550	Y	-1256287.703	VY	5175.141174
LONM	-168.2395877			AZVI	269.2577781	Z	550407.0078	VZ	-68.15027809
A	6188421.312	ASND	290.0474205	VVEN	-27961368.75	APOG	80.22223854	VAPG	5286.643859
ECC	.22837264-03	ARGP	17.78457832	ARGL	98.25393676	PERG	79.75705623	VPER	5289.058959
INCL	174.8435878	MA	80.44051647	TA	80.46935844	PERD	122.5544967	MOON	ELLIPSE
LTDE	-3.574521809	LONE	-1.220764383	LTCS	-1.413890466	LCNS	82.43325614		
WT	35799.86279	ATLI	66.40298366	VA	5304.403503	AAAP	-155.7946414	VIR	.8779468536
DVV	4.520322442	AMIS	74.47307872	FPVA	.0094842911	AAAY	164.9890327	VIT	5287.998779
RANG	2297.930297	RLAT	2.574554324	AZVA	269.2600746	AAAT	27.62913036	VAT	-5304.403381

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7 FEB. 1968 2 HR 17 MIN 52.97 SEC TMST 343410.0000 J.D. 2439893.5957 3 DAY 23 HR 23.5 MIN

SELENOGRAPHIC

	ALT	485879.3750	R	6188274.125	VI	5287.982910	X	-6064964.250	VX	-951.5779800
74	LTDM	5.082146942			FPVI	.0089883804	Y	-1100201.156	VY	5201.041381
	LONM	-169.7181930			AZVI	269.1268081	Z	548181.6640	VZ	-80.19581127
	A	6188435.000	ASND	290.0442047	VVEN	-27961306.50	APOG	80.14417648	VAPG	5287.054870
	ECC	.14950499-03	ARGP	19.12673568	ARGL	99.72365093	PERG	79.83963394	VPER	5288.636047
	INCL	174.8435764	MA	80.57845020	TA	80.59691524	PERD	122.5549049	MOON	ELLIPSE
	LTDE	-3.574923068	LONE	-1.220782965	LTDS	-1.413888096	LONS	82.42948818		
	WT	35799.86279	ATLI	67.82368564	VA	5304.387512	AAAP	-157.3062953	VIR	.8294494748
	DVV	4.520297765	AMIS	74.49960231	FPVA	.0089607239	AAAY	165.0899715	VIT	5287.982849
	RANG	2322.054443	RLAT	2.169832199	AZVA	269.1295089	AAAT	26.37011837	VAT	-5304.387451

7 FEB. 1968 2 HR 18 MIN 22.97 SEC TMST 343440.0000 J.D. 2439893.5961 3 DAY 23 HR 24.0 MIN

SELENOGRAPHIC

	ALT	485903.5000	R	6188298.250	VI	5287.967590	X	-6091605.500	VX	-817.8743286
74	LTDM	5.058091104			FPVI	.0084552765	Y	-943241.2812	VY	5223.522216
	LONM	-171.1980590			AZVI	268.9964218	Z	545595.7812	VZ	-92.18853950
	A	6188447.437	ASND	290.0396156	VVEN	-27961250.50	APOG	80.20927810	VAPG	5286.722229
	ECC	.21143198-03	ARGP	20.45737266	ARGL	101.1933507	PERG	79.77860546	VPER	5288.958312
	INCL	174.8435611	MA	80.71123790	TA	80.73597812	PERD	122.5552740	MOON	ELLIPSE
	LTDE	-3.575325399	LONE	-1.222173959	LTDS	-1.413886666	LONS	82.42434787		
	WT	35799.86279	ATLI	69.24535560	VA	5304.372253	AAAP	-158.8186378	VIR	.7802273035
	DVV	4.520273327	AMIS	74.51444435	FPVA	.0084295273	AAAY	165.1888446	VIT	5287.967468
	RANG	2346.200622	RLAT	1.773218795	AZVA	268.9995231	AAAT	25.13224244	VAT	-5304.372192

2"

7 FEB. 1968 2 HR 18 MIN 52.97 SEC TMST 343470.0000 J.D. 2439893.5964 3 DAY 23 HR 24.5 MIN

SELENOGRAPHIC

	ALT	485926.1875	R	6188320.937	VI	5287.952758	X	-6114193.375	VX	-683.7559814
74	LTDM	5.030699849			FPVI	.0079174042	Y	-785803.3046	VY	5242.526245
1"	LONM	-172.6764240			AZVI	268.8667068	Z	542650.8046	VZ	-104.1204414

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864385

A	6188458.062	ASND	290.0363922	VVEN	-27961202.25	APOG	80.14797210	VAPG	5287.045043
ECC	.14950499-03	ARGP	21.76693916	ARGL	102.6630306	PERG	79.84342956	VPER	5288.626220
INCL	174.8435459	MA	80.87705802	TA	80.89609146	PERD	122.5555887	MOON	ELLIPSE
LTDE	-3.575725674	LONE	-1.222189053	LTDS	-1.413883835	LONS	82.42058372		
WT	35799.86279	ATLI	70.66791057	VA	5304.357543	AAAP	-160.3315505	VIR	.7305394411
DVV	4.520249605	AMIS	74.51821708	FPVA	.0078926086	AAAY	165.2858371	VIT	5287.952697
RANG	2370.324127	RLAT	1.384003073	AZVA	268.8702087	AAAT	23.91879987	VAT	-5304.357482

7 FEB. 1968 2 HR 19 MIN 22.97 SEC TMST 343500.0000 J.D. 2439893.5968 3 DAY 23 HR 25.0 MIN

SELENOGRAPHIC

	ALT	485947.3750	R	6188342.062	VI	5287.938476	X	-6132731.812	VX -549.2492141
74	LTDM	4.999995768			FPVI	.0073728561	Y	-627918.6171	VY 5258.057312
	LONM	-174.1539630			AZVI	268.7377471	Z	539349.1093	VZ -115.9838390
	A	6188466.937	ASND	290.0338401	VVEN	-27961161.75	APOG	80.19372463	VAPG 5286.811340
	ECC	.19301011-03	ARGP	23.03291034	ARGL	104.1326951	PERG	79.80057716	VPER 5288.852478
	INCL	174.8435268	MA	81.07708644	TA	81.09978485	PERD	122.5558519	MOON ELLIPSE
	LTDE	-3.576128035	LONE	-1.221523031	LTDS	-1.413882046	LONS	82.41750144	
	WT	35799.86279	ATLI	72.09126949	VA	5304.343322	AAAP	-161.8449153	VIR .6803522110
	DVV	4.520226299	AMIS	74.51147460	FPVA	.0073499679	AAAY	165.3811283	VIT 5287.938415
	RANG	2394.436157	RLAT	1.001516759	AZVA	268.7416496	AAAT	22.73371553	VAT -5304.343261

7 FEB. 1968 2 HR 19 MIN 52.97 SEC TMST 343530.0000 J.D. 2439893.5971 3 DAY 23 HR 25.5 MIN

SELENOGRAPHIC

	ALT	485967.0000	R	6188361.750	VI	5287.924621	X	-6147225.562	VX -414.3177223
74	LTDM	4.965996563			FPVI	.0068235397	Y	-469545.7734	VY 5270.119812
2"	LONM	-175.6320343			AZVI	268.6096305	Z	535692.5312	VZ -127.7708015
	A	6188473.937	ASND	290.0305976	VVEN	-27961130.50	APOG	80.15058517	VAPG 5287.038208
	ECC	.14950499-03	ARGP	24.25020504	ARGL	105.6023387	PERG	79.84604167	VPER 5288.619384
	INCL	174.8435058	MA	81.33286857	TA	81.35213375	PERD	122.5560617	MOON ELLIPSE
1"	LTDE	-3.576529502	LONE	-1.221539437	LTDS	-1.413880109	LONS	82.41373443	

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WT	35799.86279	ATLI	73.51535415	VA	5304.329528	AAAP	-163.3586101	VIR	.6295965910
DVV	4.520204126	AMIS	74.49472808	FPVA	.0068025589	AAAY	165.4748821	VIT	5287.924560
RANG	2418.559020	RLAT	.6251299530	AZVA	268.6139297	AAAT	21.58167409	VAT	-5304.329467

7 FEB. 1968 2 HR 20 MIN 22.97 SEC TMST 343560.0000 J.D. 2439893.5975 3 DAY 23 HR 26.0 MIN

SELENOGRAPHIC

ALT	485985.1250	R	6188379.875	VI	5287.911315	X	-6157663.125	VX	-278.9867515
74 LTDM	4.528726613			FPVI	.0062694549	Y	-310714.6640	VY	5278.704406
LONM	-177.1113109			AZVI	268.48244009	Z	531683.6640	VZ	-139.4737586
A	6188479.062	ASND	290.0259780	VVEN	-27961107.25	APOG	80.15142822	VAPG	5287.036010
ECC	.14950499-03	ARGP	25.39722537	ARGL	107.0719766	PERG	79.84688568	VPER	5288.617187
INCL	174.8434810	MA	81.65510845	TA	81.67475128	PERD	122.5562133	MOON	ELLIPSE
LTDE	-3.576931953	LONE	-1.222931444	LTDS	-1.413878440	LONS	82.40859317		
WT	35799.86279	ATLI	74.94009494	VA	5304.316284	AAAP	-164.8725147	VIR	.5784478187
DVV	4.520182192	AMIS	74.46843814	FPVA	.0062494278	AAAY	165.5672569	VIT	5287.911254
RANG	2442.703918	RLAT	.2542460263	AZVA	268.4871368	AAAT	20.46826863	VAT	-5304.316223

7 FEB. 1968 2 HR 20 MIN 52.97 SEC TMST 343590.0000 J.D. 2439893.5978 3 DAY 23 HR 26.5 MIN

SELENOGRAPHIC

ALT	486001.6875	R	6188396.500	VI	5287.898681	X	-6164018.937	VX	-143.5987987
74 LTDM	4.888209641			FPVI	.0057106018	Y	-151825.5781	VY	5283.788940
LONM	-178.5890331			AZVI	268.3562660	Z	527324.9921	VZ	-151.0847835
A	6188482.687	ASND	290.0227165	VVEN	-27961091.50	APOG	80.15202522	VAPG	5287.034484
ECC	.14950499-03	ARGP	26.48699569	ARGL	108.5415859	PERG	79.84748172	VPER	5288.615661
INCL	174.8434581	MA	82.03438282	TA	82.05459022	PERD	122.5563201	MOON	ELLIPSE
LTDE	-3.577333092	LONE	-1.222947388	LTDS	-1.413876369	LONS	82.40482807		
WT	35799.86279	ATLI	76.36542224	VA	5304.303649	AAAP	-166.3865032	VIR	.5268929004
DVV	4.520160555	AMIS	74.43303108	FPVA	.0056934356	AAAY	165.6584014	VIT	5287.898620
RANG	2466.826019	RLAT	-.1117021981	AZVA	268.3613510	AAAT	19.40016269	VAT	-5304.303588

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7 FEB. 1968 2 HR 21 MIN 22.97 SEC TMST 343620.0000 J.D. 2439893.5982 3 DAY 23 HR 27.0 MIN

SELENOGRAPHIC

	ALT	486016.7500	R	6188411.500	VI	5287.886474	X	-6166299.812	VX	-7.990185022
74	LTDM	4.844473183			FPVI	.0051479339	Y	7311.753784	VY	5285.380065
	LONM	179.9320583			AZVI	268.2311859	Z	522619.4062	VZ	-162.5963802
	A	6188484.187	ASND	290.0180702	VVEN	-27961084.50	APOG	80.12432384	VAPG	5287.178894
	ECC	.12207031-03	ARGP	27.45500659	ARGL	110.0111808	PERG	79.87567615	VPER	5288.469909
	INCL	174.8434314	MA	82.54220962	TA	82.55617427	PERD	122.5563640	MOON	ELLIPSE
	LTDE	-3.577734023	LONE	-1.224337607	LTDS	-1.413874536	LONS	82.39968776		
	WT	35799.86279	ATLI	77.79127216	VA	5304.291503	AAAP	-167.9004573	VIR	.4749603271
	DVV	4.520139813	AMIS	74.38888835	FPVA	.0051317215	AAAY	165.7484569	VIT	5287.886413
	RANG	2490.970306	RLAT	-.4732549190	AZVA	268.2366600	AAAT	18.38526439	VAT	-5304.291442

7 FEB. 1968 2 HR 21 MIN 52.97 SEC TMST 343650.0000 J.D. 2439893.5985 3 DAY 23 HR 27.5 MIN

SELENOGRAPHIC

	ALT	486030.1875	R	6188425.000	VI	5287.874877	X	-6164500.875	VX	127.4963722
74	LTDM	4.797547400			FPVI	.0045814514	Y	166296.8457	VY	5283.473205
	LONM	178.4547309			AZVI	268.1072883	Z	517570.0898	VZ	-174.0008964
	A	6188483.937	ASND	290.0147781	VVEN	-27961086.00	APOG	80.15223026	VAPG	5287.033996
	ECC	.14950499-03	ARGP	28.26084041	ARGL	111.4807500	PERG	79.84768772	VPER	5288.615112
	INCL	174.8434047	MA	83.19712638	TA	83.21990966	PERD	122.5563573	MOON	ELLIPSE
	LTDE	-3.578135401	LONE	-1.224356945	LTDS	-1.413872212	LONS	82.39591979		
	WT	35799.86279	ATLI	79.21758365	VA	5304.279907	AAAP	-169.4142532	VIR	.4226870537
	DVV	4.520119726	AMIS	74.33635425	FPVA	.0045671463	AAAY	165.8375587	VIT	5287.874816
	RANG	2515.091552	RLAT	-.8309298083	AZVA	268.1131439	AAAT	17.43288016	VAT	-5304.279846

2"

7 FEB. 1968 2 HR 22 MIN 22.97 SEC TMST 343680.0000 J.D. 2439893.5989 3 DAY 23 HR 28.0 MIN

SELENOGRAPHIC

	ALT	486042.0625	R	6188436.750	VI	5287.863708	X	-6158619.125	VX	263.0238800
74	LTDM	4.747462093			FPVI	.0040130615	Y	325319.3750	VY	5278.066772
1"	LONM	176.9762477			AZVI	267.9846496	Z	512180.1875	VZ	-185.2908477

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A	6188481.375	ASND	290.0101051	VVEN	-27961096.25	APOG	80.12386131	VAPG	5287.180114
ECC	.12207031-03	ARGP	28.82228374	ARGL	112.9503021	PERG	79.87521362	VPER	5288.471069
INCL	174.8433780	MA	84.11486911	TA	84.12801837	PERD	122.5562829	MOON	ELLIPSE
LTDE	-3.578535318	LONE	-1.225746572	LTDS	-1.413869440	LONS	82.39077949		
WT	35799.86279	ATLI	80.64429569	VA	5304.268758	AAAP	-170.9277648	VIR	.3702379465
DVV	4.520100235	AMIS	74.27574348	FPVA	.0040006637	AAAY	165.9258346	VIT	5287.863647
RANG	2539.234710	RLAT	-1.185224831	AZVA	267.9908866	AAAT	16.55381226	VAT	-5304.268737

7 FEB. 1968 2 HR 22 MIN 37.97 SEC TMST 343695.0000 J.D. 2439893.5990 3 DAY 23 HR 28.2 MIN

SELENOGRAPHIC

ALT	486047.4375	R	6188442.125	VI	5287.858398	X	-6154153.250	VX	330.6645851
74 LTDM	4.721247494			FPVI	.0037288666	Y	404682.9960	VY	5274.056213
LONM	176.2377738			AZVI	267.9238281	Z	509358.8906	VZ	-190.8906078
A	6188479.750	ASND	290.0084419	VVEN	-27961103.75	APOG	80.12359428	VAPG	5287.180786
ECC	.12207031-03	ARGP	29.01624679	ARGL	113.6850681	PERG	79.87494659	VPER	5288.471801
INCL	174.8433609	MA	84.64991664	TA	84.66882133	PERD	122.5562343	MOON	ELLIPSE
LTDE	-3.578737765	LONE	-1.225757882	LTDS	-1.413868472	LONS	82.38889503		
WT	35799.86279	ATLI	81.35778331	VA	5304.263549	AAAP	-171.6843776	VIR	.3439437151
DVV	4.520090818	AMIS	74.24249553	FPVA	.0037164688	AAAY	165.9697055	VIT	5287.858337
RANG	2551.294860	RLAT	-1.361255720	AZVA	267.9302520	AAAT	16.14555668	VAT	-5304.263549

7 FEB. 1968 2 HR 22 MIN 52.97 SEC TMST 343710.0000 J.D. 2439893.5992 3 DAY 23 HR 28.5 MIN

SELENOGRAPHIC

ALT	486052.3750	R	6188447.125	VI	5287.853149	X	-6148676.187	VX	398.1870803
74 LTDM	4.694255530			FPVI	.0034427643	Y	483905.7773	VY	5269.178527
2" LONM	175.5000495			AZVI	267.8633537	Z	506453.7656	VZ	-196.4590110
A	6188477.375	ASND	290.0074768	VVEN	-27961115.00	APOG	79.99888420	VAPG	5287.827148
ECC	-.00000000 00	ARGP	29.07333278	ARGL	114.4198379	PERG	79.99888420	VPER	5287.827270
INCL	174.8433437	MA	85.33650875	TA	85.34650516	PERD	122.5561618	MOON	ELLIPSE
1" LTDE	-3.578939229	LONE	-1.225080117	LTDS	-1.413868069	LONS	82.38769817		

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WT	35799.86279	ATLI	82.07135105	VA	5304.258300	AAAP	-7.317450642	VIR	.3175420761
DVV	4.520081102	AMIS	74.20733070	FPVA	.0034313202	AAAY	166.0134143	VIT	5287.853088
RANG	2563.343658	RLAT	-1.536620289	AZVA	267.8699645	AAAT	15.63762068	VAT	-5304.258239

7 FEB. 1968 2 HR 23 MIN .47 SEC TMST 343717.5000 J.D. 2439893.5993 3 DAY 23 HR 28.6 MIN

SELENOGRAPHIC

ALT	486054.7500	R	6188449.500	VI	5287.850646	X	-6145557.250	VX	431.9242782
74 LTDM	4.680469274			FPVI	.0032987594	Y	523488.0273	VY	5266.413696
LONM	175.1312065			AZVI	267.8332481	Z	504969.9023	VZ	-199.2311077
A	6188476.250	ASND	290.0069885	VVEN	-27961120.00	APOG	79.99869918	VAPG	5287.827697
ECC	-.00000000 00	ARGP	29.08216381	ARGL	114.7872171	PERG	79.99869918	VPER	5287.827758
INCL	174.8433361	MA	85.69558048	TA	85.70505332	PERD	122.5561304	MOON	ELLIPSE
LTDE	-3.579039275	LONE	-1.224740311	LTDS	-1.413867309	LONS	82.38710117		
WT	35799.86279	ATLI	82.42816162	VA	5304.255798	AAAP	-6.953618884	VIR	.3043489456
DVV	4.520076513	AMIS	74.18903732	FPVA	.0032892227	AAAY	166.0352153	VIT	5287.850585
RANG	2569.368011	RLAT	-1.624071195	AZVA	267.8399543	AAAT	15.46730387	VAT	-5304.255737

7 FEB. 1968 2 HR 23 MIN 7.97 SEC TMST 343725.0000 J.D. 2439893.5994 3 DAY 23 HR 28.7 MIN

SELENOGRAPHIC

ALT	486057.0000	R	6188451.750	VI	5287.848144	X	-6142171.375	VX	465.7697868
74 LTDM	4.666490137			FPVI	.0031557083	Y	563195.9140	VY	5263.420471
LONM	174.7610092			AZVI	267.8032341	Z	503465.2421	VZ	-201.9950256
A	6188474.875	ASND	290.0051307	VVEN	-27961126.00	APOG	80.12279129	VAPG	5287.182922
ECC	.12207031-03	ARGP	29.02705574	ARGL	115.1545991	PERG	79.87414360	VPER	5288.473876
INCL	174.8433284	MA	86.11039543	TA	86.12754344	PERD	122.5560884	MOON	ELLIPSE
LTDE	-3.579139649	LONE	-1.225774660	LTDS	-1.413867324	LONS	82.38512897		
WT	35799.86279	ATLI	82.78499031	VA	5304.253295	AAAP	-6.589501261	VIR	.2911207676
DVV	4.520072102	AMIS	74.17027759	FPVA	.0031461715	AAAY	166.0569820	VIT	5287.848083
RANG	2575.414642	RLAT	-1.711376965	AZVA	267.8100318	AAAT	15.30251944	VAT	-5304.253295

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7 FEB. 1968 2 HR 23 MIN 11.72 SEC TMST 343728.7500 J.D. 2439893.5994 3 DAY 23 HR 28.8 MIN

SELENOGRAPHIC

	ALT	486058.0625	R	6188452.812	VI	5287.846862	X	-6140393.187	VX	482.5907592
74	LTDM	4.659429013			FPVI	.0030841827	Y	582930.8046	VY	5261.850463
	LONM	174.5769443			AZVI	267.7882614	Z	502705.1835	VZ	-203.3738536
	A	6188474.125	ASND	290.0052261	VVEN	-27961129.75	APOG	80.15061569	VAPG	5287.038085
	ECC	.14950499-03	ARGP	28.97931861	ARGL	115.3382854	PERG	79.84607315	VPER	5288.619262
	INCL	174.8433246	MA	86.32839679	TA	86.35896682	PERD	122.5560665	MOON	ELLIPSE
	LTDE	-3.579189538	LONE	-1.225262356	LTCS	-1.413866758	LCNS	82.38517284		
	WT	35799.86279	ATLI	82.96341037	VA	5304.252014	AAAP	-6.407340109	VIR	.2845041752
	DVV	4.520069897	AMIS	74.16072177	FPVA	.0030746460	AAAY	166.0678520	VIT	5287.846801
	RANG	2578.421264	RLAT	-1.754977911	AZVA	267.7951049	AAAT	15.22228026	VAT	-5304.251953

7 FEB. 1968 2 HR 23 MIN 15.47 SEC TMST 343732.5000 J.D. 2439893.5995 3 DAY 23 HR 28.9 MIN

SELENOGRAPHIC

	ALT	486059.1250	R	6188453.875	VI	5287.845642	X	-6138551.937	VX	499.4067649
74	LTDM	4.652319669			FPVI	.0030126571	Y	602659.7500	VY	5260.226440
	LONM	174.3928833			AZVI	267.7733116	Z	501939.9375	VZ	-204.7505912
	A	6188473.437	ASND	290.0053215	VVEN	-27961133.25	APOG	80.19479465	VAPG	5286.808532
	ECC	.19301011-03	ARGP	28.93099212	ARGL	115.5219736	PERG	79.80164718	VPER	5288.849731
	INCL	174.8433189	MA	86.54921627	TA	86.59098148	PERD	122.5560455	MOON	ELLIPSE
	LTDE	-3.579239875	LONE	-1.224749475	LTCS	-1.413866415	LCNS	82.38521671		
	WT	35799.86279	ATLI	83.14183425	VA	5304.250793	AAAP	-6.225113153	VIR	.2779152393
	DVV	4.520067453	AMIS	74.15105247	FPVA	.0030040741	AAAY	166.0787143	VIT	5287.845642
	RANG	2581.427795	RLAT	-1.798545166	AZVA	267.7802009	AAAT	15.14351904	VAT	-5304.250732

7 FEB. 1968 2 HR 23 MIN 19.22 SEC TMST 343736.2500 J.D. 2439893.5995 3 DAY 23 HR 28.9 MIN

SELENOGRAPHIC

	ALT	486060.1250	R	6188454.875	VI	5287.844482	X	-6136625.187	VX	516.4068527
74	LTDM	4.645162642			FPVI	.0029401779	Y	622603.2656	VY	5258.529785
	LONM	174.2067661			AZVI	267.7583847	Z	501169.5351	VZ	-206.1252498

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A	6188472.500	ASND	290.0033607	VVEN	-27961137.00	APOG	80.15034866	VAPG	5287.038879
ECC	.14950499-03	ARGP	28.86066627	ARGL	115.7056627	PERG	79.84580516	VPER	5288.619995
INCL	174.8433170	MA	86.81340408	TA	86.84499645	PERD	122.5560188	MOON	ELLIPSE
LTDE	-3.579289972	LONE	-1.226297646	LTDS	-1.413866132	LONS	82.38319873		
WT	35799.86279	ATLI	83.32026195	VA	5304.249572	AAAP	-6.042822361	VIR	.2712860107
DVV	4.520065426	AMIS	74.14126586	FPVA	.0029315948	AAAY	166.0895690	VIT	5287.844482
RANG	2584.467926	RLAT	-1.842079877	AZVA	267.7653198	AAAT	15.06626677	VAT	-5304.249572

7 FEB. 1968 2 HR 23 MIN 21.94 SEC TMST 343738.9687 J.D. 2439893.5995 3 DAY 23 HR 29.0 MIN

SELENOGRAPHIC

	ALT	486060.8750	R	6188455.625	VI	5287.843566	X	-6135204.500	VX 528.5923309
74	LTDM	4.639943480			FPVI	.0028896332	Y	636899.3281	VY 5257.278869
	LONM	174.0733165			AZVI	267.7475738	Z	500607.7265	VZ -207.1206092

A	6188471.875	ASND	290.0034294	VVEN	-27961139.50	APOG	80.12229824	VAPG	5287.184204
ECC	.12207031-03	ARGP	28.80997467	ARGL	115.8388442	PERG	79.87364959	VPER	5288.475158
INCL	174.8433132	MA	87.00976181	TA	87.02886962	PERD	122.5559997	MOON	ELLIPSE
LTDE	-3.579326301	LONE	-1.225926652	LTDS	-1.413866102	LONS	82.38323211		
WT	35799.86279	ATLI	83.44963550	VA	5304.248657	AAAP	-5.910612285	VIR	.2664813995
DVV	4.520063996	AMIS	74.13409805	FPVA	.0028800964	AAAY	166.0974369	VIT	5287.843505
RANG	2586.647796	RLAT	-1.873625010	AZVA	267.7545471	AAAT	15.01121652	VAT	-5304.248657

PRIMARY PHASE CUTOFF ---- PHASE TIME LAPSE 1205.789062

ORIENT FOR MOON-EARTH INJECTION

7 FEB. 1968 2 HR 23 MIN 21.94 SEC TMST 343738.9687 J.D. 2439893.5995 3 DAY 23 HR 29.0 MIN

SELENOGRAPHIC

	ALT	486060.8750	R	6188455.625	VI	5287.843566	X	-6135204.500	VX 528.5923309
75	LTDM	4.639943480			FPVI	.0028896332	Y	636899.3281	VY 5257.278869
	LONM	174.0733165			AZVI	267.7475738	Z	500607.7265	VZ -207.1206092

A	6188471.875	ASND	290.0034294	VVEN	-27961139.50	APOG	80.12229824	VAPG	5287.184204

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ECC	.12207031-03	ARGP	28.80997467	ARGL	115.8388442	PERG	79.87364959	VPER	5288.475158
INCL	174.8433132	MA	87.00976181	TA	87.02886962	PERD	122.5559997	MOON	ELLIPSE
LTDE	-3.579326301	LONE	-1.225926652	LTDS	-1.413866102	LONS	82.38323211		
WT	35799.86279	ATLI	89.99711132	VA	5304.248657	AAAP	.88283523-05	VIR	.2664813995
DVV	4.520063996	AMIS	267.7475738	FPVA	.0028800964	AAAY	-.0069698657	VIT	5287.843505
RANG	2586.647796	RLAT	.36165994-06	AZVA	267.7545471	AAAT	.0069698713	VAT	-5304.248657

7 FEB. 1968 2 HR 23 MIN 21.94 SEC TMST 343738.9687 J.D. 2439893.5995 3 DAY 23 HR 29.0 MIN

SELENOGRAPHIC

ALT	486060.8750	R	6188455.625	VI	5287.843566	X	-6135204.500	VX	528.5923309
75 LTDM	4.639943480			FPVI	.0028896332	Y	636899.3281	VY	5257.278869
LONM	174.0733165			AZVI	267.7475738	Z	500607.7265	VZ	-207.1206092
A	6188471.875	ASND	290.0034294	VVEN	-27961142.00	APOG	80.12229824	VAPG	5287.184204
ECC	.12207031-03	ARGP	28.80997467	ARGL	115.8388442	PERG	79.87364959	VPER	5288.475158
INCL	174.8433132	MA	87.00976181	TA	87.02886962	PERD	122.5559997	MOON	ELLIPSE
LTDE	-3.579326301	LONE	-1.225926652	LTDS	-1.413866102	LONS	82.38323211		
WT	35799.86279	ATLI	89.99711132	VA	5304.248657	AAAP	.88283523-05	VIR	.2664813995
DVV	4.520063996	AMIS	267.7475738	FPVA	.0028800964	AAAY	-.0069698657	VIT	5287.843505
RANG	2586.647796	RLAT	.36165994-06	AZVA	267.7545471	AAAT	.0069698713	VAT	-5304.248657

PRIMARY PHASE CUTOFF ---- PHASE TIME LAPSE .00000000 00

BEGIN SM ENGINE FIFTH BURN

7 FEB. 1968 2 HR 23 MIN 21.94 SEC TMST 343738.9687 J.D. 2439893.5995 3 DAY 23 HR 29.0 MIN

SELENOGRAPHIC

ALT	486060.8750	R	6188455.625	VI	5287.843566	X	-6135204.500	VX	528.5923309
76 LTDM	4.639943480			FPVI	.0028896332	Y	636899.3281	VY	5257.278869
LONM	174.0733165			AZVI	267.7475738	Z	500607.7265	VZ	-207.1206092
A	6188471.875	ASND	290.0034294	VVEN	-27961139.50	APOG	80.12229824	VAPG	5287.184204
ECC	.12207031-03	ARGP	28.80997467	ARGL	115.8388442	PERG	79.87364959	VPER	5288.475158

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INCL	174.8433132	MA	87.00976181	TA	87.02886962	PERD	122.5559997	MOON	ELLIPSE
LTDE	-3.579326301	LONE	-1.225926652	LTCS	-1.413866102	LCNS	82.38323211		
WT	35799.86279	ATLI	93.62928295	VA	5304.248657	AAAP	-3.630369961	VIR	.2664813995
DVV	20.12066864	AMIS	268.8244857	FPVA	.0028800964	AAAY	1.065556749	VIT	5287.843505
RANG	2586.647796	RLAT	.0681769494	AZVA	267.7545471	AAAT	3.783516496	VAT	-5304.248657
F	21500.00000	DWT	-68.25396823			VISN	.00000000 00	DVI	19.32244801

7 FEB. 1968 2 HR 23 MIN 22.97 SEC TMST 343740.0000 J.D. 2439893.5995 3 DAY 23 HR 29.0 MIN

SELENOGRAPHIC

	ALT	486060.5000	R	6188455.187	VI	5307.746765	X	-6134655.312	VX	536.4871292
76	LTDM	4.637955546			FPVI	-.0104866028	Y	642330.7968	VY	5276.465759
	LONM	174.0226078			AZVI	267.7475090	Z	500393.6835	VZ	-208.0070018
	A	6235499.937	ASND	289.9630088	VVEN	-27750256.75	APOG	95.48393249	VAPG	5228.237976
	ECC	.0075481514	ARGP	117.2494964	ARGL	115.8491697	PERG	79.99164295	VPER	5307.765319
	INCL	174.8450736	MA	358.6206817	TA	358.5996704	PERD	123.9556608	MOON	ELLIPSE
	LTDE	-3.579340010	LONE	-1.225784987	LTCS	-1.413865819	LCNS	82.38324356		
	WT	35729.47558	ATLI	93.57870960	VA	5324.151977	AAAP	-3.566579431	VIR	-.9715747833
	DVV	20.15394139	AMIS	268.8203239	FPVA	-.0104541778	AAAY	1.061622589	VIT	5307.746643
	RANG	2587.476074	RLAT	.0672262991	AZVA	267.7544555	AAAT	3.721227109	VAT	-5324.151855
	F	21500.00000	DWT	-68.25396823			VISN	19.94588923	DVI	19.36051344

7 FEB. 1968 2 HR 23 MIN 26.97 SEC TMST 343744.0000 J.D. 2439893.5996 3 DAY 23 HR 29.1 MIN

SELENOGRAPHIC

2"	ALT	486047.6875	R	6188442.437	VI	5385.342590	X	-6132432.187	VX	567.2947845
76	LTDM	4.630172491			FPVI	-.0563201904	Y	663732.7265	VY	5351.203552
	LONM	173.8227367			AZVI	267.7469177	Z	499554.7539	VZ	-211.4531631
	A	6427661.750	ASND	289.8068618	VVEN	-26920633.75	APOG	158.7480392	VAPG	4998.805175
	ECC	.0372304446	ARGP	117.4623222	ARGL	115.8930234	PERG	79.97907352	VPER	5385.414184
1"	INCL	174.8518104	MA	358.5443496	TA	358.4306983	PERD	129.7295646	MOON	ELLIPSE

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LTDE	-3.579393684	LONE	-1.226609513	LTCS	-1.413865312	LCNS	82.38191986		
WT	35456.45996	ATLI	93.38074207	VA	5401.747863	AAAP	-3.323323190	VIR	-5.293787956
DVV	20.28427600	AMIS	268.8040618	FPVA	-.0561494827	AAAY	1.046552658	VIT	5385.339965
RANG	2590.740966	RLAT	.0635395115	AZVA	267.7537651	AAAT	3.484214335	VAT	-5401.745239
F	21500.00000	DWT	-68.25396823			VISN	97.68533420	DVI	19.50958991

7 FEB. 1968 2 HR 23 MIN 30.97 SEC TMST 343748.0000 J.D. 2439893.5996 3 DAY 23 HR 29.1 MIN

SELENOGRAPHIC

ALT	486019.1875	R	6188413.875	VI	5463.570678	X	-6130101.437	VX	598.0683746
76 LTDM	4.622272968			FPVI	-.0926809311	Y	685287.9140	VY	5426.484252
LONM	173.6213493			AZVI	267.7457962	Z	498702.0195	VZ	-214.9122066
A	6636828.250	ASND	289.6552009	VVEN	-26072201.75	APOG	227.6088352	VAPG	4771.914550
ECC	.0675841374	ARGP	117.4070472	ARGL	115.9428596	PERG	79.96703815	VPER	5463.678161
INCL	174.8584213	MA	358.7240982	TA	358.5358123	PERD	136.1132202	MOON	ELLIPSE
LTDE	-3.579447209	LONE	-1.226062342	LTCS	-1.413865119	LCNS	82.38196754		
WT	35183.44384	ATLI	93.17988872	VA	5479.976074	AAAP	-3.086551934	VIR	-8.837945461
DVV	20.41668057	AMIS	268.7876091	FPVA	-.0924034118	AAAY	1.031777784	VIT	5463.563537
RANG	2594.030578	RLAT	.0598541628	AZVA	267.7525482	AAAT	3.254438221	VAT	-5479.968933
F	21500.00000	DWT	-68.25396823			VISN	176.0256938	DVI	19.66097998

7 FEB. 1968 2 HR 23 MIN 34.97 SEC TMST 343752.0000 J.D. 2439893.5997 3 DAY 23 HR 29.2 MIN

SELENOGRAPHIC

ALT	485978.0625	R	6188372.812	VI	5542.435485	X	-6127647.500	VX	628.9354553
76 LTDM	4.614253997			FPVI	-.1197500229	Y	707145.3046	VY	5502.303161
LONM	173.4170455			AZVI	267.7441520	Z	497835.4140	VZ	-218.3843364
A	6865287.312	ASND	289.5065689	VVEN	-25204586.25	APOG	302.8181762	VAPG	4547.464294
ECC	.0586216320	ARGP	117.3327217	ARGL	115.9986200	PERG	79.95676231	VPER	5542.558837
INCL	174.8649044	MA	358.9107322	TA	358.6658973	PERD	143.2014846	MOON	ELLIPSE
LTDE	-3.579500734	LONE	-1.225516155	LTCS	-1.413864359	LCNS	82.38201427		

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WT	34910.42822	ATLI	92.97612285	VA	5558.840942	AAAP	-2.856070756	VIR	-11.58404421
DVV	20.55120420	AMIS	268.7709617	FPVA	-.1193971634	AAAY	1.017289713	VIT	5542.423339
RANG	2597.367980	RLAT	.0561700466	AZVA	267.7508163	AAAT	3.031834185	VAT	-5558.828857
F	21500.00000	DWT	-68.25396823			VISN	254.9763317	DVI	19.81473803

7 FEB. 1968 2 HR 23 MIN 38.97 SEC TMST 343756.0000 J.D. 2439893.5997 3 DAY 23 HR 29.3 MIN

SELENOGRAPHIC

	ALT	485927.6250	R	6188322.375	VI	5621.942687	X	-6125043.687	VX	660.0979919
76	LTDM	4.606112718			FPVI	-.1377010345	Y	729527.4218	VY	5578.645385
	LONM	173.2077445			AZVI	267.7420005	Z	496954.8867	VZ	-221.8698101
	A	7115759.625	ASND	289.3588180	VVEN	-24317394.00	APOG	385.2721443	VAPG	4325.347045
	ECC	.1303576063	ARGP	117.2543487	ARGL	116.0602483	PERG	79.94766902	VPER	5622.068237
	INCL	174.8712692	MA	359.0891304	TA	358.8058967	PERD	151.1093521	MOON	ELLIPSE
	LTDE	-3.579553961	LONE	-1.227029040	LTCS	-1.413864776	LCNS	82.38000011		
	WT	34637.41210	ATLI	92.76942443	VA	5638.348144	AAAP	-2.631693005	VIR	-13.51149749
	DVV	20.68790030	AMIS	268.7541160	FPVA	-.1373004913	AAAY	1.003080248	VIT	5621.926452
	RANG	2600.786865	RLAT	.0524876853	AZVA	267.7485733	AAAT	2.816376745	VAT	-5638.331970
	F	21500.00000	DWT	-68.25396823			VISN	334.5468292	DVI	19.97092008

7 FEB. 1968 2 HR 23 MIN 42.97 SEC TMST 343760.0000 J.D. 2439893.5998 3 DAY 23 HR 29.3 MIN

SELENOGRAPHIC

	ALT	485871.1250	R	6188265.812	VI	5702.097473	X	-6122341.187	VX	691.1587371
76	LTDM	4.597846210			FPVI	-.1466970444	Y	751995.6562	VY	5655.565795
	LONM	172.9975376			AZVI	267.7393417	Z	496060.4023	VZ	-225.3687629
2"	A	7391500.750	ASND	289.2159843	VVEN	-23410228.50	APOG	476.0419654	VAPG	4105.464599
	ECC	.1628059223	ARGP	117.1754760	ARGL	116.1276779	PERG	79.94017124	VPER	5702.212524
	INCL	174.8775177	MA	359.2556571	TA	358.9522018	PERD	159.9773063	MOON	ELLIPSE
	LTDE	-3.579607695	LONE	-1.226482793	LTCS	-1.413863837	LCNS	82.38004684		
1"	WT	34364.39648	ATLI	92.55976676	VA	5718.502929	AAAP	-2.413238227	VIR	-14.59943461

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DVV	20.82682204	AMIS	268.7370796	FPVA	-.1462764740	AAAY	.9891417846	VIT	5702.078796
RANG	2604.220672	RLAT	.0488061541	AZVA	267.7458305	AAAT	2.608087450	VAT	-5718.484313
F	21500.00000	DWT	-68.25396823			VISN	414.7470016	DVI	20.12958335

7 FEB. 1968 2 HR 23 MIN 46.97 SEC TMST 343764.0000 J.D. 2439893.5998 3 DAY 23 HR 29.4 MIN

SELENOGRAPHIC

ALT	485811.9375	R	6188206.687	VI	5782.905883	X	-6119514.250	VX	722.3169708
76 LTDM	4.589451611			FPVI	-.1468963623	Y	774772.6718	VY	5733.050842
LONM	172.7843475			AZVI	267.7361907	Z	495151.9101	VZ	-228.8814468
A	7696446.062	ASND	289.0759353	VVEN	-22482679.00	APOG	576.4234085	VAPG	3887.717254
ECC	.1959819011	ARGP	117.0973205	ARGL	116.2008562	PERG	79.93379306	VPER	5783.003417
INCL	174.8836593	MA	359.4090118	TA	359.1035346	PERD	169.9788112	MOON	ELLIPSE
LTDE	-3.579661488	LONE	-1.225935235	LTCS	-1.413863852	LCNS	82.38009357		
WT	34091.38037	ATLI	92.34712600	VA	5799.311340	AAAP	-2.200533360	VIR	-14.82642555
DVV	20.96802616	AMIS	268.7198486	FPVA	-.1464805603	AAAY	.9754665568	VIT	5782.886901
RANG	2607.703155	RLAT	.0451258304	AZVA	267.7425994	AAAT	2.407048404	VAT	-5799.292419
F	21500.00000	DWT	-68.25396823			VISN	495.5868873	DVI	20.29078865

7 FEB. 1968 2 HR 23 MIN 50.97 SEC TMST 343768.0000 J.D. 2439893.5999 3 DAY 23 HR 29.5 MIN

SELENOGRAPHIC

ALT	485753.6250	R	6188148.312	VI	5864.374145	X	-6116543.312	VX	753.7133712
76 LTDM	4.580925166			FPVI	-.1384449005	Y	798007.5546	VY	5811.091735
LONM	172.5667705			AZVI	267.7325553	Z	494229.3085	VZ	-232.4081592
A	8035392.187	ASND	288.9372215	VVEN	-21534322.00	APOG	687.9952163	VAPG	3672.011566
ECC	.2299005482	ARGP	117.0204048	ARGL	116.2797431	PERG	79.92872238	VPER	5864.449096
INCL	174.8896923	MA	359.5486488	TA	359.2593383	PERD	181.3301639	MOON	ELLIPSE
LTDE	-3.579714477	LONE	-1.226763337	LTCS	-1.413864225	LCNS	82.37876605		
WT	33818.36474	ATLI	92.13147830	VA	5880.779663	AAAP	-1.993412509	VIR	-14.17036414
DVV	21.11156988	AMIS	268.7024230	FPVA	-.1380596161	AAAY	.9620471969	VIT	5864.356994

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	RANG	2611.257263	RLAT	.0414465125	AZVA	267.7388839	AAAT	2.213420033	VAT	-5880.762573
	F	21500.00000	DWT	-68.25396823			VISN	577.0767745	DVI	20.45459604

7 FEB. 1968 2 HR 23 MIN 54.97 SEC TMST 343772.0000 J.D. 2439893.5999 3 DAY 23 HR 29.5 MIN

SELENOGRAPHIC

	ALT	485699.8125	R	6188094.500	VI	5946.508789	X	-6113465.812	VX	785.0724029
76	LTDM	4.572264432			FPVI	-.1214885711	Y	821409.0078	VY	5889.733215
	LONM	172.3475303			AZVI	267.7284431	Z	493292.6054	VZ	-235.9489936
	A	8414249.125	ASND	288.8025054	VVEN	-20564725.00	APOG	812.7027740	VAPG	3458.256347
	ECC	.2645775676	ARGP	116.9449539	ARGL	116.3642759	PERG	79.92484474	VPER	5946.559692
	INCL	174.8956260	MA	359.6743240	TA	359.4193191	PERD	194.3043384	MOON	ELLIPSE
	LTDE	-3.579768091	LONE	-1.226215884	LTDS	-1.413863897	LONS	82.37881374		
	WT	33545.34863	ATLI	91.91279792	VA	5962.914245	AAAP	-1.791715219	VIR	-12.60893797
	DVV	21.25751328	AMIS	268.6847991	FPVA	-.1211538315	AAAY	.9488769620	VIT	5946.495422
	RANG	2614.838684	RLAT	.0377681418	AZVA	267.7346954	AAAT	2.027464151	VAT	-5962.900878
	F	21500.00000	DWT	-68.25396823			VISN	659.2272109	DVI	20.62107038

7 FEB. 1968 2 HR 23 MIN 58.97 SEC TMST 343776.0000 J.D. 2439893.6000 3 DAY 23 HR 29.6 MIN

SELENOGRAPHIC

	ALT	485654.0000	R	6188048.750	VI	6029.317077	X	-6110232.312	VX	816.7473678
76	LTDM	4.563465416			FPVI	-.0961589813	Y	845345.7343	VY	5968.938476
	LONM	172.1231727			AZVI	267.7238578	Z	492341.6757	VZ	-239.5042419
	A	8840383.000	ASND	288.6682968	VVEN	-19573441.50	APOG	952.9707489	VAPG	3246.363006
2"	ECC	.3000290878	ARGP	116.8710823	ARGL	116.4544153	PERG	79.92210865	VPER	6029.345458
	INCL	174.9014625	MA	359.7859840	TA	359.5833320	PERD	209.2502899	MOON	ELLIPSE
	LTDE	-3.579821974	LONE	-1.227728024	LTDS	-1.413863331	LONS	82.37680149		
	WT	33272.3330	ATLI	91.69106101	VA	6045.722595	AAAP	-1.595288351	VIR	-10.11908292
1"	DVV	21.40591883	AMIS	268.6669769	FPVA	-.0958986282	AAAY	.9359484836	VIT	6029.308532
	RANG	2618.503570	RLAT	.0340905902	AZVA	267.7300376	AAAT	1.849579542	VAT	-6045.714111

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F	21500.00000	DWT	-68.25396823			VISN	742.0489807	DVI	20.79027605

7 FEB. 1968 2 HR 24 MIN 2.97 SEC TMST 343780.0000 J.D. 2439893.6000 3 DAY 23 HR 29.7 MIN

SELENOGRAPHIC

	ALT	485620.1250	R	6188014.875	VI	6112.806274	X	-6106902.187	VX	848.3135910
76	LTDM	4.554525613			FPVI	-.0625848770	Y	869380.9687	VY	6048.775085
	LONM	171.8977909			AZVI	267.7188110	Z	491376.5234	VZ	-243.0741233
	A	9323093.250	ASND	288.5386352	VVEN	-18560012.00	APOG	1111.860351	VAPG	3036.245513
	ECC	.3362717964	ARGP	116.7988204	ARGL	116.5501146	PERG	79.92029762	VPER	6112.817382
	INCL	174.9072017	MA	359.8836593	TA	359.7512931	PERD	226.6206512	MOON	ELLIPSE
	LTDE	-3.579875171	LONE	-1.227179661	LTCS	-1.413863495	LCNS	82.37685012		
	WT	32999.31689	ATLI	91.46624279	VA	6129.211853	AAAP	-1.403984040	VIR	-6.677273750
	DVV	21.55685138	AMIS	268.6489639	FPVA	-.0624179840	AAAY	.9232554734	VIT	6112.802612
	RANG	2622.185241	RLAT	.0304138015	AZVA	267.7249221	AAAT	1.680348724	VAT	-6129.208129
	F	21500.00000	DWT	-68.25396823			VISN	825.5531539	DVI	20.96228218

7 FEB. 1968 2 HR 24 MIN 6.97 SEC TMST 343784.0000 J.D. 2439893.6001 3 DAY 23 HR 29.7 MIN

SELENOGRAPHIC

	ALT	485601.8750	R	6187996.562	VI	6196.984008	X	-6103445.625	VX	879.9840698
76	LTDM	4.545441448			FPVI	-.0208902359	Y	893736.7343	VY	6129.224975
	LONM	171.6692962			AZVI	267.7133102	Z	490397.0664	VZ	-246.6588935
	A	9874289.125	ASND	288.4113998	VVEN	-17523967.00	APOG	1293.291549	VAPG	2827.821746
	ECC	.3733225092	ARGP	116.7281875	ARGL	116.6513347	PERG	79.91944408	VPER	6196.985351
	INCL	174.9128551	MA	359.9674606	TA	359.9231452	PERD	247.0120868	MOON	ELLIPSE
2"	LTDE	-3.579928725	LONE	-1.226633474	LTCS	-1.413862898	LCNS	82.37689685		
	WT	32726.30126	ATLI	91.23831748	VA	6213.389709	AAAP	-1.217659845	VIR	-2.259580135
	DVV	21.71037721	AMIS	268.6307487	FPVA	-.0208349228	AAAY	.9107914269	VIT	6196.983520
	RANG	2625.917877	RLAT	.0267377542	AZVA	267.7193527	AAAT	1.520603999	VAT	-6213.389282
1"	F	21500.00000	DWT	-68.25396823			VISN	909.7510681	DVI	21.13715767

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7 FEB. 1968 2 HR 24 MIN 10.97 SEC TMST 343788.0000 J.D. 2439893.6001 3 DAY 23 HR 29.8 MIN

SELENCGRAPHIC

	ALT	485603.3750	R	6187998.062	VI	6281.858459	X	-6099851.125	VX	911.8346710
76	LTDM	4.536208748			FPVI	.C288114548	Y	918488.7421	VY	6210.287841
	LONM	171.4369812			AZVI	267.7073593	Z	489403.1640	VZ	-250.2588481
	A	1C509482.5C	ASND	288.2858467	VVEN	-16464817.50	APOG	15C2.370239	VAPG	2621.010192
	ECC	.4111988619	ARGP	116.6591730	ARGL	116.7580480	PERG	79.91953659	VPER	6281.860534
	INCL	174.9184226	MA	.037604827S	TA	.C988745820	PERD	271.2260742	MOON	ELLIPSE
	LTDE	-3.579982101	LONE	-1.226773783	LTCS	-1.413862973	LCNS	82.37625694		
	WT	32453.28540	ATLI	91.00726032	VA	6298.264343	AAAP	-1.036179244	VIR	3.158724069
	DVV	21.86656522	AMIS	268.612339C	FPVA	.0287361145	AAAY	.8985499739	VIT	6281.857666
	RANG	2629.712799	RLAT	.C230620301	AZVA	267.7133369	AAAT	1.371517211	VAT	-6298.263549
	F	21500.00000	DWT	-68.25396823			VISN	994.6543426	DVI	21.31497550

7 FEB. 1968 2 HR 24 MIN 14.97 SEC TMST 343792.0000 J.D. 2439893.6002 3 DAY 23 HR 29.9 MIN

SELENCGRAPHIC

	ALT	485628.5000	R	6188023.25C	VI	6367.438232	X	-6096140.C00	VX	943.7188415
76	LTDM	4.526825368			FPVI	.C864086151	Y	943493.1C93	VY	6291.995910
	LONM	171.2021942			AZVI	267.70C9696	Z	488394.9101	VZ	-253.8741054
	A	11249249.75	ASND	288.163272E	VVEN	-15382067.00	APOG	1745.869461	VAPG	2415.732971
	ECC	.4499188475	ARGP	116.5917348	ARGL	116.8701944	PERG	79.92034912	VPER	6367.454528
	INCL	174.9239082	MA	.0943476669	TA	.2784593664	PERD	30C.3618545	MOON	ELLIPSE
	LTDE	-3.580035835	LCNE	-1.226226896	LTCS	-1.413862630	LCNS	82.37630367		
2"	WT	32180.26953	ATLI	90.7730484C	VA	6383.844238	AAAP	-.8594106659	VIR	9.602712392
	DVV	22.02548885	AMIS	268.5937309	FPVA	.C861864090	AAAY	.8865250051	VIT	6367.430969
	RANG	2633.548156	RLAT	.019387115S	AZVA	267.7068786	AAAT	1.234711810	VAT	-6383.836975
	F	21500.00000	DWT	-68.25396823			VISN	1080.274887	DVI	21.49581098

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7 FEB. 1968 2 HR 24 MIN 18.97 SEC TMST 343796.0000 J.D. 2439893.6002 3 DAY 23 HR 29.9 MIN

SELENOGRAPHIC

	ALT	485681.5625	R	6188076.250	VI	6453.732055	X	-6092301.187	VX	975.7114334
76	LTDM	4.517287075			FPVI	.1517972946	Y	968825.5625	VY	6374.349914
	LONM	170.9642219			AZVI	267.6941413	Z	487372.1406	VZ	-257.5049858
	A	12121491.12	ASND	288.0429420	VVEN	-14275199.50	APOG	2032.972854	VAPG	2211.913940
	ECC	.4895009398	ARGP	116.5258560	ARGL	116.9877576	PERG	79.92193317	VPER	6453.778503
	INCL	174.9293136	MA	.1380460575	TA	.4619010091	PERD	335.9645996	MOON	ELLIPSE
	LTDE	-3.580089241	LONE	-1.225679785	LTCS	-1.413862004	LONS	82.37635135		
	WT	31907.25366	ATLI	90.53565406	VA	6470.138305	AAAP	-.6872282699	VIR	17.09811949
	DVV	22.18722152	AMIS	268.5749282	FPVA	.1514129638	AAAY	.8747106865	VIT	6453.709350
	RANG	2637.435607	RLAT	.0157124107	AZVA	267.6999931	AAAT	1.112385481	VAT	-6470.115661
	F	21500.00000	DWT	-68.25396823			VISN	1166.624954	DVI	21.67974090

7 FEB. 1968 2 HR 24 MIN 22.97 SEC TMST 343800.0000 J.D. 2439893.6003 3 DAY 23 HR 30.0 MIN

SELENOGRAPHIC

	ALT	485766.6875	R	6188161.500	VI	6540.749328	X	-6088298.500	VX	1008.045913
76	LTDM	4.507590293			FPVI	.2248783111	Y	994707.5625	VY	6457.324951
	LONM	170.7209835			AZVI	267.6868858	Z	486334.8164	VZ	-261.1518096
	A	13165007.12	ASND	287.9227371	VVEN	-13143685.50	APOG	2376.451843	VAPG	2009.478729
	ECC	.5299642756	ARGP	116.4615001	ARGL	117.1107044	PERG	79.92420673	VPER	6540.844543
	INCL	174.9346408	MA	.1691387966	TA	.6492039412	PERD	380.2691459	MOON	ELLIPSE
	LTDE	-3.580142617	LONE	-1.227191045	LTCS	-1.413861706	LONS	82.37434005		
	WT	31634.23779	ATLI	90.29505348	VA	6557.155883	AAAP	-.5195106864	VIR	25.67132472
2"	DVV	22.35184097	AMIS	268.5559272	FPVA	.2243156433	AAAY	.8631017282	VIT	6540.698913
	RANG	2641.408996	RLAT	.0120382933	AZVA	267.6926765	AAAT	1.007390663	VAT	-6557.105590
	F	21500.00000	DWT	-68.25396823			VISN	1253.717056	DVI	21.86684560

1" 7 FEB. 1968 2 HR 24 MIN 26.97 SEC TMST 343804.0000 J.D. 2439893.6003 3 DAY 23 HR 30.1 MIN

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864401

SELENCGRAPHIC

	ALT	485888.4375	R	6188283.187	VI	6628.499633	X	-6084201.937	VX	1040.262680
76	LTDM	4.497731924			FPVI	.3055562973	Y	1020703.992	VY	6541.004150
	LONM	170.4765682			AZVI	267.6792068	Z	485282.8984	VZ	-264.8147239
	A	14435387.75	ASND	287.8067169	VVEN	-11986980.00	APOG	2794.604553	VAPG	1808.355560
	ECC	.5713283792	ARGP	116.3986186	ARGL	117.2389936	PERG	79.92707633	VPER	6628.664672
	INCL	174.9398994	MA	.188164468E	TA	.8403741941	PERD	436.6184883	MOON	ELLIPSE
	LTDE	-3.580196350	LONE	-1.226644456	LTCS	-1.413861349	LCNS	82.37438678		
	WT	31361.22167	ATLI	90.05122184	VA	6644.906555	AAAP	-.3561410121	VIR	35.34918642
	DVV	22.51942777	AMIS	268.5367279	FPVA	.3048019409	AAAY	.8516920581	VIT	6628.405334
	RANG	2645.401702	RLAT	.0083643818	AZVA	267.6849403	AAAT	.9231553376	VAT	-6644.812500
	F	21500.00000	CWT	-68.25396823			VISN	1341.564056	DVI	22.05720806

7 FEB. 1968 2 HR 24 MIN 30.97 SEC TMST 343808.0000 J.D. 2439893.6003 3 DAY 23 HR 30.1 MIN

SELENCGRAPHIC

	ALT	486051.0625	R	6188445.875	VI	6716.993164	X	-6079951.187	VX	1072.751281
76	LTDM	4.487707555			FPVI	.3937406540	Y	1047182.359	VY	6625.338745
	LONM	170.2275199			AZVI	267.6711082	Z	484216.2656	VZ	-268.4940643
	A	16015213.87	ASND	287.6913948	VVEN	-10804521.00	APOG	3314.613128	VAPG	1608.473693
	ECC	.6136135682	ARGP	116.3371849	ARGL	117.3726062	PERG	79.93040943	VPER	6717.251770
	INCL	174.9450836	MA	.1957797892	TA	1.035420760	PERD	510.2212638	MOON	ELLIPSE
	LTDE	-3.580249607	LONE	-1.227470696	LTCS	-1.413861140	LCNS	82.37306022		
	WT	31088.20581	ATLI	89.80413436	VA	6733.400512	AAAP	-.1970054861	VIR	46.15912055
2"	DVV	22.69006490	AMIS	268.5173301	FPVA	.3927812576	AAAY	.8404765054	VIT	6716.834533
	RANG	2649.470001	RLAT	.0046903662	AZVA	267.6767883	AAAT	.8632565737	VAT	-6733.242248
	F	21500.00000	CWT	-68.25396823			VISN	1430.179168	DVI	22.25091409

7 FEB. 1968 2 HR 24 MIN 34.97 SEC TMST 343812.0000 J.D. 2439893.6004 3 DAY 23 HR 30.2 MIN

1" SELENCGRAPHIC

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	ALT	486259.1875	R	6188654.000	VI	6806.240234	X	-6075595.312	VX	1105.197219
76	LTDM	4.477514207			FPVI	.4893474579	Y	1073853.546	VY	6710.391845
	LONM	169.9765663			AZVI	267.6626014	Z	483134.9101	VZ	-272.1900787
	A	18032675.75	ASND	287.5794677	VVEN	-9595731.000	APOG	3978.672393	VAPG	1409.765121
	ECC	.6568404659	ARGP	116.2771472	ARGL	117.5115060	PERG	79.93423557	VPER	6806.618164
	INCL	174.9502010	MA	.1927842591	TA	1.234358221	PERD	609.6066513	MOON	ELLIPSE
	LTDE	-3.580303192	LONE	-1.226924493	LTDS	-1.413860663	LONS	82.37310600		
	WT	30815.18994	ATLI	89.55376529	VA	6822.648010	AAAP	-.0419983654	VIR	58.12936782
	DVV	22.86383938	AMIS	268.4977378	FPVA	.4881706238	AAAY	.8294500038	VIT	6805.991943
	RANG	2653.569549	RLAT	.0010166604	AZVA	267.6682281	AAAT	.8305125907	VAT	-6822.400329
	F	21500.00000	DWT	-68.25396823			VISN	1519.575942	DVI	22.44805240

7 FEB. 1968 2 HR 24 MIN 38.97 SEC TMST 343816.0000 J.D. 2439893.6004 3 DAY 23 HR 30.3 MIN

SELENOGRAPHIC

	ALT	486517.6250	R	6188912.437	VI	6896.252014	X	-6071109.437	VX	1137.758972
76	LTDM	4.467147529			FPVI	.5922966003	Y	1100866.390	VY	6796.151428
	LONM	169.7223014			AZVI	267.6536903	Z	482038.7148	VZ	-275.9030647
	A	20698144.25	ASND	287.4695091	VVEN	-8360010.500	APOG	4856.027648	VAPG	1212.162063
	ECC	.7010306939	ARGP	116.2184753	ARGL	117.6556777	PERG	79.93839168	VPER	6896.777770
	INCL	174.9552555	MA	.1801520176	TA	1.437201797	PERD	749.6465682	MOON	ELLIPSE
	LTDE	-3.580356776	LONE	-1.226377323	LTDS	-1.413860037	LONS	82.37315368		
	WT	30542.17407	ATLI	89.30009078	VA	6912.660339	AAAP	.1089853998	VIR	71.28868484
	DVV	23.04084134	AMIS	268.4779472	FPVA	.5908899307	AAAY	.8186074793	VIT	6895.883483
	RANG	2657.723175	RLAT	-.0026572261	AZVA	267.6592636	AAAT	.8258305043	VAT	-6912.292663
	F	21500.00000	DWT	-68.25396823			VISN	1609.768280	DVI	22.64871478

7 FEB. 1968 2 HR 24 MIN 42.97 SEC TMST 343820.0000 J.D. 2439893.6005 3 DAY 23 HR 30.3 MIN

SELENOGRAPHIC

	ALT	486831.1250	R	6189225.937	VI	6987.039550	X	-6066452.500	VX	1170.685470

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76	LTDM	4.456603586			FPVI	.7025098800	Y	1128441.796	VY	6882.588439
	LONM	169.4626426			AZVI	267.6443748	Z	480927.6054	VZ	-279.6333465
	A	24382534.25	ASND	287.3594169	VVEN	-7096747.500	APOG	6068.768432	VAPG	1015.599624
	ECC	.7462061494	ARGP	116.1611318	ARGL	117.8050985	PERG	79.94290733	VPER	6987.743469
	INCL	174.9602470	MA	.1590807996	TA	1.643966496	PERD	958.4681930	MOON	ELLIPSE
	LTDE	-3.580410063	LONE	-1.227890282	LTCS	-1.413860231	LCNS	82.37114048		
	WT	30269.15820	ATLI	89.04308414	VA	7003.448486	AAAP	.2560455166	VIR	85.66648197
	DVV	23.22116470	AMIS	268.4579582	FPVA	.7008638382	AAAY	.8079440295	VIT	6986.514343
	RANG	2661.964813	RLAT	-.0063309159	AZVA	267.6498985	AAAT	.8475451916	VAT	-7002.924499
	F	21500.00000	DWT	-68.25396823			VISN	1700.770492	DVI	22.85299730

7 FEB. 1968 2 HR 24 MIN 46.97 SEC TMST 343824.0000 J.D. 2439893.6005 3 DAY 23 HR 30.4 MIN

SELENOGRAPHIC

	ALT	487204.6875	R	6189599.500	VI	7078.614990	X	-6061704.250	VX	1203.486480
76	LTDM	4.445879280			FPVI	.8199157715	Y	1156146.359	VY	6969.799621
	LONM	169.2016887			AZVI	267.6346702	Z	479801.5976	VZ	-283.3811454
	A	29806652.00	ASND	287.2532577	VVEN	-5805304.500	APOG	7854.153686	VAPG	820.0129623
	ECC	.7923897728	ARGP	116.1050643	ARGL	117.9597358	PERG	79.94759750	VPER	7079.529968
	INCL	174.9651794	MA	.1310662068	TA	1.854670539	PERD	1295.475616	MOON	ELLIPSE
	LTDE	-3.580463707	LONE	-1.227342754	LTCS	-1.413859784	LCNS	82.37118721		
	WT	29996.14233	ATLI	88.78272151	VA	7095.024658	AAAP	.3992770836	VIR	101.2929210
	DVV	23.40490627	AMIS	268.4377746	FPVA	.8180189132	AAAY	.7974552437	VIT	7077.890197
	RANG	2666.227722	RLAT	-.0100048631	AZVA	267.6401443	AAAT	.8918279260	VAT	-7094.301513
2"	F	21500.00000	DWT	-68.25396823			VISN	1792.597229	DVI	23.06099843

7 FEB. 1968 2 HR 24 MIN 50.97 SEC TMST 343828.0000 J.D. 2439893.6006 3 DAY 23 HR 30.5 MIN

SELENOGRAPHIC

	ALT	487643.1875	R	6190037.937	VI	7170.990478	X	-6056796.000	VX	1236.577301
1" 76	LTDM	4.434970319			FPVI	.9444427490	Y	1184346.468	VY	7057.728271

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LONM	168.9359798			AZVI	267.6245727	Z	478660.5546	VZ	-287.1468849
A	38580936.00	ASND	287.1475563	VVEN	-4485030.000	APOG	10742.27185	VAPG	625.3399124
ECC	.8396048397	ARGP	116.0502519	ARGL	118.1195793	PERG	79.95247268	VPER	7172.151062
INCL	174.9700527	MA	.0980257131	TA	2.069327354	PERD	1907.737365	MOON	ELLIPSE
LTDE	-3.580517292	LONE	-1.228170439	LTCS	-1.413860052	LCNS	82.36985969		
WT	29723.12646	ATLI	88.51897907	VA	7187.400817	AAAP	.5387740433	VIR	118.1985082
DVV	23.59216737	AMIS	268.4173965	FPVA	.9422864914	AAAY	.7871360257	VIT	7170.016235
RANG	2670.568237	RLAT	-.0136790881	AZVA	267.6300010	AAAT	.9538661241	VAT	-7186.428833
F	21500.00000	DWT	-68.25396823			VISN	1885.263565	DVI	23.27282047

7 FEB. 1968 2 HR 24 MIN 54.97 SEC TMST 343832.0000 J.D. 2439893.6006 3 DAY 23 HR 30.5 MIN

SELENOGRAPHIC

	ALT	488151.9375	R	6190546.687	VI	7264.178710	X	-6051783.625	VX	1269.622940
76	LTDM	4.423872530			FPVI	1.076028823	Y	1212754.546	VY	7146.447387
	LONM	168.6682376			AZVI	267.6140899	Z	477504.4101	VZ	-290.9306602
	A	55190739.00	ASND	287.0450057	VVEN	-3135247.000	APOG	16209.51110	VAPG	431.5184135
	ECC	.8878756538	ARGP	115.9966363	ARGL	118.2845954	PERG	79.95743083	VPER	7265.621887
	INCL	174.9748725	MA	.0625345437	TA	2.287958800	PERD	3264.064697	MOON	ELLIPSE
	LTDE	-3.580571234	LONE	-1.227623447	LTCS	-1.413860008	LCNS	82.36990642		
	WT	29450.11059	ATLI	88.25183200	VA	7280.589843	AAAP	.6746236458	VIR	136.4148597
	DVV	23.78305363	AMIS	268.3968200	FPVA	1.073603630	AAAY	.7769823521	VIT	7262.897644
	RANG	2674.942077	RLAT	-.0173536469	AZVA	267.6194763	AAAT	1.028989136	VAT	-7279.311706
	F	21500.00000	DWT	-68.25396823			VISN	1978.785018	DVI	23.48856997

7 FEB. 1968 2 HR 24 MIN 58.97 SEC TMST 343836.0000 J.D. 2439893.6007 3 DAY 23 HR 30.6 MIN

SELENOGRAPHIC

	ALT	488736.3125	R	6191131.062	VI	7358.192932	X	-6046638.875	VX	1302.792297
76	LTDM	4.412581801			FPVI	1.214610099	Y	1241519.093	VY	7235.942871
	LONM	168.3970661			AZVI	267.6032333	Z	476333.0820	VZ	-294.7329101

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A	98581724.00	ASND	286.9441947	VVEN	-1755259.500	APOG	30491.98168	VAPG	238.4880466
ECC	.9372271448	ARGP	115.9441928	ARGL	118.4547748	PERG	79.96249198	VPER	7359.957336
INCL	174.9796390	MA	.0283776282	TA	2.510581344	PERD	7792.091796	MOON	ELLIPSE
LTDE	-3.580624610	LONE	-1.227076321	LTCS	-1.413859382	LCNS	82.36995506		
WT	29177.09472	ATLI	87.98125553	VA	7374.604980	AAAP	.8069122359	VIR	155.9740390
DVV	23.97767400	AMIS	268.3760528	FPVA	1.211906433	AAAY	.7669898718	VIT	7356.539611
RANG	2679.371856	RLAT	-.0210288854	AZVA	267.6085700	AAAT	1.113274812	VAT	-7372.955322
F	21500.00000	DWT	-68.25396823			VISN	2073.177490	DVI	23.70835733

7 FEB. 1968 2 HR 25 MIN 2.97 SEC TMST 343840.0000 J.D. 2439893.6007 3 DAY 23 HR 30.7 MIN

SELENOGRAPHIC

	ALT	489401.6250	R	6191796.437	VI	7453.046997	X	-6041315.562	VX	1336.350341
76	LTDM	4.401093483			FPVI	1.360128402	Y	1270860.437	VY	7326.182067
	LONM	168.1203804			AZVI	267.5919990	Z	475146.4335	VZ	-298.5539169
	A	502503772.0	ASND	286.8430252	VVEN	-344347.0000	APOG	163446.0195	VAPG	46.18928480
	ECC	.9876850918	ARGP	115.8928833	ARGL	118.6300983	PERG	79.96768665	VPER	7455.172607
	INCL	174.9843540	MA	.0026542705	TA	2.737214654	PERD	89674.39160	MOON	ELLIPSE
	LTDE	-3.580677479	LONE	-1.228589981	LTCS	-1.413858547	LCNS	82.36794185		
	WT	28904.07885	ATLI	87.70722484	VA	7469.459960	AAAP	.9357207268	VIR	176.9089183
	DVV	24.17614269	AMIS	268.3550910	FPVA	1.357138633	AAAY	.7571543827	VIT	7450.947082
	RANG	2683.891601	RLAT	-.0247044978	AZVA	267.5972976	AAAT	1.203684359	VAT	-7467.364685
	F	21500.00000	DWT	-68.25396823			VISN	2168.457397	DVI	23.93229651

2" 7 FEB. 1968 2 HR 25 MIN 6.97 SEC TMST 343844.0000 J.D. 2439893.6008 3 DAY 23 HR 30.7 MIN

SELENOGRAPHIC

	ALT	490153.5000	R	6192548.312	VI	7548.754943	X	-6035903.312	VX	1369.775299
76	LTDM	4.389404833			FPVI	1.512525558	Y	1300347.078	VY	7417.275451
	LONM	167.8422775			AZVI	267.5803985	Z	473944.5351	VZ	-302.3940544
1"	A	-157559836.0	ASND	286.7455673	VVEN	1098230.500	APOG	.00000000 00	VAPG	.00000000 00

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ECC	1.039275959	ARGP	115.8426704	ARGL	118.8105468	PERG	79.97193431	VPER	7551.287475
INCL	174.9890213	MA	.016184409E	TA	2.967875540	PERD	.00000000 00	MOON	HYPERBOLA
LTDE	-3.580731004	LONE	-1.228042781	LTDS	-1.413858115	LONS	82.36798858		
WT	28631.06298	ATLI	87.42971706	VA	7565.168945	AAAP	1.061129644	VIR	199.2529048
DVV	24.37857818	AMIS	268.3339309	FPVA	1.509243011	AAAY	.7474716678	VIT	7546.124755
RANG	2688.434692	RLAT	-.0283807586	AZVA	267.5856552	AAAT	1.297963783	VAT	-7562.544494
F	21500.00000	DWT	-68.25396823			VISN	2264.641571	DVI	24.16050672

7 FEB. 1968 2 HR 25 MIN 10.97 SEC TMST 343848.0000 J.D. 2439893.6008 3 DAY 23 HR 30.8 MIN

SELENOGRAPHIC

ALT	490997.5625	R	6193392.437	VI	7645.331604	X	-6030357.187	VX	1403.328933
76 LTDM	4.377511143			FPVI	1.671751976	Y	1330199.718	VY	7509.192565
LONM	167.5606708			AZVI	267.5684318	Z	472727.2460	VZ	-306.2536697
A	-67244690.00	ASND	286.6497306	VVEN	2573241.500	APOG	.00000000 00	VAPG	.00000000 00
ECC	1.092027246	ARGP	115.7935256	ARGL	118.9961099	PERG	79.97688198	VPER	7648.312438
INCL	174.9936408	MA	.0618486297	TA	3.202583968	PERD	.00000000 00	MOON	HYPERBOLA
LTDE	-3.580784589	LONE	-1.227495670	LTDS	-1.413857907	LONS	82.36803627		
WT	28358.04711	ATLI	87.14870834	VA	7661.746704	AAAP	1.183213785	VIR	223.0403842
DVV	24.58510398	AMIS	268.3125839	FPVA	1.668169021	AAAY	.7379381358	VIT	7642.077453
RANG	2693.034881	RLAT	-.0320577584	AZVA	267.5736503	AAAT	1.394470348	VAT	-7658.499511
F	21500.00000	DWT	-68.25396823			VISN	2361.747314	DVI	24.39311051

7 FEB. 1968 2 HR 25 MIN 14.97 SEC TMST 343852.0000 J.D. 2439893.6009 3 DAY 23 HR 30.9 MIN

SELENOGRAPHIC

ALT	491939.7500	R	6194334.437	VI	7742.792297	X	-6024660.187	VX	1437.103973
76 LTDM	4.365407526			FPVI	1.837755203	Y	1360493.718	VY	7601.932861
LONM	167.2748584			AZVI	267.5561065	Z	471494.4218	VZ	-310.1331329
A	-42395643.00	ASND	286.5547943	VVEN	4081478.500	APOG	.00000000 00	VAPG	.00000000 00
ECC	1.145967111	ARGP	115.7454147	ARGL	119.1867742	PERG	79.98113060	VPER	7746.269042

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INCL	174.9982147	MA	.131093394C	TA	3.441359251	PERD	.00000000 00	MOON	HYPERBOLA
LTDE	-3.580837637	LONE	-1.227632939	LTDS	-1.413857907	LCNS	82.36739826		
WT	28C85.03125	ATLI	86.86417579	VA	7759.208618	AAAP	1.302046701	VIR	248.3063793
DVV	24.79584908	AMIS	268.2910423	FPVA	1.833866119	AAAY	.7285496369	VIT	7738.809753
RANG	2697.703826	RLAT	-.0357354842	AZVA	267.5612869	AAAT	1.492015466	VAT	-7755.234436
F	21500.00000	DWT	-68.25396823			VISN	2459.792480	DVI	24.63023757

7 FEB. 1968 2 HR 25 MIN 18.97 SEC TMST 343856.0000 J.D. 2439893.6009 3 DAY 23 HR 30.9 MIN

SELENCGRAPHIC

	ALT	492986.0000	R	6195380.75C	VI	7841.153015	X	-6018844.187	VX 1470.921447
76	LTDM	4.353090643			FPVI	2.010489463	Y	1391088.390	VY 7695.547729
	LONM	166.9861831			AZVI	267.5434265	Z	470246.0976	VZ -314.0327568
	A	-3076888C.0C	ASND	286.4620857	VVEN	5623761.000	APOG	.00000000 00	VAPG .00000000 00
	ECC	1.20112510C	ARGP	115.6982975	ARGL	119.3825187	PERG	79.98517322	VPER 7845.173400
	INCL	175.0027465	MA	.2241558414	TA	3.684220612	PERD	.00000000 00	MOON HYPERBCLA
	LTDE	-3.580891311	LONE	-1.227086335	LTDS	-1.413857474	LCNS	82.36744403	
	WT	27812.01538	ATLI	86.57609558	VA	7857.570495	AAAP	1.417697712	VIR 275.0867958
	DVV	25.01094722	AMIS	268.2693C99	FPVA	2.006286621	AAAY	.7193031385	VIT 7836.326171
	RANG	2702.419403	RLAT	-.0394140258	AZVA	267.5485687	AAAT	1.589737027	VAT -7852.753723
	F	21500.00000	DWT	-68.25396823			VISN	2558.795410	DVI 24.87201929

7 FEB. 1968 2 HR 25 MIN 22.97 SEC TMST 343860.0000 J.D. 2439893.6010 3 DAY 23 HR 31.0 MIN

SELENCGRAPHIC

	ALT	494142.5625	R	6196537.187	VI	7940.430114	X	-6012841.500	VX 1505.153076
76	LTDM	4.340555548			FPVI	2.189908027	Y	1422275.359	VY 7789.984008
	LONM	166.6918773			AZVI	267.5303993	Z	468982.0937	VZ -317.9529190
	A	-24C29768.5C	ASND	286.368824C	VVEN	72C0936.500	APOG	.00000000 00	VAPG .00000000 00
	ECC	1.257531210	ARGP	115.652153C	ARGL	119.5833387	PERG	79.98868083	VPER 7945.044189
	INCL	175.0072364	MA	.3422406725	TA	3.931185305	PERD	.00000000 00	MOON HYPERBOLA

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LTDE	-3.580944657	LONE	-1.228598460	LTCS	-1.413857236	LCNS	82.36543273		
WT	27538.99951	ATLI	86.28444290	VA	7956.848815	AAAP	1.530235663	VIR	303.4180374
DVV	25.23053765	AMIS	268.2473869	FPVA	2.185387611	AAAY	.7101942375	VIT	7934.630859
RANG	2707.226898	RLAT	-.0430935495	AZVA	267.5355072	AAAT	1.687008306	VAT	-7951.061584
F	21500.00000	DWT	-68.25396823			VISN	2658.775024	DVI	25.11859512

7 FEB. 1968 2 HR 25 MIN 26.97 SEC TMST 343864.0000 J.D. 2439893.6010 3 DAY 23 HR 31.1 MIN

SELENOGRAPHIC

ALT	495415.5000	R	6197810.187	VI	8040.640686	X	-6006752.750	VX	1539.244049
76 LTDM	4.327798366			FPVI	2.375970840	Y	1453625.750	VY	7885.367187
LONM	166.3960380			AZVI	267.5170288	Z	467702.4140	VZ	-321.8939743
A	-19632308.00	ASND	286.2790870	VVEN	8813880.000	APOG	.00000000 00	VAPG	.00000000 00
ECC	1.315216854	ARGP	115.6069374	ARGL	119.7892122	PERG	79.99179744	VPER	8045.899597
INCL	175.0116863	MA	.4869333468	TA	4.182274401	PERD	.00000000 00	MOON	HYPERBOLA
LTDE	-3.580998182	LONE	-1.228051275	LTCS	-1.413856893	LCNS	82.36548042		
WT	27265.98364	ATLI	85.98919866	VA	8057.060852	AAAP	1.639723643	VIR	333.3376960
DVV	25.45476675	AMIS	268.2252769	FPVA	2.371126174	AAAY	.7012199983	VIT	8033.728149
RANG	2712.059509	RLAT	-.0467740367	AZVA	267.5220985	AAAT	1.783368453	VAT	-8050.162414
F	21500.00000	DWT	-68.25396823			VISN	2759.750762	DVI	25.37010931

7 FEB. 1968 2 HR 25 MIN 30.97 SEC TMST 343868.0000 J.D. 2439893.6010 3 DAY 23 HR 31.1 MIN

SELENOGRAPHIC

ALT	496811.3750	R	6199206.000	VI	8141.802551	X	-6000527.312	VX	1573.472991
76 LTDM	4.314814329			FPVI	2.568634986	Y	1485359.515	VY	7981.663330
LONM	166.0965862			AZVI	267.5033149	Z	466406.9218	VZ	-325.8563499
A	-16537184.87	ASND	286.1907920	VVEN	10463498.50	APOG	.00000000 00	VAPG	.00000000 00
ECC	1.374214231	ARGP	115.5626277	ARGL	120.0001335	PERG	79.99435806	VPER	8147.759033
INCL	175.0160980	MA	.6600280627	TA	4.437504887	PERD	.00000000 00	MOON	HYPERBOLA
LTDE	-3.581051975	LONE	-1.227504059	LTCS	-1.413856595	LCNS	82.36552715		

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WT	26992.96777	ATLI	85.69033718	VA	8158.224060	AAAP	1.746225431	VIR	364.8838653
DVV	25.68378615	AMIS	268.202980C	FPVA	2.563461303	AAAY	.6923769861	VIT	8133.622070
RANG	2716.951080	RLAT	-.0504556908	AZVA	267.5083541	AAAT	1.878480523	VAT	-8150.060058
F	21500.00000	DWT	-68.25396823			VISN	2861.742675	DVI	25.62671113

7 FEB. 1968 2 HR 25 MIN 34.97 SEC TMST 343872.0000 J.D. 2439893.6011 3 DAY 23 HR 31.2 MIN

SELENOGRAPHIC

ALT	498336.8125	R	6200731.50C	VI	8243.933837	X	-5994128.375	VX	1608.035659
76 LTDM	4.301598906			FPVI	2.767863273	Y	1517624.171	VY	8078.853515
LONM	165.7921237			AZVI	267.4892692	Z	465095.5156	VZ	-329.8404541
A	-14240856.00	ASND	286.1025314	VVEN	12150729.50	APOG	.00000000 00	VAPG	.00000000 00
ECC	1.434556841	ARGP	115.5191974	ARGL	120.2160940	PERG	79.99625110	VPER	8250.642700
INCL	175.0204734	MA	.8634645864	TA	4.696895718	PERD	.00000000 00	MOON	HYPERBOLA
LTDE	-3.581105440	LONE	-1.228332519	LTCS	-1.413856133	LCNS	82.36420059		
WT	26719.95190	ATLI	85.38783931	VA	8260.356933	AAAP	1.849799871	VIR	398.0955886
DVV	25.91775345	AMIS	268.180500C	FPVA	2.762355804	AAAY	.6836618036	VIT	8234.316284
RANG	2721.924224	RLAT	-.0541387475	AZVA	267.4942779	AAAT	1.972093552	VAT	-8250.758422
F	21500.00000	DWT	-68.25396823			VISN	2964.771453	DVI	25.88855648

7 FEB. 1968 2 HR 25 MIN 38.97 SEC TMST 343876.0000 J.D. 2439893.6011 3 DAY 23 HR 31.3 MIN

SELENOGRAPHIC

ALT	499998.4375	R	6202393.125	VI	8347.053955	X	-5987627.250	VX	1642.548721
76 LTDM	4.288148105			FPVI	2.973618507	Y	1550135.625	VY	8177.034362
LONM	165.4853801			AZVI	267.4748916	Z	463768.1523	VZ	-333.8466644
2" A	-12469731.62	ASND	286.0170135	VVEN	13876544.50	APOG	.00000000 00	VAPG	.00000000 00
ECC	1.496279209	ARGP	115.476613C	ARGL	120.4370784	PERG	79.99742317	VPER	8354.570922
INCL	175.0248126	MA	1.099299296	TA	4.960464715	PERD	.00000000 00	MOON	HYPERBOLA
LTDE	-3.581159025	LONE	-1.227785632	LTCS	-1.413855686	LCNS	82.36424732		
1" WT	26446.93603	ATLI	85.08168315	VA	8363.478515	AAAP	1.950505241	VIR	433.0127601

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DVV	26.15683460	AMIS	268.1578330	FPVA	2.967773437	AAAY	.6750712618	VIT	8335.814819
RANG	2726.934783	RLAT	-.0578229003	AZVA	267.4798698	AAAT	2.064023226	VAT	-8352.261474
F	21500.00000	DWT	-68.25396823			VISN	3068.858337	DVI	26.15580821

7 FEB. 1968 2 HR 25 MIN 40.66 SEC TMST 343877.6875 J.D. 2439893.6011 3 DAY 23 HR 31.3 MIN

SELENOGRAPHIC

ALT	500743.6250	R	6203138.312	VI	8390.953979	X	-5984837.062	VX	1657.183639
76 LTDM	4.282389223			FPVI	3.062563896	Y	1563999.531	VY	8218.835693
LONM	165.3545875			AZVI	267.4687194	Z	463202.1328	VZ	-335.5471839
A	-11837202.75	ASND	285.9812622	VVEN	14618046.50	APOG	.00000000 00	VAPG	.00000000 00
ECC	1.522798359	ARGP	115.4588546	ARGL	120.5320138	PERG	79.99769115	VPER	8398.829833
INCL	175.0266361	MA	1.209273215	TA	5.073159158	PERD	.00000000 00	MOON	HYPERBOLA
LTDE	-3.581181317	LONE	-1.227555364	LTDS	-1.413855418	LONS	82.36426639		
WT	26331.50830	ATLI	84.95113849	VA	8407.379150	AAAP	1.992232948	VIR	448.2980537
DVV	26.25949549	AMIS	268.1481971	FPVA	3.056574821	AAAY	.6714758947	VIT	8378.969848
RANG	2729.071228	RLAT	-.0593809229	AZVA	267.4736824	AAAT	2.102349132	VAT	-8395.418457
F	21500.00000	DWT	-68.25396823			VISN	3113.188598	DVI	26.27046608

PRIMARY PHASE CUTOFF ---- VELOCITY---ECI 8390.953979

SELENOCENTRIC PHASE

7 FEB. 1968 2 HR 25 MIN 40.66 SEC TMST 343877.6835 J.D. 2439893.6011 3 DAY 23 HR 31.3 MIN

GEOCENTRIC

ALT	1310398960.	R	1331315248.	VI	5321.435363	X	788061440.0	VX	3193.663879
77 LTDM	21.49813342	RASC	50.53307151	FPVI	-16.68181228	Y	957120032.0	VY	-3948.038085
LONM	-122.1746282	DECL	21.36724996	AZVI	257.4140167	Z	485057448.0	VZ	-1590.968399
A	-1963020064.	ASND	172.0329380	VVEN	7170858.375	APOG	.00000000 00	VAPG	.00000000 00
ECC	1.632996380	ARGP	145.9223632	ARGL	119.1161975	PERG	201061.8105	VPER	5461.476745
INCL	155.3518619	MA	351.2839050	TA	333.1938285	PERD	.00000000 00	EARTH	HYPERBOLA

SELENOGRAPHIC

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ALT	500743.2890	R	6203138.375	VI	8390.953491	X	-5984836.875	VX	1657.183547
LTDM	4.282389521					Y	1563999.468	VY	8218.835205
LONM	165.3545875					Z	463202.1484	VZ	-335.5472030
A	-11837208.37	ASND	285.9812583						
ECC	1.522798106	ARGP	115.4588556						
INCL	175.0266361	MA	1.209269613						
LTDE	-3.581181317	LONE	-1.227555364	LTDS	-1.413855418	LONS	82.36426639		

SELENOCENTRIC

ALT	500743.2890	R	6203138.375	VI	8390.953491	X	4718438.187	VX	5770.705078
LTDM	18.51577806					Y	3512085.125	VY	-5538.256958
LONM	36.66149377					Z	1969904.593	VZ	-2536.686767
A	-11837203.37	ASND	175.0997600						
ECC	1.522798344	ARGP	130.1218643						
INCL	153.2150897	MA	1.209269613						
WT	26331.50830	DVV	4.498618185						
VINF	3823.354461	THIN	131.0475940	B	13594320.25	DCA	6188470.187		
ALIN	274.9718513	TFFI	125.9744348	B.T	-13591040.75	TCA	-1.089067682		
DLIN	-26.44258594			B.R	298577.5312	TMFL	.00000000 00		
XP	-6.924555957	ELAT	.0545002841	ELK	98.50581836	VERA	-129.4669265	VEDC	-21.36724996
YP	63.00273323	ELON	.1092196796	SLK	177.9143524	VSRA	-40.32030344	VSDC	-15.68322753
	NOT ECLIPSED	SVE	83.57844924	TLK	85.20179748	VTRA	-143.3385028	VTDC	-18.51577806

	STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
	A-OPHIUCHI	263.304	12.586	46.777	55.517	62.522	119.018	54.148
	VEGA	278.921	38.748	75.269	81.636	66.449	114.088	62.801
2"	B-CAPRICORNI	304.734	-14.900	70.202	83.542	14.435	167.512	4.773
	A-PAVONIS	305.683	-56.856	64.179	74.053	42.515	138.485	39.537
	DENEB	310.042	45.147	97.972	105.341	61.457	118.137	62.551

7 FEB. 1968 2 HR 30 MIN 40.66 SEC TMST 344177.6835 J.D. 2439893.6046 3 DAY 23 HR 36.3 MIN

1" GEOCENTRIC

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	ALT	13C9758144.	R	1330674432.	VI	5305.175720	X	788855272.0	VX	2083.351013
77	LTDM	21.48431277	RASC	50.46721315	FPVI	-30.41017246	Y	955843024.0	VY	-4489.161437
	LONM	-123.4938964	DECL	21.35349726	AZVI	257.3498229	Z	484526512.0	VZ	-1911.012374
	A	-2014418752.	ASND	172.1171035	VVEN	6987891.000	APOG	.00000000 00	VAPG	.00000000 00
	ECC	1.518943980	ARGP	169.1318359	ARCL	119.2555475	PERG	168604.5429	VPER	5824.009521
	INCL	155.3322734	MA	346.1055297	TA	310.1237068	PERD	.00000000 00	EARTH	HYPERBOLA
	SELENOGRAPHIC									
	ALT	925988.3203	R	6628383.437	VI	8174.721252	X	-5303561.562	VX	2808.846191
	LTDM	3.019490838					Y	3960529.031	VY	7665.607666
	LONM	143.2488059					Z	349154.5156	VZ	-418.2230873
	A	-11839485.12	ASND	285.9379196						
	ECC	1.522703707	ARGP	115.4662046						
	INCL	175.0263996	MA	6.758338928						
	LTDE	-3.585193842	LONE	-1.233224555	LTDS	-1.413835629	LONS	82.32110118		
	SELENOCENTRIC									
	ALT	925988.3203	R	6628383.437	VI	8174.721252	X	6285624.062	VX	4661.843750
	LTDM	10.03832674					Y	1758268.703	VY	-6077.620239
	LONM	15.62782466					Z	1155373.000	VZ	-2855.838775
	A	-11839484.00	ASND	175.1002197						
	ECC	1.522703781	ARGP	130.1262798						
	INCL	153.2147884	MA	6.758342325						
	WT	26331.50830	DVV	3.939439833						
	VINF	3822.986297	THIN	131.0506935	B	13595454.75	DCA	6188543.062		
	ALIN	274.9639739	TFFI	103.9320383	B.T	-13592177.12	TCA	-1.088305354		
2"	DLIN	-26.44346356			B.R	298513.5820	TMFL	5.000000000		
	XP	-6.848015844	ELAT	.0545342620	ELK	58.44298648	VERA	-129.5327835	VEDC	-21.35349702
	YP	62.97990798	ELON	.1080601029	SLK	177.9107933	VSRA	-40.31676626	VSDC	-15.68214583
		NOT ECLIPSED	SVE	83.64484596	TLK	63.15408182	VTRA	-164.3721714	VTDC	-10.03832674
		STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS	
1"										

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A-OPHIUCHI	263.304	12.586	46.812	70.910	62.524	119.018	45.810
VEGA	278.921	38.748	75.295	91.112	66.450	114.088	61.706
B-CAPRICORNI	304.734	-14.900	70.264	105.465	14.438	167.512	11.226
A-PAVONIS	305.683	-56.856	64.226	92.216	42.517	138.485	36.617
DENEB	310.042	45.147	58.006	114.244	61.457	118.137	67.684

7 FEB. 1968 2 HR 35 MIN 40.66 SEC TMST 344477.6835 J.D. 2439893.6081 3 DAY 23 HR 41.3 MIN

GEOCENTRIC

ALT	1308830016.	R	1329746320.	VI	5156.310974	X	789320176.0	VX	1051.063446
LTDM	21.47238445	RASC	50.41013193	FPVI	-41.72889137	Y	954467800.0	VY	-4624.676757
LONM	-124.8044052	DECL	21.34162735	AZVI	257.5189361	Z	483931988.0	VZ	-2023.653533
A	-2599172512.	ASND	171.7188739	VVEN	5415777.000	APOG	.00000000 00	VAPG	.00000000 00
ECC	1.309837073	ARGP	191.2182386	ARGL	118.9479980	PERG	129097.3144	VPER	6354.104675
INCL	155.4246463	MA	348.1774902	TA	287.7297554	PERD	.00000000 00	EARTH	HYPERBOLA

SELENOGRAPHIC

ALT	1827584.296	R	7529979.375	VI	7782.798706	X	-4336232.312	VX	3542.894775
LTDM	1.646182566					Y	6152307.062	VY	6914.262817
LONM	125.1767148					Z	216316.3671	VZ	-461.3277664
A	-11841664.25	ASND	285.8938175						
ECC	1.522612318	ARGP	115.4683561						
INCL	175.0262393	MA	12.30520725						
LTDE	-3.589202433	LONE	-1.237516894	LTDS	-1.413812994	LONS	82.27931404		

SELENOCENTRIC

ALT	1827584.296	R	7529979.375	VI	7782.798706	X	7524285.375	VX	3631.006530
LTDM	2.112304210					Y	-93210.20410	VY	-6211.374572
LONM	-.7097389251					Z	277542.3476	VZ	-2967.587493
A	-11841662.87	ASND	175.1003265						
ECC	1.522612392	ARGP	130.1273117						
INCL	153.2146053	MA	12.30520892						
WT	26331.50830	DVV	3.052195370						

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VINF	3822.634674	THIN	131.053688C	B	13596521.C0	DCA	6188599.750		
ALIN	274.9596138	TFFI	85.8724193[illegible]	B.T	-13593243.37	TCA	-1.088301897		
DLIN	-26.44395446			B.R	298527.6132	TMFL	10.00000C00		
XP	-6.779317736	ELAT	.0545648886	ELK	98.38853836	VERA	-129.5898647	VEDC	-21.34162735
YP	62.94238519	ELON	.1070470148	SLK	177.9071750	VSRA	-40.31319284	VSDC	-15.68105077
	NOT ECLIPSED	SVE	83.70289802	TLK	45.09260606	VIRA	179.2902584	VTDC	-2.112304210

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.843	84.624	62.527	119.018	40.478
VEGA	278.921	38.748	75.318	98.827	66.451	114.088	61.963
B-CAPRICORNI	304.734	-14.900	70.319	123.404	14.442	167.512	22.265
A-PAVONIS	305.683	-56.856	64.267	107.056	42.519	138.485	37.634
DENEB	310.042	45.147	98.C34	119.092	61.456	118.137	72.630

7 FEB. 1968 2 HR 40 MIN 40.66 SEC TMST 344777.6835 J.D. 2439893.6116 3 DAY 23 HR 46.3 MIN

GEOCENTRIC

	ALT	1307734288.	R	1328650608.	VI	4965.827453	X	789511056.0	VX	263.8924713
77	LTDM	21.46268439	RASC	50.36269426	FPVI	-50.40015602	Y	953090736.0	VY	-4532.624633
	LONM	-126.1052722	DECL	21.33197498	AZVI	257.8738098	Z	483324736.0	VZ	-2011.247802
	A	-4056386016.	ASND	170.930685C	VVEN	3470216.750	APOG	.00000000 00	VAPG	.00000000 00
	ECC	1.144446924	ARGP	210.995573C	ARGL	118.2759246	PERG	92990.77C50	VPER	7177.642028
	INCL	155.6028671	MA	353.4461555	TA	267.2803459	PERD	.00000000 00	EARTH	HYPERBOLA

SELENOGRAPHIC

ALT	3028692.500	R	8731087.625	VI	7365.324768	X	-32C3540.000	VX	3923.858886
LTDM	.4933226816					Y	8121795.687	VY	6214.866210
LONM	111.5261297					Z	75174.65039	VZ	-476.2124443
A	-11842844.25	ASND	285.8481712						
ECC	1.522561341	ARGP	115.4685544						
INCL	175.0261707	MA	17.85149145						

LTDE -3.593212217 LONE -1.242497473 LTCS -1.413793295 LONS 82.23683643

SELENOCENTRIC

ALT	3028692.500	R	8731087.625	VI	7365.324768	X	8489371.125	VX	2845.284393

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LTDM	-4.024397969					Y	-1946020.250	VY	-6117.560546
LONM	-12.91086685					Z	-612758.6953	VZ	-2954.288696
A	-11842840.37	ASND	175.1003227						
ECC	1.522561565	ARGP	130.1271514						
INCL	153.2145328	MA	17.85150003						
WT	26331.50830	DVV	2.270073503						
VINF	3822.444702	THIN	131.0553531	B	13597074.50	DCA	6188613.187		
ALIN	274.9579391	TFFI	72.22319507	B.T	-13593796.50	TCA	-1.088500022		
DLIN	-26.44414091			B.R	298552.9570	TMFL	15.00000000		
XP	-6.720049142	ELAT	.054594167C	ELK	98.34333801	VERA	-129.6373023	VEDC	-21.33197498
YP	62.89578199	ELON	.106195612E	SLK	177.9035472	VSRA	-40.30959844	VSDC	-15.67994749
	NOT ECLIPSED	SVE	83.75172615	TLK	31.44457030	VTRA	167.0891304	VTDC	4.024397969

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.868	95.170	62.530	119.018	37.772
VEGA	278.921	38.748	75.337	104.205	66.452	114.088	62.859
B-CAPRICORNI	304.734	-14.900	70.364	136.922	14.445	167.512	30.874
A-PAVONIS	305.683	-56.856	64.301	117.894	42.520	138.485	40.410
DENEB	310.042	45.147	98.058	120.782	61.455	118.137	76.713

7 FEB. 1968 2 HR 45 MIN 40.66 SEC TMST 345077.6835 J.D. 2439893.6151 3 DAY 23 HR 51.3 MIN

	GEOCENTRIC								
	ALT	1306555200.	R	1327471520.	VI	4783.001098	X	789501328.0	VX	-296.2636528
77	LTDM	21.45497345	RASC	50.32359552	FPVI	-56.95521926	Y	951756184.0	VY	-4358.407409
	LONM	-127.3977766	DECL	21.32430243	AZVI	258.3709106	Z	482730220.0	VZ	-1947.719894
	A	-8433846848.	ASND	169.8305511	VVEN	1669053.140	APOG	.00000000 00	VAPG	.00000000 00
2"	ECC	1.049271106	ARGP	227.2890663	ARGL	117.3102979	PERG	64948.59082	VPER	8331.796020
	INCL	155.8413085	MA	357.8057518	TA	250.0212268	PERD	.00000000 00	EARTH	HYPERBOLA
	SELENOGRAPHIC								
	ALT	4395510.750	R	1009905.87	VI	6991.576293	X	-1989793.640	VX	4095.354431
	LTDM	-.3858624063					Y	9899686.625	VY	5646.494873
1"	LONM	101.3647718					Z	-68004.53222	VZ	-476.7672462

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A	-11843450.37	ASND	285.8030128						
ECC	1.522534757	ARGP	115.4684925						
INCL	175.0261554	MA	23.39779114						
LTDE	-3.597218304	LONE	-1.246789887	LTCS	-1.413771718	LCNS	82.19504737		

SELENOCENTRIC

ALT	4395510.750	R	10097905.87	VI	6991.576293	X	9254262.375	VX	2286.575744
LTDM	-8.485582709					Y	-3755805.062	VY	-5941.580566
LONM	-22.08957505					Z	-1490052.453	VZ	-2889.867279

A	-11843449.25	ASND	175.1003131						
ECC	1.522534787	ARGP	130.1269111						
INCL	153.2145156	MA	23.39779281						
WT	26331.50830	DVV	1.697104409						
VINF	3822.346435	THIN	131.0562305	B	13597353.50	DCA	6188614.250		
ALIN	274.9572219	THFI	62.06977462	B.T	-13594075.00	TCA	-1.088669776		
DLIN	-26.44420647			B.R	298572.6210	TMFL	20.00000000		
XP	-6.669268548	ELAT	.0546232438	ELK	58.30615139	VERA	-129.6764030	VEDC	-21.32430195
YP	62.84427118	ELON	.1054842677	SLK	177.8998947	VSRA	-40.30599212	VSDC	-15.67883992
	NOT ECLIPSED	SVE	83.79255008	TLK	21.29443788	VTRA	157.9104213	VTDC	8.485582709

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.889	102.949	62.532	119.018	36.719
VEGA	278.921	38.7[illegible]8	75.353	107.761	66.453	114.088	63.915
B-CAPRICORNI	304.734	-14.900	70.401	146.923	14.449	167.512	37.413
A-PAVONIS	305.683	-56.856	64.328	125.521	42.522	138.485	43.458
DENEB	310.042	45.147	58.078	120.801	61.455	118.137	79.908

7 FEB. 1968 2 HR 50 MIN 40.66 SEC TMST 345377.6835 J.D. 2439893.6185 3 DAY 23 HR 56.3 MIN

GEOCENTRIC

	ALT	1305339632.	R	1326255952.	VI	4623.192687	X	789349592.0	VX -692.9106903
77	LTDM	21.44887924	RASC	50.29113435	FPVI	-61.98364067	Y	950476896.0	VY -4170.780273
	LONM	-128.6836643	DECL	21.31823778	AZVI	258.9828987	Z	482157420.0	VZ -1870.395126

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A	-.96133978 11	ASND	168.4614215	VVEN	146426.2558	APOG	.00000000 00	VAPG	.00000000 00
ECC	1.003060251	ARGP	239.7310447	ARGL	116.0905437	PERG	44976.81396	VPER	9789.892578
INCL	156.1216144	MA	359.9444160	TA	236.3594932	PERD	.00000000 00	EARTH	HYPERBOLA

SELENOGRAPHIC

ALT	5848604.250	R	11550999.37	VI	6676.102966	X	-741581.5234	VX	4157.849182
LTDM	-1.043162286					Y	11525251.12	VY	5201.981201
LONM	93.68156719					Z	-210292.9863	VZ	-471.2032661

A	-11843825.00	ASND	285.7585525
ECC	1.522518754	ARGP	115.4685506
INCL	175.0261592	MA	28.94404145

LTDE	-3.601225197	LONE	-1.250395029	LTDS	-1.413751661	LONS	82.15394210

SELENOCENTRIC

ALT	5848604.250	R	11550999.37	VI	6676.102966	X	9877616.625	VX	1891.374847
LTDM	-11.71506953					Y	-5509765.187	VY	-5752.189758
LONM	-29.15291333					Z	-2345370.812	VZ	-2811.648406

A	-11843822.75	ASND	175.1003170
ECC	1.522518888	ARGP	130.1267986
INCL	153.2145195	MA	28.94404816

WT	26331.50830	DVV	1.296986460

VINF	3822.286224	THIN	131.0567531	B	13597532.37	DCA	6188621.062		
ALIN	274.9567680	TFFI	54.40402269	B.T	-13594253.62	TCA	-1.088800430		
DLIN	-26.44423580			B.R	298587.4882	TMFL	25.00000000		
XP	-6.625410974	ELAT	.0546526601	ELK	98.27535247	VERA	-129.7088623	VEDC	-21.31823778
YP	62.79027748	ELON	.1048846030	SLK	177.8962478	VSRA	-40.30238008	VSDC	-15.67773044
	NOT ECLIPSED	SVE	83.82699108	TLK	13.63486409	VTRA	150.8470840	VTDC	11.71506953

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.907	108.711	62.535	119.018	36.548
VEGA	278.921	38.748	75.366	110.111	66.454	114.088	64.930
B-CAPRICORNI	304.734	-14.900	70.432	154.405	14.452	167.512	42.442
A-PAVONIS	305.683	-56.856	64.351	130.886	42.524	138.485	46.244

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DENEB	310.042	45.147	98.095	120.108	61.454	118.137	82.397

7 FEB. 1968 2 HR 55 MIN 40.66 SEC TMST 345677.6835 J.D. 2439893.6220 4 DAY HR 1.3 MIN

GEOCENTRIC

ALT	13041118 40.	R	1325028176.	VI	4487.583190	X	789096536.0	VX	-979.3149948
77 LTDM	21.44406414	RASC	50.26386070	FPVI	-65.93047714	Y	949252464.0	VY	-3994.989471
LONM	-129.9643669	DECL	21.31344652	AZVI	259.6958198	Z	481607836.0	VZ	-1794.269851
A	.12695850 11	ASND	166.8378734	VVEN	-1108751.187	APOG	4140826.906	VAPG	96.30717945
ECC	.9834081307	ARGP	248.7559185	ARGL	114.6300287	PERG	31226.86645	VPER	11512.65356
INCL	156.4312343	MA	-1.122698664	TA	225.8741073	PERD	1262621.937	EARTH	ELLIPSE

SELENOGRAPHIC

ALT	7344292.000	R	13046687.12	VI	6413.681335	X	518117.4218	VX	4166.227905
LTDM	-1.539517372					Y	13031681.62	VY	4854.182434
LONM	87.72321510					Z	-350517.6757	VZ	-463.4293479
A	-11844097.50	ASND	285.7113647						
ECC	1.522508293	ARGP	115.4687595						
INCL	175.0261745	MA	34.49019432						
LTDE	-3.605226486	LONE	-1.256742417	LTDS	-1.413729861	LONS	82.11009597		

SELENOCENTRIC

ALT	7344292.000	R	13046687.12	VI	6413.681335	X	10400051.62	VX	1606.415252
LTDM	-14.09467005					Y	-7208357.562	VY	-5574.634338
LONM	-34.72613334					Z	-3177191.750	VZ	-2734.628540
A	-11844095.62	ASND	175.1003303						
ECC	1.522508412	ARGP	130.1268253						
INCL	153.2145290	MA	34.49020242						
WT	26331.50830	DVV	1.016674026						
VINF	3822.241973	THIN	131.0570945	B	13597681.12	DCA	6188639.812		
ALIN	274.9563713	TFFI	48.47412109	B.T	-13594401.87	TCA	-1.088915109		
DLIN	-26.44425487			B.R	298596.9843	TMFL	30.00000000		
XP	-6.587048947	ELAT	.0546825896	ELK	98.24955177	VERA	-129.7361373	VEDC	-21.31344652

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864419

YP	62.73512744	ELCN	.104372235C	SLK	177.8926048	VSRA	-40.29876327	VSDC	-15.67661976
	NOT ECLIPSEC	SVE	83.85644149	TLK	7.718421876	VTRA	145.2738628	VTDC	14.09467005

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.923	113.065	62.538	119.018	36.810
VEGA	278.921	38.748	75.378	111.696	66.455	114.088	65.842
B-CAPRICCRNI	304.734	-14.900	7C.458	160.1C5	14.455	167.512	46.398
A-PAVCNIS	305.683	-56.856	64.370	134.7C8	42.526	138.485	48.660
DENEB	310.042	45.147	98.110	119.169	61.453	118.137	84.364

7 FEB. 1968 3 HR MIN 40.66 SEC TMST 345977.6835 J.D. 2439893.6255 4 DAY HR 6.3 MIN

GEOCENTRIC

	ALT	1302883920.	R	1323800256.	VI	4373.127807	X	788769384.0	VX	-1191.634704
77	LTDM	21.44026780	RASC	50.24066877	FPVI	-69.10091018	Y	948077984.0	VY	-3838.045745
	LONM	-131.2409877	DECL	21.30966854	AZVI	260.5046463	Z	481080208.0	VZ	-1724.429916
	A	6569791936.	ASND	164.9549617	VVEN	-2142615.562	APOG	2133830.875	VAPG	159.0230407
	ECC	.9766702503	ARGP	255.0681838	ARGL	112.9239292	PERG	21783.94482	VPER	13473.61718
	INCL	156.7607994	MA	-2.934730768	TA	217.8557415	PERD	470011.0781	EARTH	ELLIPSE

SELENOGRAPHIC

	ALT	8858798.000	R	14561193.12	VI	6194.844604	X	1776374.546	VX	4147.796142
	LTDM	-1.921778291					Y	14444181.50	VY	4578.723327
	LONM	82.98885345					Z	-488310.6406	VZ	-455.1704025
	A	-11844315.75	ASND	285.6669387						
	ECC	1.522501558	ARGP	115.4691104						
	INCL	175.0261898	MA	40.0362358C						
	LTDE	-3.609227210	LCNE	-1.260345637	LTCS	-1.413707882	LCNS	82.06899166		

2"

SELENOCENTRIC

	ALT	8858798.000	R	14561193.12	VI	6194.844604	X	10848831.62	VX	1395.538955
	LTDM	-15.89024245					Y	-8856450.375	VY	-5415.925109
	LONM	-39.22650146					Z	-3986788.281	VZ	-2663.893463
	A	-11844313.87	ASND	175.1003456						

1"

ECC	1.522501647	ARGP	130.1269798						
INCL	153.2145385	MA	40.03624625						
WT	26331.50830	CVV	.8162030950						
VINF	3822.206726	THIN	131.0573177	B	13597825.37	DCA	6188673.312		
ALIN	274.9559669	TFFI	43.77134943	B.T	-13594546.37	TCA	-1.089028358		
DLIN	-26.44427371			B.R	298603.0078	TMFL	35.00000000		
XP	-6.553066611	ELAT	.0547131006	ELK	98.22768402	VERA	-129.7593288	VEDC	-21.30966854
YP	62.67951726	ELON	.1039286675	SLK	177.8889369	VSRA	-40.29514694	VSDC	-15.67550814
	NOT ECLIPSED	SVE	83.88195800	TLK	3.064044177	VTRA	140.7734966	VTDC	15.89024245

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.936	116.430	62.541	119.018	37.270
VEGA	278.921	38.748	75.388	112.790	66.456	114.088	66.644
B-CAPRICORNI	304.734	-14.900	70.480	164.508	14.459	167.512	49.582
A-PAVONIS	305.683	-56.856	64.386	137.474	42.527	138.485	50.726
DENEB	310.042	45.147	98.122	118.189	61.453	118.137	85.946

7 FEB. 1968 3 HR 5 MIN 40.66 SEC TMST 346277.6835 J.D. 2439893.6289 4 DAY HR 11.3 MIN

GEOCENTRIC

	ALT	1301661920.	R	1322578256.	VI	4276.135314	X	788386608.0	VX	-1353.241333
77	LTDM	21.43729114	RASC	50.22073745	FPVI	-71.70103645	Y	946947704.0	VY	-3700.234893
	LONM	-132.5143470	DECL	21.30670666	AZVI	261.4102745	Z	480572424.0	VZ	-1662.026809
	A	4690336704.	ASND	162.7938495	VVEN	-3001178.718	APOG	1521761.000	VAPG	191.6085052
	ECC	.9758294150	ARGP	259.2980194	ARGL	110.9543905	PERG	15216.68627	VPER	15663.07653
	INCL	157.1019134	MA	-4.762202501	TA	211.6563663	PERD	283521.9531	EARTH	ELLIPSE

SELENOGRAPHIC

2"	ALT	10379050.37	R	16081445.50	VI	6010.747741	X	3028810.750	VX	4117.085815
	LTDM	-2.222534179					Y	15781326.00	VY	4356.460571
	LONM	79.13568878					Z	-623651.5468	VZ	-447.1512603
	A	-11844497.75	ASND	285.6197967						
	ECC	1.522497981	ARGP	115.4696235						
1"	INCL	175.0262050	MA	45.58218574						

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LTDE	-3.613227248	LONE	-1.266695141	LTCS	-1.413687512	LCNS	82.02514171

SELENOCENTRIC

ALT	10379050.37	R	16081445.50	VI	6010.747741	X	11242419.37	VX	1235.374298
LTDM	-17.27782702					Y	-10459832.12	VY	-5276.347900
LONM	-42.93479776					Z	-4776275.750	VZ	-2600.594665
A	-11844496.62	ASND	175.1003665						
ECC	1.522498026	ARGP	130.1272735						
INCL	153.2145500	MA	45.58219432						
WT	26331.50830	CVV	.6691958308						
VINF	3822.177337	THIN	131.0574359	B	13597978.00	DCA	6188726.187		
ALIN	274.9555320	TFFI	39.95658063	B.T	-13594699.00	TCA	-1.089144229		
DLIN	-26.44429349			B.R	298605.3984	TMFL	40.00000000		
XP	-6.522614002	ELAT	.0547441793	ELK	98.20896148	VERA	-129.7792606	VEDC	-21.30670666
YP	62.62382936	ELON	.1035400666	SLK	177.8852806	VSRA	-40.29152965	VSDC	-15.67439675
	NOT ECLIPSED	SVE	83.90432929	TLK	1.083927109	VTRA	137.0651988	VTDC	17.27782702

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.947	119.091	62.543	119.018	37.806
VEGA	278.921	38.748	75.397	113.565	66.457	114.088	67.346
B-CAPRICORNI	304.734	-14.900	70.498	167.918	14.462	167.512	52.200
A-PAVONIS	305.683	-56.856	64.399	139.507	42.529	138.485	52.497
DENEB	310.042	45.147	98.133	117.249	61.452	118.137	87.243

7 FEB. 1968 3 HR 10 MIN 40.66 SEC TMST 346577.6835 J.D. 2439893.6324 4 DAY HR 16.3 MIN

GEOCENTRIC

ALT	13004486 08.	R	1321364944.	VI	4193.320922	X	787960992.0	VX	-1479.258865
2" 77 LTDM	21.43498635	RASC	50.20345497	FPVI	-73.87177085	Y	945856136.0	VY	-3579.670837
LONM	-133.7850360	DECL	21.30441308	AZVI	262.4178314	Z	480082280.0	VZ	-1606.764022
A	3781863456.	ASND	160.3249053	VVEN	-3722117.093	APOG	1227380.875	VAPG	205.8130455
ECC	.9774954021	ARGP	261.9103202	ARGL	108.6933317	PERG	10565.87524	VPER	18084.94213
INCL	157.4457969	MA	-6.474035739	TA	206.7830047	PERD	205276.5937	EARTH	ELLIPSE

1"

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SELENOGRAPHIC

ALT	11897789.25	R	17600184.25	VI	5854.221496	X	4271375.125	VX	4080.883972
LTDM	-2.463997572					Y	17057235.75	VY	4174.326660
LONM	75.94141769					Z	-756660.3828	VZ	-439.6505737
A	-11844652.62	ASND	285.5754089						
ECC	1.522497400	ARGP	115.4702854						
INCL	175.0262222	MA	51.12806844						
LTDE	-3.617224723	LONE	-1.270293712	LTCS	-1.413666114	LONS	81.98403930		

SELENOCENTRIC

ALT	11897789.25	R	17600184.25	VI	5854.221496	X	11593598.00	VX	1110.797332
LTDM	-18.37385582					Y	-12023984.87	VY	-5154.016601
LONM	-46.04399394					Z	-5547860.312	VZ	-2544.435699
A	-11844651.62	ASND	175.1003913						
ECC	1.522497490	ARGP	130.1277065						
INCL	153.2145633	MA	51.12807703						
WT	26331.50830	DVV	.558702901C						
VINF	3822.152404	THIN	131.0574550	B	13598147.25	DCA	6188800.687		
ALIN	274.9550514	TFFI	36.8007636C	B.T	-13594868.37	TCA	-1.089273929		
DLIN	-26.44431734			B.R	298604.5585	TMFL	45.00000000		
XP	-6.495051026	ELAT	.0547758015	ELK	58.19279670	VERA	-129.7965412	VEDC	-21.30441308
YP	62.56826353	ELON	.1031961581	SLK	177.8816242	VSRA	-40.28791284	VSDC	-15.67328572
	NOT ECLIPSED	SVE	83.92414283	TLK	4.047536730	VTRA	133.9560031	VTDC	18.37385582

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.957	121.236	62.546	119.018	38.361
VEGA	278.921	38.748	75.404	114.126	66.458	114.088	67.961
B-CAPRICORNI	304.734	-14.900	70.515	170.508	14.466	167.512	54.391
A-PAVONIS	305.683	-56.856	64.410	141.023	42.531	138.485	54.025
DENEB	310.042	45.147	58.143	116.379	61.452	118.137	88.325

7 FEB. 1968 3 HR 15 MIN 40.66 SEC TMST 346877.6835 J.D. 2439893.6359 4 DAY HR 21.3 MIN

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	GEOCENTRIC									
	ALT	1299245168.	R	1320161504.	VI	4122.008911	X	787501592.0	VX	-1579.656204
77	LTDM	21.43323993	RASC	50.18836069	FPVI	-75.71150970	Y	944798424.0	VY	-3473.994659
	LONM	-135.0535602	DECL	21.30267524	AZVI	263.5359344	Z	479607736.0	VZ	-1557.884902
	A	3247540992.	ASND	157.5094203	VVEN	-4334522.250	APOG	1054861.125	VAPG	208.8588523
	ECC	.9800728261	ARGP	263.2203483	ARGL	106.1041126	PERG	7209.289306	VPER	20753.35644
	INCL	157.7818393	MA	-8.043606281	TA	202.8837604	PERD	163347.5507	EARTH	ELLIPSE
	SELENOGRAPHIC									
	ALT	13410984.62	R	19113379.75	VI	5719.705932	X	5504194.187	VX	4043.240814
	LTDM	-2.661424130					Y	18282161.75	VY	4022.432983
	LONM	73.24457359					Z	-887508.9921	VZ	-432.7500877
	A	-11844782.50	ASND	285.5296783						
	ECC	1.522500067	ARGP	115.4711227						
	INCL	175.0262393	MA	56.67392969						
	LTDE	-3.621221065	LONE	-1.275264441	LTDS	-1.413645312	LONS	81.94156455		
	SELENOCENTRIC									
	ALT	13410984.62	R	19113379.75	VI	5719.705932	X	11911448.75	VX	1011.839286
	LTDM	-19.25658226					Y	-13553730.12	VY	-5046.572143
	LONM	-48.68996715					Z	-6303575.625	VZ	-2494.659820
	A	-11844781.75	ASND	175.1004195						
	ECC	1.522500142	ARGP	130.1282939						
	INCL	153.2145767	MA	56.67393827						
	WT	26331.50830	DVV	.473753716E						
	VINF	3822.131378	THIN	131.0573654	B	13598339.00	DCA	6188900.187		
2"	ALIN	274.9545211	TFFI	34.14570331	B.T	-13595060.25	TCA	-1.089417457		
	DLIN	-26.44434285			B.R	298599.2226	TMFL	50.00000000		
	XP	-6.469888448	ELAT	.054807928E	ELK	98.17874336	VERA	-129.8116359	VEDC	-21.30267524
	YP	62.51292943	ELON	.1028891671	SLK	177.8779830	VSRA	-40.28429746	VSDC	-15.67217457
		NOT ECLIPSED	SVE	83.94184398	TLK	6.679083108	VTRA	131.3100299	VTDC	19.25658226
1"		STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS	

A-OPHIUCHI	263.304	12.586	46.966	122.996	62.549	119.018	38.905
VEGA	278.921	38.748	75.412	114.539	66.459	114.088	68.503
B-CAPRICORNI	304.734	-14.900	70.529	172.354	14.469	167.512	56.255
A-PAVONIS	305.683	-56.856	64.420	142.168	42.533	138.485	55.353
DENEB	310.042	45.147	98.151	115.586	61.451	118.137	89.241

7 FEB. 1968 3 HR 20 MIN 40.66 SEC TMST 347177.6835 J.D. 2439893.6393 4 DAY HR 26.3 MIN

GEOCENTRIC

	ALT	1258051920.	R	1318968256.	VI	4060.082519	X	787015080.0	VX	-1661.162399
77	LTDM	21.43196344	RASC	50.17509794	FPVI	-77.29053878	Y	943770464.0	VY	-3380.967010
	LONM	-136.3202495	DECL	21.30140519	AZVI	264.7763366	Z	479146996.0	VZ	-1514.553268
	A	2896107616.	ASND	154.3010978	VVEN	-4860502.625	APOG	941649.9921	VAPG	205.1664943
	ECC	.9828281626	ARGP	263.4315795	ARGL	103.1429882	PERG	4743.433349	VPER	23690.52807
	INCL	158.0963077	MA	-9.474814415	TA	199.7114048	PERD	137563.3417	EARTH	ELLIPSE

SELENOGRAPHIC

ALT	14916446.87	R	20618842.00	VI	5602.935607	X	6726477.562	VX	4005.936676
LTDM	-2.825462013					Y	19464277.50	VY	3894.034362
LONM	70.93584060					Z	-1016377.578	VZ	-426.4453964
A	-11844890.25	ASND	285.4846496						
ECC	1.522506088	ARGP	115.4721364						
INCL	175.0262584	MA	62.21980905						
LTDE	-3.625215828	LONE	-1.279549703	LTDS	-1.413624674	LONS	81.89977550		

SELENOCENTRIC

ALT	14916446.87	R	20618842.00	VI	5602.935607	X	12202584.00	VX	931.7709426
LTDM	-19.97974872					Y	-15053192.00	VY	-4951.775512
LONM	-50.97070360					Z	-7045210.687	VZ	-2450.430908
A	-11844888.75	ASND	175.1004524						
ECC	1.522506207	ARGP	130.1290416						
INCL	153.2145881	MA	62.21981763						
WT	26331.50830	DVV	.4071095437						

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VINF	3822.114013	THIN	131.0571670	B	13598557.37	DCA	6189027.937		
ALIN	274.9539413	TEFI	31.87946796	B.T	-13595278.62	TCA	-1.089581012		
DLIN	-26.44437217			B.R	298590.4531	TMFL	55.00000000		
XP	-6.446745872	ELAT	.0548405070	ELK	98.16645908	VERA	-129.8248996	VEDC	-21.30140519
YP	62.45788002	ELON	.1026130980	SLK	177.8743286	VSRA	-40.28068113	VSDC	-15.67106378
	NOT ECLIPSED	SVE	83.95777511	TLK	8.936571598	VTRA	129.0292930	VTDC	19.97974872

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.975	124.462	62.552	119.018	39.425
VEGA	278.921	38.748	75.418	114.848	66.460	114.088	68.984
B-CAPRICORNI	304.734	-14.900	70.541	173.475	14.473	167.512	57.861
A-PAVONIS	305.683	-56.856	64.428	143.040	42.535	138.485	56.518
DENEB	310.042	45.147	98.159	114.867	61.450	118.137	90.027

7 FEB. 1968 3 HR 25 MIN 40.66 SEC TMST 347477.6835 J.D. 2439893.6428 4 DAY HR 31.3 MIN

GEOCENTRIC									
ALT	1296868704.	R	1317785040.	VI	4005.879486	X	786506320.0	VX	-1728.432785
77 LTDM	21.43108916	RASC	50.16339349	FPVI	-78.66017150	Y	942768768.0	VY	-3298.642303
LONM	-137.5853614	DECL	21.30053544	AZVI	266.1540260	Z	478698520.0	VZ	-1475.991134
A	2647524800.	ASND	150.6480655	VVEN	-5316867.500	APOG	861667.3281	VAPG	197.4651718
ECC	.9854393154	ARGP	262.6696777	ARGL	99.76117515	PERG	2903.159576	VPER	26925.59643
INCL	158.3707904	MA	-10.78005671	TA	197.0914936	PERD	120237.7177	EARTH	ELLIPSE
SELENOGRAPHIC									
ALT	16413055.75	R	22115450.75	VI	5500.631042	X	7939171.687	VX	3970.085021
LTDM	-2.963695526					Y	20609591.00	VY	3783.963714
LONM	68.93244934					Z	-1143439.156	VZ	-420.6968994
A	-11844977.50	ASND	285.4382743						
2" ECC	1.522515624	ARGP	115.4733390						
INCL	175.0262794	MA	67.76573848						
LTDE	-3.629207700	LONE	-1.285205751	LTDS	-1.413602903	LONS	81.85661315		
SELENOCENTRIC									
1" ALT	16413055.75	R	22115450.75	VI	5500.631042	X	12471930.50	VX	865.9370346

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LTDM	-20.58110833					Y	-16525864.75	VY	-4867.680786
LONM	-52.95845365					Z	-7774310.687	VZ	-2410.970947
A	-11844975.37	ASND	175.1004924						
ECC	1.522515773	ARGP	130.1299648						
INCL	153.2146034	MA	67.76575374						
WT	26331.50830	CVV	.3538833484						
VINF	3822.100158	THIN	131.0568561	B	13598806.75	DCA	6189186.562		
ALIN	274.9533004	TFFI	29.92096066	B.T	-13595528.62	TCA	-1.089768886		
DLIN	-26.44440388			B.R	298578.1210	TMFL	60.00000000		
XP	-6.425331592	ELAT	.0548735116	ELK	98.15568161	VERA	-129.8366050	VEDC	-21.30053544
YP	62.40313863	ELON	.1023633852	SLK	177.8706703	VSRA	-40.27706718	VSDC	-15.66995346
	NOT ECLIPSED	SVE	83.97219944	TLK	10.89072120	VTRA	127.0415449	VTDC	20.58110833

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.982	125.700	62.554	119.018	39.915
VEGA	278.921	38.748	75.424	115.082	66.461	114.088	69.412
B-CAPRICORNI	304.734	-14.900	70.552	173.909	14.476	167.512	59.261
A-PAVONIS	305.683	-56.856	64.435	143.711	42.536	138.485	57.548
DENEB	310.042	45.147	98.166	114.215	61.450	118.137	90.708

7 FEB. 1968 4 HR 25 MIN 40.66 SEC TMST 351077.6835 J.D. 2439893.6845 4 DAY 1 HR 31.3 MIN

GEOCENTRIC									
ALT	1283281232.	R	1304197568.	VI	3662.458129	X	779494464.0	VX	-2081.706939
77 LTDM	21.43908286	RASC	50.09336137	FPVI	-86.73287391	Y	932045440.0	VY	-2756.289062
LONM	-152.6964721	DECL	21.30848956	AZVI	-55.20563411	Z	473931420.0	VZ	-1217.771148
A	1722340384.	ASND	77.70105361	VVEN	-8172913.375	APOG	563046.7031	VAPG	79.08732509
2" ECC	.9984705522	ARGP	210.2931785	ARGL	34.35429239	PERG	-3007.778930	VPER	103340.3671
INCL	139.9124374	MA	-20.43630480	TA	184.0611114	PERD	63089.79931	EARTH	ELLIPSE
SELENOGRAPHIC									
ALT	33694520.00	R	39396915.00	VI	4836.645812	X	21892723.75	VX	3677.496276
LTDM	-3.742396354					Y	32652918.25	VY	3118.575469
1" LONM	56.15942764					Z	-2571464.406	VZ	-379.0133323

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A	-11844640.00	ASND	284.8965454						
ECC	1.522971853	ARGP	115.5071035						
INCL	175.0267982	MA	134.3341541						
LTDE	-3.676977723	LONE	-1.342011168	LTCS	-1.413348704	LCNS	81.34965515		

SELENOCENTRIC

ALT	33694520.00	R	39396915.00	VI	4836.645812	X	14830705.00	VX	529.7927017
LTDM	-23.78324341					Y	-32859425.00	VY	-4304.018432
LONM	-65.70853614					Z	-15887897.25	VZ	-2141.935791

A	-11844639.37	ASND	175.1018238						
ECC	1.522971943	ARGP	130.1572990						
INCL	153.2149543	MA	134.3341655						
WT	26331.50830	DVV	.1115226252						
VINF	3822.154449	TPIN	131.0419101	B	13605583.87	DCA	6194414.062		
ALIN	274.9408073	TFFI	17.70479273	B.T	-13602317.75	TCA	-1.095000267		
DLIN	-26.44501471			B.R	298092.7070	TMFL	120.0000000		
XP	-6.247127175	ELAT	.0552935763	ELK	58.09447574	VERA	-129.9066352	VEDC	-21.30848956
YP	61.76775932	ELON	.1005574260	SLK	177.8268890	VSRA	-40.23374176	VSDC	-15.65664374
	NOT ECLIPSED	SVE	84.07710742	TLK	23.10601496	VTRA	114.2914619	VTDC	23.78324341

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	47.035	132.668	62.587	119.018	43.804
VEGA	278.921	38.748	75.470	115.832	66.473	114.088	72.363
B-CAPRICORNI	304.734	-14.900	70.615	166.745	14.518	167.512	68.271
A-PAVONIS	305.683	-56.856	64.467	145.906	42.558	138.485	64.447
DENEB	310.042	45.147	58.218	109.589	61.442	118.137	95.006

2"

7 FEB. 1968 5 HR 25 MIN 40.66 SEC TMST 354677.6835 J.D. 2439893.7261 4 DAY 2 HR 31.3 MIN

GEOCENTRIC

	ALT	1270371232.	R	1291287552.	VI	3535.833679	X	771769536.0	VX	-2195.260040
77	LTDM	21.46395707	RASC	50.08583068	FPVI	-86.88007736	Y	922562272.0	VY	-2538.724609
	LONM	-167.7450790	DECL	21.33324146	AZVI	16.55514454	Z	469759720.0	VZ	-1112.578292

1"

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A	1513572016.	ASND	43.91379261	VVEN	-9300210.750	APOG	494401.2812	VAPG	82.14920425
ECC	.9985497966	ARGP	198.5892543	ARGL	22.16781497	PERG	-3080.068939	VPER	113211.2080
INCL	74.60862922	MA	-24.95206046	TA	183.5785579	PERD	51973.89892	EARTH	ELLIPSE

SELENOGRAPHIC

ALT	5007943C.00	R	55781825.5C	VI	4562.463745	X	35217979.50	VX	3539.283111
LTDM	-4.007112860					Y	43082607.00	VY	2856.570251
LONM	50.73563671					Z	-3898051.468	VZ	-359.9405059

A	-11842081.12	ASND	284.3675537
ECC	1.524269133	ARGP	115.5879592
INCL	175.0279922	MA	200.9739189

LTDE	-3.724485725	LONE	-1.397275865	LTCS	-1.413091003	LCNS	80.84407997

SELENOCENTRIC

ALT	5007943C.CC	R	55781825.5C	VI	4562.463745	X	16537711.00	VX	433.1693992
LTDM	-24.76515698					Y	-47875873.00	VY	-4065.017303
LONM	-70.94360637					Z	-23367005.00	VZ	-2025.851776

A	-1184208C.37	ASND	175.1056499
ECC	1.524269044	ARGP	130.2226257
INCL	153.215702C	MA	200.9739437

WT	26331.50830	DVV	.0555789158

VINF	3822.567352	THIN	130.9994754	B	13623001.62	DCA	6208436.187		
ALIN	274.9190711	TFFI	12.85243690	B.T	-13619767.00	TCA	-1.108451843		
DLIN	-26.44603848			B.R	296849.2226	TMFL	18C.0000000		
XP	-6.139348804	ELAT	.0557424817	ELK	98.09385395	VERA	-129.9141674	VEDC	-21.33324146
YP	61.15803098	ELON	.0998105667	SLK	177.7831764	VSRA	-40.19048261	VSDC	-15.64335119
	NOT ECLIPSED	SVE	84.12136363	TLK	27.97589373	VTRA	109.0563917	VTDC	24.76515698

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	47.C57	134.984	62.620	119.018	45.729
VEGA	278.921	38.748	75.494	115.782	66.485	114.088	73.670
B-CAPRICORNI	304.734	-14.900	7C.619	162.282	14.559	167.512	71.985
A-PAVONIS	305.683	-56.856	64.451	145.736	42.579	138.485	67.398

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DENEB	310.042	45.147	98.240	107.517	61.435	118.137	96.725

7 FEB. 1968 6 HR 25 MIN 40.66 SEC TMST 358277.6835 J.D. 2439893.7678 4 DAY 3 HR 31.3 MIN

GEOCENTRIC

ALT	1257787984.	R	1278704272.	VI	3478.489044	X	763747656.0	VX	-2256.621307
77 LTDM	21.49683547	RASC	50.10656642	FPVI	-85.36156845	Y	913644712.0	VY	-2426.503814
LONM	177.2346000	DECL	21.36595797	AZVI	38.49742078	Z	465862076.0	VZ	-1058.123611
A	1419436128.	ASND	33.94660282	VVEN	-9916993.375	APOG	463019.4140	VAPG	126.9092664
ECC	.9967571124	ARGP	201.4593296	ARGL	26.55864048	PERG	-2683.749176	VPER	78142.38867
INCL	54.57089233	MA	-27.46465992	TA	185.0993080	PERD	47201.35302	EARTH	ELLIPSE

SELENOGRAPHIC

ALT	65932368.00	R	71634763.00	VI	4410.084228	X	48274815.50	VX	3466.080200
LTDM	-4.140792429					Y	52671869.00	VY	2704.323333
LONM	47.49412298					Z	-5172571.875	VZ	-348.9508171
A	-11837431.75	ASND	283.8533363						
ECC	1.526703208	ARGP	115.7308301						
INCL	175.0300579	MA	267.7396659						
LTDE	-3.771729141	LONE	-1.454419136	LTDS	-1.412830129	LONS	80.33646297		

SELENOCENTRIC

ALT	65932368.00	R	71634763.00	VI	4410.084228	X	18008468.75	VX	388.5368728
LTDM	-25.22842097					Y	-62249383.00	VY	-3931.233337
LONM	-73.86507797					Z	-30532747.50	VZ	-1960.430450
A	-11837431.50	ASND	175.1130847						
ECC	1.526702478	ARGP	130.3364028						
INCL	153.2169246	MA	267.7396659						
2" WT	26331.50830	DVV	.033615035C						
VINF	3823.317993	THIN	130.9201374	B	13655811.62	DCA	6234804.437		
ALIN	274.8880500	TFFI	10.19225752	B.T	-13652632.62	TCA	-1.132579803		
DLIN	-26.44747352			B.R	294637.2460	TMFL	240.0000000		
1" XP	-6.063184797	ELAT	.0562105872	ELK	98.12071418	VERA	-129.8934326	VEDC	-21.36595773

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YP	60.56096124	ELCN	.0995440744	SLK	177.7394733	VSRA	-40.14725303	VSDC	-15.63005983
	NOT ECLIPSED	SVE	84.1381092C	TLK	30.66304039	VTRA	106.1349201	VTDC	25.22842097

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-CPHIUCHI	263.304	12.586	47.C65	136.123	62.653	119.018	46.866
VEGA	278.921	38.748	75.508	115.668	66.497	114.088	74.418
B-CAPRICCRNI	304.734	-14.900	70.594	159.741	14.601	167.512	74.037
A-PAVCNIS	305.683	-56.856	64.413	145.383	42.600	138.485	69.047
DENEB	310.042	45.147	98.250	106.327	61.427	118.137	97.663

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7 FEB. 1968 7 HR 25 MIN 40.66 SEC TMST 361877.6835 J.D. 2439893.8095 4 DAY 4 HR 31.3 MIN

GEOCENTRIC

	ALT	1245371088.	R	1266287344.	VI	3452.779296	X	755543472.0	VX	-2299.273132
77	LTDM	21.53470516	RASC	50.1441183C	FPVI	-84.18663024	Y	905035112.0	VY	-2362.265502
	LONM	162.2310733	DECL	21.40364217	AZVI	45.90749263	Z	462113812.0	VZ	-1027.000427
	A	1365184768.	ASND	29.50356531	VVEN	-10311086.75	APOG	444770.3046	VAPG	162.6116733
	ECC	.5948841631	ARGP	203.157444C	ARGL	29.39339065	PERG	-2291.888488	VPER	63409.26464
	INCL	48.03457450	MA	-28.97295689	TA	186.2359428	PERD	44521.29882	EARTH	ELLIPSE

SELENOGRAPHIC

	ALT	81439587.0C	R	87141982.0C	VI	4312.478637	X	61219919.50	VX	3425.161590
	LTDM	-4.221779465					Y	61682185.00	VY	2597.869140
	LONM	45.21550273					Z	-6415157.000	VZ	-341.7836380
	A	-11830684.62	ASND	283.3618087						
	ECC	1.530570402	ARGP	115.9493141						
	INCL	175.0331439	MA	334.6861495						
	LTDE	-3.818708241	LONE	-1.510014757	LTCS	-1.412569150	LCNS	79.83022403		

SELENOCENTRIC

	ALT	81439587.0C	R	87141982.0C	VI	4312.478637	X	19356694.25	VX	362.4112205
	LTDM	-25.49553322					Y	-76237025.00	VY	-3845.307128
	LONM	-75.75356006					Z	-37509459.00	VZ	-1918.265975

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A	-11830683.75	ASND	175.1250553						
ECC	1.530570447	ARGP	130.5086669						
INCL	153.2186737	MA	334.6861915						
WT	26075.50830	DVV	.0226060981						
VINF	3824.408111	THIN	130.7947425	B	13708528.87	DCA	6277011.125		
ALIN	274.8476829	TFFI	8.501208543	B.T	-13705434.87	TCA	-1.168487548		
DLIN	-26.44932603			B.R	291234.1445	TMFL	300.0000000		
XP	-6.005358338	ELAT	.0566941383	ELK	98.16396331	VERA	-129.8558788	VEDC	-21.40364217
YP	59.97013521	ELON	.0995642766	SLK	177.6957893	VSRA	-40.10404920	VSDC	-15.61676871
	NOT ECLIPSED	SVE	84.13844108	TLK	32.38980007	VTRA	104.2464380	VTDC	25.49553322

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	47.066	136.798	62.686	119.018	47.613
VEGA	278.921	38.748	75.517	115.563	66.510	114.088	74.905
B-CAPRICORNI	304.734	-14.900	70.554	158.091	14.642	167.512	75.335
A-PAVONIS	305.683	-56.856	64.362	145.062	42.621	138.485	70.092
DENEB	310.042	45.147	98.252	105.547	61.420	118.137	98.257

7 FEB. 1968 8 HR 25 MIN 40.66 SEC TMST 365477.6835 J.D. 2439893.8511 4 DAY 5 HR 31.3 MIN

	GEOCENTRIC								
	ALT	1233034288.	R	1253950496.	VI	3444.503753	X	747202864.0	VX	-2333.430816
77	LTDM	21.57617807	RASC	50.19323158	FPVI	-83.32290840	Y	896605336.0	VY	-2324.264465
	LONM	147.2391300	DECL	21.44491171	AZVI	49.50421333	Z	458452452.0	VZ	-1008.712730
	A	1329618512.	ASND	27.01582026	VVEN	-10586900.37	APOG	432733.3945	VAPG	189.4966487
	ECC	.9932392686	ARGP	204.1098003	ARCL	31.16860365	PERG	-1961.886383	VPER	55868.53564
	INCL	44.94330692	MA	-29.90039587	TA	187.0587997	PERD	42792.85351	EARTH	ELLIPSE
2"	SELENOGRAPHIC									
	ALT	96704766.00	R	102407161.0	VI	4244.585266	X	74137889.00	VX	3402.795532
	LTDM	-4.276296913					Y	70231685.00	VY	2514.773651
	LONM	43.45012712					Z	-7636111.750	VZ	-336.7495460
	A	-11821777.87	ASND	282.8955497						
1"	ECC	1.536177560	ARGP	116.2562837						

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INCL	175.0373764	MA	41.87023544						
LTDE	-3.865414112	LONE	-1.565423697	LTDS	-1.412302717	LONS	79.32399463		

SELENOCENTRIC

ALT	96704766.00	R	102407161.0	VI	4244.585266	X	20627573.50	VX	344.5760307
LTDM	-25.66869950					Y	-89966523.00	VY	-3785.494506
LONM	-77.08639049					Z	-44359379.50	VZ	-1888.862960
A	-11821777.37	ASND	175.1423530						
ECC	1.536177575	ARGP	130.7489604						
INCL	153.2209835	MA	41.87031602						
WT	26075.50830	DVV	.0162447358						
VINF	3825.848419	THIN	130.6145019	B	13785633.50	DCA	6338571.937		
ALIN	274.7979049	TFFI	7.331248343	B.T	-13782658.12	TCA	-1.216060638		
DLIN	-26.45160102			B.R	286402.5859	TMFL	360.0000000		
XP	-5.959650278	ELAT	.0571913994	ELK	58.21851062	VERA	-129.8067646	VEDC	-21.44491171
YP	59.38200092	ELON	.0997821176	SLK	177.6521186	VSRA	-40.06085872	VSDC	-15.60347223
	NOT ECLIPSED	SVE	84.12746143	TLK	33.60406398	VTRA	102.9136066	VTDC	25.66869950

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	47.061	137.244	62.719	119.018	48.137
VEGA	278.921	38.748	75.522	115.475	66.522	114.088	75.246
B-CAPRICORNI	304.734	-14.900	70.502	156.924	14.683	167.512	76.220
A-PAVONIS	305.683	-56.856	64.302	144.793	42.643	138.485	70.803
DENEB	310.042	45.147	58.250	104.991	61.412	118.137	98.664

7 FEB. 1968 9 HR 25 MIN 40.66 SEC TMST 369077.6835 J.D. 2439893.8928 4 DAY 6 HR 31.3 MIN

GEOCENTRIC

ALT	1220725120.	R	1241641296.	VI	3447.057464	X	738747992.0	VX	-2363.180541
77 LTDM	21.62050271	RASC	50.25105762	FPVI	-82.67004013	Y	888281264.0	VY	-2302.367950
LONM	132.2558803	DECL	21.48901935	AZVI	51.61917448	Z	454841668.0	VZ	-998.3410110
A	1304364176.	ASND	25.43040275	VVEN	-10791877.62	APOG	424149.9257	VAPG	210.1761322
ECC	.9918468445	ARGP	204.6934375	ARGL	32.37780189	PERG	-1691.073471	VPER	51346.82763

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INCL	43.16308355	MA	-30.45926928	TA	187.6843624	PERD	41579.47119	EARTH	ELLIPSE

SELENOGRAPHIC

ALT	111791691.0	R	117494086.0	VI	4194.805175	X	87079727.00	VX	3392.212066
LTDM	-4.315629124					Y	78382445.00	VY	2445.070678
LONM	41.99109745					Z	-8841516.250	VZ	-333.0425872
A	-11810626.87	ASND	282.4560966						
ECC	1.543845489	ARGP	116.6632156						
INCL	175.0428218	MA	109.3518295						
LTDE	-3.911851316	LONE	-1.622016310	LTDS	-1.412038162	LONS	78.81639862		

SELENOCENTRIC

ALT	111791691.0	R	117494086.0	VI	4194.805175	X	21842610.25	VX	330.9440689
LTDM	-25.78998947					Y	-103511590.0	VY	-3741.663970
LONM	-78.08447265					Z	-51118598.50	VZ	-1867.302474
A	-11810626.25	ASND	175.1655235						
ECC	1.543845504	ARGP	131.0663852						
INCL	153.2238731	MA	109.3518142						
WT	26075.50830	DVV	.0122092303						
VINF	3827.654144	THIN	130.3709106	B	13891713.12	DCA	6423156.000		
ALIN	274.7386093	TFFI	6.477128088	B.T	-13888892.87	TCA	-1.274188995		
DLIN	-26.45430922			B.R	279891.2773	TMFL	420.0000000		
XP	-5.922616541	ELAT	.0577015043	ELK	98.28159141	VERA	-129.7489395	VEDC	-21.48901963
YP	58.79436349	ELON	.1001492860	SLK	177.6084575	VSRA	-40.01767444	VSDC	-15.59016811
	NOT ECLIPSED	SVE	84.10794353	TLK	34.51111221	VTRA	101.9155254	VTDC	25.78998947

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	47.052	137.561	62.752	119.018	48.522
VEGA	278.921	38.748	75.525	115.401	66.534	114.088	75.497
B-CAPRICORNI	304.734	-14.900	70.443	156.049	14.725	167.512	76.854
A-PAVONIS	305.683	-56.856	64.235	144.570	42.664	138.485	71.308
DENEB	310.042	45.147	98.243	104.573	61.405	118.137	98.960

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7 FEB. 1968 10 HR 25 MIN 40.66 SEC TMST 372677.6835 J.D. 2439893.9345 4 DAY 7 HR 31.3 MIN

GEOCENTRIC

ALT	12C8408848.	R	1229324976.	VI	3456.936279	X	73C190768.0	VX	-2390.455657
77 LTDM	21.66723227	RASC	50.31589365	FPVI	-82.16150283	Y	880015608.0	VY	-2291.192169
LONM	117.279664C	DECL	21.53552079	AZVI	53.01272773	Z	451258132.0	VZ	-993.2615280
A	1285429920.	ASND	24.33341165	VVEN	-1C950841.12	APOG	417694.9218	VAPG	226.4977855
ECC	.9906743169	ARGP	205.0789184	ARGL	33.26168918	PERG	-1468.426574	VPER	48348.55664
INCL	42.01183986	MA	-30.7685163C	TA	188.1827659	PERD	40677.40820	EARTH	ELLIPSE

SELENOGRAPHIC

ALT	126742698.0	R	132445093.C	VI	4157.001708	X	100073051.0	VX	3389.521942
LTDM	-4.345427155					Y	86176446.00	VY	2383.852844
LONM	40.73290443					Z	-10035275.12	VZ	-330.2268180
A	-11797124.37	ASND	282.0483818						
ECC	1.55391404C	ARGP	117.1803503						
INCL	175.0495147	MA	177.1940364						
LTDE	-3.958009421	LONE	-1.677023723	LTDS	-1.411768317	LONS	78.31019592		

SELENOCENTRIC

ALT	126742698.C	R	132445093.C	VI	4157.0C1708	X	23C13074.50	VX	319.5808105
LTDM	-25.87976717					Y	-116919136.0	VY	-3708.432830
LONM	-78.864871C2					Z	-57810177.50	VZ	-1850.961334
A	-11797124.00	ASND	175.1950035						
ECC	1.553914055	ARGP	131.4693927						
INCL	153.2273426	MA	177.1940574						
WT	26075.5C83C	DVV	.CC94766692						
VINF	3829.843963	THIN	130.056015C	B	14031389.75	DCA	6534592.750		
ALIN	274.6696548	TFFI	5.830807805	B.T	-14028764.25	TCA	-1.340488433		
DLIN	-26.45745491			B.R	271421.0351	TMFL	48C.0000C00		
XP	-5.89213705C	ELAT	.058224019C	ELK	98.35155296	VERA	-129.6841C30	VEDC	-21.53552079
YP	58.20574522	ELON	.1006367914	SLK	177.5647850	VSRA	-39.97448825	VSDC	-15.57685375
	NOT ECLIPSED	SVE	84.C8154773	TLK	35.219C5422	VTRA	101.1351270	VTDC	25.87976717

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STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	47.040	137.800	62.784	119.018	48.813
VEGA	278.921	38.748	75.525	115.339	66.546	114.088	75.689
B-CAPRICORNI	304.734	-14.900	70.376	155.365	14.766	167.512	77.320
A-PAVONIS	305.683	-56.856	64.162	144.382	42.685	138.485	71.676
DENEB	310.042	45.147	98.234	104.245	61.397	118.137	99.183

7 FEB. 1968 11 HR 25 MIN 40.66 SEC TMST 376277.6835 J.D. 2439893.9761 4 DAY 8 HR 31.3 MIN

GEOCENTRIC

	ALT	1196060864.	R	1216976960.	VI	3472.104949	X	721538320.0	VX	-2416.285003
77	LTDM	21.71608185	RASC	50.38662910	FPVI	-81.75508689	Y	871775704.0	VY	-2287.603240
	LONM	102.3093204	DECL	21.58413195	AZVI	54.00260448	Z	447685716.0	VZ	-991.9430770
	A	1270663232.	ASND	23.53016328	VVEN	-11078103.25	APOG	412649.6406	VAPG	239.6758975
	ECC	.9896826744	ARGP	205.3483963	ARGL	33.94408035	PERG	-1283.714096	VPER	46221.18164
	INCL	41.20898723	MA	-30.90029120	TA	188.5956821	PERD	39978.48828	EARTH	ELLIPSE

SELENOGRAPHIC

ALT	1415876040	R	147289998.0	VI	4127.613586	X	113139387.0	VX	3392.504150
LTDM	-4.368847668					Y	93637233.00	VY	2328.195770
LONM	39.61208105					Z	-11220096.87	VZ	-328.0463714
A	-11781154.00	ASND	281.6728324						
ECC	1.566749453	ARGP	117.8162574						
INCL	175.0574455	MA	245.4646263						
LTDE	-4.003886640	LONE	-1.731147572	LTCS	-1.411495134	LCNS	77.80468082		

SELENOCENTRIC

ALT	1415876040	R	147289998.0	VI	4127.613586	X	24145075.00	VX	309.4559669
2" LTDM	-25.94904303					Y	-130221220.0	VY	-3682.669036
LONM	-79.49574565					Z	-64449923.50	VZ	-1838.309265
A	-11781153.37	ASND	175.2309379						
ECC	1.566749960	ARGP	131.9656009						
INCL	153.2313728	MA	245.4646644						

1"

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WT	26075.50830	CVV	.0075388917						
VINF	3832.438903	THIN	129.6624851	B	14209365.87	DCA	6676968.125		
ALIN	274.5908851	THFI	5.329750239	B.T	-14206974.37	TCA	-1.411460876		
DLIN	-26.46104431			B.R	260681.2695	TMFL	540.0000000		
XP	-5.866808116	ELAT	.0587588022	ELK	98.42732048	VERA	-129.6133689	VEDC	-21.58413171
YP	57.61509227	ELON	.1012260755	SLK	177.5211105	VSRA	-39.[illegible]31065	VSDC	-15.56353139
	NOT ECLIPSED	SVE	84.04934024	TLK	35.79057168	VTRA	100.5042514	VTDC	25.94904303

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	47.025	137.986	62.817	119.018	49.037
VEGA	278.921	38.748	75.524	115.286	66.558	114.088	75.839
B-CAPRICORNI	304.734	-14.900	70.303	154.812	14.808	167.512	77.671
A-PAVONIS	305.683	-56.856	64.084	144.222	42.707	138.485	71.949
DENEB	310.042	45.147	98.223	103.979	61.390	118.137	99.355

7 FEB. 1968 12 HR 25 MIN 40.66 SEC TMST 379877.6835 J.D. 2439894.0178 4 DAY 9 HR 31.3 MIN

GEOCENTRIC

	ALT	1183662832.	R	1204578880.	VI	3491.302001	X	712794520.0	VX	-2441.264923
77	LTDM	21.76687145	RASC	50.46254539	FPVI	-81.42326927	Y	863538136.0	VY	-2289.652404
	LONM	87.34418201	DECL	21.63467383	AZVI	54.74442386	Z	444112780.0	VZ	-993.4320220
	A	1258797520.	ASND	22.91723513	VVEN	-11182528.12	APOG	408589.0820	VAPG	250.5205192
	ECC	.9888378978	ARGP	205.5451641	ARGL	34.49408864	PERG	-1128.848632	VPER	44637.17382
	INCL	40.61867618	MA	-30.90105104	TA	188.9489212	PERD	39419.80615	EARTH	ELLIPSE

SELENOGRAPHIC

ALT	156348400.0	R	162050796.0	VI	4104.431579	X	126297942.0	VX	3399.839294
LTDM	-4.387799739					Y	100774898.0	VY	2276.170654
LONM	38.58685636					Z	-12397974.87	VZ	-326.3415565

A	-11762586.87	ASND	281.3268013
ECC	1.582742586	ARGP	118.5774173
INCL	175.0665454	MA	314.2352638

LTDE	-4.049483776	LONE	-1.787121325	LTDS	-1.411222189	LONS	77.29711437

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SELENOCENTRIC

ALT	156348400.0	R	162050796.0	VI	4104.431579	X	25241920.75	VX	299.9722061
LTDM	-26.00427961					Y	-143440952.0	VY	-3662.424713
LONM	-80.01959800					Z	-71049273.00	VZ	-1828.393066
A	-11762586.62	ASND	175.2732868						
ECC	1.582745477	ARGP	132.5613822						
INCL	153.2359294	MA	314.2353553						
WT	26075.50830	DVV	.0061218191						
VINF	3835.462493	THIN	129.1840457	B	14430546.12	DCA	6854594.187		
ALIN	274.5021324	TFFI	4.935125827	B.T	-14428426.25	TCA	-1.482147216		
DLIN	-26.46508526			B.R	247336.4843	TMFL	600.0000000		
XP	-5.845649004	ELAT	.0593058797	ELK	98.50819110	VERA	-129.5374526	VEDC	-21.63467383
YP	57.02160787	ELON	.1019047405	SLK	177.4774284	VSRA	-39.88813018	VSDC	-15.55019783
	NOT ECLIPSED	SVE	84.01203155	TLK	36.26461458	VTRA	99.98040008	VTDC	26.00427961

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	47.009	138.136	62.850	119.018	49.212
VEGA	278.921	38.748	75.522	115.240	66.571	114.088	75.958
B-CAPRICORNI	304.734	-14.900	70.226	154.352	14.849	167.512	77.937
A-PAVONIS	305.683	-56.856	64.001	144.084	42.728	138.485	72.152
DENEB	310.042	45.147	98.209	103.757	61.383	118.137	99.491

GEOCENTRIC PHASE

7 FEB. 1968 12 HR 25 MIN 40.66 SEC TMST 379877.6835 J.D. 2439894.0178 4 DAY 9 HR 31.3 MIN

GEOCENTRIC

2"	ALT	1183662832.	R	1204578880.	VI	3491.302001	X	712794520.0	VX	-2441.264923
77	LTDM	21.76687145	RASC	50.46254539	FPVI	-81.42326927	Y	863538136.0	VY	-2289.652404
	LONM	87.34418201	DECL	21.63467383	AZVI	54.74442386	Z	444112780.0	VZ	-993.4320220
	A	1258797520.	ASND	22.91723513	VVEN	-11182528.12	AFOG	408589.0820	VAPG	250.5205192
	ECC	.9888378978	ARGP	205.5451641	ARGL	34.49408864	PERG	-1128.848632	VPER	44637.17382
1"	INCL	40.61867618	MA	-30.90105104	TA	188.9489212	PERD	39419.80615	EARTH	ELLIPSE

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WT	26075.50830	DVV	.0070064732						
XP	-5.845649004	ELAT	.0593058797	ELK	98.50819110	VERA	-129.5374526	VEDC	-21.63467383
YP	56.29408788	ELON	.1019047405	SLK	177.4774494	VSRA	-39.88812971	VSDC	-15.55019783
	NOT ECLIPSED	SVE	84.01203250	TLK	36.26461505	VTRA	99.98039817	VTDC	26.00428032

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	47.009	138.136	62.850	119.018	49.212
VEGA	278.921	38.748	75.522	115.240	66.571	114.088	75.958
B-CAPRICORNI	304.734	-14.900	70.226	154.352	14.849	167.512	77.937
A-PAVONIS	305.683	-56.856	64.001	144.084	42.728	138.485	72.152
DENEB	310.042	45.147	98.209	103.757	61.383	118.137	99.491

7 FEB. 1968 13 HR 25 MIN 40.66 SEC TMST 383477.6835 J.D. 2439894.0595 4 DAY 10 HR 31.3 MIN

GEOCENTRIC

	ALT	1171200432.	R	1192116432.	VI	3513.707733	X	703961752.0	VX	-2465.767181
77	LTDM	21.81948018	RASC	50.54313564	FPVI	-81.14744567	Y	855285008.0	VY	-2296.065551
	LONM	72.38369369	DECL	21.68702721	AZVI	55.32319879	Z	440530396.0	VZ	-997.1044540
	A	1249037920.	ASND	22.43466448	VVEN	-11269904.75	APOG	405245.4570	VAPG	259.5878295
	ECC	.9881125316	ARGP	205.6937847	ARGL	34.95300292	PERG	-997.6674118	VPER	43414.61132
	INCL	40.16742801	MA	-30.80211400	TA	189.2592163	PERD	38962.25683	EARTH	ELLIPSE
	WT	26075.50830	DVV	.0072586455						
	XP	-5.827943801	ELAT	.0598653885	ELK	98.59367656	VERA	-129.4568614	VEDC	-21.68702721
	YP	55.69714689	ELON	.1026642695	SLK	177.4337387	VSRA	-39.84494781	VSDC	-15.53685426
		NOT ECLIPSED	SVE	83.97011280	TLK	36.66675853	VTRA	99.53560256	VTDC	26.04951214

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.991	138.261	62.883	119.018	49.350
VEGA	278.921	38.748	75.519	115.200	66.583	114.088	76.055
B-CAPRICORNI	304.734	-14.900	70.144	153.962	14.891	167.512	78.139
A-PAVONIS	305.683	-56.856	63.915	143.963	42.749	138.485	72.302
DENEB	310.042	45.147	98.194	103.569	61.375	118.137	99.599

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MIDCOURSE TIME NO. 2

7 FEB. 1968 14 HR 25 MIN 40.66 SEC TMST 387077.6835 J.D. 2439894.1011 4 DAY 11 HR 31.3 MIN

GEOCENTRIC

	ALT	1158662080.	R	1179578032.	VI	3538.766754	X	695041160.0	VX	-2490.035278
77	LTDM	21.87383317	RASC	50.62806034	FPVI	-80.91460418	Y	847002360.0	VY	-2305.974426
	LONM	57.42754364	DECL	21.74111604	AZVI	55.78929424	Z	436931544.0	VZ	-1002.535041
	A	1240857232.	ASND	22.04528307	VVEN	-11344204.87	APOG	402440.5429	VAPG	267.2714042
	ECC	.9874848872	ARGP	205.8091373	ARGL	35.34699869	PERG	-885.4955368	VPER	42444.51367
	INCL	39.81199026	MA	-30.62549400	TA	189.5378589	PERD	38580.10351	EARTH	ELLIPSE
	WT	25819.50830	DVV	.0076352009						
	XP	-5.813154459	ELAT	.0604375554	ELK	98.68344402	VERA	-129.3719367	VEDC	-21.74111604
	YP	55.09623336	ELON	.1034987857	SLK	177.3900375	VSRA	-39.80175685	VSDC	-15.52349674
		NOT ECLIPSED	SVE	83.92391967	TLK	37.01450300	VTRA	99.15068054	VTDC	26.08738493

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.972	138.366	62.916	119.018	49.460
VEGA	278.921	38.748	75.514	115.164	66.595	114.088	76.134
B-CAPRICORNI	304.734	-14.900	70.058	153.625	14.932	167.512	78.292
A-PAVONIS	305.683	-56.856	63.825	143.855	42.771	138.485	72.411
DENEB	310.042	45.147	98.177	103.405	61.368	118.137	99.687

7 FEB. 1968 15 HR 25 MIN 40.66 SEC TMST 390677.6835 J.D. 2439894.1428 4 DAY 12 HR 31.3 MIN

GEOCENTRIC

	ALT	1146038080.	R	1166954000.	VI	3566.095275	X	686033456.0	VX	-2514.239257
77	LTDM	21.92988061	RASC	50.71706485	FPVI	-80.71537590	Y	838678616.0	VY	-2318.770324
	LONM	42.47549057	DECL	21.79689192	AZVI	56.17440891	Z	433310416.0	VZ	-1009.426017
	A	1233893088.	ASND	21.72483015	VVEN	-11408232.00	APOG	400051.5117	VAPG	273.8571586
	ECC	.9869378656	ARGP	205.9006156	ARGL	35.69337654	PERG	-788.7545471	VPER	41657.59912
	INCL	39.52542209	MA	-30.38707423	TA	189.7927570	PERD	38255.77197	EARTH	ELLIPSE
	WT	25819.50830	DVV	.0080586504						

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XP	-5.800861895	ELAT	.0610227044	ELK	98.77724838	VERA	-129.2829322	VEDC	-21.79689168
YP	54.49091529	ELON	.1044041971	SLK	177.3463325	VSRA	-39.75856685	VSDC	-15.51012921
	NOT ECLIPSED	SVE	83.87369155	TLK	37.32028388	VTRA	98.81198978	VTDC	26.11970472

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.951	138.458	62.949	119.018	49.547
VEGA	278.921	38.748	75.509	115.132	66.607	114.088	76.199
B-CAPRICORNI	304.734	-14.900	69.968	153.328	14.974	167.512	78.406
A-PAVONIS	305.683	-56.856	63.731	143.758	42.792	138.485	72.487
DENEB	310.042	45.147	98.159	103.262	61.361	118.137	99.758

7 FEB. 1968 16 HR 25 MIN 40.66 SEC TMST 394277.6835 J.D. 2439894.1845 4 DAY 13 HR 31.3 MIN

GEOCENTRIC

ALT	1133320064.	R	1154235936.	VI	3595.422668	X	676938560.0	VX	-2538.501770
77 LTDM	21.98760056	RASC	50.80999183	FPVI	-80.54284667	Y	830304280.0	VY	-2334.017120
LONM	27.52734065	DECL	21.85433268	AZVI	56.49949645	Z	429662184.0	VZ	-1017.564315
A	1227887424.	ASND	21.45681309	VVEN	-11464030.25	APOG	397990.6328	VAPG	279.5570411
ECC	.986457996C	ARGP	205.9744968	ARGL	36.00409936	PERG	-704.6911544	VPER	41007.83886
INCL	39.28991842	MA	-30.09863877	TA	190.0296001	PERD	37976.81103	EARTH	ELLIPSE
WT	25819.50830	DVV	.0084942117						

XP	-5.790734171	ELAT	.0616211993	ELK	98.87493419	VERA	-129.1900062	VEDC	-21.85433268
YP	53.88081455	ELON	.1053777588	SLK	177.3026103	VSRA	-39.71537303	VSDC	-15.49674904
	NOT ECLIPSED	SVE	83.81958389	TLK	37.59316968	VTRA	98.50955963	VTDC	26.14774298

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.929	138.538	62.982	119.018	49.615
VEGA	278.921	38.748	75.503	115.103	66.620	114.088	76.253
B-CAPRICORNI	304.734	-14.900	69.874	153.063	15.015	167.512	78.488
A-PAVONIS	305.683	-56.856	63.634	143.669	42.814	138.485	72.537
DENEB	310.042	45.147	98.140	103.133	61.353	118.137	99.816

7 FEB. 1968 17 HR 25 MIN 40.66 SEC TMST 397877.6835 J.D. 2439894.2261 4 DAY 14 HR 31.3 MIN

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GEOCENTRIC

	ALT	1120500624.	R	1141416448.	VI	3626.556304	X	667755944.0	VX	-2562.915710
77	LTDM	22.04698681	RASC	50.90674638	FPVI	-80.39179801	Y	821871208.0	VY	-2351.396514
	LONM	12.58304011	DECL	21.91343235	AZVI	56.77897644	Z	425982668.0	VZ	-1026.794952
	A	1222651376.	ASND	21.22961711	VVEN	-11513125.50	APOG	396193.5976	VAPG	284.5319480
	ECC	.9860345274	ARGP	206.0350666	ARGL	36.28767776	PERG	-631.1494445	VPER	40463.38378
	INCL	39.09333658	MA	-29.76911282	TA	190.2526073	PERD	37734.15478	EARTH	ELLIPSE
	WT	25819.50830	DVV	.0089276485						
	XP	-5.782499611	ELAT	.0622334606	ELK	98.97641086	VERA	-129.0932502	VEDC	-21.91343235
	YP	53.26559543	ELON	.1064176932	SLK	177.2588882	VSRA	-39.67216491	VSDC	-15.48335444
		NOT ECLIPSED	SVE	83.76170158	TLK	37.83994913	VTRA	98.23592281	VTDC	26.17243433

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.906	138.609	63.015	119.018	49.668
VEGA	278.921	38.748	75.497	115.076	66.632	114.088	76.298
B-CAPRICORNI	304.734	-14.900	69.776	152.823	15.057	167.512	78.544
A-PAVONIS	305.683	-56.856	63.533	143.588	42.836	138.485	72.565
DENEB	310.042	45.147	98.119	103.017	61.346	118.137	99.863

7 FEB. 1968 18 HR 25 MIN 40.66 SEC TMST 401477.6835 J.D. 2439894.2678 4 DAY 15 HR 31.3 MIN

GEOCENTRIC

	ALT	1107573104.	R	1128488864.	VI	3659.358947	X	658485184.0	VX	-2587.555236
77	LTDM	22.10804486	RASC	51.00725412	FPVI	-80.25821685	Y	813372024.0	VY	-2370.672698
	LONM	-2.357531964	DECL	21.97419595	AZVI	57.02308034	Z	422268112.0	VZ	-1037.003814
	A	1218043232.	ASND	21.03481674	VVEN	-11556682.25	APOG	394612.0820	VAPG	288.9056777
	ECC	.9856588617	ARGP	206.0853824	ARGL	36.55035352	PERG	-566.4334259	VPER	40001.57470
2"	INCL	38.92705345	MA	-29.40540528	TA	190.4649696	PERD	37521.02734	EARTH	ELLIPSE
	WT	25819.50830	DVV	.0093542842						
	XP	-5.775936543	ELAT	.0628599776	ELK	99.08160591	VERA	-128.9927425	VEDC	-21.97419595
	YP	52.64494657	ELON	.1075230716	SLK	177.2151412	VSRA	-39.62895870	VSDC	-15.46994912
1"		NOT ECLIPSED	SVE	83.70009803	TLK	38.06581211	VTRA	97.98536109	VTDC	26.19446420

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STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.881	138.674	63.048	119.018	49.709
VEGA	278.921	38.748	75.490	115.052	66.644	114.088	76.334
B-CAPRICORNI	304.734	-14.900	69.675	152.603	15.099	167.512	78.579
A-PAVONIS	305.683	-56.856	63.429	143.512	42.857	138.485	72.574
DENEB	310.042	45.147	98.098	102.911	61.339	118.137	99.901

7 FEB. 1968 19 HR 25 MIN 40.66 SEC TMST 405077.6835 J.D. 2439894.3095 4 DAY 16 HR 31.3 MIN

GEOCENTRIC

	ALT	109453128.	R	1115446992.	VI	3693.734436	X	649125200.0	VX	-2612.480438
77	LTDM	22.17079401	RASC	51.11150550	FPVI	-80.13892555	Y	804800320.0	VY	-2391.671295
	LONM	-17.29433584	DECL	22.03664398	AZVI	57.23930120	Z	418515172.0	VZ	-1048.107055
	A	1213954688.	ASND	20.86616992	VVEN	-11595604.50	APOG	393209.0390	VAPG	292.7763786
	ECC	.9853239208	ARGP	206.12754444	ARGL	36.79674673	PERG	-509.1651344	VPER	39605.66943
	INCL	38.78499031	MA	-29.01293587	TA	190.6691989	PERD	37332.26855	EARTH	ELLIPSE
	WT	25819.50830	DVV	.009773796E						
	XP	-5.770854711	ELAT	.0635012723	ELK	99.19050979	VERA	-128.8884925	VEDC	-22.03664398
	YP	52.01858234	ELON	.1086935280	SLK	177.1713886	VSRA	-39.58574247	VSDC	-15.45652973
		NOT ECLIPSED	SVE	83.63479614	TLK	38.27481365	VTRA	97.75340938	VTDC	26.21434879

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.856	138.732	63.081	119.018	49.738
VEGA	278.921	38.748	75.482	115.028	66.657	114.088	76.365
B-CAPRICORNI	304.734	-14.900	69.571	152.400	15.140	167.512	78.594
A-PAVONIS	305.683	-56.856	63.322	143.441	42.879	138.485	72.568
DENEB	310.042	45.147	98.075	102.812	61.331	118.137	99.931

MIDCOURSE TIME NO. 3

7 FEB. 1968 20 HR 25 MIN 40.66 SEC TMST 408677.6835 J.D. 2439894.3511 4 DAY 17 HR 31.3 MIN

GEOCENTRIC

	ALT	1081369344.	R	1102285008.	VI	3729.617248	X	639674904.0	VX	-2637.742980

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77	LTDM	22.23526573	RASC	51.21950912	FPVI	-80.03143119	Y	796150096.0	VY	-2414.262786
	LONM	-32.22741031	DECL	22.10080623	AZVI	57.43323755	Z	414720744.0	VZ	-1060.043273
	A	1210301248.	ASND	20.71893501	VVEN	-11630607.37	APOG	391955.5664	VAPG	296.2209167
	ECC	.9850240350	ARGP	206.1632423	ARGL	37.03049278	PERG	-458.2553024	VPER	39263.28857
	INCL	38.66240596	MA	-28.59603309	TA	190.8672466	PERD	37163.86621	EARTH	ELLIPSE
	WT	25563.50830	CVV	.0101877878						
	XP	-5.767096221	ELAT	.0641579432	ELK	99.30312919	VERA	-128.7804889	VEDC	-22.10080623
	YP	51.38622999	ELON	.1099293306	SLK	177.1275978	VSRA	-39.54251909	VSDC	-15.44309794
		NOT ECLIPSED	SVE	83.56578445	TLK	38.47016048	VTRA	97.53652668	VTDC	26.23250102

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.830	138.787	63.114	119.018	49.759
VEGA	278.921	38.748	75.474	115.007	66.669	114.088	76.390
B-CAPRICORNI	304.734	-14.900	69.462	152.210	15.182	167.512	78.594
A-PAVONIS	305.683	-56.856	63.211	143.373	42.900	138.485	72.548
DENEB	310.042	45.147	98.051	102.720	61.324	118.137	99.955

7 FEB. 1968 21 HR 25 MIN 40.66 SEC TMST 412277.6835 J.D. 2439894.3928 4 DAY 18 HR 31.3 MIN

	GEOCENTRIC									
	ALT	1068081736.	R	1088997328.	VI	3766.965728	X	630132888.0	VX	-2663.388000
77	LTDM	22.30149912	RASC	51.33131122	FPVI	-79.93371200	Y	787415888.0	VY	-2438.352569
	LONM	-47.15666055	DECL	22.16672229	AZVI	57.60917186	Z	410881944.0	VZ	-1072.768356
	A	1207016176.	ASND	20.58946633	VVEN	-11662261.75	APOG	390828.8203	VAPG	299.3014297
	ECC	.9847545028	ARGP	206.1937313	ARGL	37.25442790	PERG	-412.8096923	VPER	38964.93847
	INCL	38.55572557	MA	-28.15818381	TA	191.0606937	PERD	37012.66113	EARTH	ELLIPSE
2"	WT	25563.50830	CVV	.0105986467						
	XP	-5.764520406	ELAT	.0648306170	ELK	99.41950988	VERA	-128.6686859	VEDC	-22.16672229
	YP	50.74762678	ELON	.1112311352	SLK	177.0838165	VSRA	-39.49928140	VSDC	-15.42965030
		NOT ECLIPSED	SVE	83.49302387	TLK	38.65441131	VTRA	97.33189105	VTDC	26.24923491

1"

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS

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A-OPHIUCHI	263.304	12.586	46.803	138.838	63.147	119.018	49.771
VEGA	278.921	38.748	75.465	114.986	66.681	114.088	76.410
B-CAPRICORNI	304.734	-14.900	69.350	152.031	15.224	167.512	78.580
A-PAVONIS	305.683	-56.856	63.096	143.309	42.922	138.485	72.517
DENEB	310.042	45.147	98.025	102.633	61.317	118.137	99.974

7 FEB. 1968 22 HR 25 MIN 40.66 SEC TMST 415877.6835 J.D. 2439894.4345 4 DAY 19 HR 31.3 MIN

GEOCENTRIC

	ALT	1054663040.	R	1075578576.	VI	3805.757415	X	620497880.0	VX	-2689.457458
77	LTDM	22.36953806	RASC	51.44696378	FPVI	-79.84410667	Y	778592328.0	VY	-2463.872161
	LONM	-62.08208513	DECL	22.23443627	AZVI	57.77043533	Z	406995928.0	VZ	-1086.251434
	A	1204045840.	ASND	20.47488570	VVEN	-11691032.12	APOG	389810.3906	VAPG	302.0685615
	ECC	.9845114127	ARGP	206.2199554	ARGL	37.47080516	PERG	-372.0916938	VPER	38703.23974
	INCL	38.46222066	MA	-27.70224308	TA	191.2508468	PERD	36876.11816	EARTH	ELLIPSE
	WT	25563.50830	DVV	.0110090270						
	XP	-5.763003468	ELAT	.0655199755	ELK	99.53970146	VERA	-128.5530319	VEDC	-22.23443651
	YP	50.10251426	ELON	.1126000210	SLK	177.0400142	VSRA	-39.45603895	VSDC	-15.41618978
		NOT ECLIPSED	SVE	83.41645622	TLK	38.82969236	VTRA	97.13715457	VTDC	26.26480293

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.775	138.886	63.180	119.018	49.777
VEGA	278.921	38.748	75.456	114.966	66.694	114.088	76.426
B-CAPRICORNI	304.734	-14.900	69.235	151.860	15.265	167.512	78.554
A-PAVONIS	305.683	-56.856	62.979	143.246	42.944	138.485	72.475
DENEB	310.042	45.147	97.999	102.550	61.310	118.137	99.987

7 FEB. 1968 23 HR 25 MIN 40.66 SEC TMST 419477.6835 J.D. 2439894.4761 4 DAY 20 HR 31.3 MIN

GEOCENTRIC

	ALT	1041107976.	R	1062023456.	VI	3845.985809	X	610768216.0	VX	-2715.990234
77	LTDM	22.43944001	RASC	51.56655597	FPVI	-79.76121520	Y	769674368.0	VY	-2490.775573
	LONM	-77.00354862	DECL	22.30400538	AZVI	57.91966819	Z	403060044.0	VZ	-1100.472946

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A	1201346896.	ASND	20.37292170	VVEN	-11717297.12	APOG	388885.3945	VAPG	304.5647773
ECC	.9842914045	ARGP	206.2425518	ARGL	37.68138265	PERG	-335.4723663	VPER	38472.26611
INCL	38.37994098	MA	-27.23056554	TA	191.4388275	PERD	36752.19726	EARTH	ELLIPSE
WT	25563.50830	DVV	.0114216177						
XP	-5.762435972	ELAT	.0662267813	ELK	99.66378879	VERA	-128.4334411	VEDC	-22.30400538
YP	49.45063924	ELON	.1140374774	SLK	176.9962043	VSRA	-39.41278839	VSDC	-15.40271615
	NOT ECLIPSED	SVE	83.33600044	TLK	38.99772644	VTRA	96.95041275	VTDC	26.27941107

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.746	138.931	63.213	119.018	49.777
VEGA	278.921	38.748	75.446	114.946	66.706	114.088	76.439
B-CAPRICORNI	304.734	-14.900	69.115	151.696	15.307	167.512	78.517
A-PAVONIS	305.683	-56.856	62.857	143.186	42.966	138.485	72.424
DENEB	310.042	45.147	97.972	102.471	61.303	118.137	99.997

8 FEB. 1968 HR 25 MIN 40.66 SEC TMST 423077.6835 J.D. 2439894.5178 4 DAY 21 HR 31.3 MIN

GEOCENTRIC									
ALT	1027411296.	R	1048326704.	VI	3887.657409	X	600942120.0	VX	-2743.023712
77 LTDM	22.51126861	RASC	51.69019794	FPVI	-79.68390655	Y	760657136.0	VY	-2519.034362
LONM	-91.92098522	DECL	22.37549233	AZVI	58.05899906	Z	399071652.0	VZ	-1115.422256
A	1198883648.	ASND	20.28173303	VVEN	-11741371.87	APOG	388041.5781	VAPG	306.8240661
ECC	.9840917736	ARGP	206.2622070	ARGL	37.88775920	PERG	-302.4512252	VPER	38267.44042
INCL	38.30699157	MA	-26.74510645	TA	191.6255493	PERD	36639.22021	EARTH	ELLIPSE
WT	25563.50830	DVV	.0118390580						
XP	-5.762716293	ELAT	.0669518346	ELK	99.79187870	VERA	-128.3097991	VEDC	-22.37549233
2" YP	48.79175138	ELON	.1155452942	SLK	176.9523601	VSRA	-39.36952447	VSDC	-15.38922691
	NOT ECLIPSED	SVE	83.25155162	TLK	39.15995359	VTRA	96.77007293	VTDC	26.29322719

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.717	138.974	63.246	119.018	49.771
1" VEGA	278.921	38.748	75.436	114.928	66.718	114.088	76.448

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B-CAPRICORNI	304.734	-14.900	68.992	151.538	15.349	167.512	78.471
A-PAVONIS	305.683	-56.856	62.732	143.128	42.987	138.485	72.364
DENEB	310.042	45.147	97.943	102.394	61.295	118.137	100.002

8 FEB. 1968 1 HR 25 MIN 40.66 SEC TMST 426677.6835 J.D. 2439894.5595 4 DAY 22 HR 31.3 MIN

GEOCENTRIC

	ALT	1013567696.	R	1034483040.	VI	3930.790588	X	591017680.0	VX	-2770.594512
77	LTDM	22.58509612	RASC	51.81802129	FPVI	-79.61119651	Y	751535784.0	VY	-2548.635131
	LONM	-106.8342218	DECL	22.44896984	AZVI	58.19016218	Z	395028156.0	VZ	-1131.096557
	A	1196626416.	ASND	20.19983148	VVEN	-11763520.00	APOG	387268.7382	VAPG	308.8752593
	ECC	.9839101881	ARGP	206.2793884	ARGL	38.09121561	PERG	-272.5997123	VPER	38085.01757
	INCL	38.24199962	MA	-26.24752545	TA	191.8118247	PERD	36535.79345	EARTH	ELLIPSE
	WT	25563.50830	DVV	.0122639150						
	XP	-5.763754427	ELAT	.0676960228	ELK	99.92409610	VERA	-128.1819763	VEDC	-22.44897007
	YP	48.12559175	ELON	.1171256993	SLK	176.9085083	VSRA	-39.32624673	VSDC	-15.37572216
		NOT ECLIPSED	SVE	83.16298675	TLK	39.31759834	VTRA	96.59477996	VTDC	26.30639100

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.686	139.016	63.279	119.018	49.760
VEGA	278.921	38.748	75.426	114.909	66.731	114.088	76.455
B-CAPRICORNI	304.734	-14.900	68.865	151.385	15.391	167.512	78.415
A-PAVONIS	305.683	-56.856	62.603	143.070	43.009	138.485	72.296
DENEB	310.042	45.147	97.913	102.320	61.288	118.137	100.004

8 FEB. 1968 2 HR 25 MIN 40.66 SEC TMST 430277.6835 J.D. 2439894.6011 4 DAY 23 HR 31.3 MIN

GEOCENTRIC

	ALT	999571904.0	R	1020487184.	VI	3975.414245	X	580993056.0	VX	-2798.740173
77	LTDM	22.66099977	RASC	51.95016241	FPVI	-79.54223823	Y	742305408.0	VY	-2579.576904
	LONM	-121.7431554	DECL	22.52451467	AZVI	58.31458950	Z	390926904.0	VZ	-1147.499420
	A	1194550640.	ASND	20.12597966	VVEN	-11783961.50	APOG	386558.4218	VAPG	310.7431907
	ECC	.9837445989	ARGP	206.2944335	ARGL	38.29282331	PERG	-245.5419616	VPER	37921.86474
	INCL	38.18391466	MA	-25.73920392	TA	191.9983863	PERD	36440.76757	EARTH	ELLIPSE

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WT	25563.50830	DVV	.012698697E						
XP	-5.765463829	ELAT	.0684602875	ELK	100.0605745	VERA	-128.0498352	VEDC	-22.52451491
YP	47.45190525	ELON	.1187812062	SLK	176.8646411	VSRA	-39.28296279	VSDC	-15.36220419
	NOT ECLIPSED	SVE	83.07016468	TLK	39.47171020	VTRA	96.42337226	VTDC	26.31901979

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.655	139.056	63.312	119.018	49.745
VEGA	278.921	38.748	75.415	114.891	66.743	114.088	76.459
B-CAPRICORNI	304.734	-14.900	68.733	151.235	15.432	167.512	78.351
A-PAVONIS	305.683	-56.856	62.470	143.013	43.031	138.485	72.222
DENEB	310.042	45.147	97.882	102.247	61.281	118.137	100.003

8 FEB. 1968 3 HR 25 MIN 40.66 SEC TMST 433877.6835 J.D. 2439894.6428 5 DAY HR 31.3 MIN

GEOCENTRIC

	ALT	985418480.0	R	1006333696.	VI	4021.567108	X	570865992.0	VX	-2827.497863
77	LTDM	22.73906898	RASC	52.08680009	FPVI	-79.47629547	Y	732961232.0	VY	-2611.870880
	LONM	-136.6475715	DECL	22.60221576	AZVI	58.43349456	Z	386765276.0	VZ	-1164.640914
	A	1192635424.	ASND	20.05916070	VVEN	-11802884.87	APOG	385903.4414	VAPG	312.4483871
	ECC	.9835933074	ARGP	206.3076725	ARGL	38.49355793	PERG	-220.9698886	VPER	37775.47021
	INCL	38.13178539	MA	-25.22133898	TA	192.1858844	PERD	36353.16503	EARTH	ELLIPSE
	WT	25563.50830	DVV	.0131458875						
	XP	-5.767762899	ELAT	.0692456392	ELK	100.2014837	VERA	-127.9131984	VEDC	-22.60221576
	YP	46.77042579	ELON	.1205146909	SLK	176.8207473	VSRA	-39.23966407	VSDC	-15.34866964
		NOT ECLIPSED	SVE	82.97292327	TLK	39.62317323	VTRA	96.25487518	VTDC	26.33120679

2"

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.622	139.096	63.345	119.018	49.726
VEGA	278.921	38.748	75.403	114.873	66.756	114.088	76.461
B-CAPRICORNI	304.734	-14.900	68.598	151.087	15.474	167.512	78.280
A-PAVONIS	305.683	-56.856	62.332	142.957	43.053	138.485	72.141
DENEB	310.042	45.147	97.850	102.176	61.274	118.137	100.000

1"

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8 FEB. 1968 4 HR 25 MIN 40.66 SEC TMST 437477.6835 J.D. 2439894.6845 5 DAY 1 HR 31.3 MIN

	GEOCENTRIC								
	ALT	971101912.0	R	992017064.0	VI	4069.297180	X	560634264.0	VX	-2856.906341
77	LTDM	22.81940150	RASC	52.22812175	FPVI	-79.41271591	Y	723498304.0	VY	-2645.538360
	LONM	-151.5473041	DECL	22.68217062	AZVI	58.54789686	Z	382540588.0	VZ	-1182.536499
	A	1190863040.	ASND	19.99852037	VVEN	-11820451.25	APOG	385297.6914	VAPG	314.0089073
	ECC	.9834547937	ARGP	206.3193302	ARGL	38.69425916	PERG	-198.6081905	VPER	37643.68115
	INCL	38.08488798	MA	-24.69494986	TA	192.3749256	PERD	36272.15820	EARTH	ELLIPSE
	WT	25563.50830	CVV	.0136079705						
	XP	-5.770575165	ELAT	.0700532160	ELK	100.3470029	VERA	-127.7718763	VEDC	-22.68217062
	YP	46.08088397	ELON	.1223294334	SLK	176.7768459	VSRA	-39.19635438	VSDC	-15.33512139
		NOT ECLIPSED	SVE	82.87107658	TLK	39.77277708	VTRA	96.08840942	VTDC	26.34303879

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.589	139.134	63.379	119.018	49.704
VEGA	278.921	38.748	75.391	114.855	66.768	114.088	76.461
B-CAPRICORNI	304.734	-14.900	68.458	150.941	15.516	167.512	78.202
A-PAVONIS	305.683	-56.856	62.190	142.901	43.075	138.485	72.053
DENEB	310.042	45.147	97.817	102.105	61.267	118.137	99.994

8 FEB. 1968 5 HR 25 MIN 40.66 SEC TMST 441077.6835 J.D. 2439894.7261 5 DAY 2 HR 31.3 MIN

	GEOCENTRIC								
	ALT	956616544.0	R	977531616.0	VI	4118.661621	X	550295344.0	VX	-2887.005279
77	LTDM	22.90210461	RASC	52.37435054	FPVI	-79.35092163	Y	713911728.0	VY	-2680.611022
	LONM	-166.4421329	DECL	22.76448583	AZVI	58.65869045	Z	378250104.0	VZ	-1201.207199
2"	A	1189218480.	ASND	19.94333648	VVEN	-11836797.75	APOG	384735.9843	VAPG	315.4399719
	ECC	.9833277687	ARGP	206.3296184	ARGL	38.89570283	PERG	-178.2249774	VPER	37524.72265
	INCL	38.04260396	MA	-24.16091632	TA	192.5660800	PERD	36197.04736	EARTH	ELLIPSE
	WT	25563.50830	CVV	.0140874773						
1"	XP	-5.773825645	ELAT	.0708841868	ELK	100.4973468	VERA	-127.6256475	VEDC	-22.76448583

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YP	45.38299846	ELON	.1242290810	SLK	176.7329044	VSRA	-39.15302562	VSDC	-15.32155489
	NOT ECLIPSED	SVE	82.76442146	TLK	39.92119312	VTRA	95.92323207	VTDC	26.35459065

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.555	139.172	63.412	119.018	49.678
VEGA	278.921	38.748	75.379	114.837	66.781	114.088	76.459
B-CAPRICORNI	304.734	-14.900	68.313	150.797	15.558	167.512	78.116
A-PAVONIS	305.683	-56.856	62.044	142.845	43.097	138.485	71.959
DENEB	310.042	45.147	97.782	102.034	61.260	118.137	99.985

8 FEB. 1968 6 HR 25 MIN 40.66 SEC TMST 444677.6835 J.D. 2439894.7678 5 DAY 3 HR 31.3 MIN

GEOCENTRIC

	ALT	941956432.0	R	962871440.0	VI	4169.726928	X	539846832.0	VX -2917.837493
77	LTDM	22.98729324	RASC	52.52571439	FPVI	-79.29041290	Y	704196248.0	VY -2717.129089
	LONM	178.6681308	DECL	22.84927630	AZVI	58.76664304	Z	373890956.0	VZ -1220.678924
	A	1187688640.	ASND	19.89299583	VVEN	-11852044.50	APOG	384213.8281	VAPG 316.7542877
	ECC	.9832111597	ARGP	206.3387870	ARGL	39.09865427	PERG	-159.6292972	VPER 37417.15478
	INCL	38.00424432	MA	-23.62000632	TA	192.7598628	PERD	36127.22216	EARTH ELLIPSE
	WT	25563.50830	DVV	.0145870262					

XP	-5.777438342	ELAT	.0717398776	ELK	100.6527309	VERA	-127.4742832	VEDC	-22.84927606
YP	44.67648077	ELON	.1262176428	SLK	176.6889629	VSRA	-39.10968589	VSDC	-15.30797410
	NOT ECLIPSED	SVE	82.65272998	TLK	40.06903362	VTRA	95.75866508	VTDC	26.36591959

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.520	139.209	63.445	119.018	49.648
VEGA	278.921	38.748	75.366	114.819	66.793	114.088	76.455
2" B-CAPRICORNI	304.734	-14.900	68.163	150.653	15.600	167.512	78.025
A-PAVONIS	305.683	-56.856	61.893	142.789	43.119	138.485	71.860
DENEB	310.042	45.147	97.746	101.964	61.253	118.137	99.974

8 FEB. 1968 7 HR 25 MIN 40.66 SEC TMST 448277.6835 J.D. 2439894.8095 5 DAY 4 HR 31.3 MIN

1" GEOCENTRIC

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	ALT	927115512.0	R	948030432.0	VI	4222.569091	X	529285960.0	VX	-2949.447174
77	LTDM	23.07509708	RASC	52.68248081	FPVI	-79.23068428	Y	694346608.0	VY	-2755.142944
	LONM	163.7838439	DECL	22.93667078	AZVI	58.87244129	Z	369460220.0	VZ	-1240.983169
	A	1186262240.	ASND	19.84697723	VVEN	-11866295.62	APOG	383727.3242	VAPG	317.9640159
	ECC	.9831039086	ARGP	206.3468761	ARGL	39.30371332	PERG	-142.6315536	VPER	37319.61816
	INCL	37.96955013	MA	-23.07288599	TA	192.9568347	PERD	36062.15917	EARTH	ELLIPSE
	WT	25563.50830	DVV	.0151093612						
	XP	-5.781339824	ELAT	.0726217115	ELK	100.8134107	VERA	-127.3175172	VEDC	-22.93667054
	YP	43.96102762	ELON	.1282996144	SLK	176.6449890	VSRA	-39.06633281	VSDC	-15.29437696
		NOT ECLIPSED	SVE	82.53574752	TLK	40.21684074	VTRA	95.59410667	VTDC	26.37708282

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.485	139.245	63.478	119.018	49.616
VEGA	278.921	38.748	75.353	114.801	66.806	114.088	76.450
B-CAPRICORNI	304.734	-14.900	68.009	150.508	15.642	167.512	77.927
A-PAVONIS	305.683	-56.856	61.737	142.732	43.141	138.485	71.755
DENEB	310.042	45.147	97.709	101.894	61.245	118.137	99.961

8 FEB. 1968 8 HR 25 MIN 40.66 SEC TMST 451877.6835 J.D. 2439894.8511 5 DAY 5 HR 31.3 MIN

GEOCENTRIC

	ALT	912087392.0	R	933002232.0	VI	4277.274169	X	518609804.0	VX	-2981.881439
77	LTDM	23.16565632	RASC	52.84494924	FPVI	-79.17131233	Y	684357368.0	VY	-2794.712463
	LONM	148.9052543	DECL	23.02680945	AZVI	58.97671079	Z	364954844.0	VZ	-1262.156753
	A	1184929520.	ASND	19.80482792	VVEN	-11879642.12	APOG	383273.0976	VAPG	319.0788536
	ECC	.9830051809	ARGP	206.3540821	ARGL	39.51157903	PERG	-127.0842018	VPER	37231.05371
	INCL	37.93800735	MA	-22.52013754	TA	193.1574935	PERD	36001.40478	EARTH	ELLIPSE
	WT	25563.50830	DVV	.0156574037						
	XP	-5.785457491	ELAT	.0735312132	ELK	100.9796743	VERA	-127.1550493	VEDC	-23.02680921
	YP	43.23632335	ELON	.1304800045	SLK	176.6009845	VSRA	-39.02296209	VSDC	-15.28076314
		NOT ECLIPSED	SVE	82.41319370	TLK	40.36509656	VTRA	95.42902183	VTDC	26.38812828

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STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.448	139.282	63.511	119.018	49.581
VEGA	278.921	38.748	75.340	114.782	66.818	114.088	76.443
B-CAPRICORNI	304.734	-14.900	67.649	150.364	15.684	167.512	77.824
A-PAVONIS	305.683	-56.856	61.576	142.675	43.163	138.485	71.645
DENEB	310.042	45.147	97.670	101.824	61.238	118.137	99.946

8 FEB. 1968 9 HR 25 MIN 40.66 SEC TMST 455477.6835 J.D. 2439894.8928 5 DAY 6 HR 31.3 MIN

GEOCENTRIC

	ALT	896865408.0	R	917780168.0	VI	4333.938415	X	507815256.0	VX	-3015.190612
77	LTDM	23.25912666	RASC	53.01344871	FPVI	-79.11187744	Y	674222808.0	VY	-2835.907318
	LONM	134.0326766	DECL	23.11984658	AZVI	59.08002090	Z	360371628.0	VZ	-1284.242202
	A	1183681872.	ASND	19.76616191	VVEN	-11892163.75	APOG	382848.1992	VAPG	320.1074104
	ECC	.9829142317	ARGP	206.3605289	ARCL	39.72288894	PERG	-112.8561553	VPER	37150.54150
	INCL	37.90925788	MA	-21.96228361	TA	193.3623561	PERD	35944.55908	EARTH	ELLIPSE
	WT	25563.50830	DVV	.0162342947						
	XP	-5.789716124	ELAT	.0744700711	ELK	101.1518297	VERA	-126.9865493	VEDC	-23.11984634
	YP	42.50203704	ELON	.1327643115	SLK	176.5569744	VSRA	-38.97957086	VSDC	-15.26713085
		NOT ECLIPSED	SVE	82.28475856	TLK	40.51423788	VTRA	95.26292324	VTDC	26.39909887

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.411	139.318	63.545	119.018	49.543
VEGA	278.921	38.748	75.326	114.763	66.831	114.088	76.435
B-CAPRICORNI	304.734	-14.900	67.683	150.218	15.726	167.512	77.714
A-PAVONIS	305.683	-56.856	61.409	142.617	43.186	138.485	71.529
DENEB	310.042	45.147	97.629	101.753	61.231	118.137	99.929

2"

8 FEB. 1968 10 HR 25 MIN 40.66 SEC TMST 459077.6835 J.D. 2439894.9345 5 DAY 7 HR 31.3 MIN

GEOCENTRIC

	ALT	881442552.0	R	902357224.0	VI	4392.670104	X	496899220.0	VX	-3049.429473
77	LTDM	23.35567259	RASC	53.18832683	FPVI	-79.05196762	Y	663936848.0	VY	-2878.806945
1"	LONM	119.1664800	DECL	23.21594715	AZVI	59.18289518	Z	355707168.0	VZ	-1307.287780

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WT	25563.50830	DVV	.0189041944						
XP	-5.806551039	ELAT	.078558566C	ELK	101.9067420	VERA	-126.2444887	VEDC	-23.52458238
YP	39.46179246	ELON	.143072119C	SLK	176.3806438	VSRA	-38.80583906	VSDC	-15.21242856
	NOT ECLIPSED	SVE	81.70478439	TLK	41.12743854	VTRA	94.57977008	VTDC	26.44298243

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.251	139.461	63.678	119.018	49.367
VEGA	278.921	38.748	75.264	114.683	66.882	114.088	76.389
B-CAPRICORNI	304.734	-14.900	66.957	149.619	15.894	167.512	77.217
A-PAVONIS	305.683	-56.856	60.678	142.375	43.275	138.485	71.010
DENEB	310.042	45.147	97.450	101.459	61.203	118.137	99.843

8 FEB. 1968 14 HR 25 MIN 40.66 SEC TMST 473477.6835 J.D. 2439895.1011 5 DAY 11 HR 31.3 MIN

GEOCENTRIC

ALT	817588200.0	R	838502496.C	VI	4650.894409	X	451946908.0	VX	-3196.919982
77 LTDM	23.77663350	RASC	53.96039295	FPVI	-78.80002021	Y	621148144.0	VY	-3069.466003
LONM	59.77428388	DECL	23.63498401	AZVI	59.59981012	Z	336162764.0	VZ	-1410.283874
A	1178484976.	ASND	19.61455059	VVEN	-11944606.00	APOG	381082.4062	VAPG	324.2029635
ECC	.9825543463	ARGP	206.3836688	ARGL	40.85298347	PERG	-57.66850852	VPER	36842.98730
INCL	37.79930305	MA	-19.11066770	TA	194.4693126	PERD	35708.10009	EARTH	ELLIPSE
WT	25563.50830	DVV	.0196844463						
XP	-5.810276389	ELAT	.079675619 5	ELK	102.1142635	VERA	-126.0396041	VEDC	-23.63498377
YP	38.67394351	ELON	.145981149 7	SLK	176.3365192	VSRA	-38.76235818	VSDC	-15.19870793
	NOT ECLIPSED	SVE	81.54101085	TLK	41.28660678	VTRA	94.40238761	VTDC	26.45411109

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.209	139.496	63.711	119.018	49.317
VEGA	278.921	38.748	75.248	114.661	66.894	114.088	76.375
B-CAPRICORNI	304.734	-14.900	66.758	149.464	15.937	167.512	77.078
A-PAVONIS	305.683	-56.856	60.477	142.311	43.297	138.485	70.867
DENEB	310.042	45.147	97.400	101.383	61.196	118.137	99.817

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8 FEB. 1968 15 HR 25 MIN 40.66 SEC TMST 477077.6835 J.D. 2439895.1428 5 DAY 12 HR 31.3 MIN

GEOCENTRIC

	ALT	801041080.0	R	821955264.0	VI	4722.069213	X	440366632.0	VX	-3236.786254
77	LTDM	23.89175081	RASC	54.17415761	FPVI	-78.73202323	Y	610003288.0	VY	-3122.517272
	LONM	44.94698858	DECL	23.74958062	AZVI	59.70776271	Z	331034264.0	VZ	-1439.110290
	A	1177616736.	ASND	19.59094810	VVEN	-11953412.62	APOG	380788.1875	VAPG	324.8507766
	ECC	.9824979603	ARGP	206.3869571	ARGL	41.09847593	PERG	-49.23318433	VPER	36796.62548
	INCL	37.78260993	MA	-18.53016304	TA	194.7115173	PERD	35668.64501	EARTH	ELLIPSE
	WT	25563.50830	CVV	.0205206726						
	XP	-5.813615500	ELAT	.0808361694	ELK	102.3303651	VERA	-125.8258409	VEDC	-23.74958062
	YP	37.87408065	ELON	.1490419302	SLK	176.2923355	VSRA	-38.71885538	VSDC	-15.18496692
		NOT ECLIPSED	SVE	81.36866092	TLK	41.44874143	VTRA	94.22167968	VTDC	26.46536135

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.166	139.532	63.745	119.018	49.265
VEGA	278.921	38.748	75.231	114.639	66.907	114.088	76.359
B-CAPRICORNI	304.734	-14.900	66.550	149.305	15.979	167.512	76.932
A-PAVONIS	305.683	-56.856	60.269	142.246	43.319	138.485	70.717
DENEB	310.042	45.147	97.348	101.304	61.189	118.137	99.790

8 FEB. 1968 16 HR 25 MIN 40.66 SEC TMST 480677.6835 J.D. 2439895.1845 5 DAY 13 HR 31.3 MIN

GEOCENTRIC

	ALT	784241416.0	R	805155488.0	VI	4796.275756	X	428640384.0	VX	-3278.017517
77	LTDM	24.01138401	RASC	54.39748716	FPVI	-78.66119956	Y	598663088.0	VY	-3178.028930
	LONM	30.12924146	DECL	23.86367475	AZVI	59.81817293	Z	325799476.0	VZ	-1469.351669
2"	A	1176795680.	ASND	19.56916069	VVEN	-11961752.50	APOG	380510.1875	VAPG	325.4523887
	ECC	.9824457839	ARGP	206.3398544	ARGL	41.35217666	PERG	-41.49287700	VPER	36754.23144
	INCL	37.76742553	MA	-17.94588010	TA	194.9623203	PERD	35631.34863	EARTH	ELLIPSE
	WT	25563.50830	CVV	.0214196173						
1"	XP	-5.816458582	ELAT	.0820435062	ELK	102.5556926	VERA	-125.6025094	VEDC	-23.86867475

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YP	37.06170082	ELON	.1522658244	SLK	176.2481327	VSRA	-38.67532587	VSDC	-15.17120599
	NOT ECLIPSED	SVE	81.18709278	TLK	41.61413526	VTRA	94.03731918	VTDC	26.47675919

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.122	139.568	63.778	119.018	49.210
VEGA	278.921	38.748	75.213	114.615	66.920	114.088	76.343
B-CAPRICORNI	304.734	-14.900	66.333	149.143	16.021	167.512	76.781
A-PAVONIS	305.683	-56.856	60.051	142.179	43.342	138.485	70.561
DENEB	310.042	45.147	97.293	101.225	61.182	118.137	99.760

8 FEB. 1968 17 HR 25 MIN 40.66 SEC TMST 484277.6796 J.D. 2439895.2261 5 DAY 14 HR 31.3 MIN

GEOCENTRIC

	ALT	767178416.0	R	788092384.0	VI	4873.747009	X	416763024.0	VX	-3320.712005
77	LTDM	24.13587141	RASC	54.63115406	FPVI	-78.58713340	Y	587118368.0	VY	-3236.188690
	LONM	15.32185328	DECL	23.99260425	AZVI	59.93154811	Z	320453124.0	VZ	-1501.121109
	A	1176018432.	ASND	19.54905247	VVEN	-11969658.25	APOG	380247.2734	VAPG	326.0104446
	ECC	.9823975935	ARGP	206.3924732	ARGL	41.61500358	PERG	-34.41125488	VPER	36715.56640
	INCL	37.75349760	MA	-17.36102581	TA	195.2225265	PERD	35596.05419	EARTH	ELLIPSE
	WT	25563.50830	DVV	.0223890166						
	XP	-5.818688452	ELAT	.0833013169	ELK	102.7909622	VERA	-125.3688430	VEDC	-23.99260425
	YP	36.23626089	ELON	.1556656156	SLK	176.2038955	VSRA	-38.63176727	VSDC	-15.15742266
		NOT ECLIPSED	SVE	80.99558830	TLK	41.78306722	VTRA	93.84899425	VTDC	26.48833131

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.076	139.603	63.812	119.018	49.152
VEGA	278.921	38.748	75.195	114.591	66.932	114.088	76.325
B-CAPRICORNI	304.734	-14.900	66.107	148.978	16.064	167.512	76.622
A-PAVONIS	305.683	-56.856	59.824	142.110	43.364	138.485	70.398
DENEB	310.042	45.147	97.236	101.143	61.175	118.137	99.728

8 FEB. 1968 18 HR 25 MIN 40.66 SEC TMST 487877.6796 J.D. 2439895.2678 5 DAY 15 HR 31.3 MIN

GEOCENTRIC

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	ALT	749840512.0	R	770754352.0	VI	4954.744689	X	404729264.0	VX	-3364.979492
77	LTDM	24.26558732	RASC	54.87600469	FPVI	-78.50933837	Y	575359152.0	VY	-3297.207366
	LONM	.5256492197	DECL	24.12174129	AZVI	60.04843568	Z	314989436.0	VZ	-1534.546142
	A	1175281920.	ASND	19.53048253	VVEN	-11977159.25	APOG	379998.3632	VAPG	326.5287094
	ECC	.9823530391	ARGP	206.3948020	ARGL	41.88787412	PERG	-27.92688589	VPER	36680.26367
	INCL	37.74078416	MA	-16.77280139	TA	195.4930686	PERD	35562.62011	EARTH	ELLIPSE
	WT	25563.50830	DVV	.0234377922						
	XP	-5.820175170	ELAT	.0846136892	ELK	103.0369663	VERA	-125.1239929	VEDC	-24.12174105
	YP	35.39717960	ELON	.1592556014	SLK	176.1596221	VSRA	-38.58819007	VSDC	-15.14362037
		NOT ECLIPSED	SVE	80.79334163	TLK	41.95583057	VTRA	93.65637874	VTDC	26.50010538

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	46.030	139.639	63.845	119.018	49.092
VEGA	278.921	38.748	75.176	114.566	66.945	114.088	76.306
B-CAPRICORNI	304.734	-14.900	65.871	148.809	16.106	167.512	76.456
A-PAVONIS	305.683	-56.856	59.587	142.039	43.387	138.485	70.229
DENEB	310.042	45.147	97.176	101.059	61.168	118.137	99.695

8 FEB. 1968 19 HR 25 MIN 40.66 SEC TMST 491477.6796 J.D. 2439895.3095 5 DAY 16 HR 31.3 MIN

GEOCENTRIC

	ALT	732215160.0	R	753128888.0	VI	5039.563964	X	392533116.0	VX	-3410.939819
77	LTDM	24.40095520	RASC	55.13302516	FPVI	-78.42732429	Y	563374776.0	VY	-3361.325622
	LONM	-14.25840902	DECL	24.25650835	AZVI	60.16941308	Z	309402240.0	VZ	-1569.772308
	A	1174583408.	ASND	19.51334714	VVEN	-11984281.87	APOG	379762.5156	VAPG	327.0096321
	ECC	.9823119044	ARGP	206.3969211	ARGL	42.17186403	PERG	-22.00377964	VPER	36648.10009
	INCL	37.72911739	MA	-16.18237423	TA	195.7749404	PERD	35530.92041	EARTH	ELLIPSE
2"	WT	25563.50830	DVV	.0245763087						
	XP	-5.820775210	ELAT	.0859852433	ELK	103.2946205	VERA	-124.8669729	VEDC	-24.25650835
	YP	34.54382562	ELON	.1630518809	SLK	176.1153144	VSRA	-38.54458236	VSDC	-15.12979590
		NOT ECLIPSED	SVE	80.57944869	TLK	42.13268709	VTRA	93.45917701	VTDC	26.51210737
1"										

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STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.982	139.675	63.879	119.018	49.030
VEGA	278.921	38.748	75.156	114.540	66.958	114.088	76.286
B-CAPRICORNI	304.734	-14.900	65.623	148.635	16.149	167.512	76.283
A-PAVONIS	305.683	-56.856	59.338	141.966	43.409	138.485	70.052
DENEB	310.042	45.147	97.113	100.972	61.161	118.137	99.659

8 FEB. 1968 20 HR 25 MIN 40.66 SEC TMST 495077.6796 J.D. 2439895.3511 5 DAY 17 HR 31.3 MIN

GEOCENTRIC

	ALT	714288832.0	R	735202416.0	VI	5128.538879	X	380168280.0	VX	-3458.727508
77	LTDM	24.54244804	RASC	55.40331792	FPVI	-78.34051513	Y	551153584.0	VY	-3428.815948
	LONM	-29.02919173	DECL	24.39737653	AZVI	60.29513597	Z	303684728.0	VZ	-1606.964996
	A	1173920400.	ASND	19.49752712	VVEN	-11991050.25	APOG	379538.8671	VAPG	327.4563293
	ECC	.9822738990	ARGP	206.3988113	ARGL	42.46811485	PERG	-16.59111070	VPER	36618.77685
	INCL	37.71847343	MA	-15.58990669	TA	196.0692996	PERD	35500.84130	EARTH	ELLIPSE
	WT	25563.50830	CVV	.0258166767						
	XP	-5.820333659	ELAT	.0874211537	ELK	103.5649442	VERA	-124.5966806	VEDC	-24.39737653
	YP	33.67551326	ELON	.1670727841	SLK	176.0709743	VSRA	-38.50094795	VSDC	-15.11594963
		NOT ECLIPSED	SVE	80.35287952	TLK	42.31392383	VTRA	93.25707340	VTDC	26.52436518

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.933	139.711	63.912	119.018	48.964
VEGA	278.921	38.748	75.136	114.513	66.971	114.088	76.265
B-CAPRICORNI	304.734	-14.900	65.364	148.458	16.191	167.512	76.102
A-PAVONIS	305.683	-56.856	59.078	141.892	43.432	138.485	69.868
DENEB	310.042	45.147	97.047	100.884	61.154	118.137	99.622

8 FEB. 1968 21 HR 25 MIN 40.66 SEC TMST 498677.6796 J.D. 2439895.3928 5 DAY 18 HR 31.3 MIN

GEOCENTRIC

	ALT	696046752.0	R	716960208.0	VI	5222.048828	X	367627880.0	VX	-3508.492004
77	LTDM	24.69060182	RASC	55.68814706	FPVI	-78.24829864	Y	538682896.0	VY	-3499.989868
	LONM	-43.78541564	DECL	24.54488039	AZVI	60.42629957	Z	297829504.0	VZ	-1646.313690

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A	1173290608.	ASND	19.48294258	VVEN	-11997486.75	APOG	379326.6328	VAPG	327.8710899
ECC	.9822388142	ARGP	206.4004821	ARGL	42.77790975	PERG	-11.65358090	VPER	36592.08398
INCL	37.70880508	MA	-14.99554872	TA	196.3774242	PERD	35472.27636	EARTH	ELLIPSE
WT	25563.50830	DVV	.027173145C						
XP	-5.818674504	ELAT	.0889272941	ELK	103.8491048	VERA	-124.3118515	VEDC	-24.54488039
YP	32.79150009	ELON	.1713390276	SLK	176.0265922	VSRA	-38.45728158	VSDC	-15.10207879
	NOT ECLIPSED	SVE	80.11246871	TLK	42.49981403	VTRA	93.04975986	VTDC	26.53691101

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.884	139.747	63.946	119.018	48.896
VEGA	278.921	38.748	75.115	114.484	66.984	114.088	76.242
B-CAPRICORNI	304.734	-14.900	65.091	148.276	16.233	167.512	75.912
A-PAVONIS	305.683	-56.856	58.804	141.814	43.455	138.485	69.675
DENEB	310.042	45.147	96.977	100.792	61.147	118.137	99.582

8 FEB. 1968 22 HR 25 MIN 40.66 SEC TMST 502277.6796 J.D. 2439895.4345 5 DAY 19 HR 31.3 MIN

GEOCENTRIC									
ALT	677472864.0	R	698386176.0	VI	5320.527221	X	354904476.0	VX	-3560.401275
77 LTDM	24.84602546	RASC	55.98895835	FPVI	-78.14999961	Y	525948872.0	VY	-3575.204406
LONM	-58.52566385	DECL	24.69962596	AZVI	60.56369733	Z	291828448.0	VZ	-1688.036270
A	1172692160.	ASND	19.46950149	VVEN	-12003609.37	APOG	379125.1562	VAPG	328.2558174
ECC	.9822064787	ARGP	206.4020175	ARGL	43.10276126	PERG	-7.162183165	VPER	36567.84960
INCL	37.69994497	MA	-14.39942514	TA	196.7007408	PERD	35445.14013	EARTH	ELLIPSE
WT	25563.50830	DVV	.0286625959						
XP	-5.815603137	ELAT	.0905103534	ELK	104.1484336	VERA	-124.0110397	VEDC	-24.69962573
2" YP	31.89097380	ELON	.1758743357	SLK	175.9821701	VSRA	-38.41357660	VSDC	-15.08818268
	NOT ECLIPSED	SVE	79.85688686	TLK	42.69063615	VTRA	92.83692550	VTDC	26.54977226

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.833	139.782	63.980	119.018	48.825
1" VEGA	278.921	38.748	75.094	114.455	66.996	114.088	76.218

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B-CAPRICORNI	304.734	-14.900	64.804	148.088	16.276	167.512	75.713
A-PAVONIS	305.683	-56.856	58.516	141.735	43.477	138.485	69.473
DENEB	310.042	45.147	96.903	100.698	61.140	118.137	99.540

8 FEB. 1968 23 HR 25 MIN 40.66 SEC TMST 505877.6796 J.D. 2439895.4761 5 DAY 20 HR 31.3 MIN

GEOCENTRIC

	ALT	658549480.0	R	679462632.0	VI	5424.470581	X	341990112.0	VX	-3614.645019
77	LTDM	25.00940608	RASC	56.30740356	FPVI	-78.04482841	Y	512936120.0	VY	-3654.869354
	LONM	-73.24831390	DECL	24.86229872	AZVI	60.70821428	Z	285672516.0	VZ	-1732.383666
	A	1172122192.	ASND	19.45712852	VVEN	-12009446.50	APOG	378933.4648	VAPG	328.6130752
	ECC	.9821766615	ARGP	206.40338851	ARGL	43.44430208	PERG	-3.079352408	VPER	36545.85644
	INCL	37.69188690	MA	-13.80167770	TA	197.0409126	PERD	35419.30224	EARTH	ELLIPSE
	WT	25563.50830	DVV	.0303051844						
	XP	-5.810900568	ELAT	.0921779703	ELK	104.4644441	VERA	-123.6925935	VEDC	-24.86229872
	YP	30.97303843	ELON	.1807059757	SLK	175.9377155	VSRA	-38.36984443	VSDC	-15.07426428
		NOT ECLIPSED	SVE	79.58460044	TLK	42.88669538	VTRA	92.61822986	VTDC	26.56298708

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.780	139.818	64.013	119.018	48.751
VEGA	278.921	38.748	75.071	114.423	67.009	114.088	76.193
B-CAPRICORNI	304.734	-14.900	64.500	147.896	16.313	167.512	75.504
A-PAVONIS	305.683	-56.856	58.213	141.652	43.500	138.485	69.261
DENEB	310.042	45.147	96.824	100.601	61.134	118.137	99.495

9 FEB. 1968 HR 25 MIN 40.66 SEC TMST 509477.6796 J.D. 2439895.5178 5 DAY 21 HR 31.3 MIN

GEOCENTRIC

	ALT	639257344.0	R	660170328.0	VI	5534.453369	X	328875948.0	VX	-3671.437072
77	LTDM	25.18153715	RASC	56.64541912	FPVI	-77.93190193	Y	499627916.0	VY	-3739.461730
	LONM	-87.95136165	DECL	25.03368878	AZVI	60.86087322	Z	279351796.0	VZ	-1779.648880
	A	1171580528.	ASND	19.44574761	VVEN	-12014998.62	APOG	378751.4687	VAPG	328.9443016
	ECC	.9821492135	ARGP	206.40460395	ARGL	43.80444908	PERG	.6242064014	VPER	36525.93603
	INCL	37.68459177	MA	-13.20239186	TA	197.3998413	PERD	35394.75341	EARTH	ELLIPSE

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WT	25563.50830	DVV	.0321251508						
XP	-5.804319143	ELAT	.0939388955	ELK	104.7989044	VERA	-123.3545780	VEDC	-25.03368902
YP	30.03671693	ELON	.1858653836	SLK	175.8932018	VSRA	-38.32607316	VSDC	-15.06031858
	NOT ECLIPSED	SVE	79.29385185	TLK	43.08827877	VTRA	92.39335060	VTDC	26.57659292

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.727	139.853	64.047	119.018	48.673
VEGA	278.921	38.748	75.048	114.391	67.022	114.088	76.167
B-CAPRICORNI	304.734	-14.900	64.179	147.698	16.361	167.512	75.284
A-PAVONIS	305.683	-56.856	57.891	141.567	43.523	138.485	69.038
DENEB	310.042	45.147	96.741	100.501	61.127	118.137	99.447

9 FEB. 1968 1 HR 25 MIN 40.66 SEC TMST 513077.6796 J.D. 2439895.5595 5 DAY 22 HR 31.3 MIN

GEOCENTRIC

	ALT	619574904.0	R	640487728.0	VI	5651.140380	X	315552396.0	VX -3731.020935
77	LTDM	25.36332964	RASC	57.00524330	FPVI	-77.81020736	Y	486005440.0	VY -3829.534851
	LONM	-102.6325902	DECL	25.21470499	AZVI	61.02284479	Z	272855144.0	VZ -1830.173233
	A	1171063984.	ASND	19.43529868	VVEN	-12020298.37	APOG	378578.0976	VAPG 329.2515563
	ECC	.9821239635	ARGP	206.4057064	ARGL	44.18541288	PERG	3.973138958	VPER 36507.94677
	INCL	37.67797136	MA	-12.60170054	TA	197.7797031	PERD	35371.34765	EARTH ELLIPSE
	WT	25563.50830	DVV	.0341519331					
	XP	-5.795575082	ELAT	.0958033213	ELK	105.1538515	VERA	-122.9947547	VEDC -25.21470499
	YP	29.08091950	ELON	.1913891006	SLK	175.8486461	VSRA	-38.28226375	VSDC -15.04634571
		NOT ECLIPSED	SVE	78.98258876	TLK	43.29570341	VTRA	92.16193294	VTDC 26.59063124

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.673	139.889	64.081	119.018	48.591
VEGA	278.921	38.748	75.024	114.356	67.035	114.088	76.139
B-CAPRICORNI	304.734	-14.900	63.839	147.494	16.404	167.512	75.053
A-PAVONIS	305.683	-56.856	57.550	141.480	43.546	138.485	68.804
DENEB	310.042	45.147	96.652	100.398	61.120	118.137	99.396

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9 FEB. 1968 2 HR 25 MIN 40.66 SEC TMST 516677.6796 J.D. 2439895.6011 5 DAY 23 HR 31.3 MIN

GEOCENTRIC

	ALT	599478512.0	R	620391144.0	VI	5775.310913	X	302008856.0	VX	-3793.674682
77	LTDM	25.55584192	RASC	57.38952589	FPVI	-77.67855644	Y	472047944.0	VY	-3925.740264
	LONM	-117.2893629	DECL	25.40640115	AZVI	61.19550943	Z	266170172.0	VZ	-1884.360137
	A	1170572624.	ASND	19.42571902	VVEN	-12025344.25	APOG	378413.3320	VAPG	329.5362243
	ECC	.9821007624	ARGP	206.4066905	ARGL	44.58975982	PERG	6.997316300	VPER	36491.72119
	INCL	37.67200613	MA	-11.99967575	TA	198.1830654	PERD	35349.08740	EARTH	ELLIPSE
	WT	25563.50830	CVV	.0364215751						
	XP	-5.784347236	ELAT	.0977830458	ELK	105.5316839	VERA	-122.6104736	VEDC	-25.40640115
	YP	28.10444355	ELON	.1973199583	SLK	175.8040428	VSRA	-38.23840618	VSDC	-15.03234291
		NOT ECLIPSED	SVE	78.64841556	TLK	43.50928735	VTRA	91.92362022	VTDC	26.60515213

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.617	139.924	64.115	119.018	48.506
VEGA	278.921	38.748	74.999	114.320	67.048	114.088	76.110
B-CAPRICORNI	304.734	-14.900	63.477	147.284	16.446	167.512	74.808
A-PAVONIS	305.683	-56.856	57.188	141.389	43.569	138.485	68.557
DENEB	310.042	45.147	96.557	100.291	61.113	118.137	99.342

9 FEB. 1968 3 HR 25 MIN 40.66 SEC TMST 520277.6796 J.D. 2439895.6428 6 DAY HR 31.3 MIN

GEOCENTRIC

	ALT	578941520.0	R	599853960.0	VI	5907.880737	X	288233788.0	VX	-3859.718658
77	LTDM	25.76030492	RASC	57.80137681	FPVI	-77.53557586	Y	457731888.0	VY	-4028.845336
	LONM	-131.9186096	DECL	25.61000490	AZVI	61.38047361	Z	259282810.0	VZ	-1942.686996
2"	A	1170103568.	ASND	19.41695189	VVEN	-12030164.62	APOG	378256.2265	VAPG	329.7998237
	ECC	.9820794910	ARGP	206.4075946	ARGL	45.02051591	PERG	9.711838603	VPER	36477.17089
	INCL	37.66661024	MA	-11.39642667	TA	198.6129188	PERD	35327.84326	EARTH	ELLIPSE
	WT	25563.50830	CVV	.0389787014						
1"	XP	-5.770262777	ELAT	.0998919606	ELK	105.9352064	VERA	-122.1986217	VEDC	-25.61000466

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YP	27.10593485	ELON	.2037084643	SLK	175.7593708	VSRA	-38.19450664	VSDC	-15.01831138
	NOT ECLIPSED	SVE	78.28850936	TLK	43.72938251	VTRA	91.67802047	VTDC	26.62021112

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.561	139.958	64.149	119.018	48.417
VEGA	278.921	38.748	74.973	114.282	67.061	114.088	76.079
B-CAPRICORNI	304.734	-14.900	63.090	147.068	16.489	167.512	74.549
A-PAVONIS	305.683	-56.856	56.801	141.295	43.592	138.485	68.295
DENEB	310.042	45.147	96.456	100.180	61.106	118.137	99.285

9 FEB. 1968 4 HR 25 MIN 40.66 SEC TMST 523877.6796 J.D. 2439895.6845 6 DAY 1 HR 31.3 MIN

GEOCENTRIC

	ALT	557934224.0	R	578846448.0	VI	6049.939208	X	274214348.0	VX	-3929.523468
77	LTDM	25.97816848	RASC	58.24452829	FPVI	-77.37962150	Y	443030896.0	VY	-4139.767028
	LONM	-146.5165138	DECL	25.82696127	AZVI	61.57966661	Z	252177184.0	VZ	-2005.726669
	A	1169657088.	ASND	19.40894913	VVEN	-12034756.75	APOG	378106.8359	VAPG	330.0435142
	ECC	.9820600226	ARGP	206.4084129	ARGL	45.48124408	PERG	12.14270925	VPER	36464.15136
	INCL	37.66175699	MA	-10.79201471	TA	199.0728282	PERD	35307.62500	EARTH	ELLIPSE
	WT	25563.50830	DVV	.0418791491						
	XP	-5.752889096	ELAT	.1021464793	ELK	106.3677654	VERA	-121.7554702	VEDC	-25.82696080
	YP	26.08388137	ELON	.2106146589	SLK	175.7146701	VSRA	-38.15056085	VSDC	-15.00424885
		NOT ECLIPSED	SVE	77.89951133	TLK	43.95635366	VTRA	91.42472553	VTDC	26.63587164

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.504	139.992	64.182	119.018	48.322
VEGA	278.921	38.748	74.946	114.241	67.074	114.088	76.045
2" B-CAPRICORNI	304.734	-14.900	62.676	146.844	16.532	167.512	74.274
A-PAVONIS	305.683	-56.856	56.386	141.197	43.615	138.485	68.017
DENEB	310.042	45.147	96.346	100.065	61.099	118.137	99.223

9 FEB. 1968 5 HR 25 MIN 40.66 SEC TMST 527477.6796 J.D. 2439895.7261 6 DAY 2 HR 31.3 MIN

1" GEOCENTRIC

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	ALT	536422896.0	R	557334896.0	VI	6202.790466	X	259936196.0	VX	-4003.519531
77	LTDM	26.21115159	RASC	58.72347974	FPVI	-77.20873260	Y	427914872.0	VY	-4259.607360
	LONM	-161.0786190	DECL	26.05898356	AZVI	61.79541540	Z	244835098.0	VZ	-2074.171447
	A	1169230880.	ASND	19.40166234	VVEN	-12039143.87	APOG	377964.3789	VAPG	330.2687225
	ECC	.9820422381	ARGP	206.4091720	ARGL	45.97622776	PERG	14.30659186	VPER	36452.56933
	INCL	37.65739917	MA	-10.18653035	TA	199.5670528	PERD	35288.32763	EARTH	ELLIPSE
	WT	25563.50830	CVV	.0451936917						
	XP	-5.731718957	ELAT	.1045661811	ELK	106.8333749	VERA	-121.2765188	VEDC	-26.05898356
	YP	25.03656387	ELON	.2181106936	SLK	175.6698913	VSRA	-38.10656213	VSDC	-14.99015247
		NOT ECLIPSED	SVE	77.47739696	TLK	44.19058561	VTRA	91.16329956	VTDC	26.65221309

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.446	140.025	64.216	119.018	48.223
VEGA	278.921	38.748	74.918	114.198	67.087	114.088	76.010
B-CAPRICORNI	304.734	-14.900	62.231	146.613	16.575	167.512	73.980
A-PAVONIS	305.683	-56.856	55.940	141.097	43.638	138.485	67.721
DENEB	310.042	45.147	96.228	99.945	61.092	118.137	99.156

9 FEB. 1968 6 HR 25 MIN 40.66 SEC TMST 531077.6796 J.D. 2439895.7678 6 DAY 3 HR 31.3 MIN

GEOCENTRIC

	ALT	514369304.0	R	535281060.0	VI	6368.015319	X	245383302.0	VX	-4082.212066
77	LTDM	26.46131396	RASC	59.24372482	FPVI	-77.02051925	Y	412349472.0	VY	-4389.707397
	LONM	-175.5994281	DECL	26.30812573	AZVI	62.03056764	Z	237235678.0	VZ	-2148.867889
	A	1168824896.	ASND	19.39505410	VVEN	-12043325.37	APOG	377828.8281	VAPG	330.4767150
	ECC	.9820260033	ARGP	206.4098606	ARGL	46.51063823	PERG	16.22977781	VPER	36442.28076
	INCL	37.65352725	MA	-9.580033421	TA	200.1007747	PERD	35269.95068	EARTH	ELLIPSE
	WT	25563.50830	CVV	.0490132458						
	XP	-5.706154823	ELAT	.1071746908	ELK	107.3369083	VERA	-120.7562732	VEDC	-26.30812597
	YP	23.96203112	ELON	.2262841537	SLK	175.6250381	VSRA	-38.06249713	VSDC	-14.97601759
		NOT ECLIPSED	SVE	77.01728248	TLK	44.43249130	VTRA	90.89328670	VTDC	26.66932511

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STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.389	140.058	64.250	119.018	48.118
VEGA	278.921	38.748	74.889	114.153	67.100	114.088	75.973
B-CAPRICORNI	304.734	-14.900	61.749	146.375	16.618	167.512	73.665
A-PAVONIS	305.683	-56.856	55.459	140.992	43.661	138.485	67.404
DENEB	310.042	45.147	96.099	99.821	61.085	118.137	99.084

9 FEB. 1968 7 HR 25 MIN 40.66 SEC TMST 534677.6796 J.D. 2439895.8095 6 DAY 4 HR 31.3 MIN

GEOCENTRIC

	ALT	491729436.0	R	512640928.0	VI	6547.550964	X	230537844.0	VX	-4166.199768
77	LTDM	26.73113918	RASC	59.81201124	FPVI	-76.81207656	Y	396294752.0	VY	-4531.716003
	LONM	169.9277572	DECL	26.57686352	AZVI	62.28863859	Z	229354522.0	VZ	-2230.863769
	A	1168438272.	ASND	19.38907480	VVEN	-12047310.25	APOG	377699.8710	VAPG	330.6682319
	ECC	.9820112511	ARGP	206.4104862	ARGL	47.09080553	PERG	17.92288255	VPER	36433.22558
	INCL	37.65011167	MA	-8.972592353	TA	200.6803150	PERD	35252.45214	EARTH	ELLIPSE
	WT	25563.50830	DVV	.0534564792						
	XP	-5.675480425	ELAT	.1100007966	ELK	107.8843126	VERA	-120.1879863	VEDC	-26.57686352
	YP	22.85803341	ELON	.2352425996	SLK	175.5801258	VSRA	-38.01837778	VSDC	-14.96184754
		NOT ECLIPSED	SVE	76.51317882	TLK	44.68254327	VTRA	90.61415481	VTDC	26.68732237

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.331	140.089	64.285	119.018	48.006
VEGA	278.921	38.748	74.859	114.105	67.113	114.088	75.933
B-CAPRICORNI	304.734	-14.900	61.226	146.128	16.661	167.512	73.326
A-PAVONIS	305.683	-56.856	54.936	140.884	43.685	138.485	67.063
DENEB	310.042	45.147	95.959	99.692	61.078	118.137	99.007

2"

9 FEB. 1968 8 HR 25 MIN 40.66 SEC TMST 538277.6796 J.D. 2439895.8511 6 DAY 5 HR 31.3 MIN

GEOCENTRIC

	ALT	468452540.0	R	489363740.0	VI	6743.800476	X	215379442.0	VX	-4256.193908
77	LTDM	27.02367210	RASC	60.43682432	FPVI	-76.57975578	Y	379704400.0	VY	-4687.688537
1"	LONM	155.5115127	DECL	26.86823320	AZVI	62.57407045	Z	221163148.0	VZ	-2321.472473

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A	1168069040.	ASND	19.38369035	VVEN	-12051118.62	APOG	377576.8554	VAPG	330.8446578
ECC	.9819978624	ARGP	206.4110908	ARGL	47.72463893	PERG	19.40363955	VPER	36425.30761
INCL	37.64706277	MA	-8.364276886	TA	201.3135452	PERD	35235.74365	EARTH	ELLIPSE
WT	25563.50830	CVV	.0586809544						
XP	-5.638834476	ELAT	.1130800601	ELK	108.4830141	VERA	-119.5631742	VEDC	-26.86823320
YP	21.72197198	ELON	.2451199870	SLK	175.5351276	VSRA	-37.97418594	VSDC	-14.94763541
	NOT ECLIPSED	SVE	75.95764160	TLK	44.94122171	VTRA	90.32536411	VTDC	26.70634055

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.275	140.120	64.319	119.018	47.887
VEGA	278.921	38.748	74.828	114.054	67.126	114.088	75.890
B-CAPRICORNI	304.734	-14.900	60.654	145.873	16.704	167.512	72.959
A-PAVONIS	305.683	-56.856	54.364	140.772	43.708	138.485	66.693
DENEB	310.042	45.147	95.805	99.558	61.071	118.137	98.922

9 FEB. 1968 9 HR 25 MIN 40.66 SEC TMST 541877.6796 J.D. 2439895.8928 6 DAY 6 HR 31.3 MIN

GEOCENTRIC

ALT	444479112.0	R	465389992.0	VI	6959.800048	X	199885002.0	VX	-4353.050720
77 LTDM	27.34268212	RASC	61.12892913	FPVI	-76.31897354	Y	362523560.0	VY	-4860.233764
LONM	141.1625633	DECL	27.18599271	AZVI	62.89253950	Z	212627606.0	VZ	-2422.373596
A	1167721920.	ASND	19.37886357	VVEN	-12054701.00	APOG	377461.3164	VAPG	331.0053291
ECC	.9819858372	ARGP	206.4116401	ARGL	48.42203760	PERG	20.68616151	VPER	36418.44921
INCL	37.64444828	MA	-7.755090653	TA	202.0103950	PERD	35220.03759	EARTH	ELLIPSE
WT	25563.50830	CVV	.0649001831						
XP	-5.595162093	ELAT	.1164570115	ELK	109.1423635	VERA	-118.8710689	VEDC	-27.18599271
YP	20.55079627	ELON	.2560857162	SLK	175.4900512	VSRA	-37.92992210	VSDC	-14.93337881
	NOT ECLIPSED	SVE	75.34126949	TLK	45.20908069	VTRA	90.02629852	VTDC	26.72655129

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.220	140.149	64.353	119.018	47.760
VEGA	278.921	38.748	74.795	113.999	67.139	114.088	75.844

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B-CAPRICORNI	304.734	-14.900	60.025	145.608	16.748	167.512	72.560
A-PAVONIS	305.683	-56.856	53.736	140.655	43.731	138.485	66.292
DENEB	310.042	45.147	95.634	99.417	61.065	118.137	98.828

9 FEB. 1968 10 HR 25 MIN 40.66 SEC TMST 545477.6796 J.D. 2439895.9345 6 DAY 7 HR 31.3 MIN

GEOCENTRIC

	ALT	419738940.0	R	440649472.0	VI	7199.430236	X	184027964.0	VX	-4457.807983
77	LTDM	27.69291496	RASC	61.90228891	FPVI	-76.02376556	Y	344686900.0	VY	-5052.700134
	LONM	126.8948698	DECL	27.53487491	AZVI	63.25146055	Z	203707160.0	VZ	-2535.737701
	A	116738640C.	ASND	19.37456774	VVEN	-12058165.75	APOG	377349.7695	VAPG	331.1544303
	ECC	.9819748848	ARGP	206.4121627	ARGL	49.19581174	PERG	21.79566979	VPER	36412.51464
	INCL	37.64214754	MA	-7.145193994	TA	202.7836456	PERD	35204.85937	EARTH	ELLIPSE
	WT	25563.50830	DVV	.0724101271						
	XP	-5.543157756	ELAT	.1201883675	ELK	109.8743915	VERA	-118.0977096	VEDC	-27.53487491
	YP	19.34089779	ELON	.2683578841	SLK	175.4448661	VSRA	-37.88556861	VSDC	-14.91907215
		NOT ECLIPSED	SVE	74.65198135	TLK	45.48670673	VTRA	89.71629619	VTDC	26.74817132

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.170	140.176	64.387	119.018	47.624
VEGA	278.921	38.748	74.762	113.940	67.152	114.088	75.795
B-CAPRICORNI	304.734	-14.900	59.327	145.333	16.791	167.512	72.121
A-PAVONIS	305.683	-56.856	53.039	140.534	43.755	138.485	65.851
DENEB	310.042	45.147	95.443	99.271	61.058	118.137	98.725

9 FEB. 1968 11 HR 25 MIN 40.66 SEC TMST 549077.6796 J.D. 2439895.9761 6 DAY 8 HR 31.3 MIN

GEOCENTRIC

2"	ALT	394147760.0	R	415057896.0	VI	7467.800231	X	167777730.0	VX	-4571.739013
77	LTDM	28.08043599	RASC	62.77535390	FPVI	-75.68644523	Y	326115036.0	VY	-5269.521972
	LONM	112.7268381	DECL	27.92092871	AZVI	63.66073846	Z	194351944.0	VZ	-2664.466247
	A	116708896C.	ASND	19.37075638	VVEN	-12061238.87	APOG	377250.9492	VAPG	331.2831649
	ECC	.9819655493	ARGP	206.4127273	ARGL	50.06269216	PERG	22.70649003	VPER	36407.64111
1"	INCL	37.64017295	MA	-6.534383833	TA	203.6499614	PERD	35191.40527	EARTH	ELLIPSE

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WT	25563.50830	DVV	.0816322667						
XP	-5.481170415	ELAT	.1243477529	ELK	110.6948385	VERA	-117.2246437	VEDC	-27.92092871
YP	18.08793878	ELON	.2822229489	SLK	175.3995800	VSRA	-37.84112310	VSDC	-14.90471291
	NOT ECLIPSED	SVE	73.87394523	TLK	45.77477550	VTRA	89.39460372	VTDC	26.77148365

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.125	140.200	64.421	119.018	47.476
VEGA	278.921	38.748	74.728	113.877	67.166	114.088	75.740
B-CAPRICORNI	304.734	-14.900	58.545	145.048	16.834	167.512	71.636
A-PAVONIS	305.683	-56.856	52.260	140.409	43.779	138.485	65.363
DENEB	310.042	45.147	95.228	99.117	61.051	118.137	98.610

9 FEB. 1968 12 HR 25 MIN 40.66 SEC TMST 552677.6796 J.D. 2439896.0178 6 DAY 9 HR 31.3 MIN

GEOCENTRIC

	ALT	367603068.0	R	388512760.0	VI	7771.700988	X	151098554.0	VX	-4696.416687
77	LTDM	28.51316046	RASC	63.77317094	FPVI	-75.29629707	Y	306710192.0	VY	-5516.617004
	LONM	98.68359661	DECL	28.35204935	AZVI	64.13394165	Z	184500002.0	VZ	-2812.462188
	A	1166785216.	ASND	19.36741232	VVEN	-12064378.62	APOG.	377150.1835	VAPG	331.4079055
	ECC	.9819567427	ARGP	206.4132156	ARGL	51.04517984	PERG	23.49605703	VPER	36403.41210
	INCL	37.63848543	MA	-5.923116087	TA	204.6319618	PERD	35177.66796	EARTH	ELLIPSE
	WT	25563.50830	DVV	.0931859873						
	XP	-5.407081067	ELAT	.1290328800	ELK	111.6248559	VERA	-116.2268266	VEDC	-28.35204935
	YP	16.78662943	ELON	.2980668805	SLK	175.3541831	VSRA	-37.79657459	VSDC	-14.89029419
		NOT ECLIPSED	SVE	72.98589324	TLK	46.07402324	VTRA	89.06039810	VTDC	26.79685378

2"

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.090	140.222	64.456	119.018	47.315
VEGA	278.921	38.748	74.694	113.809	67.179	114.088	75.681
B-CAPRICORNI	304.734	-14.900	57.661	144.751	16.878	167.512	71.092
A-PAVONIS	305.683	-56.856	51.378	140.279	43.802	138.485	64.816
DENEB	310.042	45.147	94.983	98.955	61.044	118.137	98.480

1"

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9 FEB. 1968 13 HR 25 MIN 40.66 SEC TMST 556277.6796 J.D. 2439896.0595 6 DAY 10 HR 31.3 MIN

GEOCENTRIC

	ALT	339977736.0	R	360886928.0	VI	8120.620910	X	133948323.0	VX	-4833.796936
77	LTDM	29.00165748	RASC	64.93077468	FPVI	-74.83917999	Y	286349348.0	VY	-5802.321350
	LONM	84.80014419	DECL	28.83877968	AZVI	64.69028568	Z	174072616.0	VZ	-2985.290283
	A	1166597920.	ASND	19.36449885	VVEN	-12066315.50	APOG	377087.9960	VAPG	331.4869842
	ECC	.9819510802	ARGP	206.4139633	ARGL	52.17442321	PERG	24.02702951	VPER	36400.57080
	INCL	37.63704156	MA	-5.310490787	TA	205.7604579	PERD	35169.19775	EARTH	ELLIPSE
	WT	25563.5083C	DVV	.1080165263						
	XP	-5.318097829	ELAT	.1343769915	ELK	112.6936750	VERA	-115.0692224	VEDC	-28.83878016
	YP	15.43039238	ELON	.3164247796	SLK	175.3086376	VSRA	-37.75190401	VSDC	-14.87580847
		NOT ECLIPSED	SVE	71.95841407	TLK	46.38526201	VTRA	88.71277046	VTDC	26.82478213

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.070	140.241	64.490	119.018	47.139
VEGA	278.921	38.748	74.660	113.736	67.192	114.088	75.615
B-CAPRICORNI	304.734	-14.900	56.646	144.442	16.922	167.512	70.474
A-PAVONIS	305.683	-56.856	50.367	140.144	43.826	138.485	64.196
DENEB	310.042	45.147	94.699	98.785	61.037	118.137	98.332

9 FEB. 1968 14 HR 25 MIN 40.66 SEC TMST 559877.6796 J.D. 2439896.1011 6 DAY 11 HR 31.3 MIN

GEOCENTRIC

	ALT	311110356.0	R	332018956.0	VI	8527.863525	X	116277018.0	VX	-4986.331726
77	LTDM	29.56040740	RASC	66.29897499	FPVI	-74.29328155	Y	264873574.0	VY	-6138.356750
	LONM	71.12724685	DECL	29.39556717	AZVI	65.35800266	Z	162966980.0	VZ	-3190.850860
2"	A	1166326000.	ASND	19.36199426	VVEN	-12069128.75	APOG	376997.9726	VAPG	331.5899009
	ECC	.9819441438	ARGP	206.4144344	ARGL	53.49500226	PERG	24.55076074	VPER	36397.75683
	INCL	37.63589000	MA	-4.698084116	TA	207.0805644	PERD	35156.90234	EARTH	ELLIPSE
	WT	25563.5083C	DVV	.1276345458						
1"	XP	-5.210432350	ELAT	.1405675523	ELK	113.9431047	VERA	-113.7010231	VEDC	-29.39556765

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YP	14.01085531	ELON	.3380654044	SLK	175.2629413	VSRA	-37.70708513	VSDC	-14.86124098
	NOT ECLIPSED	SVE	70.74942588	TLK	46.70937252	VTRA	88.35073757	VTDC	26.85596370

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.075	140.255	64.525	119.018	46.944
VEGA	278.921	38.748	74.628	113.655	67.205	114.088	75.541
B-CAPRICORNI	304.734	-14.900	55.463	144.120	16.966	167.512	69.763
A-PAVONIS	305.683	-56.856	49.188	140.005	43.850	138.485	63.482
DENEB	310.042	45.147	94.365	98.604	61.030	118.137	98.158

9 FEB. 1968 15 HR 25 MIN 40.66 SEC TMST 563477.6796 J.D. 2439896.1428 6 DAY 12 HR 31.3 MIN

GEOCENTRIC

	ALT	280793208.0	R	301701120.0	VI	9013.634399	X	98025230.00	VX	-5157.061523
77	LTDM	30.20994615	RASC	67.95502376	FPVI	-73.62769508	Y	242073706.0	VY	-6542.691772
	LONM	57.74224042	DECL	30.04290223	AZVI	66.18065929	Z	151046164.0	VZ	-3441.439788
	A	1166352368.	ASND	19.35984897	VVEN	-12068855.87	APOG	377006.2539	VAPG	331.6016845
	ECC	.9819424674	ARGP	206.41465995	ARGL	55.07386302	PERG	24.95097517	VPER	36395.64013
	INCL	37.63495254	MA	-4.083645403	TA	208.6592006	PERD	35158.09521	EARTH	ELLIPSE
	WT	25563.50830	DVV	.1545939483						
	XP	-5.078837633	ELAT	.1478795633	ELK	115.4357166	VERA	-112.0449733	VEDC	-30.04290223
	YP	12.51717782	ELON	.3641456254	SLK	175.2170677	VSRA	-37.66210937	VSDC	-14.84658634
		NOT ECLIPSED	SVE	69.29588317	TLK	47.04729843	VTRA	87.97325038	VTDC	26.89137792

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.120	140.263	64.560	119.018	46.725
VEGA	278.921	38.748	74.600	113.567	67.219	114.088	75.458
B-CAPRICORNI	304.734	-14.900	54.052	143.783	17.010	167.512	68.924
A-PAVONIS	305.683	-56.856	47.786	139.861	43.874	138.485	62.640
DENEB	310.042	45.147	93.963	98.413	61.023	118.137	97.952

9 FEB. 1968 16 HR 25 MIN 40.66 SEC TMST 567077.6796 J.D. 2439896.1845 6 DAY 13 HR 31.3 MIN

GEOCENTRIC

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	ALT	248736090.0	R	269643172.0	VI	9609.063476	X	79120194.00	VX	-5349.498474
77	LTDM	30.98028159	RASC	70.02294445	FPVI	-72.79090690	Y	217652106.0	VY	-7043.173889
	LONM	44.76910543	DECL	30.81073546	AZVI	67.22937297	Z	138112262.0	VZ	-3756.417358
	A	1165803200.	ASND	19.35803985	VVEN	-12074540.87	APOG	376825.1757	VAPG	331.7738800
	ECC	.9819323122	ARGP	206.4154663	ARGL	57.01666307	PERG	25.26733684	VPER	36393.88623
	INCL	37.63420057	MA	-3.471802204	TA	210.6011943	PERD	35133.26708	EARTH	ELLIPSE
	WT	25563.50830	CVV	.1935580596						
	XP	-4.915347516	ELAT	.1567344609	ELK	117.2700033	VERA	-109.9770536	VEDC	-30.81073594
	YP	10.93426203	ELON	.3964984454	SLK	175.1709613	VSRA	-37.61693239	VSDC	-14.83182013
		NOT ECLIPSED	SVE	67.49847888	TLK	47.39997148	VTRA	87.57927799	VTDC	26.93258213

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.235	140.264	64.595	119.018	46.477
VEGA	278.921	38.748	74.583	113.469	67.232	114.088	75.361
B-CAPRICORNI	304.734	-14.900	52.325	143.431	17.054	167.512	67.908
A-PAVONIS	305.683	-56.856	46.072	139.713	43.898	138.485	61.622
DENEB	310.042	45.147	93.463	98.208	61.016	118.137	97.699

9 FEB. 1968 17 HR 25 MIN 40.66 SEC TMST 570677.6796 J.D. 2439896.2261 6 DAY 14 HR 31.3 MIN

GEOCENTRIC

	ALT	214545666.0	R	235451726.0	VI	10367.90661	X	59478149.00	VX	-5567.163208
77	LTDM	31.91768026	RASC	72.71929264	FPVI	-71.69751167	Y	191189082.0	VY	-7688.297424
	LONM	32.42439746	DECL	31.74525380	AZVI	68.63063144	Z	123881394.0	VZ	-4170.163513
	A	1165565760.	ASND	19.35650491	VVEN	-12077000.87	APOG	376746.8046	VAPG	331.8521308
	ECC	.9819275141	ARGP	206.4160423	ARGL	59.50450849	PERG	25.48165965	VPER	36392.71728
	INCL	37.63362264	MA	-2.857920169	TA	213.0884609	PERD	35122.53369	EARTH	ELLIPSE
	WT	25563.50830	CVV	.2538762800						
	XP	-4.70796734	ELAT	.1678269040	ELK	119.6140346	VERA	-107.2807054	VEDC	-31.74525356
	YP	9.241379141	ELON	.4382797666	SLK	175.1245861	VSRA	-37.57151079	VSDC	-14.81691730
		NOT ECLIPSED	SVE	65.18752384	TLK	47.76794052	VTRA	87.16823482	VTDC	26.98194456

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STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.477	140.255	64.630	119.018	46.191
VEGA	278.921	38.748	74.587	113.358	67.245	114.088	75.247
B-CAPRICORNI	304.734	-14.900	50.128	143.062	17.099	167.512	66.629
A-PAVONIS	305.683	-56.856	43.897	139.563	43.923	138.485	60.340
DENEB	310.042	45.147	92.818	97.988	61.009	118.137	97.376

9 FEB. 1968 18 HR 25 MIN 40.66 SEC TMST 574277.6796 J.D. 2439896.2678 6 DAY 15 HR 31.3 MIN

GEOCENTRIC

	ALT	177619540.0	R	198524288.0	VI	11390.01477	X	39005670.50	VX	-5810.125427
77	LTDM	33.09603738	RASC	76.46366596	FPVI	-70.18216514	Y	162017644.0	VY	-8568.828002
	LONM	21.12767362	DECL	32.92025136	AZVI	70.63480472	Z	107892233.0	VZ	-4748.691284
	A	1165342272.	ASND	19.35516762	VVEN	-12079317.00	APOG	376673.1054	VAPG	331.9224700
	ECC	.9819233566	ARGP	206.4167518	ARGL	62.88028144	PERG	25.61431026	VPER	36391.98291
	INCL	37.63315391	MA	-2.243602722	TA	216.4635257	PERD	35112.43261	EARTH	ELLIPSE
	WT	25563.50830	CVV	.3571302891						
	XP	-4.436010241	ELAT	.1823980063	ELK	122.7838439	VERA	-103.5363311	VEDC	-32.92025136
	YP	7.406742930	ELON	.4954997748	SLK	175.0778675	VSRA	-37.52576398	VSDC	-14.80183327
		NOT ECLIPSED	SVE	62.04335117	TLK	48.15067672	VTRA	86.74077892	VTDC	27.04371237

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	45.973	140.230	64.665	119.018	45.859
VEGA	278.921	38.748	74.641	113.230	67.259	114.088	75.108
B-CAPRICORNI	304.734	-14.900	47.180	142.676	17.143	167.512	64.925
A-PAVONIS	305.683	-56.856	40.990	139.415	43.948	138.485	58.634
DENEB	310.042	45.147	91.935	97.749	61.002	118.137	96.939

9 FEB. 1968 19 HR 25 MIN 40.66 SEC TMST 577677.6796 J.D. 2439896.3095 6 DAY 16 HR 31.3 MIN

GEOCENTRIC

	ALT	136976748.0	R	157879750.0	VI	12893.34228	X	17635559.50	VX	-6058.418762
77	LTDM	34.63473129	RASC	82.21434879	FPVI	-67.87631034	Y	128982969.0	VY	-9884.273559
	LONM	11.83730173	DECL	34.45500516	AZVI	73.82755470	Z	89321871.00	VZ	-5642.249023

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A	1165134096.	ASND	19.3538177C	VVEN	-12081475.25	APOG	376604.5195	VAPG	331.9851875
ECC	.9819197878	ARGP	206.4177246	ARGL	67.90554332	PERG	25.67931890	VPER	36391.60888
INCL	37.63277292	MA	-1.628889113	TA	221.4878158	PERD	35103.02490	EARTH	ELLIPSE
WT	25563.50830	CVV	.5647050589						
XP	-4.059838593	ELAT	.2029588353	ELK	127.4730501	VERA	-97.78564929	VEDC	-34.45500516
YP	5.378232359	ELON	.5816177577	SLK	175.0306587	VSRA	-37.47958564	VSDC	-14.78649497
	NOT ECLIPSED	SVE	57.36197471	TLK	48.54371833	VTRA	86.30208206	VTDC	27.12628316

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	47.052	140.181	64.701	119.018	45.476
VEGA	278.921	38.748	74.821	113.077	67.273	114.088	74.934
B-CAPRICORNI	304.734	-14.900	42.879	142.277	17.189	167.512	62.443
A-PAVONIS	305.683	-56.856	36.784	139.278	43.973	138.485	56.151
DENEB	310.042	45.147	90.610	97.486	60.994	118.137	96.287

9 FEB. 1968 20 HR 25 MIN 40.66 SEC TMST 581477.6796 J.D. 2439896.3511 6 DAY 17 HR 31.3 MIN

GEOCENTRIC

	ALT	90791586.00	R	111692239.0	VI	15491.15026	X	-4466247.812	VX	-6160.797729
77	LTDM	36.65771675	RASC	92.85032556	FPVI	-63.69997596	Y	89704062.00	VY	-12196.52355
	LONM	7.432221591	DECL	36.47359800	AZVI	80.01258563	Z	66395711.00	VZ	-7298.295471
	A	1164923456.	ASND	19.35171723	VVEN	-12083659.75	APOG	376535.1875	VAPG	332.0456428
	ECC	.9819165021	ARGP	206.4196109	ARGL	76.79685878	PERG	25.68248701	VPER	36391.56201
	INCL	37.63236713	MA	-1.013839110	TA	230.3772449	PERD	35093.50585	EARTH	ELLIPSE
	WT	25563.50830	CVV	1.128341496						
	XP	-3.485482692	ELAT	.2355583999	ELK	135.6459884	VERA	-87.14967060	VEDC	-36.47359800
	YP	3.058607995	ELON	.7363080531	SLK	174.9827117	VSRA	-37.43275403	VSDC	-14.77074706
		NOT ECLIPSED	SVE	49.13356828	TLK	48.92611837	VTRA	85.87619400	VTDC	27.25034093

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	49.879	140.086	64.737	119.018	45.109
VEGA	278.921	38.748	75.430	112.884	67.286	114.088	74.714

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B-CAPRICORNI	304.734	-14.900	35.639	141.882	17.235	167.512	58.168
A-PAVONIS	305.683	-56.856	29.870	139.181	43.998	138.485	51.882
DENEB	310.042	45.147	88.259	97.191	60.987	118.137	95.125

9 FEB. 1968 20 HR 39 MIN 40.66 SEC TMST 582317.6796 J.D. 2439896.3609 6 DAY 17 HR 45.3 MIN

GEOCENTRIC

	ALT	78864446.00	R	99764503.00	VI	16435.05444	X	-9616275.000	VX	-6088.487365
77	LTDM	37.16317367	RASC	96.93009376	FPVI	-62.12428855	Y	79116149.00	VY	-13042.86755
	LONM	8.002393841	DECL	36.97809934	AZVI	82.45346450	Z	60009319.00	VZ	-7932.524780
	A	1164859504.	ASND	19.35084128	VVEN	-12084323.12	APOG	376514.1367	VAPG	332.0636634
	ECC	.9819155410	ARGP	206.4204235	ARGL	80.10592746	PERG	25.67639756	VPER	36391.58544
	INCL	37.63225317	MA	-.8702958673	TA	233.6855010	PERD	35090.61523	EARTH	ELLIPSE
	WT	25563.50830	DVV	1.414280533						
	XP	-3.299219965	ELAT	.2463146355	ELK	138.6304054	VERA	-83.06990337	VEDC	-36.97809934
	YP	2.456965357	ELON	.7945558950	SLK	174.9713649	VSRA	-37.42168855	VSDC	-14.76697814
		NOT ECLIPSED	SVE	46.10581445	TLK	49.00621461	VTRA	85.78736877	VTDC	27.29064369

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-OPHIUCHI	263.304	12.586	51.196	140.051	64.746	119.018	45.071
VEGA	278.921	38.748	75.748	112.830	67.289	114.088	74.660
B-CAPRICORNI	304.734	-14.900	33.118	141.797	17.246	167.512	56.606
A-PAVONIS	305.683	-56.856	27.555	139.173	44.005	138.485	50.326
DENEB	310.042	45.147	87.391	97.117	60.985	118.137	94.689

IMPACT

9 FEB. 1968 22 HR 1 MIN 57.92 SEC TMST 587254.9375 J.D. 2439896.4180 6 DAY 19 HR 7.6 MIN

GEOCENTRIC

	ALT	495229.9609	R	21419904.75	VI	36096.60253	X	-18685994.00	VX	20011.72485
77	LTDM	-7.053601801	RASC	208.4864234	FPVI	-7.442717552	Y	-10139937.12	VY	-21627.61279
	LONM	98.93047714	DECL	-7.006859779	AZVI	127.0833950	Z	-2612975.218	VZ	-20850.46679
	A	1237263808.	ASND	19.31826639	VVEN	-11377152.00	APOG	400347.9687	VAPG	312.4845848

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ECC	.9829806834	ARGP	206.5359516	ARCL	191.5208988	PERG	24.28249716	VPER	36408.68261
INCL	37.64589405	MA	-.0239432275	TA	344.9849433	PERD	38412.63818	EARTH	ELLIPSE
WT	25563.50830	DVV	30.72592926						
XP	-.3699189946	ELAT	.0727410503	ELK	106.1321725	VERA	28.48642873	VEDC	7.006859838
YP	-.0438422933	ELCN	2.770812124	SLK	174.9031238	VSRA	-37.35559940	VSDC	-14.74294614
	ECLIPSED	SVE	68.79042816	TLK	48.44226694	VTRA	86.45285034	VTDC	27.96893501

STAR	RASC	DECL.	EPS	MPS	SPS	BAPS	VPS
A-CPHIUCHI	263.304	12.586	122.111	139.331	64.796	119.018	66.933
VEGA	278.921	38.748	100.537	112.274	67.307	114.088	80.378
B-CAPRICORNI	304.734	-14.900	85.813	142.240	17.311	167.512	21.625
A-PAVONIS	305.683	-56.856	91.958	140.062	44.043	138.485	22.098
DENEB	310.042	45.147	76.897	96.817	60.972	118.137	80.469

RE-ENTRY ABOVE 400,000 FT.

9 FEB. 1968 22 HR 1 MIN 57.91 SEC TMST 587254.9375 J.D. 2439896.4180 6 DAY 19 HR 7.6 MIN

GEOCENTRIC

	ALT	495215.5000	R	21419904.50	VI	36096.60205	X	-18685993.50	VX	20011.72412
78	LTDM	-7.053602159	RASC	208.4864273	FPVI	-7.442717552	Y	-10139936.75	VY	-21627.61230
	LONM	98.93048095	DECL	-7.006860077	AZVI	127.0834035	Z	-2612975.218	VZ	-20850.46679
	A	123725536.0.	ASND	19.31826782	VVEN	-11377232.00	APOG	400345.1835	VAPG	312.4867057
	ECC	.9829805717	ARGP	206.5359497	ARCL	191.5209026	PERG	24.28163313	VPER	36408.68701
	INCL	37.64589452	MA	359.9760475	TA	344.9849472	PERD	38412.24414	EARTH	ELLIPSE
	WT	9500.000000	ATLI	97.44271755	VA	34883.15332	AAAP	-.00000000 00	VIR	-4675.771301
	DVV	30.72592973	AMIS	127.0833988	FPVA	-7.703165054	AAAY	-.00000000 00	VIT	35792.48291
	RANG	2438.623565	RLAT	.00000000 00	AZVA	128.6329727	AAAT	.00000000 00	VAT	-34568.36035

9 FEB. 1968 22 HR 1 MIN 57.91 SEC TMST 587254.9375 J.D. 2439896.4180 6 DAY 19 HR 7.6 MIN

GEOCENTRIC

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	ALT	495215.5000	R	21419904.50	VI	36096.60205	X	-18685993.50	VX	20011.72412
78	LTDM	-7.053602159	RASC	208.4864273	FPVI	-7.442717552	Y	-10139936.75	VY	-21627.61230
	LONM	98.93048095	DECL	-7.006860077	AZVI	127.0834035	Z	-2612975.218	VZ	-20850.46679
	A	1237255360.	ASND	19.31826782	VVEN	-11377232.00	APOG	400345.1835	VAPG	312.4867057
	ECC	.9829805717	ARGP	206.5359497	ARGL	191.5209026	PERG	24.28163313	VPER	36408.68701
	INCL	37.64589452	MA	359.9760475	TA	344.9849472	PERD	38412.24414	EARTH	ELLIPSE
	WT	9500.000000	ATLI	97.44271755	VA	34883.15332	AAAP	-.00000000 00	VIR	-4675.771301
	DVV	30.72592973	AMIS	127.0833988	FPVA	-7.703165054	AAAY	-.00000000 00	VIT	35792.48291
	RANG	2438.623565	RLAT	.00000000 00	AZVA	128.6329727	AAAT	.00000000 00	VAT	-34568.36035

SECONDARY PHASE CUTOFF ---- PHASE TIME LAPSE .00000000 00

ITER. COMPARE POINT FOR ROUGH CUT

9 FEB. 1968 22 HR 1 MIN 57.91 SEC TMST 587254.9375 J.D. 2439896.4180 6 DAY 19 HR 7.6 MIN

GEOCENTRIC

	ALT	495215.5000	R	21419904.50	VI	36096.60205	X	-18685993.50	VX	20011.72412
79	LTDM	-7.053602159	RASC	208.4864273	FPVI	-7.442717552	Y	-10139936.75	VY	-21627.61230
	LONM	98.93048095	DECL	-7.006860077	AZVI	127.0834035	Z	-2612975.218	VZ	-20850.46679
	A	1237255360.	ASND	19.31826782	VVEN	-11377232.00	APOG	400345.1835	VAPG	312.4867057
	ECC	.9829805717	ARGP	206.5359497	ARGL	191.5209026	PERG	24.28163313	VPER	36408.68701
	INCL	37.64589452	MA	359.9760475	TA	344.9849472	PERD	38412.24414	EARTH	ELLIPSE
	WT	9500.000000	ATLI	97.44271755	VA	34883.15332	AAAP	-.00000000 00	VIR	-4675.771301
	DVV	30.72592973	AMIS	127.0833988	FPVA	-7.703165054	AAAY	-.00000000 00	VIT	35792.48291
	RANG	2438.623565	RLAT	.00000000 00	AZVA	128.6329727	AAAT	.00000000 00	VAT	-34568.36035

9 FEB. 1968 22 HR 1 MIN 58.97 SEC TMST 587256.0000 J.D. 2439896.4180 6 DAY 19 HR 7.6 MIN

GEOCENTRIC

	ALT	490282.0000	R	21414952.75	VI	36100.81005	X	-18664715.75	VX	20040.19604
79	LTDM	-7.115347504	RASC	208.5682201	FPVI	-7.392365455	Y	-10162907.87	VY	-21612.13549
	LONM	99.00787353	DECL	-7.068204641	AZVI	127.0733661	Z	-2635126.687	VZ	-20846.45335
	A	1237243120.	ASND	19.31826019	VVEN	-11377328.00	APOG	400341.1562	VAPG	312.4897613

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ECC	.9829804078	ARGP	206.5361137	ARGL	191.6226539	PERG	24.28072786	VPER	36408.69042
INCL	37.64587974	MA	359.9762115	TA	345.0865364	PERD	38411.67382	EARTH	ELLIPSE
WT	9500.000000	ATLI	97.34096908	VA	34887.48242	AAAP	-.00000000 00	VIR	-4644.856018
DVV	30.74012494	AMIS	127.0733766	FPVA	-7.650972366	AAAY	-.00000000 00	VIT	35800.75146
RANG	2432.719848	RLAT	.00000000 00	AZVA	128.6216316	AAAT	.00000000 00	VAT	-34576.89599

9 FEB. 1968 22 HR 2 MIN 2.97 SEC TMST 587260.0000 J.D. 2439896.4181 6 DAY 19 HR 7.7 MIN

GEOCENTRIC

ALT	472006.2500	R	21396606.50	VI	36116.41406	X	-18584341.00	VX	20147.26708
79 LTDM	-7.347922682	RASC	208.8766746	FPVI	-7.202595710	Y	-10249239.25	VY	-21553.46142
LONM	99.29959106	DECL	-7.29927200	AZVI	127.0347337	Z	-2718481.812	VZ	-20831.01733
A	1237205056.	ASND	19.31824111	VVEN	-11377696.00	APOG	400328.6367	VAPG	312.4991989
ECC	.9829799086	ARGP	206.5367279	ARGL	192.0061416	PERG	24.27574944	VPER	36408.71240
INCL	37.64582109	MA	359.9768333	TA	345.4694137	PERD	38409.90087	EARTH	ELLIPSE
WT	9500.000000	ATLI	96.95750045	VA	34903.53515	AAAP	-.00000000 00	VIR	-4528.211547
DVV	30.79279947	AMIS	127.0348033	FPVA	-7.454279899	AAAY	-.00000000 00	VIT	35831.41992
RANG	2410.477355	RLAT	.00000000 00	AZVA	128.5780906	AAAT	.00000000 00	VAT	-34608.55468

9 FEB. 1968 22 HR 2 MIN 6.97 SEC TMST 587264.0000 J.D. 2439896.4181 6 DAY 19 HR 7.7 MIN

GEOCENTRIC

ALT	454200.2500	R	21378727.50	VI	36131.63818	X	-18503537.75	VX	20254.14575
79 LTDM	-7.580676734	RASC	209.1859741	FPVI	-7.012503623	Y	-10335334.62	VY	-21494.14111
LONM	99.59219360	DECL	-7.53052020	AZVI	126.9947566	Z	-2801774.125	VZ	-20815.06005
A	1237153392.	ASND	19.31821823	VVEN	-11378176.00	APOG	400311.6289	VAPG	312.5121078
ECC	.9829792157	ARGP	206.5373382	ARGL	192.3902759	PERG	24.27212858	VPER	36408.72460
INCL	37.64576005	MA	359.9774551	TA	345.8529357	PERD	38407.49511	EARTH	ELLIPSE
WT	9500.000000	ATLI	96.57337951	VA	34919.19433	AAAP	-.00000000 00	VIR	-4411.166015
DVV	30.84425306	AMIS	126.9948873	FPVA	-7.257275581	AAAY	-.00000000 00	VIT	35861.35595
RANG	2388.194000	RLAT	.00000000 00	AZVA	128.5332126	AAAT	.00000000 00	VAT	-34639.45312

9 FEB. 1968 22 HR 2 MIN 10.97 SEC TMST 587268.0000 J.D. 2439896.4182 6 DAY 19 HR 7.8 MIN

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GEOCENTRIC

	ALT	436865.5000	R	21361317.75	VI	36146.47900	X	-18422307.75	VX	20360.82080
79	LTDM	-7.813592493	RASC	209.4961128	FPVI	-6.822094917	Y	-10421191.50	VY	-21434.17773
	LONM	99.88562011	DECL	-7.761932373	AZVI	126.9534254	Z	-2885001.593	VZ	-20798.58056
	A	1237089504.	ASND	19.31819534	VVEN	-11378752.00	APOG	400290.6054	VAPG	312.5281181
	ECC	.9829783588	ARGP	206.5379524	ARGL	192.7750473	PERG	24.26760268	VPER	36408.74072
	INCL	37.64569711	MA	359.9780769	TA	346.2370948	PERD	38404.52001	EARTH	ELLIPSE
	WT	9500.000000	ATLI	96.18862724	VA	34934.45800	AAAP	-.00000000 00	VIR	-4293.728576
	DVV	30.89447283	AMIS	126.9536218	FPVA	-7.059967041	AAAY	-.00000000 00	VIT	35890.55322
	RANG	2365.873260	RLAT	.00000000 00	AZVA	128.4869899	AAAT	.00000000 00	VAT	-34669.58691

9 FEB. 1968 22 HR 2 MIN 14.97 SEC TMST 587272.0000 J.D. 2439896.4182 6 DAY 19 HR 7.9 MIN

GEOCENTRIC

	ALT	420003.2500	R	21344378.25	VI	36160.93457	X	-18340651.50	VX	20467.28076
79	LTDM	-8.046652197	RASC	209.8070945	FPVI	-6.631379127	Y	-10506807.25	VY	-21373.57324
	LONM	100.1798706	DECL	-7.993490815	AZVI	126.9107379	Z	-2968162.093	VZ	-20781.57788
	A	1237012032.	ASND	19.31817245	VVEN	-11379456.00	APOG	400265.1093	VAPG	312.5475769
	ECC	.9829773158	ARGP	206.5385704	ARGL	193.1604385	PERG	24.26291227	VPER	36408.75585
	INCL	37.64563226	MA	359.9787025	TA	346.6218681	PERD	38400.91210	EARTH	ELLIPSE
	WT	9500.000000	ATLI	95.80325508	VA	34949.32275	AAAP	-.00000000 00	VIR	-4175.908020
	DVV	30.94344377	AMIS	126.9109973	FPVA	-6.862360954	AAAY	-.00000000 00	VIT	35919.00585
	RANG	2343.516235	RLAT	.00000000 00	AZVA	128.4394149	AAAT	.00000000 00	VAT	-34698.94726

9 FEB. 1968 22 HR 2 MIN 18.97 SEC TMST 587276.0000 J.D. 2439896.4183 6 DAY 19 HR 7.9 MIN

GEOCENTRIC

	ALT	403615.7500	R	21327911.00	VI	36175.00244	X	-18258569.75	VX	20573.51538
79	LTDM	-8.279838085	RASC	210.1189174	FPVI	-6.440362930	Y	-10592179.25	VY	-21312.33056
	LONM	100.4750061	DECL	-8.225178122	AZVI	126.8666782	Z	-3051253.531	VZ	-20764.05126
	A	1236923696.	ASND	19.31814575	VVEN	-11380272.00	APOG	400236.0351	VAPG	312.5698165
	ECC	.9829761162	ARGP	206.5391845	ARGL	193.5464382	PERG	24.25962066	VPER	36408.76220
	INCL	37.64556550	MA	359.9793205	TA	347.0072479	PERD	38396.79882	EARTH	ELLIPSE

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WT	9500.000000	ATLI	95.41727826	VA	34963.78662	AAAP	-.00000000 00	VIR	-4057.713897
DVV	30.99115228	AMIS	126.8670110	FPVA	-6.664464950	AAAY	-.00000000 00	VIT	35946.70703
RANG	2321.120971	RLAT	.00000000 00	AZVA	128.3904819	AAAT	.00000000 00	VAT	-34727.52978

9 FEB. 1968 22 HR 2 MIN 19.86 SEC TMST 587276.8906 J.D. 2439896.4183 6 DAY 19 HR 7.9 MIN

GEOCENTRIC

ALT	400000.2500	R	21324277.25	VI	36178.10791	X	-18240075.25	VX	20597.34423
79 LTDM	-8.332229256	RASC	210.1890716	FPVI	-6.397418022	Y	-10611320.87	VY	-21298.48706
LONM	100.5414428	DECL	-8.277233243	AZVI	126.8565921	Z	-3069906.937	VZ	-20760.04248
A	1236900592.	ASND	19.31814193	VVEN	-11380480.00	APOG	400228.4296	VAPG	312.5756378
ECC	.9829758033	ARGP	206.5393295	ARGL	193.6332168	PERG	24.25859212	VPER	36408.76464
INCL	37.64555025	MA	359.9794654	TA	347.0938873	PERD	38395.72363	EARTH	ELLIPSE
WT	9500.000000	ATLI	95.33050346	VA	34966.97949	AAAP	-.00000000 00	VIR	-4031.115844
DVV	31.00169396	AMIS	126.8569431	FPVA	-6.619976043	AAAY	-.00000000 00	VIT	35952.82421
RANG	2316.084472	RLAT	.00000000 00	AZVA	128.3793010	AAAT	.00000000 00	VAT	-34733.84130

PRIMARY PHASE CUTOFF ---- ALTITUDE 400000.2500

RE-ENTRY BELOW 400,000 FT. TO BETI =90 DEG.

9 FEB. 1968 22 HR 2 MIN 19.86 SEC TMST 587276.8906 J.D. 2439896.4183 6 DAY 19 HR 7.9 MIN

GEOCENTRIC

ALT	400000.2500	R	21324277.25	VI	36178.10791	X	-18240075.25	VX	20597.34423
81 LTDM	-8.332229256	RASC	210.1890716	FPVI	-6.397418022	Y	-10611320.87	VY	-21298.48706
LONM	100.5414428	DECL	-8.277233243	AZVI	126.8565921	Z	-3069906.937	VZ	-20760.04248
WT	9500.000000	ATLI	95.33050346	VA	34966.97949	AAAP	-.00000000 00	VIR	-4031.115844
DVV	31.00169396	AMIS	126.8569431	FPVA	-6.619976043	AAAY	-.00000000 00	VIT	35952.82421
RANG	2316.084472	RLAT	.00000000 00	AZVA	128.3793010	AAAT	.00000000 00	VAT	-34733.84130

9 FEB. 1968 22 HR 2 MIN 22.97 SEC TMST 587280.0000 J.D. 2439896.4183 6 DAY 19 HR 8.0 MIN

GEOCENTRIC

ALT	387673.0000	R	21311886.25	VI	36188.67382	X	-18175902.00	VX	20679.69238
81 LTDM	-8.513588070	RASC	210.4321918	FPVI	-6.248660087	Y	-10677471.00	VY	-21250.31958

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LONM	100.7715454	DECL	-8.457429528	AZVI	126.8211622	Z	-3134435.843	VZ	-20745.94824
WT	9500.000000	ATLI	95.02996063	VA	34977.84179	AAAP	-.00000000 00	VIR	-3938.907684
DVV	31.03145599	AMIS	126.8215646	FPVA	-6.465877532	AAAY	-.00000000 00	VIT	35973.67236
RANG	2298.647308	RLAT	.00000000 00	AZVA	128.3400802	AAAT	.00000000 00	VAT	-34755.35058
LIFT	.0048809841								
DRG	3.603014081	C	.0216181543	MACH	41.32266664	SS	846.4565429	ADEN	.35339678-10

9 FEB. 1968 22 HR 2 MIN 26.97 SEC TMST 587284.0000 J.D. 2439896.4184 6 DAY 19 HR 8.1 MIN

GEOCENTRIC									
ALT	372239.2500	R	21296368.50	VI	36201.88964	X	-18092971.75	VX	20785.38232
81 LTDM	-8.746972084	RASC	210.7456951	FPVI	-6.057024002	Y	-10762347.37	VY	-21187.78442
LONM	101.0683593	DECL	-8.689321041	AZVI	126.7743530	Z	-3217382.593	VZ	-20727.33642
WT	9500.000000	ATLI	94.64282417	VA	34991.42626	AAAP	-.00000000 00	VIR	-3819.959594
DVV	31.07136178	AMIS	126.7748279	FPVA	-6.267380714	AAAY	-.00000000 00	VIT	35999.78759
RANG	2276.182617	RLAT	.00000000 00	AZVA	128.2884063	AAAT	.00000000 00	VAT	-34782.29150
LIFT	.0090519679								
DRG	6.681924581	C	.0400916771	MACH	41.33871555	SS	846.4565429	ADEN	.65487879-10

9 FEB. 1968 22 HR 2 MIN 30.97 SEC TMST 587288.0000 J.D. 2439896.4184 6 DAY 19 HR 8.1 MIN

GEOCENTRIC									
ALT	357284.2500	R	21281327.00	VI	36214.64160	X	-18009619.50	VX	20890.75366
81 LTDM	-8.580427622	RASC	211.0600376	FPVI	-5.865069389	Y	-10846972.50	VY	-21124.59716
LONM	101.3659667	DECL	-8.921287536	AZVI	126.7261552	Z	-3300253.812	VZ	-20708.16479
WT	9500.000000	ATLI	94.25513458	VA	35004.53417	AAAP	-.00000000 00	VIR	-3700.633666
DVV	31.10202217	AMIS	126.7267093	FPVA	-6.068572998	AAAY	-.00000000 00	VIT	36025.06835
RANG	2253.686798	RLAT	.00000000 00	AZVA	128.2353553	AAAT	.00000000 00	VAT	-34808.37109
LIFT	.0196100250								
DRG	14.47560465	C	.0868539084	MACH	41.35420084	SS	846.4565429	ADEN	.14176557-09

9 FEB. 1968 22 HR 2 MIN 34.97 SEC TMST 587292.0000 J.D. 2439896.4185 6 DAY 19 HR 8.2 MIN

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GEOCENTRIC

	ALT	342809.7500	R	21266764.0C	VI	36226.81591	X	-17925846.50	VX	20995.69482
81	LTDM	-9.213935136	RASC	211.3752155	FPVI	-5.672736167	Y	-10931343.37	VY	-21060.72363
	LONM	101.6644287	DECL	-9.1533C9583	AZVI	126.6765546	Z	-3383047.C93	VZ	-20688.37646
	WT	9500.00000C	ATLI	93.86690711	VA	35017.C5078	AAAP	-.00C00000 00	VIR	-358C.885498
	DVV	31.11291193	AMIS	126.6772003	FPVA	-5.869394302	AAAY	-.00000000 00	VIT	36049.40234
	RANG	2231.157745	RLAT	.COCOOOOO 0C	AZVA	128.18C9196	AAAT	.00000000 00	VAT	-34833.47656
	LIFT	.0451737051								
	DRG	33.34604120	G	.200076894E	MACH	41.36898803	SS	846.4565429	ADEN	.32633812-09

9 FEB. 1968 22 HR 2 MIN 38.97 SEC TMST 587296.0000 J.D. 2439896.4185 6 DAY 19 HR 8.3 MIN

GEOCENTRIC

	ALT	328817.000C	R	21252680.5C	VI	36238.22998	X	-17841654.75	VX	21100.03295
81	LTDM	-9.447475314	RASC	211.691225C	FPVI	-5.479918479	Y	-11015457.37	VY	-20996.10864
	LONM	101.9637451	DECL	-9.385367870	AZVI	126.6255483	Z	-3465759.875	VZ	-20667.88134
	WT	9500.00000C	ATLI	93.47816181	VA	35028.79248	AAAP	-.0CC00000 00	VIR	-3460.638793
	DVV	31.09166598	AMIS	126.6262979	FPVA	-5.669734001	AAAY	-.00000000 00	VIT	36072.61132
	RANG	2208.596649	RLAT	.COCOOOOO 0C	AZVA	128.1250915	AAAT	.00000000 00	VAT	-34857.42773
	LIFT	.C963138817								
	DRG	71.09637355	G	.426579616S	MACH	41.38285970	SS	846.4565429	ADEN	.69531208-09

9 FEB.. 1968 22 HR 2 MIN 42.97 SEC TMST 587300.0000 J.D. 2439896.4185 6 DAY 19 HR 8.3 MIN

GEOCENTRIC

	ALT	315309.250C	R	21239079.75	VI	36248.44824	X	-17757047.50	VX	21203.36962
81	LTDM	-9.681024909	RASC	212.0080642	FPVI	-5.286362648	Y	-11C99311.12	VY	-20930.61499
	LONM	102.2638549	DECL	-9.617440104	AZVI	126.5731096	Z	-3548388.937	VZ	-20646.46411
	WT	9500.00000C	ATLI	93.08892059	VA	35039.32373	AAAP	-.0CC00000 00	VIR	-3339.700012
	DVV	30.99177479	AMIS	126.5739974	FPVA	-5.469328880	AAAY	-.00C00000 00	VIT	36C94.27099
	RANG	2186.007537	RLAT	.COCOOOOO 0C	AZVA	128.0678710	AAAT	.00000000 00	VAT	-34879.80224
	LIFT	.2130167894								
	DRG	157.2433910	G	.9434633851	MACH	41.39530134	SS	846.4565429	ADEN	.15368929-08

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9 FEB. 1968 22 HR 2 MIN 46.97 SEC TMST 587304.0000 J.D. 2439896.4186 6 DAY 19 HR 8.4 MIN

GEOCENTRIC

	ALT	302289.0000	R	21225964.50	VI	36256.41406	X	-17672030.25	VX	21304.74365
81	LTDM	-9.914558172	RASC	212.3257198	FPVI	-5.091419219	Y	-11182900.62	VY	-20863.90478
	LONM	102.5647888	DECL	-9.849499583	AZVI	126.5191907	Z	-3630929.687	VZ	-20623.60107
	WT	9500.000000	ATLI	92.69921398	VA	35047.58593	AAAP	-.00000000 00	VIR	-3217.580841
	DVV	30.71103310	AMIS	126.5202922	FPVA	-5.267515182	AAAY	-.00000000 00	VIT	36113.35937
	RANG	2163.389892	RLAT	.00000000 00	AZVA	128.0092525	AAAT	.00000000 00	VAT	-34899.57666
	LIFT	.4901352599								
	DRG	361.8049583	C	2.170836746	MACH	41.40506219	SS	846.4565429	ADEN	.35346055-08

9 FEB. 1968 22 HR 2 MIN 50.97 SEC TMST 587308.0000 J.D. 2439896.4186 6 DAY 19 HR 8.5 MIN

GEOCENTRIC

	ALT	289764.0000	R	21213342.00	VI	36259.77880	X	-17586615.00	VX	21402.03149
81	LTDM	-10.14803683	RASC	212.6441631	FPVI	-4.893655777	Y	-11266219.62	VY	-20795.22998
	LONM	102.8665466	DECL	-10.08150923	AZVI	126.4636974	Z	-3713374.281	VZ	-20598.13159
	WT	9500.000000	ATLI	92.30908775	VA	35051.22705	AAAP	-.00000000 00	VIR	-3093.198822
	DVV	30.13112878	AMIS	126.4651823	FPVA	-5.062819480	AAAY	-.00000000 00	VIT	36127.60253
	RANG	2140.745727	RLAT	.00000000 00	AZVA	127.9492321	AAAT	.00000000 00	VAT	-34914.47607
	LIFT	1.073463618								
	DRG	792.4026184	C	4.754431068	MACH	41.40935611	SS	846.4566955	ADEN	.77396638-08

9 FEB. 1968 22 HR 2 MIN 54.97 SEC TMST 587312.0000 J.D. 2439896.4187 6 DAY 19 HR 8.5 MIN

GEOCENTRIC

	ALT	277745.7500	R	21201224.50	VI	36254.34130	X	-17500824.75	VX	21491.42846
81	LTDM	-10.38140285	RASC	212.9633445	FPVI	-4.690503120	Y	-11349258.12	VY	-20723.26367
	LONM	103.1690063	DECL	-10.31341159	AZVI	126.4064741	Z	-3795708.593	VZ	-20567.98754
	WT	9500.000000	ATLI	91.91862297	VA	35046.04003	AAAP	-.00000000 00	VIR	-2964.638397
	DVV	29.16166353	AMIS	126.4086751	FPVA	-4.852602005	AAAY	-.00000000 00	VIT	36132.92333
	RANG	2118.082763	RLAT	.00000000 00	AZVA	127.8878202	AAAT	.00000000 00	VAT	-34920.42138

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LIFT   2.238222241
DRG    1652.196807   G      9.913212895  MACH   41.40322828  SS     846.4566955  ADEN  .16142341-07

9 FEB.   1968 22 HR  2 MIN 58.97 SEC TMST  587316.0000  J.D. 2439896.4187   6 DAY 19 HR  8.6 MIN
GEOCENTRIC
 ALT    266258.2500  R      21189635.50  VI     36231.82128  X     -17414703.75  VX     21565.43603
 LTDM  -10.61455869  RASC   213.2831611  FPVI  -4.476396286  Y     -11431993.00  VY    -20645.40502
81 LONM  103.4721069  DECL  -10.54510939  AZVI   126.3472032  Z     -3877906.687  VZ    -20529.10351
 WT     9500.000000  ATLI   91.52796459  VA     35023.73291  AAAP -.00000000 00  VIR   -2828.151702
 DVV    28.17565321  AMIS   126.3507785  FPVA  -4.631651878  AAAY -.00000000 00  VIT    36121.27392
 RANG   2095.407958  RLAT   .00000000 00  AZVA   127.8250322  AAAT  .00000000 00  VAT   -34909.35986

LIFT   4.519121646
DRG    3335.896789   G      20.01544523  MACH   41.37687492  SS     846.4566955  ADEN  .32634006-07

9 FEB.   1968 22 HR  3 MIN  2.97 SEC TMST  587320.0000  J.D. 2439896.4188   6 DAY 19 HR  8.7 MIN
GEOCENTRIC
 ALT    255344.5000  R      21178618.25  VI     36178.64111  X     -17328338.25  VX     21611.74511
 LTDM  -10.84733510  RASC   213.6034107  FPVI  -4.244555473  Y     -11514407.75  VY    -20557.42358
81 LONM  103.7756652  DECL  -10.77643477  AZVI   126.2853851  Z     -3959920.750  VZ    -20474.83569
 WT     9500.000000  ATLI   91.13737392  VA     34970.71093  AAAP -.00000000 00  VIR   -2677.716796
 DVV    29.38758754  AMIS   126.2915334  FPVA  -4.391449928  AAAY -.00000000 00  VIT    36079.41064
 RANG   2072.736145  RLAT   .00000000 00  AZVA   127.7609071  AAAT  .00000000 00  VAT   -34868.04296

LIFT   8.212258696
DRG    6062.073486   G      36.37255811  MACH   40.19159269  SS     870.1001510  ADEN  .59483282-07

9 FEB.   1968 22 HR  3 MIN  6.97 SEC TMST  587324.0000  J.D. 2439896.4188   6 DAY 19 HR  8.7 MIN
GEOCENTRIC
 ALT    245071.2500  R      21168239.75  VI     36080.92675  X     -17241863.25  VX     21617.75830
 LTDM  -11.07947146  RASC   213.9237709  FPVI  -3.985171318  Y     -11596438.37  VY    -20455.06079
81 LONM  104.0792846  DECL  -11.00712871  AZVI   126.2205257  Z     -4041676.000  VZ    -20398.43823
 WT     9500.000000  ATLI   90.74726390  VA     34873.08300  AAAP -.00000000 00  VIR   -2507.563232
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DVV	36.13479423	AMIS	126.23099989	FPVA	-4.123434066	AAAY	-.00000000 00	VIT	35993.68505
RANG	2050.095489	RLAT	.00000000 00	AZVA	127.6955146	AAAT	.00000000 00	VAT	-34782.81201
LIFT	13.44963824								
DRG	9928.169189	Q	59.56920719	MACH	38.59743070	SS	903.5078811	ADEN	.97965042-07

9 FEB. 1968 22 HR 3 MIN 10.97 SEC TMST 587328.0000 J.D. 2439896.4189 6 DAY 19 HR 8.8 MIN

GEOCENTRIC

ALT	235531.7500	R	21158593.25	VI	35921.20019	X	-17155471.00	VX	21567.62451
81 LTDM	-11.31060636	RASC	214.2437839	FPVI	-3.688216209	Y	-11678021.87	VY	-20332.94628
LONM	104.3825988	DECL	-11.23683214	AZVI	126.1519975	Z	-4123067.437	VZ	-20291.41455
WT	9500.000000	ATLI	90.35321151	VA	34713.35498	AAAP	-.00000000 00	VIR	-2310.706451
DVV	50.41808032	AMIS	126.1692686	FPVA	-3.816734313	AAAY	-.00000000 00	VIT	35846.80224
RANG	2027.516616	RLAT	.00000000 00	AZVA	127.6289577	AAAT	.00000000 00	VAT	-34636.36279
LIFT	20.52459526								
DRG	15150.71655	Q	90.90459251	MACH	37.17835903	SS	933.6978683	ADEN	.15087686-06

9 FEB. 1968 22 HR 3 MIN 14.97 SEC TMST 587332.0000 J.D. 2439896.4189 6 DAY 19 HR 8.9 MIN

GEOCENTRIC

ALT	226845.7500	R	21149798.75	VI	35681.28906	X	-17069419.25	VX	21444.92553
81 LTDM	-11.54025828	RASC	214.5628299	FPVI	-3.342686653	Y	-11759068.00	VY	-20185.44555
LONM	104.6849365	DECL	-11.46506631	AZVI	126.0791168	Z	-4203954.625	VZ	-20144.90844
WT	9500.000000	ATLI	89.97099399	VA	34473.33837	AAAP	-.00000000 00	VIR	-2080.497985
DVV	71.41982460	AMIS	126.1064729	FPVA	-3.459954261	AAAY	-.00000000 00	VIT	35620.58251
RANG	2005.048248	RLAT	.00000000 00	AZVA	127.5613870	AAAT	.00000000 00	VAT	-34410.50097
LIFT	29.31103801								
DRG	21636.63745	Q	129.8202438	MACH	35.89140081	SS	960.4901809	ADEN	.21847701-06

9 FEB. 1968 22 HR 3 MIN 18.97 SEC TMST 587336.0000 J.D. 2439896.4189 6 DAY 19 HR 8.9 MIN

GEOCENTRIC

ALT	219156.0000	R	21141999.75	VI	35346.35595	X	-16984026.25	VX	21236.40576
81 LTDM	-11.76783335	RASC	214.8801250	FPVI	-2.939464569	Y	-11839465.12	VY	-20007.81542

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LONM	104.9855041	DECL	-11.69124114	AZVI	126.0013380	Z	-4284164.125	VZ	-19951.62329
WT	9500.000000	ATLI	89.58657836	VA	34138.19189	AAAP	-.00000000 00	VIR	-1812.591827
DVV	96.77196884	AMIS	126.0427913	FPVA	-3.043590545	AAAY	-.00000000 00	VIT	35299.84912
RANG	1982.749267	RLAT	.00000000 00	AZVA	127.4929933	AAAT	.00000000 00	VAT	-34090.03710
LIFT	39.24918556								
DRG	28972.71655	C	173.8368587	MACH	34.70543718	SS	983.6554336	ADEN	.29832581-06

9 FEB. 1968 22 HR 3 MIN 22.97 SEC TMST 587340.0000 J.D. 2439896.4190 6 DAY 19 HR 9.0 MIN

GEOCENTRIC

	ALT	212614.7500	R	21135348.50	VI	34909.51367	X	-16899650.75	VX	20936.22094
81	LTDM	-11.99266219	RASC	215.1947784	FPVI	-2.474096298	Y	-11919086.87	VY	-19797.54345
	LONM	105.2834777	DECL	-11.91469156	AZVI	125.9183254	Z	-4363500.250	VZ	-19708.02026
	WT	9500.000000	ATLI	89.20605850	VA	33701.03759	AAAP	-.00000000 00	VIR	-1506.964996
	DVV	123.1609163	AMIS	125.9784345	FPVA	-2.562872886	AAAY	-.00000000 00	VIT	34876.97216
	RANG	1960.682266	RLAT	.00000000 00	AZVA	127.4240083	AAAT	.00000000 00	VAT	-33667.32812
	LIFT	49.30764722								
	DRG	36397.60839	C	218.3863563	MACH	33.60187053	SS	1002.951232	ADEN	.38456429-06

9 FEB. 1968 22 HR 3 MIN 26.97 SEC TMST 587344.0000 J.D. 2439896.4190 6 DAY 19 HR 9.1 MIN

GEOCENTRIC

	ALT	207363.7500	R	21129987.00	VI	34375.85058	X	-16816652.50	VX	20549.58422
81	LTDM	-12.21406340	RASC	215.5058727	FPVI	-1.949388504	Y	-11997803.12	VY	-19555.59790
	LONM	105.5778503	DECL	-12.13473995	AZVI	125.8302145	Z	-4441763.812	VZ	-19416.28930
	WT	9500.000000	ATLI	88.83056068	VA	33166.99072	AAAP	-.00000000 00	VIR	-1169.353637
	DVV	146.7650394	AMIS	125.9136295	FPVA	-2.020468711	AAAY	-.00000000 00	VIT	34355.95556
	RANG	1938.918731	RLAT	.00000000 00	AZVA	127.3546819	AAAT	.00000000 00	VAT	-33146.37060
	LIFT	58.17252683								
	DRG	42941.42919	C	257.6494064	MACH	32.57514858	SS	1018.168510	ADEN	.46843248-06

9 FEB. 1968 22 HR 3 MIN 30.97 SEC TMST 587348.0000 J.D. 2439896.4191 6 DAY 19 HR 9.1 MIN

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     GEOCENTRIC
      ALT    203508.0000  R      21126021.25  VI     33763.87304  X     -16735346.62  VX     20093.94384
81    LTDM  -12.43143033  RASC   215.8125705  FPVI  -1.376667022  Y     -12075495.87  VY    -19287.04321
      LONM   105.8677978  DECL  -12.35078310  AZVI   125.7376327  Z     -4518777.687  VZ    -19085.13867

      WT     9500.000000  ATLI   88.46109008  VA     32554.59521  AAAP -.00000000 00  VIR   -811.1800842
      DVV    163.9297676  AMIS   125.8486080  FPVA  -1.427815437  AAAY -.00000000 00  VIT    33754.12744
      RANG   1917.518829  RLAT  .00000000 00  AZVA   127.2852592  AAAT  .00000000 00  VAT   -32544.48730

      LIFT   64.54188728
      DRG    47643.12353  Q      285.8596649  MACH   31.63134312  SS     1029.187881  ADEN  .53945880-06

      9 FEB.   1968 22 HR  3 MIN 34.97 SEC TMST  587352.0000  J.D. 2439896.4191   6 DAY 19 HR  9.2 MIN
     GEOCENTRIC
      ALT    201101.0000  R      21123504.50  VI     33103.15039  X     -16655956.75  VX     19596.62548
81    LTDM  -12.64431285  RASC   216.1142406  FPVI  -.7748346329  Y     -12152075.50  VY    -19000.59594
      LONM   106.1528015  DECL  -12.56237399  AZVI   125.6417131  Z     -4594411.187  VZ    -18728.80664

      WT     9500.000000  ATLI   88.09840488  VA     31893.46337  AAAP -.00000000 00  VIR   -447.6546936
      DVV    172.2464351  AMIS   125.7835626  FPVA  -.8042259216  AAAY -.00000000 00  VIT    33100.12304
      RANG   1896.522628  RLAT  .00000000 00  AZVA   127.2159433  AAAT  .00000000 00  VAT   -31890.32153

      LIFT   67.55219078
      DRG    49865.25097  Q      299.1924705  MACH   30.78518080  SS     1036.000518  ADEN  .58827081-06

      9 FEB.   1968 22 HR  3 MIN 38.97 SEC TMST  587356.0000  J.D. 2439896.4192   6 DAY 19 HR  9.3 MIN
     GEOCENTRIC
      ALT    200131.2500  R      21122426.00  VI     32428.84716  X     -16578586.37  VX     19089.65283
81    LTDM  -12.85247814  RASC   216.4105281  FPVI  -.1673536300  Y     -12227491.62  VY    -18707.19921
      LONM   106.4323425  DECL  -12.76928031  AZVI   125.5439882  Z     -4668597.625  VZ    -18364.53076

      WT     9500.000000  ATLI   87.74291229  VA     31218.79223  AAAP -.00000000 00  VIR   -94.72076416
      DVV    171.1272315  AMIS   125.7186307  FPVA  -.1738395691  AAAY -.00000000 00  VIT    32428.70874
      RANG   1875.962280  RLAT  .00000000 00  AZVA   127.1468830  AAAT  .00000000 00  VAT   -31218.64843

      LIFT   67.00262832
      DRG    49459.57861  Q      296.7584304  MACH   30.05474615  SS     1038.730850  ADEN  .60897698-06
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9 FEB. 1968 22 HR 3 MIN 40.08 SEC TMST 587357.1093 J.D. 2439896.4192 6 DAY 19 HR 9.3 MIN

GEOCENTRIC

	ALT	200108.7500	R	21122373.25	VI	32242.86767	X	-16557344.37	VX	18950.62182
81	LTDM	-12.90975117	RASC	216.4922771	FPVI	-.00000000 00	Y	-12248338.50	VY	-18625.57104
	LONM	106.5094604	DECL	-12.82620775	AZVI	125.5165996	Z	-4689051.187	VZ	-18263.75000
	WT	9500.000000	ATLI	87.64495277	VA	31032.72021	AAAP	-.00000000 00	VIR	-.79345703-03
	DVV	169.2498607	AMIS	125.7005348	FPVA	.00000000 00	AAAY	-.00000000 00	VIT	32242.86743
	RANG	1870.297668	RLAT	.00000000 00	AZVA	127.1276559	AAAT	.00000000 00	VAT	-31032.71997
	LIFT	66.25943660								
	DRG	48910.97363	Q	293.4667892	MACH	29.87379312	SS	1038.794097	ADEN	.60946569-06

PRIMARY PHASE CUTOFF ---- BETA SUB I 90.00000000

RE-ENTRY 5 SEC. OF UPWARD LEG

9 FEB. 1968 22 HR 3 MIN 40.08 SEC TMST 587357.1093 J.D. 2439896.4192 6 DAY 19 HR 9.3 MIN

GEOCENTRIC

	ALT	200108.7500	R	21122373.25	VI	32242.86767	X	-16557344.37	VX	18950.62182
83	LTDM	-12.90975117	RASC	216.4922771	FPVI	-.00000000 00	Y	-12248338.50	VY	-18625.57104
	LONM	106.5094604	DECL	-12.82620775	AZVI	125.5165996	Z	-4689051.187	VZ	-18263.75000
	WT	9500.000000	ATLI	87.64495277	VA	31032.72021	AAAP	-.00000000 00	VIR	-.79345703-03
	DVV	168.1218757	AMIS	125.7005348	FPVA	.00000000 00	AAAY	-.00000000 00	VIT	32242.86743
	RANG	1870.297668	RLAT	.00000000 00	AZVA	127.1276559	AAAT	.00000000 00	VAT	-31032.71997
	LIFT	2.937943428								
	DRG	48910.97363	Q	293.4667892	MACH	29.87379312	SS	1038.794097	ADEN	.60946569-06

9 FEB. 1968 22 HR 3 MIN 42.97 SEC TMST 587360.0000 J.D. 2439896.4192 6 DAY 19 HR 9.3 MIN

GEOCENTRIC

	ALT	200270.0000	R	21122456.50	VI	31772.49169	X	-16502869.87	VX	18741.33862
83	LTDM	-13.05630099	RASC	216.7019290	FPVI	.1023728452	Y	-12301724.87	VY	-18313.63134
	LONM	106.7070617	DECL	-12.97187471	AZVI	125.4458703	Z	-4741415.562	VZ	-17968.42700

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WT	9500.000000	ATLI	87.39399433	VA	30562.10937	AAAP	-.00000000 00	VIR	56.77188110
DVV	162.3803501	AMIS	125.6537714	FPVA	.1064329147	AAAY	-.00000000 00	VIT	31772.44091
RANG	1855.793899	RLAT	.00000000 00	AZVA	127.0779733	AAAT	.00000000 00	VAT	-30562.05664
LIFT	2.833169430								
DRG	47166.69287	G	283.0010719	MACH	29.43360424	SS	1038.340698	ADEN	.60597043-06

9 FEB. 1968 22 HR 3 MIN 45.08 SEC TMST 587362.1093 J.D. 2439896.4193 6 DAY 19 HR 9.4 MIN

GEOCENTRIC

ALT	200487.0000	R	21122617.00	VI	31440.35717	X	-16463493.12	VX	18594.59423
83 LTDM	-13.16174364	RASC	216.8531894	FPVI	.1730260849	Y	-12340120.87	VY	-18092.45141
LONM	106.8494873	DECL	-13.07668364	AZVI	125.3944997	Z	-4779096.375	VZ	-17759.51367
WT	9500.000000	ATLI	87.21315670	VA	30229.80102	AAAP	-.00000000 00	VIR	94.94482421
DVV	157.8499011	AMIS	125.6197147	FPVA	.1799554825	AAAY	-.00000000 00	VIT	31440.21362
RANG	1845.350036	RLAT	.00000000 00	AZVA	127.0417766	AAAT	.00000000 00	VAT	-30229.65185
LIFT	2.750498414								
DRG	45790.38281	G	274.7431831	MACH	29.13069415	SS	1037.730194	ADEN	.60129327-06

PRIMARY PHASE CUTOFF ---- PHASE TIME LAPSE 5.000000000

RE-ENTRY UPWARD DRIFT

9 FEB. 1968 22 HR 3 MIN 45.08 SEC TMST 587362.1093 J.D. 2439896.4193 6 DAY 19 HR 9.4 MIN

GEOCENTRIC

ALT	200487.0000	R	21122617.00	VI	31440.35717	X	-16463493.12	VX	18594.59423
85 LTDM	-13.16174364	RASC	216.8531894	FPVI	.1730260849	Y	-12340120.87	VY	-18092.45141
LONM	106.8494873	DECL	-13.07668364	AZVI	125.3944997	Z	-4779096.375	VZ	-17759.51367
WT	9500.000000	ATLI	87.21315670	VA	30229.80102	AAAP	-.00000000 00	VIR	94.94482421
DVV	157.8499011	AMIS	125.6197147	FPVA	.1799554825	AAAY	-.00000000 00	VIT	31440.21362
RANG	1845.350036	RLAT	.00000000 00	AZVA	127.0417766	AAAT	.00000000 00	VAT	-30229.65185
LIFT	2.750498414								
DRG	45790.38281	G	274.7431831	MACH	29.13069415	SS	1037.730194	ADEN	.60129327-06

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9 FEB. 1968 22 HR 3 MIN 46.97 SEC TMST 587364.0000 J.D. 2439896.4193 6 DAY 19 HR 9.4 MIN

GEOCENTRIC

	ALT	200747.7500	R	21122827.00	VI	31151.14526	X	-16428458.37	VX	18467.67724
85	LTDM	-13.25520920	RASC	216.9875659	FPVI	.2334737778	Y	-12374143.25	VY	-17899.10131
	LONM	106.9759826	DECL	-13.16958808	AZVI	125.3486366	Z	-4812499.875	VZ	-17577.28442
	WT	9500.000000	ATLI	87.05266666	VA	29940.43212	AAAP	-.00000000 00	VIR	126.9364624
	DVV	153.6090240	AMIS	125.5892381	FPVA	.2429161072	AAAY	-.00000000 00	VIT	31150.88647
	RANG	1836.083389	RLAT	.00000000 00	AZVA	127.0093727	AAAT	.00000000 00	VAT	-29940.16284
	LIFT	2.673080861								
	DRG	44501.53320	C	267.0100593	MACH	28.87227201	SS	1036.996047	ADEN	.59571906-06

9 FEB. 1968 22 HR 3 MIN 50.97 SEC TMST 587368.0000 J.D. 2439896.4193 6 DAY 19 HR 9.5 MIN

GEOCENTRIC

	ALT	201487.0000	R	21123460.00	VI	30566.89379	X	-16355101.25	VX	18214.32495
85	LTDM	-13.44983053	RASC	217.2682800	FPVI	.3526000976	Y	-12444946.00	VY	-17505.88305
	LONM	107.2399597	DECL	-13.36304461	AZVI	125.2524070	Z	-4882063.062	VZ	-17208.06298
	WT	9500.000000	ATLI	86.71789169	VA	29355.84692	AAAP	-.00000000 00	VIR	188.1078186
	DVV	144.2942810	AMIS	125.5249013	FPVA	.3671464920	AAAY	-.00000000 00	VIT	30566.31469
	RANG	1816.767440	RLAT	.00000000 00	AZVA	126.9409313	AAAT	.00000000 00	VAT	-29355.24414
	LIFT	2.502838909								
	DRG	41667.33984	C	250.0048465	MACH	28.36556410	SS	1034.911437	ADEN	.58021533-06

9 FEB. 1968 22 HR 3 MIN 54.97 SEC TMST 587372.0000 J.D. 2439896.4194 6 DAY 19 HR 9.5 MIN

GEOCENTRIC

	ALT	202453.5000	R	21124321.00	VI	30021.35302	X	-16282715.12	VX	17982.41845
85	LTDM	-13.64042508	RASC	217.5443840	FPVI	.4601993561	Y	-12514219.75	VY	-17134.73291
	LONM	107.4993896	DECL	-13.55250191	AZVI	125.1573991	Z	-4950194.812	VZ	-16861.64819
	WT	9500.000000	ATLI	86.38926506	VA	28809.97070	AAAP	-.00000000 00	VIR	241.1279296
	DVV	134.7735919	AMIS	125.4607439	FPVA	.4795494079	AAAY	-.00000000 00	VIT	30020.38452
	RANG	1797.817916	RLAT	.00000000 00	AZVA	126.8726243	AAAT	.00000000 00	VAT	-28808.96142

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     LIFT    2.328407973
     DRG     38763.40820  Q       232.5811977  MACH   27.91180348  SS      1032.178756  ADEN  .56042689-06

      9 FEB.   1968 22 HR  3 MIN 58.97 SEC TMST  587376.0000  J.D. 2439896.4194    6 DAY 19 HR  9.6 MIN
     GEOCENTRIC
     ALT     203616.0000  R       21125379.00  VI     29514.91943  X      -16211212.75  VX     17772.37719
85   LTDM   -13.82725763  RASC    217.8162097  FPVI   .5567941665  Y      -12582053.37  VY    -16785.72949
     LONM    107.7544860  DECL   -13.73822355  AZVI   125.0637845  Z      -5016986.937  VZ    -16538.20898

     WT      9500.000000  ATLI    86.06636333  VA     28303.20312  AAAP -.00000000 00  VIR    286.8178405
     DVV     125.3236579  AMIS    125.3967361  FPVA   .5806331634  AAAY -.00000000 00  VIT    29513.52563
     RANG    1779.214752  RLAT   .00000000 00  AZVA   126.8044214  AAAT  .00000000 00  VAT   -28301.74975

     LIFT    2.154672324
     DRG     35871.05175  Q       215.2270050  MACH   27.50872373  SS      1028.880996  ADEN  .53734793-06

      9 FEB.   1968 22 HR  4 MIN  2.97 SEC TMST  587380.0000  J.D. 2439896.4195    6 DAY 19 HR  9.7 MIN
     GEOCENTRIC
     ALT     204948.0000  R       21126606.75  VI     29047.03564  X      -16140507.00  VX     17584.05029
85   LTDM   -14.01059222  RASC    218.0840816  FPVI   .6429662704  Y      -12648534.62  VY    -16458.42358
     LONM    108.0056152  DECL   -13.92047166  AZVI   124.9716711  Z      -5082530.625  VZ    -16237.35644

     WT      9500.000000  ATLI    85.74876880  VA     27834.98730  AAAP -.00000000 00  VIR    325.9544982
     DVV     116.1498651  AMIS    125.3328428  FPVA   .6709642410  AAAY -.00000000 00  VIT    29045.20654
     RANG    1760.931411  RLAT   .00000000 00  AZVA   126.7362861  AAAT  .00000000 00  VAT   -27833.07861

     LIFT    1.985245078
     DRG     33050.42138  Q       198.3031692  MACH   27.15375924  SS      1025.087799  ADEN  .51189112-06

      9 FEB.   1968 22 HR  4 MIN  6.97 SEC TMST  587384.0000  J.D. 2439896.4195    6 DAY 19 HR  9.7 MIN
     GEOCENTRIC
     ALT     206423.5000  R       21127979.00  VI     28616.37255  X      -16070512.12  VX     17416.81738
85   LTDM   -14.19068610  RASC    218.3483238  FPVI   .7193279266  Y      -12713748.62  VY    -16151.94824
     LONM    108.2531738  DECL   -14.09950184  AZVI   124.8810997  Z      -5146914.812  VZ    -15958.25256

     WT      9500.000000  ATLI    85.43607139  VA     27403.99584  AAAP -.00000000 00  VIR    359.2580261
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DVV	107.4203977	AMIS	125.2690305	FPVA	.7511539459	AAAY	-.00000000 00	VIT	28614.11718
RANG	1742.939392	RLAT	.00000000 00	AZVA	126.6681776	AAAT	.00000000 00	VAT	-27401.64062
LIFT	1.823094502								
DRG	30350.93383	G	182.1061916	MACH	26.84382629	SS	1020.867721	ADEN	.48498345-06

9 FEB. 1968 22 HR 4 MIN 10.97 SEC TMST 587388.0000 J.D. 2439896.4196 6 DAY 19 HR 9.8 MIN

GEOCENTRIC

ALT	208021.2500	R	21129473.75	VI	28221.21044	X	-16001145.62	VX	17269.81323
85 LTDM	-14.36778414	RASC	218.6092472	FPVI	.7865066528	Y	-12777776.50	VY	-15865.22814
LONM	108.4973754	DECL	-14.27555739	AZVI	124.7920904	Z	-5210224.250	VZ	-15699.83459
WT	9500.000000	ATLI	85.12787914	VA	27008.50952	AAAP	-.00000000 00	VIR	387.3832397
DVV	99.19204521	AMIS	125.2052555	FPVA	.8218231201	AAAY	-.00000000 00	VIT	28218.55126
RANG	1725.219924	RLAT	.00000000 00	AZVA	126.6000528	AAAT	.00000000 00	VAT	-27005.73120
LIFT	1.669165641								
DRG	27788.32128	G	166.7304649	MACH	26.57594919	SS	1016.276382	ADEN	.45713421-06

9 FEB. 1968 22 HR 4 MIN 14.97 SEC TMST 587392.0000 J.D. 2439896.4196 6 DAY 19 HR 9.9 MIN

GEOCENTRIC

ALT	209722.0000	R	21131072.00	VI	27859.55664	X	-15932328.12	VX	17141.99584
85 LTDM	-14.54211950	RASC	218.8671531	FPVI	.8451261520	Y	-12840695.12	VY	-15597.04870
LONM	108.7385864	DECL	-14.44886994	AZVI	124.7046232	Z	-5272539.437	VZ	-15460.88439
WT	9500.000000	ATLI	84.82381534	VA	26646.53662	AAAP	-.00000000 00	VIR	410.9191894
DVV	91.54403400	AMIS	125.1414804	FPVA	.8836011886	AAAY	-.00000000 00	VIT	27856.52587
RANG	1707.747161	RLAT	.00000000 00	AZVA	126.5318689	AAAT	.00000000 00	VAT	-26643.36791
LIFT	1.524847820								
DRG	25385.71386	G	152.3147754	MACH	26.34711813	SS	1011.364372	ADEN	.42903279-06

9 FEB. 1968 22 HR 4 MIN 18.97 SEC TMST 587396.0000 J.D. 2439896.4196 6 DAY 19 HR 9.9 MIN

GEOCENTRIC

ALT	211508.0000	R	21132756.00	VI	27529.18334	X	-15863985.62	VX	17032.16430
85 LTDM	-14.71390926	RASC	219.1223182	FPVI	.8958024978	Y	-12902575.87	VY	-15346.07849

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LONM	108.9770202	DECL	-14.61965548	AZVI	124.6186323	Z	-5333935.500	VZ	-15240.05200
WT	9500.000000	ATLI	84.52353096	VA	26315.85009	AAAP	-.00000000 00	VIR	430.3923950
DVV	84.49581909	AMIS	125.0776624	FPVA	.9371089935	AAAY	-.00000000 00	VIT	27525.81860
RANG	1690.503204	RLAT	.00000000 00	AZVA	126.4635858	AAAT	.00000000 00	VAT	-26312.33007
LIFT	1.390448093								
DRG	23148.22290	G	138.8897857	MACH	26.15424942	SS	1006.178749	ADEN	.40111185-06

9 FEB. 1968 22 HR 4 MIN 22.97 SEC TMST 587400.0000 J.D. 2439896.4197 6 DAY 19 HR 10.0 MIN

GEOCENTRIC

ALT	213364.0000	R	21134510.25	VI	27227.89916	X	-15796048.50	VX	16939.12597
85 LTDM	-14.88335597	RASC	219.3750057	FPVI	.9391288757	Y	-12963485.00	VY	-15111.01611
LONM	109.2129821	DECL	-14.78811442	AZVI	124.5340557	Z	-5394482.250	VZ	-15036.01306
WT	9500.000000	ATLI	84.22669887	VA	26014.25830	AAAP	-.00000000 00	VIR	446.2689208
DVV	78.05027675	AMIS	125.0137643	FPVA	.9829463959	AAAY	-.00000000 00	VIT	27224.24145
RANG	1673.466369	RLAT	.00000000 00	AZVA	126.3951597	AAAT	.00000000 00	VAT	-26010.43017
LIFT	1.265986189								
DRG	21076.17724	G	126.4574708	MACH	25.99449872	SS	1000.760139	ADEN	.37372452-06

9 FEB. 1968 22 HR 4 MIN 26.97 SEC TMST 587404.0000 J.D. 2439896.4197 6 DAY 19 HR 10.1 MIN

GEOCENTRIC

ALT	215277.0000	R	21136321.75	VI	26953.43676	X	-15728451.87	VX	16861.62377
85 LTDM	-15.05064594	RASC	219.6254577	FPVI	.9756755829	Y	-13023483.37	VY	-14890.53259
LONM	109.4467468	DECL	-14.95443284	AZVI	124.4508161	Z	-5454244.125	VZ	-14847.40490
WT	9500.000000	ATLI	83.93301486	VA	25739.49438	AAAP	-.00000000 00	VIR	458.9604187
DVV	72.21026229	AMIS	124.9497461	FPVA	1.021696090	AAAY	-.00000000 00	VIT	26949.52880
RANG	1656.616958	RLAT	.00000000 00	AZVA	126.3265504	AAAT	.00000000 00	VAT	-25735.40209
LIFT	1.151516288								
DRG	19170.47900	G	115.0232448	MACH	25.86511087	SS	995.1433944	ADEN	.34722868-06

9 FEB. 1968 22 HR 4 MIN 30.97 SEC TMST 587408.0000 J.D. 2439896.4198 6 DAY 19 HR 10.1 MIN

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GEOCENTRIC

	ALT	217234.7500	R	21138178.25	VI	26703.66479	X	-15661136.37	VX	16798.46948
85	LTDM	-15.21595191	RASC	219.8739013	FPVI	1.005977630	Y	-13082627.00	VY	-14683.38293
	LONM	109.6784667	DECL	-15.11878156	AZVI	124.3688011	Z	-5513280.375	VZ	-14672.94799
	WT	9500.000000	ATLI	83.64219951	VA	25489.42700	AAAP	-.00000000 00	VIR	468.8283081
	DVV	66.93621826	AMIS	124.8855714	FPVA	1.053905487	AAAY	-.00000000 00	VIT	26699.54882
	RANG	1639.941650	RLAT	.00000000 00	AZVA	126.2577209	AAAT	.00000000 00	VAT	-25485.11499
	LIFT	1.046294644								
	DRG	17418.74584	G	104.5128116	MACH	25.76350116	SS	989.3619155	ADEN	.32172098-06

9 FEB. 1968 22 HR 4 MIN 34.97 SEC TMST 587412.0000 J.D. 2439896.4198 6 DAY 19 HR 10.2 MIN

GEOCENTRIC

	ALT	219226.5000	R	21140069.00	VI	26476.49291	X	-15594046.62	VX	16748.48266
85	LTDM	-15.37942969	RASC	220.1205444	FPVI	1.030547142	Y	-13140966.62	VY	-14488.35681
	LONM	109.9083862	DECL	-15.28131592	AZVI	124.2879219	Z	-5571644.937	VZ	-14511.39245
	WT	9500.000000	ATLI	83.35399532	VA	25261.96582	AAAP	-.00000000 00	VIR	476.1912536
	DVV	62.22419881	AMIS	124.8212060	FPVA	1.080098152	AAAY	-.00000000 00	VIT	26472.21020
	RANG	1623.423095	RLAT	.00000000 00	AZVA	126.1886348	AAAT	.00000000 00	VAT	-25257.47705
	LIFT	.9503127709								
	DRG	15820.83642	G	94.92532539	MACH	25.68720674	SS	983.4454116	ADEN	.29749372-06

9 FEB. 1968 22 HR 4 MIN 38.97 SEC TMST 587416.0000 J.D. 2439896.4199 6 DAY 19 HR 10.3 MIN

GEOCENTRIC

	ALT	221243.2500	R	21141984.75	VI	26269.98339	X	-15527132.25	VX	16710.56445
85	LTDM	-15.54122292	RASC	220.3655757	FPVI	1.049855232	Y	-13198548.50	VY	-14304.33679
	LONM	110.1367187	DECL	-15.44217908	AZVI	124.2080612	Z	-5629387.125	VZ	-14361.58117
	WT	9500.000000	ATLI	83.06816955	VA	25055.17333	AAAP	-.00000000 00	VIR	481.3281555
	DVV	58.01733541	AMIS	124.7566146	FPVA	1.100763320	AAAY	-.00000000 00	VIT	26265.57324
	RANG	1607.046432	RLAT	.00000000 00	AZVA	126.1192579	AAAT	.00000000 00	VAT	-25050.54931
	LIFT	.8625240698								
	DRG	14359.32739	G	86.15624237	MACH	25.63401293	SS	977.4190750	ADEN	.27448709-06

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9 FEB. 1968 22 HR 4 MIN 42.97 SEC TMST 587420.0000 J.D. 2439896.4199 6 DAY 19 HR 10.3 MIN

GEOCENTRIC

ALT	223276.5000	R	21143917.00	VI	26082.29223	X	-15460347.25	VX	16683.65771
85 LTDM	-15.70146286	RASC	220.6091709	FPVI	1.064344406	Y	-13255414.62	VY	-14130.26611
LONM	110.3635864	DECL	-15.60150027	AZVI	124.1291112	Z	-5686551.750	VZ	-14222.41601
WT	9500.000000	ATLI	82.78450584	VA	24867.20532	AAAP	-.00000000 00	VIR	484.4842224
DVV	54.30496597	AMIS	124.6917686	FPVA	1.116357803	AAAY	-.00000000 00	VIT	26077.79199
RANG	1590.801147	RLAT	.00000000 00	AZVA	126.0495567	AAAT	.00000000 00	VAT	-24862.48510
LIFT	.7828620448								
DRG	13033.11157	G	78.19892215	MACH	25.60179209	SS	971.3072052	ADEN	.25291629-06

9 FEB. 1968 22 HR 4 MIN 46.97 SEC TMST 587424.0000 J.D. 2439896.4200 6 DAY 19 HR 10.4 MIN

GEOCENTRIC

ALT	225319.0000	R	21145858.25	VI	25911.73144	X	-15393649.75	VX	16666.79028
85 LTDM	-15.86026668	RASC	220.8514881	FPVI	1.074424743	Y	-13311602.62	VY	-13965.18127
LONM	110.5892333	DECL	-15.75939714	AZVI	124.0509700	Z	-5743179.312	VZ	-14092.89318
WT	9500.000000	ATLI	82.50281047	VA	24696.37329	AAAP	-.00000000 00	VIR	485.8738403
DVV	51.02766942	AMIS	124.6266374	FPVA	1.127305984	AAAY	-.00000000 00	VIT	25907.17553
RANG	1574.671249	RLAT	.00000000 00	AZVA	125.9795045	AAAT	.00000000 00	VAT	-24691.59301
LIFT	.7102559356								
DRG	11824.36279	G	70.94640636	MACH	25.58862566	SS	965.1308898	ADEN	.23264517-06

9 FEB. 1968 22 HR 4 MIN 50.97 SEC TMST 587428.0000 J.D. 2439896.4200 6 DAY 19 HR 10.5 MIN

GEOCENTRIC

ALT	227363.7500	R	21147802.00	VI	25756.71655	X	-15327000.87	VX	16659.04174
85 LTDM	-16.01774287	RASC	221.0926761	FPVI	1.080475807	Y	-13367146.75	VY	-13808.18420
LONM	110.8136901	DECL	-15.91597664	AZVI	123.9735364	Z	-5799306.500	VZ	-13972.07324
WT	9500.000000	ATLI	82.22290420	VA	24541.09277	AAAP	-.00000000 00	VIR	485.6867065
DVV	48.17017698	AMIS	124.5611953	FPVA	1.134001731	AAAY	-.00000000 00	VIT	25752.13671
RANG	1558.651702	RLAT	.00000000 00	AZVA	125.9090719	AAAT	.00000000 00	VAT	-24536.28613

LIFT	.6446214020								
DRG	10731.67712	C	64.39027023	MACH	25.59266948	SS	958.9110107	ADEN	.21382695-06

9 FEB. 1968 22 HR 4 MIN 54.97 SEC TMST 587432.0000 J.D. 2439896.4201 6 DAY 19 HR 10.5 MIN

GEOCENTRIC

ALT	229405.0000	R	21149742.00	VI	25615.81298	X	-15260366.37	VX	16659.57495
85 LTDM	-16.17398691	RASC	221.3328647	FPVI	1.082841873	Y	-13422077.87	VY	-13658.46325
LONM	111.0371704	DECL	-16.07133436	AZVI	123.8966951	Z	-5854966.375	VZ	-13859.10595
WT	9500.000000	ATLI	81.94462585	VA	24399.92944	AAAP	-.00000000 00	VIR	484.0881958
DVV	45.67461204	AMIS	124.4954156	FPVA	1.136809349	AAAY	-.00000000 00	VIT	25611.23828
RANG	1542.728958	RLAT	.00000000 00	AZVA	125.8382349	AAAT	.00000000 00	VAT	-24395.12670
LIFT	.5849317536								
DRG	9737.962036	C	58.42796087	MACH	25.61228513	SS	952.6650695	ADEN	.19627889-06

9 FEB. 1968 22 HR 4 MIN 58.97 SEC TMST 587436.0000 J.D. 2439896.4201 6 DAY 19 HR 10.6 MIN

GEOCENTRIC

ALT	231437.0000	R	21151672.75	VI	25487.68994	X	-15193714.37	VX	16667.60668
85 LTDM	-16.32908773	RASC	221.5721759	FPVI	1.081848144	Y	-13476423.25	VY	-13515.27185
LONM	111.2597656	DECL	-16.22555804	AZVI	123.8203783	Z	-5910188.750	VZ	-13753.20568
WT	9500.000000	ATLI	81.66782951	VA	24271.55224	AAAP	-.00000000 00	VIR	481.2248840
DVV	43.52237749	AMIS	124.4292774	FPVA	1.136061668	AAAY	-.00000000 00	VIT	25483.14648
RANG	1526.895812	RLAT	.00000000 00	AZVA	125.7669668	AAAT	.00000000 00	VAT	-24266.78100
LIFT	.5310904532								
DRG	8841.610473	C	53.04983425	MACH	25.64588952	SS	946.4110107	ADEN	.18010216-06

2" 9 FEB. 1968 22 HR 5 MIN 2.97 SEC TMST 587440.0000 J.D. 2439896.4202 6 DAY 19 HR 10.7 MIN

GEOCENTRIC

ALT	233456.0000	R	21153590.25	VI	25371.14746	X	-15127016.50	VX	16682.42773
85 LTDM	-16.48312401	RASC	221.8107185	FPVI	1.077784538	Y	-13530207.87	VY	-13377.93725
LONM	111.4815979	DECL	-16.37872648	AZVI	123.7444591	Z	-5965000.500	VZ	-13653.66357
1" WT	9500.000000	ATLI	81.39238357	VA	24154.76074	AAAP	-.00000000 00	VIR	477.2248535

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DVV	41.66182374	AMIS	124.3627567	FPVA	1.132066726	AAAY	-.00000000 00	VIT	25366.65869
RANG	1511.143325	RLAT	.00000000 00	AZVA	125.6952457	AAAT	.00000000 00	VAT	-24150.04589
LIFT	.4821955524								
DRG	8027.606506	Q	48.16579437	MACH	25.69215393	SS	940.1609802	ADEN	.16510615-06

9 FEB. 1968 22 HR 5 MIN 6.97 SEC TMST 587444.0000 J.D. 2439896.4202 6 DAY 19 HR 10.7 MIN

GEOCENTRIC

ALT	235457.0000	R	21155489.50	VI	25265.07324	X	-15060246.75	VX	16703.37500
85 LTDM	-16.63616657	RASC	222.0485935	FPVI	1.070919036	Y	-13583453.75	VY	-13245.84143
LONM	111.7027282	DECL	-16.53090953	AZVI	123.6688776	Z	-6019425.687	VZ	-13559.82556
WT	9500.000000	ATLI	81.11816692	VA	24048.44238	AAAP	-.00000000 00	VIR	472.2029724
DVV	40.07485294	AMIS	124.2958345	FPVA	1.125104904	AAAY	-.00000000 00	VIT	25260.65991
RANG	1495.466476	RLAT	.00000000 00	AZVA	125.6230525	AAAT	.00000000 00	VAT	-24043.80590
LIFT	.4382015317								
DRG	7295.192687	Q	43.77129745	MACH	25.74969148	SS	933.9312744	ADEN	.15137199-06

9 FEB. 1968 22 HR 5 MIN 10.97 SEC TMST 587448.0000 J.D. 2439896.4203 6 DAY 19 HR 10.8 MIN

GEOCENTRIC

ALT	237436.0000	R	21157366.75	VI	25168.46875	X	-14593382.00	VX	16729.85107
85 LTDM	-16.78827977	RASC	222.2858905	FPVI	1.061496734	Y	-13636180.87	VY	-13118.43139
LONM	111.9233398	DECL	-16.68217134	AZVI	123.5935401	Z	-6073485.937	VZ	-13471.10485
WT	9500.000000	ATLI	80.84507179	VA	23951.59912	AAAP	-.00000000 00	VIR	466.2593688
DVV	38.71528387	AMIS	124.2284936	FPVA	1.115432739	AAAY	-.00000000 00	VIT	25164.14941
RANG	1479.854095	RLAT	.00000000 00	AZVA	125.5503711	AAAT	.00000000 00	VAT	-23947.06030
LIFT	.3582850797								
DRG	6630.662353	Q	39.78410243	MACH	25.81727409	SS	927.7353973	ADEN	.13869811-06

9 FEB. 1968 22 HR 5 MIN 14.97 SEC TMST 587452.0000 J.D. 2439896.4203 6 DAY 19 HR 10.9 MIN

GEOCENTRIC

ALT	239389.7500	R	21159218.25	VI	25080.42724	X	-14926401.25	VX	16761.30859
85 LTDM	-16.93952155	RASC	222.5226917	FPVI	1.049741745	Y	-13688406.62	VY	-12995.20715

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LONM	112.1434326	DECL	-16.83256983	AZVI	123.5183763	Z	-6127200.625	VZ	-13386.96972
WT	9500.000000	ATLI	80.57299804	VA	23863.32348	AAAP	-.00000000 00	VIR	459.4833679
DVV	37.56431674	AMIS	124.1607160	FPVA	1.103288650	AAAY	-.00000000 00	VIT	25076.21777
RANG	1464.304306	RLAT	.00000000 00	AZVA	125.4771804	AAAT	.00000000 00	VAT	-23858.89916
LIFT	.3623677678								
DRG	6032.709838	Q	36.19637584	MACH	25.89379096	SS	921.5847702	ADEN	.12712566-06

9 FEB. 1968 22 HR 5 MIN 18.97 SEC TMST 587456.0000 J.D. 2439896.4203 6 DAY 19 HR 10.9 MIN

GEOCENTRIC

ALT	241315.0000	R	21161041.25	VI	25000.12500	X	-14859285.50	VX	16797.24902
85 LTDM	-17.08994340	RASC	222.7590732	FPVI	1.035854339	Y	-13740147.37	VY	-12875.71691
LONM	112.3630676	DECL	-16.98215579	AZVI	123.4433193	Z	-6180587.125	VZ	-13306.93786
WT	9500.000000	ATLI	80.30185794	VA	23782.79199	AAAP	-.00000000 00	VIR	451.9541015
DVV	36.58635044	AMIS	124.0924844	FPVA	1.088881492	AAAY	-.00000000 00	VIT	24996.03930
RANG	1448.812530	RLAT	.00000000 00	AZVA	125.4034652	AAAT	.00000000 00	VAT	-23778.49731
LIFT	.3298234679								
DRG	5490.911315	Q	32.94557426	MACH	25.97818183	SS	915.4910049	ADEN	.11649342-06

9 FEB. 1968 22 HR 5 MIN 22.97 SEC TMST 587460.0000 J.D. 2439896.4204 6 DAY 19 HR 11.0 MIN

GEOCENTRIC

ALT	243209.2500	R	21162833.00	VI	24926.81542	X	-14792018.00	VX	16837.21582
85 LTDM	-17.23959207	RASC	222.9951019	FPVI	1.020022392	Y	-13791416.87	VY	-12759.55383
LONM	112.5824279	DECL	-17.13097572	AZVI	123.3682880	Z	-6233661.000	VZ	-13230.57348
WT	9500.000000	ATLI	80.03157234	VA	23709.25756	AAAP	-.00000000 00	VIR	443.7417907
DVV	35.76461553	AMIS	124.0237865	FPVA	1.072409629	AAAY	-.00000000 00	VIT	24922.86523
RANG	1433.368240	RLAT	.00000000 00	AZVA	125.3292112	AAAT	.00000000 00	VAT	-23705.10449
LIFT	.3005846664								
DRG	5004.142822	Q	30.02495360	MACH	26.06949806	SS	909.4635162	ADEN	.10682587-06

9 FEB. 1968 22 HR 5 MIN 26.97 SEC TMST 587464.0000 J.D. 2439896.4204 6 DAY 19 HR 11.1 MIN

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GEOCENTRIC

ALT	245070.0000	R	21164590.75	VI	24859.81298	X	-14724583.12	VX	16880.78808
85 LTDM	-17.38850975	RASC	223.2308425	FPVI	1.002412796	Y	-13842227.75	VY	-12646.34643
LONM	112.8014221	DECL	-17.27907156	AZVI	123.2932462	Z	-6286436.125	VZ	-13157.47753
WT	9500.000000	ATLI	79.76206588	VA	23642.03515	AAAP	-.00000000 00	VIR	434.9095458
DVV	35.07031726	AMIS	123.9546079	FPVA	1.054051399	AAAY	-.00000000 00	VIT	24856.00830
RANG	1417.974609	RLAT	.00000000 00	AZVA	125.2544069	AAAT	.00000000 00	VAT	-23638.03442
LIFT	.2741074040								
DRG	4563.348632	C	27.38018012	MACH	26.16682243	SS	903.5118865	ADEN	.97970783-07

9 FEB. 1968 22 HR 5 MIN 30.97 SEC TMST 587468.0000 J.D. 2439896.4205 6 DAY 19 HR 11.1 MIN

GEOCENTRIC

ALT	246894.0000	R	21166311.50	VI	24798.51953	X	-14656967.37	VX	16927.59716
85 LTDM	-17.53673362	RASC	223.4663467	FPVI	.9831762314	Y	-13892591.25	VY	-12535.77172
LONM	113.0202331	DECL	-17.42648029	AZVI	123.2181138	Z	-6338924.750	VZ	-13087.30175
WT	9500.000000	ATLI	79.49327466	VA	23580.52587	AAAP	-.00000000 00	VIR	425.5128173
DVV	34.48866128	AMIS	123.8849382	FPVA	1.033965110	AAAY	-.00000000 00	VIT	24794.86840
RANG	1402.621597	RLAT	.00000000 00	AZVA	125.1790361	AAAT	.00000000 00	VAT	-23576.68627
LIFT	.2502917982								
DRG	4166.865600	C	25.00127410	MACH	26.26922774	SS	897.6482315	ADEN	.89925978-07

9 FEB. 1968 22 HR 5 MIN 34.97 SEC TMST 587472.0000 J.D. 2439896.4205 6 DAY 19 HR 11.2 MIN

GEOCENTRIC

ALT	248680.0000	R	21167994.00	VI	24742.37084	X	-14589158.50	VX	16977.29052
85 LTDM	-17.68429660	RASC	223.7016696	FPVI	.9624528885	Y	-13942517.00	VY	-12427.52722
LONM	113.2388305	DECL	-17.57323503	AZVI	123.1428623	Z	-6391137.937	VZ	-13019.71911
WT	9500.000000	ATLI	79.22513961	VA	23524.16552	AAAP	-.00000000 00	VIR	415.6015014
DVV	33.99961853	AMIS	123.8147640	FPVA	1.012298584	AAAY	-.00000000 00	VIT	24738.88012
RANG	1387.309387	RLAT	.00000000 00	AZVA	125.1030931	AAAT	.00000000 00	VAT	-23520.49389
LIFT	.2287631556								
DRG	3808.456115	C	22.85081052	MACH	26.37597942	SS	891.8783645	ADEN	.82585378-07

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9 FEB. 1968 22 HR 5 MIN 38.97 SEC TMST 587476.0000 J.D. 2439896.4206 6 DAY 19 HR 11.3 MIN

GEOCENTRIC

	ALT	250425.7500	R	21169636.00	VI	24690.88403	X	-14521145.62	VX	17029.56811
85	LTDM	-17.83122992	RASC	223.9368572	FPVI	.9403667450	Y	-13992014.25	VY	-12321.35534
	LONM	113.4573059	DECL	-17.71936607	AZVI	123.0674266	Z	-6443085.562	VZ	-12954.45007
	WT	9500.000000	ATLI	78.95760536	VA	23472.47167	AAAP	-.00000000 00	VIR	405.2204589
	DVV	33.58996391	AMIS	123.7440767	FPVA	.9891843796	AAAY	-.00000000 00	VIT	24687.55859
	RANG	1372.032470	RLAT	.00000000 00	AZVA	125.0265607	AAAT	.00000000 00	VAT	-23468.97338
	LIFT	.2093561571								
	DRG	3485.367797	G	20.91227412	MACH	26.48631215	SS	886.2113952	ADEN	.75912557-07

9 FEB. 1968 22 HR 5 MIN 42.97 SEC TMST 587480.0000 J.D. 2439896.4206 6 DAY 19 HR 11.3 MIN

GEOCENTRIC

	ALT	252129.0000	R	21171235.25	VI	24643.59301	X	-14452918.87	VX	17084.13500
85	LTDM	-17.97755980	RASC	224.1719512	FPVI	.9170331955	Y	-14041090.37	VY	-12217.00903
	LONM	113.6757202	DECL	-17.86490011	AZVI	122.9917688	Z	-6494776.312	VZ	-12891.22583
	WT	9500.000000	ATLI	78.69062423	VA	23424.97753	AAAP	-.00000000 00	VIR	394.4096069
	DVV	33.24737739	AMIS	123.6728649	FPVA	.9647436142	AAAY	-.00000000 00	VIT	24640.43652
	RANG	1356.787597	RLAT	.00000000 00	AZVA	124.9494342	AAAT	.00000000 00	VAT	-23421.65698
	LIFT	.1918847021								
	DRG	3194.502471	G	19.16707658	MACH	26.59944772	SS	880.6565322	ADEN	.69859828-07

9 FEB. 1968 22 HR 5 MIN 46.97 SEC TMST 587484.0000 J.D. 2439896.4207 6 DAY 19 HR 11.4 MIN

GEOCENTRIC

	ALT	253788.7500	R	21172790.50	VI	24600.10839	X	-14384469.75	VX	17140.74584
85	LTDM	-18.12331104	RASC	224.4069900	FPVI	.8925542831	Y	-14089752.37	VY	-12114.28283
	LONM	113.8940124	DECL	-18.00986123	AZVI	122.9158697	Z	-6546217.812	VZ	-12829.82165
	WT	9500.000000	ATLI	78.42415237	VA	23381.29370	AAAP	-.00000000 00	VIR	383.2047119
	DVV	32.95870733	AMIS	123.6011195	FPVA	.9390850067	AAAY	-.00000000 00	VIT	24597.12329
	RANG	1341.576431	RLAT	.00000000 00	AZVA	124.8717031	AAAT	.00000000 00	VAT	-23378.15307

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LIFT    .1760297045
DRG     2930.547973  C      17.58334465  MACH   26.71479225  SS     875.2189941  ADEN  .64327166-07

 9 FEB.   1968 22 HR  5 MIN 50.97 SEC TMST  587488.0000  J.D. 2439896.4207    6 DAY 19 HR 11.5 MIN
GEOCENTRIC
ALT     255403.2500  R      21174300.25  VI     24560.07519  X     -14315790.50  VX     17199.17504
LTDM   -18.26850390  RASC   224.6420097  FPVI   .8670215606  Y     -14138006.62  VY    -12012.98974
LONM    114.1123352  DECL  -18.15427064  AZVI   122.8396520  Z     -6597417.000  VZ    -12770.03320

WT      9500.000000  ATLI   78.15814971  VA     23341.06567  AAAP -.00000000 00  VIR    371.6379394
DVV     32.71694231  AMIS   123.5288362  FPVA   .9123067856  AAAY -.00000000 00  VIT    24557.26293
RANG    1326.391143  RLAT  .00000000 00  AZVA   124.7933588  AAAT  .00000000 00  VAT   -23338.10693

LIFT    .1617322806
DRG     2692.524047  C      16.15519642  MACH   26.83169674  SS     869.9064331  ADEN  .59306308-07

 9 FEB.   1968 22 HR  5 MIN 54.97 SEC TMST  587492.0000  J.D. 2439896.4207    6 DAY 19 HR 11.5 MIN
GEOCENTRIC
ALT     256971.2500  R      21175763.25  VI     24523.16430  X     -14246874.25  VX     17259.21191
LTDM   -18.41315937  RASC   224.8770427  FPVI   .8405227661  Y     -14185858.00  VY    -11912.95837
LONM    114.3306579  DECL  -18.29814767  AZVI   122.7631330  Z     -6648380.000  VZ    -12711.67211

WT      9500.000000  ATLI   77.89258098  VA     23303.96362  AAAP -.00000000 00  VIR    359.7386169
DVV     32.51384305  AMIS   123.4560041  FPVA   .8845005035  AAAY -.00000000 00  VIT    24520.52539
RANG    1311.232574  RLAT  .00000000 00  AZVA   124.7143955  AAAT  .00000000 00  VAT   -23301.18701

LIFT    .1488058287
DRG     2477.324066  C      14.86399233  MACH   26.94956874  SS     864.7249145  ADEN  .54740138-07

 9 FEB.   1968 22 HR  5 MIN 58.97 SEC TMST  587496.0000  J.D. 2439896.4208    6 DAY 19 HR 11.6 MIN
GEOCENTRIC
ALT     258491.5000  R      21177178.00  VI     24489.07519  X     -14177715.00  VX     17320.66284
LTDM   -18.55729341  RASC   225.1121177  FPVI   .8131313324  Y     -14233311.75  VY    -11814.03356
LONM    114.5490112  DECL  -18.44150924  AZVI   122.6862506  Z     -6699112.062  VZ    -12654.56628

WT      9500.000000  ATLI   77.62741279  VA     23269.68725  AAAP -.00000000 00  VIR    347.5325927
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DVV	32.3457694C	AMIS	123.3826179	FPVA	.8557453155	AAAY	-.00C00000 00	VIT	24486.60888
RANG	1296.098632	RLAT	.00000000 0C	AZVA	124.6348047	AAAT	.00C00000 00	VAT	-23267.09204
LIFT	.1373190023								
DRG	2286.091003	Q	13.7165904C	MACH	27.06783080	SS	859.6805343	ADEN	.50663488-07

9 FEB. 1968 22 HR 6 MIN 2.97 SEC TMST 587500.0000 J.D. 2439896.4208 6 DAY 19 HR 11.7 MIN

GEOCENTRIC

ALT	259962.2500	R	21178543.0C	VI	24457.46826	X	-14108307.25	VX	17383.30249
85 LTDM	-18.70092177	RASC	225.3472652	FPVI	.7849225958	Y	-14280371.62	VY	-11716.04528
LONM	114.7674560	DECL	-18.58437085	AZVI	122.6089773	Z	-6749617.937	VZ	-12598.52490
WT	9500.0CC00C	ATLI	77.36261463	VA	23237.89721	AAAP	-.00C00000 00	VIR	335.0436401
DVV	32.20638418	AMIS	123.3086709	FPVA	.8261203766	AAAY	-.0CC00000 00	VIT	24455.17309
RANG	1280.985961	RLAT	.00000000 0C	AZVA	124.5545806	AAAT	.00C00000 00	VAT	-23235.48193
LIFT	.1271172762								
DRG	2116.252380	Q	12.6975553C	MACH	27.18578886	SS	854.7810516	ADEN	.47027995-07

9 FEB. 1968 22 HR 6 MIN 6.97 SEC TMST 587504.0000 J.D. 2439896.4209 6 DAY 19 HR 11.7 MIN

GEOCENTRIC

ALT	261383.C000	R	21179857.75	VI	24428.14697	X	-14C38647.12	VX	17447.00463
85 LTDM	-18.84405755	RASC	225.5825042	FPVI	.7559547424	Y	-14327041.12	VY	-11618.89074
LONM	114.9859924	DECL	-18.72674512	AZVI	122.5312891	Z	-6799901.562	VZ	-12543.43481
WT	9500.0CC00C	ATLI	77.09816169	VA	23208.39648	AAAP	-.0CC00000 00	VIR	322.2921752
DVV	32.08506631	AMIS	123.2341566	FPVA	.7956867218	AAAY	-.00C00000 00	VIT	24426.02050
RANG	1265.894256	RLAT	.00000000 0C	AZVA	124.4737167	AAAT	.0CC00000 00	VAT	-23206.15844
LIFT	.1175901852								
DRG	1957.645034	Q	11.74590802	MACH	27.30303049	SS	85C.0300521	ADEN	.43614041-07

9 FEB. 1968 22 HR 6 MIN 10.97 SEC TMST 587508.0000 J.D. 2439896.4210 6 DAY 19 HR 11.8 MIN

GEOCENTRIC

ALT	262752.7500	R	21181121.0C	VI	24400.97436	X	-13968729.87	VX	17511.68530
85 LTDM	-18.98671245	RASC	225.8178634	FPVI	.7262802124	Y	-14373323.75	VY	-11522.49572

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LONM	115.2046203	DECL	-18.86864447	AZVI	122.4531860	Z	-6849966.562	VZ	-12489.21594
WT	9500.000000	ATLI	76.83402824	VA	23181.04858	AAAP	-.00000000 00	VIR	309.2974853
DVV	31.97777271	AMIS	123.1590690	FPVA	.7645044327	AAAY	-.00000000 00	VIT	24399.01367
RANG	1250.822921	RLAT	.00000000 00	AZVA	124.3922080	AAAT	.00000000 00	VAT	-23178.98510
LIFT	.1085201418								
DRG	1806.646697	C	10.83991515	MACH	27.38598275	SS	846.4566955	ADEN	.40345001-07

9 FEB. 1968 22 HR 6 MIN 14.97 SEC TMST 587512.0000 J.D. 2439896.4210 6 DAY 19 HR 11.9 MIN

GEOCENTRIC

ALT	264070.5000	R	21182332.00	VI	24375.85815	X	-13898552.37	VX	17577.28979
85 LTDM	-19.12889885	RASC	226.0533595	FPVI	.6959524154	Y	-14419222.12	VY	-11426.80688
LONM	115.4234313	DECL	-19.01008009	AZVI	122.3746423	Z	-6899816.375	VZ	-12435.81262
WT	9500.000000	ATLI	76.57019138	VA	23155.76098	AAAP	-.00000000 00	VIR	296.0772094
DVV	31.88495540	AMIS	123.0834045	FPVA	.7326240539	AAAY	-.00000000 00	VIT	24374.05981
RANG	1235.767425	RLAT	.00000000 00	AZVA	124.3100509	AAAT	.00000000 00	VAT	-23153.86816
LIFT	.1000680569								
DRG	1665.936111	C	9.995648860	MACH	27.35610818	SS	846.4566959	ADEN	.37284033-07

9 FEB. 1968 22 HR 6 MIN 18.97 SEC TMST 587516.0000 J.D. 2439896.4211 6 DAY 19 HR 11.9 MIN

GEOCENTRIC

ALT	265335.0000	R	21183489.50	VI	24352.61425	X	-13828110.62	VX	17643.69604
85 LTDM	-19.27062702	RASC	226.2890148	FPVI	.6650190353	Y	-14464738.87	VY	-11331.73120
LONM	115.6423645	DECL	-19.15106272	AZVI	122.2956428	Z	-6949454.000	VZ	-12383.12072
WT	9500.000000	ATLI	76.30662918	VA	23132.34960	AAAP	-.00000000 00	VIR	282.6484069
DVV	31.80743694	AMIS	123.0071573	FPVA	.7001008987	AAAY	-.00000000 00	VIT	24350.97363
RANG	1220.730239	RLAT	.00000000 00	AZVA	124.2272386	AAAT	.00000000 00	VAT	-23130.62280
LIFT	.0924901049								
DRG	1539.778137	C	9.238698720	MACH	27.32844996	SS	846.4566955	ADEN	.34530376-07

9 FEB. 1968 22 HR 6 MIN 22.97 SEC TMST 587520.0000 J.D. 2439896.4211 6 DAY 19 HR 12.0 MIN

GEOCENTRIC

	ALT	266546.0000	R	21184593.00	VI	24331.05444	X	-13757401.87	VX	17710.77758
85	LTDM	-19.41190528	RASC	226.5248508	FPVI	.6335296631	Y	-14509876.50	VY	-11237.17663
	LONM	115.8614501	DECL	-19.29160118	AZVI	122.2161684	Z	-6998882.125	VZ	-12331.03491
	WT	9500.000000	ATLI	76.04332160	VA	23110.62597	AAAP	-.00000000 00	VIR	269.0265808
	DVV	31.74289965	AMIS	122.9303207	FPVA	.6669864654	AAAY	-.00000000 00	VIT	24329.56713
	RANG	1205.709671	RLAT	.00000000 00	AZVA	124.1437654	AAAT	.00000000 00	VAT	-23109.06030
	LIFT	.0857407097								
	DRG	1427.414001	Q	8.564511656	MACH	27.30278587	SS	846.4566955	ADEN	.32070755-07

9 FEB. 1968 22 HR 6 MIN 26.97 SEC TMST 587524.0000 J.D. 2439896.4211 6 DAY 19 HR 12.1 MIN

GEOCENTRIC

	ALT	267702.0000	R	21185641.25	VI	24310.99340	X	-13686423.75	VX	17778.40820
85	LTDM	-19.55274271	RASC	226.7608852	FPVI	.6015243530	Y	-14554636.87	VY	-11143.05371
	LONM	116.0808105	DECL	-19.43170380	AZVI	122.1361827	Z	-7048102.937	VZ	-12279.45263
	WT	9500.000000	ATLI	75.78025150	VA	23090.40527	AAAP	-.00000000 00	VIR	255.2256469
	DVV	31.68927860	AMIS	122.8528938	FPVA	.6333227157	AAAY	-.00000000 00	VIT	24309.65356
	RANG	1190.699615	RLAT	.00000000 00	AZVA	124.0596275	AAAT	.00000000 00	VAT	-23088.99462
	LIFT	.0797678893								
	DRG	1327.978302	Q	7.967895448	MACH	27.27889728	SS	846.4566955	ADEN	.29888941-07

9 FEB. 1968 22 HR 6 MIN 30.97 SEC TMST 587528.0000 J.D. 2439896.4212 6 DAY 19 HR 12.1 MIN

GEOCENTRIC

	ALT	268803.0000	R	21186634.25	VI	24292.27807	X	-13615174.00	VX	17846.48266
85	LTDM	-19.69314599	RASC	226.9971313	FPVI	.5690422058	Y	-14599021.50	VY	-11049.28869
	LONM	116.3003234	DECL	-19.57137727	AZVI	122.0556993	Z	-7097118.312	VZ	-12228.28881
	WT	9500.000000	ATLI	75.51740169	VA	23071.53369	AAAP	-.00000000 00	VIR	241.2580566
	DVV	31.64410376	AMIS	122.7748689	FPVA	.5991516113	AAAY	-.00000000 00	VIT	24291.07983
	RANG	1175.705764	RLAT	.00000000 00	AZVA	123.9748220	AAAT	.00000000 00	VAT	-23070.27221
	LIFT	.0744220335								
	DRG	1238.980331	Q	7.433905959	MACH	27.25660228	SS	846.4566955	ADEN	.27931492-07

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9 FEB. 1968 22 HR 6 MIN 34.97 SEC TMST 587532.0000 J.D. 2439896.4212 6 DAY 19 HR 12.2 MIN

GEOCENTRIC

ALT	269848.0000	R	21187571.00	VI	24274.77270	X	-13543651.25	VX	17914.90820
85 LTDM	-19.83312034	RASC	227.2336044	FPVI	.5361156463	Y	-14643031.62	VY	-10955.81665
LONM	116.5201110	DECL	-19.71062731	AZVI	121.9746761	Z	-7145929.750	VZ	-12177.46862
WT	9500.000000	ATLI	75.25475883	VA	23053.87646	AAAP	-.00000000 00	VIR	227.1347656
DVV	31.60603213	AMIS	122.6962471	FPVA	.5645084381	AAAY	-.00000000 00	VIT	24273.70996
RANG	1160.722213	RLAT	.00000000 00	AZVA	123.8893442	AAAT	.00000000 00	VAT	-23052.75756
LIFT	.0696549397								
DRG	1159.617599	Q	6.957728028	MACH	27.23574233	SS	846.4566955	ADEN	.26182404-07

9 FEB. 1968 22 HR 6 MIN 38.97 SEC TMST 587536.0000 J.D. 2439896.4213 6 DAY 19 HR 12.3 MIN

GEOCENTRIC

ALT	270837.0000	R	21188451.25	VI	24258.35107	X	-13471854.37	VX	17983.59667
85 LTDM	-19.97267127	RASC	227.4703197	FPVI	.5027751922	Y	-14686668.25	VY	-10862.57800
LONM	116.7401123	DECL	-19.84945893	AZVI	121.8931140	Z	-7194538.437	VZ	-12126.92248
WT	9500.000000	ATLI	74.99230861	VA	23037.30639	AAAP	-.00000000 00	VIR	212.8657836
DVV	31.57422161	AMIS	122.6170186	FPVA	.5294246673	AAAY	-.00000000 00	VIT	24257.41699
RANG	1145.751434	RLAT	.00000000 00	AZVA	123.8031911	AAAT	.00000000 00	VAT	-23036.32299
LIFT	.0654691364								
DRG	1089.932220	Q	6.539614439	MACH	27.21616649	SS	846.4566955	ADEN	.24644428-07

9 FEB. 1968 22 HR 6 MIN 42.97 SEC TMST 587540.0000 J.D. 2439896.4213 6 DAY 19 HR 12.3 MIN

GEOCENTRIC

ALT	271768.7500	R	21189274.00	VI	24242.88598	X	-13399782.25	VX	18052.45849
85 LTDM	-20.11180305	RASC	227.7072887	FPVI	.4690475464	Y	-14729932.50	VY	-10769.51440
LONM	116.9603576	DECL	-19.98787617	AZVI	121.8110017	Z	-7242945.375	VZ	-12076.58142
WT	9500.000000	ATLI	74.73004055	VA	23021.69653	AAAP	-.00000000 00	VIR	198.4599609
DVV	31.54739785	AMIS	122.5371856	FPVA	.4939298630	AAAY	-.00000000 00	VIT	24242.07348
RANG	1130.792343	RLAT	.00000000 00	AZVA	123.7163591	AAAT	.00000000 00	VAT	-23020.84106

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	LIFT	.0617760694									
	DRG	1028.449920	C	6.170719444	MACH	27.19772505	SS	846.4566955	ADEN	.23285799-07	

9 FEB. 1968 22 HR 6 MIN 46.97 SEC TMST 587544.0000 J.D. 2439896.4214 6 DAY 19 HR 12.4 MIN

GEOCENTRIC

	ALT	272642.7500	R	21190038.75	VI	24228.28222	X	-13327434.50	VX	18121.42675	
85	LTDM	-20.25051927	RASC	227.9445209	FPVI	.4349584579	Y	-14772824.62	VY	-10676.58203	
	LONM	117.1808776	DECL	-20.12588310	AZVI	121.7283201	Z	-7291151.250	VZ	-12026.39355	
	WT	9500.000000	ATLI	74.46794319	VA	23006.95214	AAAP	-.00000000 00	VIR	183.9259033	
	DVV	31.52444505	AMIS	122.4567413	FPVA	.4580497741	AAAY	-.00000000 00	VIT	24227.58398	
	RANG	1115.842849	RLAT	.00000000 00	AZVA	123.6288461	AAAT	.00000000 00	VAT	-23006.21704	
	LIFT	.0584772592									
	DRG	973.5312347	C	5.841206252	MACH	27.18030595	SS	846.4566955	ADEN	.22070612-07	

9 FEB. 1968 22 HR 6 MIN 50.97 SEC TMST 587548.0000 J.D. 2439896.4214 6 DAY 19 HR 12.5 MIN

GEOCENTRIC

	ALT	273459.0000	R	21190745.25	VI	24214.45556	X	-13254810.75	VX	18190.44238	
85	LTDM	-20.38882303	RASC	228.1820297	FPVI	.4005279541	Y	-14815345.25	VY	-10583.74182	
	LONM	117.4016723	DECL	-20.26348280	AZVI	121.6450605	Z	-7339156.687	VZ	-11976.31311	
	WT	9500.000000	ATLI	74.20600700	VA	22992.98852	AAAP	-.00000000 00	VIR	169.2699584	
	DVV	31.50478076	AMIS	122.3756856	FPVA	.4218053818	AAAY	-.00000000 00	VIT	24213.86376	
	RANG	1100.903137	RLAT	.00000000 00	AZVA	123.5406494	AAAT	.00000000 00	VAT	-22992.36547	
	LIFT	.0555400154									
	DRG	924.6319046	C	5.547809302	MACH	27.16380953	SS	846.4566955	ADEN	.20987498-07	

2"

9 FEB. 1968 22 HR 6 MIN 54.97 SEC TMST 587552.0000 J.D. 2439896.4214 6 DAY 19 HR 12.5 MIN

GEOCENTRIC

	ALT	274216.2500	R	21191392.75	VI	24201.32836	X	-13181911.00	VX	18259.44921	
85	LTDM	-20.52671623	RASC	228.4198226	FPVI	.3657741546	Y	-14857494.62	VY	-10490.95898	
	LONM	117.6227416	DECL	-20.40067648	AZVI	121.5612268	Z	-7386961.875	VZ	-11926.29809	
1"	WT	9500.000000	ATLI	73.94422435	VA	22979.72851	AAAP	-.00000000 00	VIR	154.4984741	

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DVV	31.48792886	AMIS	122.2940145	FPVA	.3852186203	AAAY	-.00000000 00	VIT	24200.83496
RANG	1085.973281	RLAT	.00000000 00	AZVA	123.4517650	AAAT	.00000000 00	VAT	-22979.20922
LIFT	.0529381442								
DRG	881.3158645	Q	5.287912245	MACH	27.14814424	SS	846.4566955	ADEN	.20027395-07

9 FEB. 1968 22 HR 6 MIN 58.97 SEC TMST 587556.0000 J.D. 2439896.4215 6 DAY 19 HR 12.6 MIN

GEOCENTRIC

ALT	274914.7500	R	21191981.00	VI	24188.82568	X	-13108735.25	VX	18328.39379
85 LTDM	-20.66420102	RASC	228.6579113	FPVI	.3307142257	Y	-14899273.00	VY	-10398.20031
LONM	117.8441467	DECL	-20.53746652	AZVI	121.4767827	Z	-7434567.062	VZ	-11876.30859
WT	9500.000000	ATLI	73.68258762	VA	22967.09667	AAAP	-.00000000 00	VIR	139.6177368
DVV	31.47364521	AMIS	122.2117280	FPVA	.3483066559	AAAY	-.00000000 00	VIT	24188.42260
RANG	1071.050247	RLAT	.00000000 00	AZVA	123.3621921	AAAT	.00000000 00	VAT	-22966.67236
LIFT	.0506816003								
DRG	843.7488555	Q	5.062509477	MACH	27.13322091	SS	846.4566955	ADEN	.19194803-07

9 FEB. 1968 22 HR 7 MIN 2.97 SEC TMST 587560.0000 J.D. 2439896.4215 6 DAY 19 HR 12.7 MIN

GEOCENTRIC

ALT	275553.5000	R	21192509.50	VI	24176.87500	X	-13035284.00	VX	18397.22216
85 LTDM	-20.80127906	RASC	228.8963012	FPVI	.2953643799	Y	-14940680.25	VY	-10305.43457
LONM	118.0657958	DECL	-20.67385530	AZVI	121.3917541	Z	-7481972.312	VZ	-11826.30615
WT	9500.000000	ATLI	73.42108821	VA	22955.02050	AAAP	-.00000000 00	VIR	124.6327514
DVV	31.46138167	AMIS	122.1288223	FPVA	.3110866546	AAAY	-.00000000 00	VIT	24176.55371
RANG	1056.138397	RLAT	.00000000 00	AZVA	123.2719287	AAAT	.00000000 00	VAT	-22954.68212
LIFT	.0487045981								
DRG	810.8356628	Q	4.865029692	MACH	27.11895418	SS	846.4566955	ADEN	.18465460-07

9 FEB. 1968 22 HR 7 MIN 6.97 SEC TMST 587564.0000 J.D. 2439896.4216 6 DAY 19 HR 12.7 MIN

GEOCENTRIC

ALT	276132.7500	R	21192978.00	VI	24165.42016	X	-12961557.62	VX	18465.89404
85 LTDM	-20.93795037	RASC	229.1350021	FPVI	.2597389221	Y	-14981716.37	VY	-10212.63769

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LONM	118.2878112	DECL	-20.80984258	AZVI	121.3061065	Z	-7529177.500	VZ	-11776.26110
WT	9500.000000	ATLI	73.15972232	VA	22943.44433	AAAP	-.00000000 00	VIR	109.5479736
DVV	31.45078182	AMIS	122.0452957	FPVA	.2735719681	AAAY	-.00000000 00	VIT	24165.17163
RANG	1041.231506	RLAT	.00000000 00	AZVA	123.1809730	AAAT	.00000000 00	VAT	-22943.18286
LIFT	.0469666561								
DRG	781.9023513	Q	4.691429257	MACH	27.10527825	SS	846.4566955	ADEN	.17824524-07

9 FEB. 1968 22 HR 7 MIN 10.97 SEC TMST 587568.0000 J.D. 2439896.4216 6 DAY 19 HR 12.8 MIN

GEOCENTRIC

ALT	276651.5000	R	21193385.75	VI	24154.41015	X	-12887557.12	VX	18534.37109
85 LTDM	-21.07421708	RASC	229.3740196	FPVI	.2238473892	Y	-15022381.25	VY	-10119.78759
LONM	118.5101013	DECL	-20.94542956	AZVI	121.2198591	Z	-7576182.312	VZ	-11726.14648
WT	9500.000000	ATLI	72.89848136	VA	22932.31616	AAAP	-.00000000 00	VIR	94.36749267
DVV	31.44164490	AMIS	121.9611463	FPVA	.2357769012	AAAY	-.00000000 00	VIT	24154.22558
RANG	1026.334411	RLAT	.00000000 00	AZVA	123.0893220	AAAT	.00000000 00	VAT	-22932.12207
LIFT	.0454536341								
DRG	756.7135162	Q	4.540295720	MACH	27.09213137	SS	846.4566955	ADEN	.17267056-07

9 FEB. 1968 22 HR 7 MIN 14.97 SEC TMST 587572.0000 J.D. 2439896.4217 6 DAY 19 HR 12.9 MIN

GEOCENTRIC

ALT	277109.7500	R	21193732.75	VI	24143.79565	X	-12813283.12	VX	18602.61669
85 LTDM	-21.21007871	RASC	229.6133632	FPVI	.1877012253	Y	-15062674.50	VY	-10026.86462
LONM	118.7327270	DECL	-21.08061599	AZVI	121.1329765	Z	-7622986.500	VZ	-11675.93688
WT	9500.000000	ATLI	72.63736152	VA	22921.58789	AAAP	-.00000000 00	VIR	79.09448242
2" DVV	31.43378829	AMIS	121.8763713	FPVA	.1977100372	AAAY	-.00000000 00	VIT	24143.66601
RANG	1011.444305	RLAT	.00000000 00	AZVA	122.9969749	AAAT	.00000000 00	VAT	-22921.45141
LIFT	.0441501620								
DRG	735.0132598	Q	4.410093784	MACH	27.07945704	SS	846.4566955	ADEN	.16787593-07

1" 9 FEB. 1968 22 HR 7 MIN 18.97 SEC TMST 587576.0000 J.D. 2439896.4217 6 DAY 19 HR 12.9 MIN

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GEOCENTRIC

ALT	277507.0000	R	21194018.50	VI	24133.53173	X	-12738736.50	VX	18670.59667
85 LTDM	-21.34553503	RASC	229.8530387	FPVI	.1513109207	Y	-15102596.00	VY	-9933.849975
LONM	118.9557189	DECL	-21.2154026C	AZVI	121.0454750	Z	-7669589.625	VZ	-11625.60925
WT	9500.000000	ATLI	72.37635803	VA	22911.21411	AAAP	-.00000000 00	VIR	63.73315429
DVV	31.42706584	AMIS	121.7909698	FPVA	.1593837738	AAAY	-.00000000 00	VIT	24133.44750
RANG	996.5595169	RLAT	.00000000 00	AZVA	122.9039306	AAAT	.00000000 00	VAT	-22911.12548
LIFT	.0430440008								
DRG	716.5978622	Q	4.299601018	MACH	27.06720161	SS	846.4566955	ADEN	.16381813-07

9 FEB. 1968 22 HR 7 MIN 22.97 SEC TMST 587580.0000 J.D. 2439896.4218 6 DAY 19 HR 13.0 MIN

GEOCENTRIC

ALT	277842.7500	R	21194242.50	VI	24123.57543	X	-12663918.62	VX	18738.27832
85 LTDM	-21.48058605	RASC	230.0930500	FPVI	.1146850586	Y	-15142145.25	VY	-9840.727172
LONM	119.1789855	DECL	-21.34978866	AZVI	120.9573507	Z	-7715991.187	VZ	-11575.14160
WT	9500.000000	ATLI	72.11546611	VA	22901.15185	AAAP	-.00000000 00	VIR	48.28576660
DVV	31.42135715	AMIS	121.7049417	FPVA	.1208066940	AAAY	-.00000000 00	VIT	24123.52685
RANG	981.6843261	RLAT	.00000000 00	AZVA	122.8101863	AAAT	.00000000 00	VAT	-22901.10107
LIFT	.0421245936								
DRG	701.2915420	Q	4.207762837	MACH	27.05531406	SS	846.4566955	ADEN	.16045993-07

9 FEB. 1968 22 HR 7 MIN 26.97 SEC TMST 587584.0000 J.D. 2439896.4218 6 DAY 19 HR 13.1 MIN

GEOCENTRIC

ALT	278116.7500	R	21194404.75	VI	24113.88671	X	-12588830.75	VX	18805.63037
85 LTDM	-21.61523103	RASC	230.3334045	FPVI	.0778284073	Y	-15181321.75	VY	-9747.480957
LONM	119.4026184	DECL	-21.4837737C	AZVI	120.8685989	Z	-7762190.562	VZ	-11524.51367
WT	9500.000000	ATLI	71.85468387	VA	22891.36083	AAAP	-.00000000 00	VIR	32.75469970
DVV	31.41655874	AMIS	121.6182842	FPVA	.0819845199	AAAY	-.00000000 00	VIT	24113.86425
RANG	966.8145675	RLAT	.00000000 00	AZVA	122.7157402	AAAT	.00000000 00	VAT	-22891.33740
LIFT	.0413824459								
DRG	688.9362411	Q	4.133630812	MACH	27.04374694	SS	846.4566955	ADEN	.15776783-07

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9 FEB. 1968 22 HR 7 MIN 30.97 SEC TMST 587588.0000 J.D. 2439896.4219 6 DAY 19 HR 13.1 MIN

GEOCENTRIC

	ALT	278328.7500	R	21194504.50	VI	24104.42675	X	-12513474.12	VX	18872.62207
85	LTDM	-21.74946975	RASC	230.5741081	FPVI	.0407495498	Y	-15220125.00	VY	-9654.096679
	LONM	119.6266479	DECL	-21.61735677	AZVI	120.7791852	Z	-7808187.062	VZ	-11473.70642
	WT	9500.000000	ATLI	71.59400463	VA	22881.80273	AAAP	-.00000000 00	VIR	17.14282226
	DVV	31.41258835	AMIS	121.5309972	FPVA	.0429267883	AAAY	-.00000000 00	VIT	24104.42041
	RANG	951.9490661	RLAT	.00000000 00	AZVA	122.6205940	AAAT	.00000000 00	VAT	-22881.79638
	LIFT	.0408098316								
	DRG	679.4033432	C	4.076433241	MACH	27.03245520	SS	846.4566955	ADEN	.15571479-07

9 FEB. 1968 22 HR 7 MIN 34.97 SEC TMST 587592.0000 J.D. 2439896.4219 6 DAY 19 HR 13.2 MIN

GEOCENTRIC

	ALT	278478.5000	R	21194541.75	VI	24095.15844	X	-12437850.25	VX	18939.22460
85	LTDM	-21.88330078	RASC	230.8151626	FPVI	.0034532547	Y	-15258554.37	VY	-9560.561035
	LONM	119.8509521	DECL	-21.75053787	AZVI	120.6891412	Z	-7853979.937	VZ	-11422.70141
	WT	9500.000000	ATLI	71.33342933	VA	22872.44042	AAAP	-.00000000 00	VIR	1.451538085
	DVV	31.40938091	AMIS	121.4430799	FPVA	.0036382675	AAAY	-.00000000 00	VIT	24095.15820
	RANG	937.0931549	RLAT	.00000000 00	AZVA	122.5247440	AAAT	.00000000 00	VAT	-22872.44042
	LIFT	.0404007989								
	DRG	672.5937576	C	4.035575568	MACH	27.02139449	SS	846.4566955	ADEN	.15428030-07

9 FEB. 1968 22 HR 7 MIN 35.33 SEC TMST 587592.3593 J.D. 2439896.4219 6 DAY 19 HR 13.2 MIN

GEOCENTRIC

	ALT	278489.0000	R	21194542.00	VI	24094.31176	X	-12430857.25	VX	18945.35131
85	LTDM	-21.89563202	RASC	230.8374290	FPVI	-.00000000 00	Y	-15262082.25	VY	-9551.920166
	LONM	119.8717346	DECL	-21.76280903	AZVI	120.6808032	Z	-7858196.125	VZ	-11417.98339
	WT	9500.000000	ATLI	71.30938434	VA	22871.58520	AAAP	-.00000000 00	VIR	-.48828125-03
	DVV	31.40912270	AMIS	121.4349327	FPVA	.00000000 00	AAAY	-.00000000 00	VIT	24094.31152
	RANG	935.7193756	RLAT	.00000000 00	AZVA	122.5158634	AAAT	.00000000 00	VAT	-22871.58520

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     LIFT    .0403715679
     DRG     672.1071166  Q      4.032655715  MACH   27.02038407  SS     846.4566955  ADEN  .15418021-07

                                PRIMARY    PHASE CUTOFF  ----  BETA SUB I          90.00000000

  RE-ENTRY  DOWNWARD DRIFT

      9 FEB.   1968 22 HR  7 MIN 35.33 SEC TMST  587592.3593  J.D. 2439896.4219    6 DAY 19 HR 13.2 MIN
     GEOCENTRIC
     ALT     278489.0000  R      21194542.00  VI     24094.31176  X     -12430857.25  VX     18945.35131
 90  LTDM   -21.89563202  RASC   230.8374290  FPVI -.00000000 00  Y     -15262082.25  VY    -9551.920166
     LONM    119.8717346  DECL  -21.76280903  AZVI   120.6808032  Z     -7858196.125  VZ    -11417.98339

     WT      9500.000000  ATLI   71.30938434  VA     22871.58520  AAAP -.00000000 00  VIR  -.48828125-03
     DVV     31.40912270  AMIS   121.4349327  FPVA  .00000000 00  AAAY -.00000000 00  VIT    24094.31152
     RANG    935.7193756  RLAT  .00000000 00  AZVA   122.5158634  AAAT  .00000000 00  VAT   -22871.58520

     LIFT    .0403715679
     DRG     672.1071166  Q      4.032655715  MACH   27.02038407  SS     846.4566955  ADEN  .15418021-07

      9 FEB.   1968 22 HR  7 MIN 38.97 SEC TMST  587596.0000  J.D. 2439896.4220    6 DAY 19 HR 13.3 MIN
     GEOCENTRIC
     ALT     278565.2500  R      21194515.75  VI     24086.02368  X     -12361774.37  VX     19005.57031
 90  LTDM   -22.01704931  RASC   231.0571670  FPVI  -.0341482162  Y     -15296702.00  VY    -9466.631591
     LONM    120.0762329  DECL  -21.88363885  AZVI   120.5982379  Z     -7899679.875  VZ    -11371.35534

     WT      9500.000000  ATLI   71.07231330  VA     22863.21533  AAAP -.00000000 00  VIR   -14.35583496
     DVV     31.40689229  AMIS   121.3543109  FPVA  -.0359745025  AAAY -.00000000 00  VIT    24086.01928
     RANG    922.2038040  RLAT  .00000000 00  AZVA   122.4279537  AAAT  .00000000 00  VAT   -22863.21069

     LIFT    .0401549600
     DRG     668.5010223  Q      4.011019051  MACH   27.01049613  SS     846.4566955  ADEN  .15346527-07

      9 FEB.   1968 22 HR  7 MIN 42.97 SEC TMST  587600.0000  J.D. 2439896.4220    6 DAY 19 HR 13.3 MIN
     GEOCENTRIC
     ALT     278589.0000  R      21194426.75  VI     24077.03100  X     -12285620.62  VX     19071.30541
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90	LTDM	-22.15005970	RASC	231.2989387	FPVI	-.0718679428	Y	-15334380.75	VY	-9372.755493
	LONM	120.3013305	DECL	-22.01600861	AZVI	120.5068826	Z	-7945062.437	VZ	-11319.90209
	WT	9500.000000	ATLI	70.81193542	VA	22854.13623	AAAP	-.00000000 00	VIR	-30.20117187
	DVV	31.40508341	AMIS	121.2651262	FPVA	-.0757131576	AAAY	-.00000000 00	VIT	24077.01171
	RANG	907.3561019	RLAT	.00000000 00	AZVA	122.3306951	AAAT	.00000000 00	VAT	-22854.11621
	LIFT	.0400658645								
	DRG	667.0177536	Q	4.002119481	MACH	26.99976992	SS	846.4566955	ADEN	.15324645-07

9 FEB. 1968 22 HR 7 MIN 46.97 SEC TMST 587604.0000 J.D. 2439896.4221 6 DAY 19 HR 13.4 MIN

	GEOCENTRIC									
	ALT	278549.2500	R	21194274.00	VI	24068.12426	X	-12209204.62	VX	19136.56518
90	LTDM	-22.28265762	RASC	231.5410785	FPVI	-.1097946167	Y	-15371683.87	VY	-9278.692016
	LONM	120.5267333	DECL	-22.14797091	AZVI	120.4148921	Z	-7990238.750	VZ	-11268.20043
	WT	9500.000000	ATLI	70.55165195	VA	22845.14721	AAAP	-.00000000 00	VIR	-46.12152099
	DVV	31.40391635	AMIS	121.1753053	FPVA	-.1156721115	AAAY	-.00000000 00	VIT	24068.08007
	RANG	892.5177230	RLAT	.00000000 00	AZVA	122.2327299	AAAT	.00000000 00	VAT	-22845.10058
	LIFT	.0401300671								
	DRG	668.0866088	Q	4.008532583	MACH	26.98915052	SS	846.4566955	ADEN	.15361283-07

9 FEB. 1968 22 HR 7 MIN 50.97 SEC TMST 587608.0000 J.D. 2439896.4221 6 DAY 19 HR 13.5 MIN

	GEOCENTRIC									
	ALT	278446.0000	R	21194057.50	VI	24059.26782	X	-12132528.75	VX	19201.32006
90	LTDM	-22.41484212	RASC	231.7835884	FPVI	-.1479244232	Y	-15408610.00	VY	-9184.430541
	LONM	120.7525634	DECL	-22.27952408	AZVI	120.3222351	Z	-8035207.687	VZ	-11216.23400
	WT	9500.000000	ATLI	70.29146385	VA	22836.21264	AAAP	-.00000000 00	VIR	-62.11614990
2"	DVV	31.40339660	AMIS	121.0848531	FPVA	-.1558475494	AAAY	-.00000000 00	VIT	24059.18750
	RANG	877.6816024	RLAT	.00000000 00	AZVA	122.1340589	AAAT	.00000000 00	VAT	-22836.12817
	LIFT	.0403538975								
	DRG	671.8129348	Q	4.030890643	MACH	26.97859525	SS	846.4566955	ADEN	.15459052-07

1"

9 FEB. 1968 22 HR 7 MIN 54.97 SEC TMST 587612.0000 J.D. 2439896.4221 6 DAY 19 HR 13.5 MIN

GEOCENTRIC

	ALT	278278.7500	R	21193777.00	VI	24050.42626	X	-12055594.75	VX	19265.54003
90	LTDM	-22.54661011	RASC	232.0264663	FPVI	-.1862583160	Y	-15445158.87	VY	-9089.959838
	LONM	120.9786987	DECL	-22.41066598	AZVI	120.2289295	Z	-8079968.250	VZ	-11163.98620
	WT	9500.000000	ATLI	70.03136730	VA	22827.29687	AAAP	-.00000000 00	VIR	-78.18420410
	DVV	31.40352845	AMIS	120.9937639	FPVA	-.1962385177	AAAY	-.00000000 00	VIT	24050.29907
	RANG	862.8545608	RLAT	.00000000 00	AZVA	122.0346813	AAAT	.00000000 00	VAT	-22827.16284
	LIFT	.0407413249								
	DRG	678.2628479	Q	4.06959021C	MACH	26.96806216	SS	846.4566955	ADEN	.15619665-07

9 FEB. 1968 22 HR 7 MIN 58.97 SEC TMST 587616.0000 J.D. 2439896.4222 6 DAY 19 HR 13.6 MIN

GEOCENTRIC

	ALT	278047.2500	R	21193432.00	VI	24041.56250	X	-11978405.12	VX	19329.19433
90	LTDM	-22.67795872	RASC	232.2697200	FPVI	-.2247962951	Y	-15481329.50	VY	-8995.269287
	LONM	121.2052307	DECL	-22.54139375	AZVI	120.1349477	Z	-8124519.187	VZ	-11111.44030
	WT	9500.000000	ATLI	69.77136421	VA	22818.36303	AAAP	-.00000000 00	VIR	-94.32568359
	DVV	31.40432333	AMIS	120.9020414	FPVA	-.2368459701	AAAY	-.00000000 00	VIT	24041.37719
	RANG	848.0319290	RLAT	.00000000 00	AZVA	121.9345970	AAAT	.00000000 00	VAT	-22818.16796
	LIFT	.0412958353								
	DRG	687.4943542	Q	4.124979436	MACH	26.95750784	SS	846.4566955	ADEN	.15844636-07

9 FEB. 1968 22 HR 8 MIN 2.97 SEC TMST 587620.0000 J.D. 2439896.4222 6 DAY 19 HR 13.7 MIN

GEOCENTRIC

	ALT	277751.2500	R	21193022.25	VI	24032.63891	X	-11900962.00	VX	19392.25000
90	LTDM	-22.80888700	RASC	232.5133495	FPVI	-.2635354996	Y	-15517120.75	VY	-8900.348022
	LONM	121.4321899	DECL	-22.67170548	AZVI	120.0402956	Z	-8168859.375	VZ	-11058.57946
	WT	9500.000000	ATLI	69.51145362	VA	22809.37353	AAAP	-.00000000 00	VIR	-110.5401611
	DVV	31.40581011	AMIS	120.8096837	FPVA	-.2776689529	AAAY	-.00000000 00	VIT	24032.38452
	RANG	833.2126312	RLAT	.00000000 00	AZVA	121.8338060	AAAT	.00000000 00	VAT	-22809.10571
	LIFT	.0420242832								

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DRG	699.6215744	Q	4.19774299E	MACH	26.94688749	SS	846.4566955	ADEN	.16136864-07

9 FEB. 1968 22 HR 8 MIN 6.97 SEC TMST 587624.0000 J.D. 2439896.4223 6 DAY 19 HR 13.7 MIN

GEOCENTRIC

	ALT	277390.5000	R	21192547.75	VI	24023.61547	X	-11823268.00	VX 19454.67285
90	LTDM	-22.93939065	RASC	232.7573566	FPVI	-.3024806976	Y	-15552532.00	VY -8805.184814
	LONM	121.6594543	DECL	-22.80159735	AZVI	119.9449939	Z	-8212987.375	VZ -11005.38598
	WT	9500.000000	ATLI	69.25163459	VA	22800.28833	AAAP	-.00000000 00	VIR -126.8275756
	DVV	31.40803265	AMIS	120.7166891	FPVA	-.3187103271	AAAY	-.00000000 00	VIT 24023.28051
	RANG	818.4023590	RLAT	.00000000 00	AZVA	121.7323074	AAAT	.00000000 00	VAT -22799.93554
	LIFT	.0429354035							
	DRG	714.7899246	Q	4.28875339C	MACH	26.93615436	SS	846.4566955	ADEN .16499865-07

9 FEB. 1968 22 HR 8 MIN 10.97 SEC TMST 587628.0000 J.D. 2439896.4223 6 DAY 19 HR 13.8 MIN

GEOCENTRIC

	ALT	276964.2500	R	21192007.75	VI	24014.45043	X	-11745325.62	VX 19516.42700
90	LTDM	-23.06946754	RASC	233.0017452	FPVI	-.3416318893	Y	-15587562.00	VY -8709.768798
	LONM	121.8871154	DECL	-22.93106746	AZVI	119.8490085	Z	-8256902.000	VZ -10951.84130
	WT	9500.000000	ATLI	68.99190998	VA	22791.06518	AAAP	-.00000000 00	VIR -143.1884765
	DVV	31.41105866	AMIS	120.6230602	FPVA	-.3599700928	AAAY	-.00000000 00	VIT 24014.02343
	RANG	803.5967483	RLAT	.00000000 00	AZVA	121.6301040	AAAT	.00000000 00	VAT -22790.61547
	LIFT	.0440411726							
	DRG	733.1988067	Q	4.399207055	MACH	26.92525815	SS	846.4566955	ADEN .16938508-07

9 FEB. 1968 22 HR 8 MIN 14.97 SEC TMST 587632.0000 J.D. 2439896.4224 6 DAY 19 HR 13.9 MIN

GEOCENTRIC

	ALT	276472.5000	R	21191402.00	VI	24005.09887	X	-11667137.62	VX 19577.47338
90	LTDM	-23.19911432	RASC	233.2465114	FPVI	-.3809928894	Y	-15622209.62	VY -8614.088012
	LONM	122.1152038	DECL	-23.06011223	AZVI	119.7523374	Z	-8300601.625	VZ -10897.92614
	WT	9500.000000	ATLI	68.73227787	VA	22781.66015	AAAP	-.00000000 00	VIR -159.6234130
	DVV	31.41496753	AMIS	120.5287971	FPVA	-.4014539718	AAAY	-.00000000 00	VIT 24004.56811

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RANG	788.7948379	RLAT	.00000000 00	AZVA	121.5271911	AAAT	.00000000 00	VAT	-22781.10083
LIFT	.0453535239								
DRG	755.0468750	C	4.530295846	MACH	26.91414713	SS	846.4566955	ADEN	.17457652-07

9 FEB. 1968 22 HR 8 MIN 18.97 SEC TMST 587636.0000 J.D. 2439896.4224 6 DAY 19 HR 13.9 MIN

GEOCENTRIC									
ALT	275915.2500	R	21190730.50	VI	23995.51318	X	-11588706.87	VX	19637.77026
90 LTDM	-23.32832694	RASC	233.4916610	FPVI	-.4205675125	Y	-15656474.12	VY	-8518.130737
LONM	122.3436279	DECL	-23.18872761	AZVI	119.6549921	Z	-8344084.875	VZ	-10843.61999
WT	9500.000000	ATLI	68.47274398	VA	22772.02490	AAAP	-.00000000 00	VIR	-176.1329345
DVV	31.41986131	AMIS	120.4338998	FPVA	-.4431638717	AAAY	-.00000000 00	VIT	23994.86669
RANG	774.0007629	RLAT	.00000000 00	AZVA	121.4235744	AAAT	.00000000 00	VAT	-22771.34375
LIFT	.0468862327								
DRG	780.5634536	C	4.683395862	MACH	26.90276408	SS	846.4566955	ADEN	.18062904-07

9 FEB. 1968 22 HR 8 MIN 22.97 SEC TMST 587640.0000 J.D. 2439896.4225 6 DAY 19 HR 14.0 MIN

GEOCENTRIC									
ALT	275291.7500	R	21189992.75	VI	23985.64282	X	-11510036.50	VX	19697.27270
90 LTDM	-23.45710182	RASC	233.7371921	FPVI	-.4603595733	Y	-15690354.37	VY	-8421.883789
LONM	122.5724792	DECL	-23.31691002	AZVI	119.5569725	Z	-8387350.062	VZ	-10788.90087
WT	9500.000000	ATLI	68.21330547	VA	22762.10913	AAAP	-.00000000 00	VIR	-192.7182617
DVV	31.42587804	AMIS	120.3383693	FPVA	-.4851064682	AAAY	-.00000000 00	VIT	23984.86840
RANG	759.2104949	RLAT	.00000000 00	AZVA	121.3192529	AAAT	.00000000 00	VAT	-22761.29321
LIFT	.0486571141								
DRG	810.0451507	C	4.860286593	MACH	26.89104962	SS	846.4566955	ADEN	.18761471-07

9 FEB. 1968 22 HR 8 MIN 26.97 SEC TMST 587644.0000 J.D. 2439896.4225 6 DAY 19 HR 14.1 MIN

GEOCENTRIC									
ALT	274602.0000	R	21189188.75	VI	23975.43188	X	-11431129.62	VX	19755.93212
90 LTDM	-23.58543491	RASC	233.9831027	FPVI	-.5003767013	Y	-15723848.87	VY	-8325.334228
LONM	122.8016662	DECL	-23.44465565	AZVI	119.4582557	Z	-8430395.500	VZ	-10733.74572

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WT	9500.000000	ATLI	67.95396995	VA	22751.85717	AAAP	-.00000000 00	VIR	-209.3805541
DVV	31.43317604	AMIS	120.2422075	FPVA	-.5272874832	AAAY	-.00000000 00	VIT	23974.51733
RANG	744.4285278	RLAT	.00000000 00	AZVA	121.2142267	AAAT	.00000000 00	VAT	-22750.89379
LIFT	.0506837899								
DRG	843.7853088	Q	5.062728226	MACH	26.87893795	SS	846.4566955	ADEN	.19560543-07

9 FEB. 1968 22 HR 8 MIN 30.97 SEC TMST 587648.0000 J.D. 2439896.4226 6 DAY 19 HR 14.1 MIN

GEOCENTRIC

ALT	273845.5000	R	21188317.75	VI	23964.81616	X	-11351990.12	VX	19813.69116
90 LTDM	-23.71332144	RASC	234.2293968	FPVI	-.5406246185	Y	-15756956.62	VY	-8228.466186
LONM	123.0312194	DECL	-23.57195949	AZVI	119.3588571	Z	-8473219.375	VZ	-10678.12695
WT	9500.000000	ATLI	67.69473743	VA	22741.20434	AAAP	-.00000000 00	VIR	-226.1214599
DVV	31.44219565	AMIS	120.1454153	FPVA	-.5697145462	AAAY	-.00000000 00	VIT	23963.74926
RANG	729.6533279	RLAT	.00000000 00	AZVA	121.1084995	AAAT	.00000000 00	VAT	-22740.08007
LIFT	.0530478167								
DRG	883.1417007	Q	5.298867285	MACH	26.86635279	SS	846.4566955	ADEN	.20492084-07

9 FEB. 1968 22 HR 8 MIN 34.97 SEC TMST 587652.0000 J.D. 2439896.4226 6 DAY 19 HR 14.2 MIN

GEOCENTRIC

ALT	273022.0000	R	21187379.75	VI	23953.71582	X	-11272621.50	VX	19870.48046
90 LTDM	-23.84075689	RASC	234.4760608	FPVI	-.5811119079	Y	-15789676.25	VY	-8131.260131
LONM	123.2611999	DECL	-23.69881701	AZVI	119.2587709	Z	-8515819.750	VZ	-10622.01098
WT	9500.000000	ATLI	67.43561267	VA	22730.07128	AAAP	-.00000000 00	VIR	-242.9423828
DVV	31.45317732	AMIS	120.0479927	FPVA	-.6123962402	AAAY	-.00000000 00	VIT	23952.48364
RANG	714.8823852	RLAT	.00000000 00	AZVA	121.0020694	AAAT	.00000000 00	VAT	-22728.77294
LIFT	.0557606714								
DRG	928.3053817	Q	5.569850266	MACH	26.85320019	SS	846.4566955	ADEN	.21561150-07

9 FEB. 1968 22 HR 8 MIN 38.97 SEC TMST 587656.0000 J.D. 2439896.4227 6 DAY 19 HR 14.3 MIN

GEOCENTRIC

ALT	272130.7500	R	21186374.00	VI	23942.05224	X	-11193027.75	VX	19926.22973

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90	LTDM	-23.96773624	RASC	234.7231063	FPVI	-.6218471527	Y	-15822006.12	VY	-8033.697875
	LONM	123.4915161	DECL	-23.82522368	AZVI	119.1579732	Z	-8558194.750	VZ	-10565.36474
	WT	9500.000000	ATLI	67.17660140	VA	22718.37890	AAAP	-.00000000 00	VIR	-259.8452148
	DVV	31.46644401	AMIS	119.9499454	FPVA	-.6553430557	AAAY	-.00000000 00	VIT	23940.64208
	RANG	700.1199035	RLAT	.00000000 00	AZVA	120.8949413	AAAT	.00000000 00	VAT	-22716.89282
	LIFT	.0588406678								
	DRG	979.5812683	C	5.877506554	MACH	26.83938694	SS	846.4566955	ADEN	.22775527-07

9 FEB. 1968 22 HR 8 MIN 42.97 SEC TMST 587660.0000 J.D. 2439896.4227 6 DAY 19 HR 14.3 MIN

GEOCENTRIC

	ALT	271172.0000	R	21185300.75	VI	23929.73950	X	-11113213.12	VX	19980.86254
90	LTDM	-24.09425377	RASC	234.9705162	FPVI	-.6628427505	Y	-15853945.25	VY	-7935.759643
	LONM	123.7221984	DECL	-23.95117282	AZVI	119.0564966	Z	-8600342.000	VZ	-10508.15295
	WT	9500.000000	ATLI	66.91770935	VA	22706.04174	AAAP	-.00000000 00	VIR	-276.8324584
	DVV	31.48243141	AMIS	119.8512735	FPVA	-.6985664367	AAAY	-.00000000 00	VIT	23928.13818
	RANG	685.3651123	RLAT	.00000000 00	AZVA	120.7871179	AAAT	.00000000 00	VAT	-22704.35400
	LIFT	.0623198682								
	DRG	1037.503097	C	6.225038707	MACH	26.82481193	SS	846.4566955	ADEN	.24148446-07

9 FEB. 1968 22 HR 8 MIN 46.97 SEC TMST 587664.0000 J.D. 2439896.4228 6 DAY 19 HR 14.4 MIN

GEOCENTRIC

	ALT	270145.2500	R	21184159.25	VI	23916.68383	X	-11033182.50	VX	20034.29541
90	LTDM	-24.22030329	RASC	235.2182941	FPVI	-.7041120529	Y	-15885491.75	VY	-7837.424743
	LONM	123.9532775	DECL	-24.07665872	AZVI	118.9543085	Z	-8642259.125	VZ	-10450.33691
	WT	9500.000000	ATLI	66.65894317	VA	22692.96582	AAAP	-.00000000 00	VIR	-293.9070434
	DVV	31.50180411	AMIS	119.7519788	FPVA	-.7420835495	AAAY	-.00000000 00	VIT	23914.87768
	RANG	670.6162185	RLAT	.00000000 00	AZVA	120.6786003	AAAT	.00000000 00	VAT	-22691.06250
	LIFT	.0662585087								
	DRG	1103.073730	C	6.618463695	MACH	26.80936408	SS	846.4566955	ADEN	.25704234-07

9 FEB. 1968 22 HR 8 MIN 50.97 SEC TMST 587668.0000 J.D. 2439896.4228 6 DAY 19 HR 14.5 MIN

GEOCENTRIC

	ALT	269049.7500	R	21182949.25	VI	23902.76049	X	-10952940.62	VX	20086.41796
90	LTDM	-24.34587717	RASC	235.4664325	FPVI	-.7456684112	Y	-15916644.12	VY	-7738.664123
	LONM	124.1846923	DECL	-24.20167446	AZVI	118.8514003	Z	-8683943.750	VZ	-10391.86499
	WT	9500.000000	ATLI	66.40031147	VA	22679.02685	AAAP	-.00000000 00	VIR	-311.0714111
	DVV	31.52594399	AMIS	119.6520690	FPVA	-.7859067917	AAAY	-.00000000 00	VIT	23900.73608
	RANG	655.8768157	RLAT	.00000000 00	AZVA	120.5693922	AAAT	.00000000 00	VAT	-22676.89331
	LIFT	.0708234450								
	DRG	1179.070922	C	7.074448347	MACH	26.79289674	SS	846.4566955	ADEN	.27508934-07

9 FEB. 1968 22 HR 8 MIN 54.97 SEC TMST 587672.0000 J.D. 2439896.4229 6 DAY 19 HR 14.5 MIN

GEOCENTRIC

	ALT	267885.7500	R	21181670.50	VI	23887.83300	X	-10872493.00	VX	20137.10815
90	LTDM	-24.47096991	RASC	235.7149219	FPVI	-.7875299454	Y	-15947400.50	VY	-7639.447143
	LONM	124.4165039	DECL	-24.32621335	AZVI	118.7477874	Z	-8725393.125	VZ	-10332.68078
	WT	9500.000000	ATLI	66.14182186	VA	22664.08740	AAAP	-.00000000 00	VIR	-328.3284912
	DVV	31.55546450	AMIS	119.5515460	FPVA	-.8300552368	AAAY	-.00000000 00	VIT	23885.57641
	RANG	641.1435623	RLAT	.00000000 00	AZVA	120.4594993	AAAT	.00000000 00	VAT	-22661.70898
	LIFT	.0759885851								
	DRG	1265.060317	C	7.590386390	MACH	26.77524733	SS	846.4566955	ADEN	.29554078-07

9 FEB. 1968 22 HR 8 MIN 58.97 SEC TMST 587676.0000 J.D. 2439896.4229 6 DAY 19 HR 14.6 MIN

GEOCENTRIC

	ALT	266652.5000	R	21180322.75	VI	23871.76049	X	-10791845.75	VX	20186.24047
90	LTDM	-24.59557175	RASC	235.9637546	FPVI	-.8297166824	Y	-15977759.00	VY	-7539.743103
	LONM	124.6486206	DECL	-24.45026731	AZVI	118.6434497	Z	-8766604.250	VZ	-10272.72705
	WT	9500.000000	ATLI	65.88348865	VA	22648.00732	AAAP	-.00000000 00	VIR	-345.6823730
	DVV	31.59157800	AMIS	119.4504127	FPVA	-.8745527267	AAAY	-.00000000 00	VIT	23869.25732
	RANG	626.4215927	RLAT	.00000000 00	AZVA	120.3489255	AAAT	.00000000 00	VAT	-22645.36889
	LIFT	.0818124134								

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DRG	1362.015594	G	8.172119975	MACH	26.75625038	SS	846.4566955	ADEN	.31864327-07

9 FEB. 1968 22 HR 9 MIN 2.97 SEC TMST 587680.0000 J.D. 2439896.4229 6 DAY 19 HR 14.7 MIN

GEOCENTRIC

	ALT	265349.5000	R	21178905.00	VI	23854.38134	X	-10711005.37	VX 20233.66967
90	LTDM	-24.71967482	RASC	236.2129211	FPVI	-.8722496033	Y	-16007717.75	VY -7439.517761
	LONM	124.8810424	DECL	-24.57382631	AZVI	118.5383977	Z	-8807573.875	VZ -10211.93896
	WT	9500.000000	ATLI	65.62532043	VA	22630.62500	AAAP	-.00000000 00	VIR -363.1367797
	DVV	31.63636779	AMIS	119.3486785	FPVA	-.9194211960	AAAY	-.00000000 00	VIT 23851.61694
	RANG	611.7111587	RLAT	.00000000 00	AZVA	120.2376756	AAAT	.00000000 00	VAT -22627.71118
	LIFT	.0884432476							
	DRG	1472.405929	G	8.834464192	MACH	26.73571491	SS	846.4566955	ADEN .34499843-07

9 FEB. 1968 22 HR 9 MIN 6.97 SEC TMST 587684.0000 J.D. 2439896.4230 6 DAY 19 HR 14.7 MIN

GEOCENTRIC

	ALT	263976.5000	R	21177417.50	VI	23835.50024	X	-10629979.00	VX 20279.22143
90	LTDM	-24.84326934	RASC	236.4624061	FPVI	-.9151554107	Y	-16037274.50	VY -7338.728881
	LONM	125.1138305	DECL	-24.69688153	AZVI	118.4326124	Z	-8848298.500	VZ -10150.23693
	WT	9500.000000	ATLI	65.36733436	VA	22611.74462	AAAP	-.00000000 00	VIR -380.6962890
	DVV	31.69193005	AMIS	119.2463502	FPVA	-.9646883011	AAAY	-.00000000 00	VIT 23832.45947
	RANG	597.0091934	RLAT	.00000000 00	AZVA	120.1257581	AAAT	.00000000 00	VAT -22608.53955
	LIFT	.0959636075							
	DRG	1597.605102	G	9.585661530	MACH	26.71340966	SS	846.4566955	ADEN .37495914-07

9 FEB. 1968 22 HR 9 MIN 10.97 SEC TMST 587688.0000 J.D. 2439896.4230 6 DAY 19 HR 14.8 MIN

GEOCENTRIC

	ALT	262532.7500	R	21175859.25	VI	23814.91479	X	-10548774.25	VX 20322.71337
90	LTDM	-24.96634435	RASC	236.7121944	FPVI	-.9584627151	Y	-16066426.75	VY -7237.335021
	LONM	125.3468933	DECL	-24.81942296	AZVI	118.3260736	Z	-8888774.375	VZ -10087.54016
	WT	9500.000000	ATLI	65.10954666	VA	22591.16357	AAAP	-.00000000 00	VIR -398.3656616
	DVV	31.76049828	AMIS	119.1434335	FPVA	-1.010387420	AAAY	-.00000000 00	VIT 23811.58251

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RANG	582.3207092	RLAT	.00000000 00	AZVA	120.0131797	AAAT	.00000000 00	VAT	-22587.65087
LIFT	.104421528C								
DRG	1738.412841	C	10.43051075	MACH	26.68909525	SS	846.4566955	ADEN	.40875058-07

9 FEB. 1968 22 HR 9 MIN 14.97 SEC TMST 587692.0000 J.D. 2439896.4231 6 DAY 19 HR 14.9 MIN

GEOCENTRIC

ALT	261018.0000	R	21174230.25	VI	23792.44213	X	-10467400.12	VX	20363.97851
90 LTDM	-25.08888816	RASC	236.9622745	FPVI	-1.002206802	Y	-16095172.12	VY	-7135.302429
LONM	125.5802612	DECL	-24.94143795	AZVI	118.2187948	Z	-8928997.375	VZ	-10023.77856
WT	9500.000000	ATLI	64.35197544	VA	22568.70019	AAAP	-.00000000 00	VIR	-416.1521606
DVV	31.84041070	AMIS	119.0399370	FPVA	-1.056554794	AAAY	-.00000000 00	VIT	23788.80224
RANG	567.6445312	RLAT	.00000000 00	AZVA	119.8999471	AAAT	.00000000 00	VAT	-22564.86303
LIFT	.1134099345								
DRG	1888.052124	C	11.32834923	MACH	26.51235103	SS	851.2523117	ADEN	.44481920-07

9 FEB. 1968 22 HR 9 MIN 18.97 SEC TMST 587696.0000 J.D. 2439896.4231 6 DAY 19 HR 14.9 MIN

GEOCENTRIC

ALT	259432.0000	R	21172529.75	VI	23767.98901	X	-10385865.50	VX	20402.92626
90 LTDM	-25.21088862	RASC	237.2126216	FPVI	-1.046429634	Y	-16123508.25	VY	-7032.623291
LONM	125.8139038	DECL	-25.06291460	AZVI	118.1107807	Z	-8968963.125	VZ	-9958.921386
WT	9500.000000	ATLI	64.59464073	VA	22544.26049	AAAP	-.00000000 00	VIR	-434.0668334
DVV	31.93309402	AMIS	118.9358739	FPVA	-1.103238105	AAAY	-.00000000 00	VIT	23764.02490
RANG	552.9820938	RLAT	.00000000 00	AZVA	119.7860717	AAAT	.00000000 00	VAT	-22540.08129
LIFT	.1229460556								
DRG	2046.809738	C	12.28089797	MACH	26.31985211	SS	856.5496597	ADEN	.48326811-07

9 FEB. 1968 22 HR 9 MIN 22.97 SEC TMST 587700.0000 J.D. 2439896.4232 6 DAY 19 HR 15.0 MIN

GEOCENTRIC

ALT	257773.7500	R	21170757.50	VI	23741.40332	X	-10304180.00	VX	20439.41357
90 LTDM	-25.33233308	RASC	237.4632148	FPVI	-1.091175079	Y	-16151432.12	VY	-6929.275635
LONM	126.0477905	DECL	-25.18384051	AZVI	118.0020236	Z	-9008667.250	VZ	-9892.913818

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WT	9500.000000	ATLI	64.33756637	VA	22517.69213	AAAP	-.00000000 00	VIR	-452.1190795
DVV	32.04291296	AMIS	118.8312511	FPVA	-1.150483131	AAAY	-.00000000 00	VIT	23737.09765
RANG	538.3358154	RLAT	.00000000 00	AZVA	119.6715660	AAAT	.00000000 00	VAT	-22513.15283
LIFT	.1333000120								
DRG	2219.182739	C	13.31513929	MACH	26.12065315	SS	862.0646591	ADEN	.52520392-07

9 FEB. 1968 22 HR 9 MIN 26.97 SEC TMST 587704.0000 J.D. 2439896.4232 6 DAY 19 HR 15.1 MIN

GEOCENTRIC

ALT	256043.0000	R	21168912.50	VI	23712.39526	X	-10222353.87	VX	20473.17822
90 LTDM	-25.45320820	RASC	237.7140388	FPVI	-1.136484146	Y	-16178941.50	VY	-6825.204223
LONM	126.2819213	DECL	-25.30420112	AZVI	117.8925323	Z	-9048104.750	VZ	-9825.642944
WT	9500.000000	ATLI	64.08077335	VA	22488.70605	AAAP	-.00000000 00	VIR	-470.3145751
DVV	32.18252325	AMIS	118.7260818	FPVA	-1.198333740	AAAY	-.00000000 00	VIT	23707.73071
RANG	523.7057342	RLAT	.00000000 00	AZVA	119.5564365	AAAT	.00000000 00	VAT	-22483.78759
LIFT	.1453269012								
DRG	2419.406768	C	14.51648736	MACH	25.91476869	SS	867.7949676	ADEN	.57406703-07
UL	-2900752.875	DUL	20114.98022	PXG	11683943.75	VXG	-19748.98706	AXG	-10.46937716
VL	1372587.187	DVL	-9607.389038	PYG	-621649.3125	VYG	-4456.019592	AYG	2.814506053
WL	11325.01562	DWL	2971.118041	PZG	-38549097.00	VZG	-12345.00207	AZG	30.30157542
RCRO2	WOOMERA	RCR	3209126.656	AZR	-64.67727756	ELR	89.79540157	DRGR	-22280.67749
RLA1	145.0814952	RLA2	180.0000019	LAP	34.91850662	LAY	-180.0000000	LAPP	.00000000 00
DPR	.00000000 00	DGR	.00000000 00	DAZR	-.25159031-04	DELR	-.95063218-03		

9 FEB. 1968 22 HR 9 MIN 30.97 SEC TMST 587708.0000 J.D. 2439896.4232 6 DAY 19 HR 15.1 MIN

GEOCENTRIC

ALT	254239.2500	R	21166995.00	VI	23680.61938	X	-10140398.62	VX	20503.90649
90 LTDM	-25.57349753	RASC	237.9650630	FPVI	-1.182402610	Y	-16206033.00	VY	-6720.342407
LONM	126.5162048	DECL	-25.42398190	AZVI	117.7822656	Z	-9087270.500	VZ	-9756.973876
WT	9500.000000	ATLI	63.82429170	VA	22456.95581	AAAP	-.00000000 00	VIR	-488.6588134
DVV	32.35366296	AMIS	118.6203813	FPVA	-1.246841430	AAAY	-.00000000 00	VIT	23675.57690
RANG	509.0967369	RLAT	.00000000 00	AZVA	119.4406986	AAAT	.00000000 00	VAT	-22451.63867

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LIFT	.1587636824								
DRG	2643.102722	G	15.85866761	MACH	25.70213508	SS	873.7389144	ADEN	.62891930-07
UL	-2820324.906	DUL	20102.45141	PXG	11604866.12	VXG	-19789.34301	AXG	-9.696357131
VL	1334181.484	DVL	-9594.982910	PYG	-639450.3750	VYG	-4444.393066	AYG	3.001584172
WL	22973.64843	DWL	2853.526275	PZG	-38598234.00	VZG	-12222.96960	AZG	30.72019982
RDR02	WOOMERA	RGR	3120065.187	AZR	-64.68306350	ELR	89.57564735	DRGR	-22253.04541
RLA1	144.8485698	RLA2	180.0000019	LAP	35.15143108	LAY	-180.0000000	LAPP	.00000000 00
DPR	.00000000 00	DGR	.00000000 00	DAZR	-.24721980-04	DELR	-.96742244-03		

9 FEB. 1968 22 HR 9 MIN 34.97 SEC TMST 587712.0000 J.D. 2439896.4233 6 DAY 19 HR 15.2 MIN

GEOCENTRIC

	ALT	252361.2500	R	21165003.25	VI	23645.73950	X	-10058327.00	VX	20531.29223
90	LTDM	-25.69318461	RASC	238.2162532	FPVI	-1.228987693	Y	-16232703.12	VY	-6614.630981
	LONM	126.7506713	DECL	-25.54316592	AZVI	117.6712408	Z	-9126158.500	VZ	-9686.778808
	WT	9500.000000	ATLI	63.56815099	VA	22422.10595	AAAP	-.00000000 00	VIR	-507.1596679
	DVV	32.56401634	AMIS	118.5141611	FPVA	-1.296067237	AAAY	-.00000000 00	VIT	23640.29980
	RANG	494.5071182	RLAT	.00000000 00	AZVA	119.3243684	AAAT	.00000000 00	VAT	-22416.36938
	LIFT	.1738035176								
	DRG	2893.486358	G	17.36097407	MACH	25.48264503	SS	879.8971176	ADEN	.69063930-07
	UL	-2739953.906	DUL	20086.60815	PXG	11525633.37	VXG	-19826.44970	AXG	-8.842928648
	VL	1295828.343	DVL	-9580.980712	PYG	-657203.3750	VYG	-4431.981445	AYG	3.207445263
	WL	34150.87500	DWL	2735.657165	PZG	-38646878.50	VZG	-12099.19042	AZG	31.17579269
	RDR02	WOOMERA	RGR	3031120.906	AZR	-64.68875217	ELR	89.35190677	DRGR	-22222.10693
	RLA1	144.6116523	RLA2	180.0000019	LAP	35.38834857	LAY	-180.0000000	LAPP	.00000000 00
	DPR	.00000000 00	DGR	.00000000 00	DAZR	-.24236503-04	DELR	-.98551143-03		

9 FEB. 1968 22 HR 9 MIN 38.97 SEC TMST 587716.0000 J.D. 2439896.4233 6 DAY 19 HR 15.3 MIN

GEOCENTRIC

	ALT	250408.7500	R	21162937.25	VI	23607.38232	X	-9976153.125	VX	20554.99316
90	LTDM	-25.81225180	RASC	238.4675827	FPVI	-1.276297569	Y	-16258948.62	VY	-6508.005065
	LONM	126.9853210	DECL	-25.66173434	AZVI	117.5594215	Z	-9164762.500	VZ	-9614.916748

WT	9500.000000	ATLI	63.31238651	VA	22383.78295	AAAP	-.00000000 00	VIR	-525.8256225
DVV	32.82112979	AMIS	118.4074430	FPVA	-1.346077919	AAAY	-.00000000 00	VIT	23601.52539
RANG	479.9384727	RLAT	.00000000 00	AZVA	119.2074613	AAAT	.00000000 00	VAT	-22377.60571
LIFT	.1905423421								
DRG	3172.154785	G	19.03299021	MACH	25.25626039	SS	886.2667083	ADEN	.75974884-07
UL	-2659639.156	DUL	20067.10791	PXG	11446259.25	VXG	-19859.97241	AXG	-7.903832554
VL	1257535.687	DVL	-9565.231201	PYG	-674905.1250	VYG	-4418.707153	AYG	3.433131575
WL	44857.98437	DWL	2617.491485	PZG	-38695024.50	VZG	-11973.51245	AZG	31.66969513
RDR02	WOOMERA	RGR	2942295.156	AZR	-64.69418811	ELR	89.12382030	DRGR	-22187.48071
RLA1	144.3704109	RLA2	180.0000019	LAP	35.62959051	LAY	-180.0000000	LAPP	.00000000 00
DPR	.0000000 00	DGR	.00000000 00	DAZR	-.23680752-04	DELR	-.0010050382		

9 FEB. 1968 22 HR 9 MIN 42.97 SEC TMST 587720.0000 J.D. 2439896.4234 6 DAY 19 HR 15.3 MIN

GEOCENTRIC

ALT	248381.0000	R	21160796.25	VI	23565.13793	X	-9893892.625	VX	20574.63281
90 LTDM	-25.93067789	RASC	238.7190093	FPVI	-1.324404716	Y	-16284765.75	VY	-6400.396179
LONM	127.2200317	DECL	-25.77966737	AZVI	117.4468317	Z	-9203075.500	VZ	-9541.234008
WT	9500.000000	ATLI	63.05703687	VA	22341.57690	AAAP	-.00000000 00	VIR	-544.6654663
DVV	33.13797330	AMIS	118.3002433	FPVA	-1.396950721	AAAY	-.00000000 00	VIT	23558.84252
RANG	465.3960342	RLAT	.00000000 00	AZVA	119.0899972	AAAT	.00000000 00	VAT	-22334.93652
LIFT	.2093251999								
DRG	3484.852416	G	20.90918183	MACH	25.02287077	SS	892.8462677	ADEN	.83779814-07
UL	-2579417.281	DUL	20043.58081	PXG	11366758.87	VXG	-19889.54345	AXG	-6.861830830
VL	1219309.343	DVL	-9547.548583	PYG	-692551.9375	VYG	-4404.484619	AYG	3.682681918
WL	55091.07031	DWL	2499.045501	PZG	-38742664.00	VZG	-11845.77124	AZG	32.20991086
RDR02	WOOMERA	RGR	2853622.031	AZR	-64.69955635	ELR	88.89109802	DRGR	-22148.75048
RLA1	144.1245231	RLA2	180.0000019	LAP	35.87547731	LAY	-180.0000000	LAPP	.00000000 00
DPR	.0000000 00	DGR	.00000000 00	DAZR	-.23069254-04	DELR	-.0010261462		

9 FEB. 1968 22 HR 9 MIN 46.97 SEC TMST 587724.0000 J.D. 2439896.4234 6 DAY 19 HR 15.4 MIN

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GEOCENTRIC

	ALT	246277.5000	R	21158579.75	VI	23518.51342	X	-9811562.250	VX	20589.75878
90	LTDM	-26.04843997	RASC	238.9704933	FPVI	-1.373385429	Y	-16310150.50	VY	-6291.720886
	LONM	127.4547729	DECL	-25.89694190	AZVI	117.3334455	Z	-9241089.750	VZ	-9465.545654
	WT	9500.000000	ATLI	62.80214786	VA	22294.99462	AAAP	-.00000000 00	VIR	-563.6876220
	DVV	33.52702426	AMIS	118.1925859	FPVA	-1.448770523	AAAY	-.00000000 00	VIT	23511.75732
	RANG	450.8830795	RLAT	.00000000 00	AZVA	118.9719991	AAAT	.00000000 00	VAT	-22287.86767
	LIFT	.2303358335								
	DRG	3834.638092	C	23.00790286	MACH	24.78231120	SS	899.6333847	ADEN	.92574695-07
	UL	-2499298.718	DUL	20015.57763	PXG	11287148.87	VXG	-19914.71948	AXG	-5.707239747
	VL	1181158.031	DVL	-9527.726928	PYG	-710139.6250	VYG	-4389.211730	AYG	3.958155632
	WL	64849.82812	DWL	2380.308197	PZG	-38789788.00	VZG	-11715.76831	AZG	32.79972171
	RDRO2	WOOMERA	RGR	2765113.250	AZR	-64.70477867	ELR	88.65333938	DRGR	-22105.41479
	RLA1	143.8735942	RLA2	180.0000019	LAP	36.12640571	LAY	-180.0000000	LAPP	.00000000 00
	DPR	.00000000 00	DLR	.00000000 00	DAZR	-.22387253-04	DELR	-.0010490055		

9 FEB. 1968 22 HR 9 MIN 50.97 SEC TMST 587728.0000 J.D. 2439896.4235 6 DAY 19 HR 15.5 MIN

GEOCENTRIC

	ALT	244097.2500	R	21156286.75	VI	23466.98413	X	-9729181.000	VX	20599.88818
90	LTDM	-26.16551351	RASC	239.2219772	FPVI	-1.423325538	Y	-16335098.00	VY	-6181.894714
	LONM	127.6895751	DECL	-26.01353263	AZVI	117.2192306	Z	-9278796.875	VZ	-9387.657470
	WT	9500.000000	ATLI	62.54776859	VA	22243.51147	AAAP	-.00000000 00	VIR	-582.9010620
	DVV	34.00580120	AMIS	118.0844964	FPVA	-1.501631736	AAAY	-.00000000 00	VIT	23459.74365
	RANG	436.3975601	RLAT	.00000000 00	AZVA	118.8534879	AAAT	.00000000 00	VAT	-22235.87255
	LIFT	.2539120838								
2"	DRG	4227.136291	C	25.36289978	MACH	24.53435683	SS	906.6270446	ADEN	.10252321-06
	UL	-2419294.406	DUL	19982.61767	PXG	11207447.62	VXG	-19935.02807	AXG	-4.422853469
	VL	1143091.125	DVL	-9505.547119	PYG	-727663.9375	VYG	-4372.779541	AYG	4.263446450
	WL	74133.82812	DWL	2261.272094	PZG	-38836387.00	VZG	-11583.29748	AZG	33.44631338
1"	RDRO2	WOOMERA	RGR	2676781.343	AZR	-64.70975780	ELR	88.41010379	DRGR	-22056.93798

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RLA1	143.6172027	RLA2	180.0000015	LAP	36.38279867	LAY	-180.0000000	LAPP	.00000000 00
DPR	.00000000 00	DGR	.00000000 00	DAZR	-.21616131-04	DELR	-.0010738105		

9 FEB. 1968 22 HR 9 MIN 54.97 SEC TMST 587732.0000 J.D. 2439896.4235 6 DAY 19 HR 15.5 MIN

GEOCENTRIC									
ALT	241839.0000	R	21153916.25	VI	23409.93774	X	-9646770.375	VX	20604.45776
90 LTDM	-26.28187131	RASC	239.4734134	FPVI	-1.474325180	Y	-16359603.75	VY	-6070.819763
LONM	127.9242858	DECL	-26.12941408	AZVI	117.1042022	Z	-9316187.750	VZ	-9307.343505
WT	9500.000000	ATLI	62.29395341	VA	22186.51562	AAAP	-.00000000 00	VIR	-602.3145141
DVV	34.59142255	AMIS	117.9760017	FPVA	-1.555643081	AAAY	-.00000000 00	VIT	23402.18798
RANG	421.9478836	RLAT	.00000000 00	AZVA	118.7344942	AAAT	.00000000 00	VAT	-22178.33837
LIFT	.2802506685								
DRG	4665.621826	G	27.99382138	MACH	24.27868771	SS	913.8267974	ADEN	.11374020-06
UL	-2339447.281	DUL	19944.14941	PXG	11127675.75	VXG	-19949.91674	AXG	-2.998104214
VL	1105116.953	DVL	-9480.737792	PYG	-745120.1875	VYG	-4355.061828	AYG	4.600716829
WL	82939.22265	DWL	2141.957977	PZG	-38882450.50	VZG	-11448.11877	AZG	34.15276336
RDR02	WOOMERA	RGR	2588667.281	AZR	-64.71470928	ELR	88.16098880	DRGR	-22002.69970
RLA1	143.3548889	RLA2	180.0000019	LAP	36.64511203	LAY	-180.0000000	LAPP	.00000000 00
DPR	.00000000 00	DGR	.00000000 00	DAZR	-.20774201-04	DELR	-.0011007672		

9 FEB. 1968 22 HR 9 MIN 58.97 SEC TMST 587736.0000 J.D. 2439896.4236 6 DAY 19 HR 15.6 MIN

GEOCENTRIC									
ALT	239502.5000	R	21151467.75	VI	23346.70996	X	-9564353.750	VX	20602.85327
90 LTDM	-26.39748311	RASC	239.7247314	FPVI	-1.526492118	Y	-16383662.62	VY	-5958.394042
LONM	128.1588745	DECL	-26.24455428	AZVI	116.9883127	Z	-9353252.125	VZ	-9224.361206
WT	9500.000000	ATLI	62.04076671	VA	22123.34155	AAAP	-.00000000 00	VIR	-621.9370727
DVV	35.31110286	AMIS	117.8671369	FPVA	-1.610924720	AAAY	-.00000000 00	VIT	23338.42456
RANG	407.5364112	RLAT	.00000000 00	AZVA	118.6150484	AAAT	.00000000 00	VAT	-22114.59765
LIFT	.3098738529								
DRG	5158.789550	G	30.95283722	MACH	24.01503467	SS	921.2287902	ADEN	.12648209-06

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UL	-2259758.656	DUL	19899.56250	PXG	11047856.25	VXG	-19958.78393	AXG	-1.406534239
VL	1067248.359	DVL	-9453.028442	PYG	-762502.6250	VYG	-4335.921569	AYG	4.976005911
WL	91267.94140	DWL	2022.351959	PZG	-38927968.00	VZG	-11309.97692	AZG	34.93043088
RDR02	WOOMERA	RGR	2500776.406	AZR	-64.71937179	ELR	87.90539550	DRGR	-21942.02124
RLA1	143.0861167	RLA2	180.0000015	LAP	36.91388416	LAY	-180.0000000	LAPP	.00000000 00
DPR	.00000000 00	DGR	.00000000 00	DAZR	-.19820102-04	DELR	-.0011301338		

9 FEB. 1968 22 HR 10 MIN 2.97 SEC TMST 587740.0000 J.D. 2439896.4236 6 DAY 19 HR 15.7 MIN

GEOCENTRIC

ALT	237087.0000	R	21148940.50	VI	23276.54003	X	-9481956.875	VX	20594.37109
90 LTDM	-26.51231503	RASC	239.9758663	FPVI	-1.579949378	Y	-16407269.00	VY	-5844.502807
LONM	128.3933105	DECL	-26.35892033	AZVI	116.8715686	Z	-9389978.750	VZ	-9138.434204
WT	9500.000000	ATLI	61.78827857	VA	22053.22924	AAAP	-.00000000 00	VIR	-641.7771606
DVV	36.18612384	AMIS	117.7579345	FPVA	-1.667613983	AAAY	-.00000000 00	VIT	23267.69091
RANG	393.1656570	RLAT	.00000000 00	AZVA	118.4951868	AAAT	.00000000 00	VAT	-22043.88891
LIFT	.3429334871								
DRG	5709.167358	Q	34.25511455	MACH	23.74300575	SS	928.8305511	ADEN	.14086757-06
UL	-2180254.781	DUL	19848.16503	PXG	10968014.50	VXG	-19960.93969	AXG	.3605822809
VL	1029497.242	DVL	-9422.095825	PYG	-779805.4375	VYG	-4315.202209	AYG	5.390866875
WL	99118.14843	DWL	1902.463684	PZG	-36972926.00	VZG	-11168.58142	AZG	35.78049850
RDR02	WOOMERA	RGR	2413836.250	AZR	-64.72372722	ELR	87.64275264	DRGR	-21874.12890
RLA1	142.8102989	RLA2	180.0000019	LAP	37.18970108	LAY	-180.0000000	LAPP	.00000000 00
DPR	.00000000 00	DGR	.00000000 00	DAZR	-.18739240-04	DELR	-.0011621896		

9 FEB. 1968 22 HR 10 MIN 6.97 SEC TMST 587744.0000 J.D. 2439896.4237 6 DAY 19 HR 15.7 MIN

GEOCENTRIC

ALT	234590.7500	R	21146333.25	VI	23198.58862	X	-9399609.000	VX	20578.23266
90 LTDM	-26.62632918	RASC	240.2267360	FPVI	-1.634836196	Y	-16430416.50	VY	-5729.024108
LONM	128.6274719	DECL	-26.47247457	AZVI	116.7539224	Z	-9426355.250	VZ	-9049.260742
WT	9500.000000	ATLI	61.53656911	VA	21975.33935	AAAP	-.00000000 00	VIR	-661.8425598
DVV	37.25133419	AMIS	117.6484384	FPVA	-1.725865364	AAAY	-.00000000 00	VIT	23189.14575

[redacted]

RANG	378.8419761	RLAT	.00000000 00	AZVA	118.3749465	AAAT	.00000000 00	VAT	-21965.37036
LIFT	.3800044842								
DRG	6326.326477	G	37.95808124	MACH	23.46207237	SS	936.6324920	ADEN	.15720381-06
UL	-2100978.718	DUL	19789.19580	PXG	10888178.75	VXG	-19955.62060	AXG	2.332679778
VL	991876.7187	DVL	-9387.577026	PYG	-797021.9375	VYG	-4292.731811	AYG	5.851880431
WL	106487.8789	DWL	1782.322570	PZG	-39017311.50	VZG	-11023.61779	AZG	36.71479225
RDR02	WOOMERA	RGR	2325790.031	AZR	-64.72789859	ELR	87.37244033	DRGR	-21798.16821
RLA1	142.5268058	RLA2	180.0000019	LAP	37.47319555	LAY	-180.0000000	LAPP	.00000000 00
DPR	.00000000 00	DGR	.00000000 00	DAZR	-.17535750-04	DELR	-.0011972507		

9 FEB. 1968 22 HR 10 MIN 10.97 SEC TMST 587748.0000 J.D. 2439896.4237 6 DAY 19 HR 15.8 MIN

GEOCENTRIC

ALT	232013.5000	R	21143645.25	VI	23111.93603	X	-9317342.375	VX	20553.58398
90 LTDM	-26.73948550	RASC	240.4772434	FPVI	-1.691310882	Y	-16453098.75	VY	-5611.829956
LONM	128.8612976	DECL	-26.58517646	AZVI	116.6353626	Z	-9462368.000	VZ	-8956.513427
WT	9500.000000	ATLI	61.28572511	VA	21888.75146	AAAP	-.00000000 00	VIR	-682.1414794
DVV	38.53720760	AMIS	117.5386924	FPVA	-1.785854339	AAAY	-.00000000 00	VIT	23101.86718
RANG	364.5689582	RLAT	.00000000 00	AZVA	118.2543745	AAAT	.00000000 00	VAT	-21878.11962
LIFT	.4214001633								
DRG	7015.482971	G	42.09303379	MACH	23.17177104	SS	944.6300506	ADEN	.17571071-06
UL	-2021947.656	DUL	19721.81347	PXG	10808380.62	VXG	-19941.98730	AXG	4.526705443
VL	954402.3125	DVL	-9349.089721	PYG	-814144.6875	VYG	-4268.322326	AYG	6.362444996
WL	113376.9687	DWL	1661.939029	PZG	-39061109.50	VZG	-10874.74731	AZG	37.73784017
RDR02	WOOMERA	RGR	2238758.781	AZR	-64.73169136	ELR	87.09369564	DRGR	-21713.20019
RLA1	142.2348766	RLA2	180.0000019	LAP	37.76512527	LAY	-180.0000000	LAPP	.00000000 00
DPR	.00000000 00	DGR	.00000000 00	DAZR	-.16167798-04	DELR	-.0012356925		

9 FEB. 1968 22 HR 10 MIN 14.97 SEC TMST 587752.0000 J.D. 2439896.4238 6 DAY 19 HR 15.9 MIN

GEOCENTRIC

ALT	229354.2500	R	21140876.00	VI	23015.53295	X	-9235193.000	VX	20519.44726

[redacted]

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90	LTDM	-26.85173749	RASC	240.7272968	FPVI	-1.749548912	Y	-16475309.00	VY	-5492.777099
	LONM	129.0946044	DECL	-26.69658071	AZVI	116.5158720	Z	-9498002.125	VZ	-8859.821289
	WT	9500.000000	ATLI	61.03584814	VA	21792.41699	AAAP	-.00000000 00	VIR	-702.6792297
	DVV	40.08069229	AMIS	117.4287500	FPVA	-1.847776412	AAAY	-.00000000 00	VIT	23004.80395
	RANG	350.3575286	RLAT	.00000000 00	AZVA	118.1335201	AAAT	.00000000 00	VAT	-21781.08520
	LIFT	.4675907269								
	DRG	7784.464965	Q	46.70694065	MACH	22.87147474	SS	952.8208007	ADEN	.19669831-06
	UL	-1943211.343	DUL	19645.06591	PXG	10728655.25	VXG	-19919.08081	AXG	6.967462718
	VL	917090.2109	DVL	-9306.182617	PYG	-831165.5625	VYG	-4241.759826	AYG	6.927783370
	WL	119783.7421	DWL	1541.357971	PZG	-39104304.00	VZG	-10721.58740	AZG	38.85771656
	RDRO2	WOOMERA	RGR	2152093.187	AZR	-64.73523330	ELR	86.80573081	DRGR	-21618.15600
	RLA1	141.9337081	RLA2	180.0000019	LAP	38.06629228	LAY	-180.0000000	LAPP	.00000000 00
	DPR	.00000000 00	DGR	.00000000 00	DAZR	-.14637182-04	DELR	-.0012779324		

9 FEB. 1968 22 HR 10 MIN 18.97 SEC TMST 587756.0000 J.D. 2439896.4238 6 DAY 19 HR 15.9 MIN

	GEOCENTRIC									
	ALT	226611.2500	R	21138023.50	VI	22908.24023	X	-9153200.875	VX	20474.75927
90	LTDM	-26.96303582	RASC	240.9767723	FPVI	-1.809746742	Y	-16497038.62	VY	-5371.717956
	LONM	129.3273620	DECL	-26.90783677	AZVI	116.3953924	Z	-9533240.875	VZ	-8758.786376
	WT	9500.000000	ATLI	60.78704881	VA	21685.19604	AAAP	-.00000000 00	VIR	-723.4606933
	DVV	41.92905855	AMIS	117.3186693	FPVA	-1.911852836	AAAY	-.00000000 00	VIT	22896.81372
	RANG	336.2090682	RLAT	.00000000 00	AZVA	118.0124406	AAAT	.00000000 00	VAT	-21673.12451
	LIFT	.5192815885								
	DRG	8645.015991	Q	51.87026309	MACH	22.56044387	SS	961.2043075	ADEN	.22060825-06
2"	UL	-1864803.156	DUL	19557.91455	PXG	10649041.75	VXG	-19885.85522	AXG	9.691576838
	VL	879959.2656	DVL	-9258.377441	PYG	-848075.6250	VYG	-4212.812927	AYG	7.555850863
	WL	125707.5937	DWL	1420.616729	PZG	-39146876.50	VZG	-10563.73132	AZG	40.08775854
	RDRO2	WOOMERA	RGR	2065830.406	AZR	-64.73841285	ELR	86.50761032	DRGR	-21511.87304
	RLA1	141.6223888	RLA2	180.0000019	LAP	38.37761306	LAY	-180.0000000	LAPP	.00000000 00
1"	DPR	.00000000 00	DGR	.00000000 00	DAZR	-.12908139-04	DELR	-.0013244619		

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9 FEB. 1968 22 HR 10 MIN 22.97 SEC TMST 587760.0000 J.D. 2439896.4239 6 DAY 19 HR 16.0 MIN

GEOCENTRIC

	ALT	223784.2500	R	21135087.75	VI	22788.80175	X	-9071410.500	VX	20418.34472
90	LTDM	-27.07332372	RASC	241.2255496	FPVI	-1.872130394	Y	-16518279.50	VY	-5248.496582
	LONM	129.5594482	DECL	-26.91768884	AZVI	116.2738723	Z	-9568066.000	VZ	-8652.974365
	WT	9500.000000	ATLI	60.53945207	VA	21565.83227	AAAP	-.00000000 00	VIR	-744.4882812
	DVV	44.11562061	AMIS	117.2085142	FPVA	-1.978337287	AAAY	-.00000000 00	VIT	22776.63769
	RANG	322.1320915	RLAT	.00000000 00	AZVA	117.8912019	AAAT	.00000000 00	VAT	-21552.97778
	LIFT	.5767572894								
	DRG	9601.873291	G	57.61142539	MACH	22.23796939	SS	969.7752456	ADEN	.24774573-06
	UL	-1786758.656	DUL	19459.21313	PXG	10569583.75	VXG	-19841.15502	AXG	12.71527588
	VL	843030.5468	DVL	-9205.147338	PYG	-864864.6250	VYG	-4181.227172	AYG	8.249529719
	WL	131148.6601	DWL	1299.764465	PZG	-39188807.00	VZG	-10400.73876	AZG	41.43012142
	RDRO2	WOOMERA	RGR	1980010.656	AZR	-64.74106788	ELR	86.19825744	DRGR	-21393.06665
	RLA1	141.2998234	RLA2	180.0000019	LAP	38.70017242	LAY	-180.0000000	LAPP	.00000000 00
	DPR	.00000000 00	DGR	.00000000 00	DAZR	-.10930843-04	DELR	-.0013758561		

9 FEB. 1968 22 HR 10 MIN 26.97 SEC TMST 587764.0000 J.D. 2439896.4239 6 DAY 19 HR 16.1 MIN

GEOCENTRIC

	ALT	220871.7500	R	21132067.25	VI	22655.82543	X	-8989871.375	VX	20348.89746
90	LTDM	-27.18254017	RASC	241.4734783	FPVI	-1.936948776	Y	-16539023.37	VY	-5122.947509
	LONM	129.7906494	DECL	-27.02647590	AZVI	116.1513004	Z	-9602457.625	VZ	-8541.908935
	WT	9500.000000	ATLI	60.29319620	VA	21432.93359	AAAP	-.00000000 00	VIR	-765.7606506
	DVV	46.68518686	AMIS	117.0983600	FPVA	-2.047510147	AAAY	-.00000000 00	VIT	22642.88037
	RANG	308.1370124	RLAT	.00000000 00	AZVA	117.7698707	AAAT	.00000000 00	VAT	-21419.24951
	LIFT	.6406317428								
	DRG	10665.25720	G	63.99174976	MACH	21.90315341	SS	978.5318603	ADEN	.27860618-06
	UL	-1709155.593	DUL	19347.70092	PXG	10490329.50	VXG	-19783.69580	AXG	16.07122683
	VL	806325.6562	DVL	-9145.890258	PYG	-881521.5000	VYG	-4146.721618	AYG	9.015549421
	WL	136104.7929	DWL	1178.898651	PZG	-39230074.50	VZG	-10232.13037	AZG	42.89454698

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RDRO2	WOOMERA	RGR	1894712.375	AZR	-64.74353981	ELR	85.87659072	DRGR	-21260.31640
RLA1	140.9649085	RLA2	180.0000015	LAP	39.03509187	LAY	-180.0000000	LAPP	.00000000 00
DPR	.00000000 00	DGR	.00000000 00	DAZR	-.87365638-05	DELR	-.0014327490		

9 FEB. 1968 22 HR 10 MIN 30.97 SEC TMST 587768.0000 J.D. 2439896.4240 6 DAY 19 HR 16.1 MIN

GEOCENTRIC

	ALT	217873.0000	R	21128961.50	VI	22507.80175	X	-8908638.625	VX	20264.99731
90	LTDM	-27.29061698	RASC	241.7203998	FPVI	-2.004487991	Y	-16559259.87	VY	-4994.901855
	LONM	130.0208435	DECL	-27.13413000	AZVI	116.0275945	Z	-9636393.625	VZ	-8425.080444
	WT	9500.000000	ATLI	60.04843759	VA	21284.98999	AAAP	-.00000000 00	VIR	-787.2733154
	DVV	49.68663930	AMIS	116.9882888	FPVA	-2.119695663	AAAY	-.00000000 00	VIT	22494.02880
	RANG	294.2319755	RLAT	.00000000 00	AZVA	117.6485300	AAAT	.00000000 00	VAT	-21270.42529
	LIFT	.7116188332								
	DRG	11847.05236	C	71.08254337	MACH	21.55507946	SS	987.4697952	ADEN	.31379502-06
	UL	-1632012.281	DUL	19221.99536	PXG	10411333.00	VXG	-19712.07861	AXG	19.79738831
	VL	769871.6250	DVL	-9079.988037	PYG	-898034.0625	VYG	-4108.992797	AYG	9.861734151
	WL	140578.8085	DWL	1058.076782	PZG	-39270656.00	VZG	-1057.39819	AZG	44.49237823
	RDRO2	WOOMERA	RGR	1809963.156	AZR	-64.74526977	ELR	85.54111385	DRGR	-21112.07153
	RLA1	140.6162147	RLA2	180.0000019	LAP	39.38378667	LAY	-180.0000000	LAPP	.00000000 00
	DPR	.00000000 00	DGR	.00000000 00	DAZR	-.61983662-05	DELR	-.0014959430		

9 FEB. 1968 22 HR 10 MIN 34.97 SEC TMST 587772.0000 J.D. 2439896.4240 6 DAY 19 HR 16.2 MIN

GEOCENTRIC

	ALT	214786.7500	R	21125769.00	VI	22343.10449	X	-8827772.750	VX	20165.10961
90	LTDM	-27.39747929	RASC	241.9661331	FPVI	-2.075064659	Y	-16578979.00	VY	-4864.189636
	LONM	130.2498779	DECL	-27.24057698	AZVI	115.9027204	Z	-9669849.875	VZ	-8301.947631
	WT	9500.000000	ATLI	59.80534505	VA	21120.37548	AAAP	-.00000000 00	VIR	-809.0176391
	DVV	53.15511798	AMIS	116.8783903	FPVA	-2.195255279	AAAY	-.00000000 00	VIT	22328.45288
	RANG	280.4259109	RLAT	.00000000 00	AZVA	117.5272693	AAAT	.00000000 00	VAT	-21104.87500
	LIFT	.7901399061								
	DRG	13154.27368	C	78.92589664	MACH	21.19272971	SS	996.5858840	ADEN	.35387204-06

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UL	-1555395.343	DUL	19080.61645	PXG	10332653.75	VXG	-19624.79150	AXG	23.91752457
VL	733695.7031	DVL	-9006.752319	PYG	-914388.6250	VYG	-4067.715148	AYG	10.79236578
WL	144569.9335	DWL	937.4170227	PZG	-39310525.00	VZG	-9876.008911	AZG	46.22708463
RDRO2	WCOMERA	RGR	1725834.109	AZR	-64.746273004	ELR	85.19032859	DRGR	-20946.66479
RLA1	140.2521877	RLA2	180.0000019	LAP	39.74781370	LAY	-180.0000000	LAPP	.00000000 00
DPR	.00000000 00	DGR	.00000000 00	DAZR	-.32777244-05	DELR	-.0015663327		

9 FEB. 1968 22 HR 10 MIN 38.97 SEC TMST 587776.0000 J.D. 2439896.4240 6 DAY 19 HR 16.3 MIN

GEOCENTRIC

ALT	211612.0000	R	21122489.00	VI	22159.97387	X	-8747341.250	VX	20047.56835
90 LTDM	-27.50304627	RASC	242.2104816	FPVI	-2.149040222	Y	-16598169.87	VY	-4730.639404
LONM	130.4775085	DECL	-27.34573554	AZVI	115.7765722	Z	-9702800.000	VZ	-8171.933288
WT	9500.000000	ATLI	59.56411314	VA	20937.33007	AAAP	-.00000000 00	VIR	-830.9784240
DVV	57.12633752	AMIS	116.7687692	FPVA	-2.274599075	AAAY	-.00000000 00	VIT	22144.38793
RANG	266.7324066	RLAT	.00000000 00	AZVA	117.4061870	AAAT	.00000000 00	VAT	-20920.83325
LIFT	.8766959309								
DRG	14595.26110	Q	87.57184982	MACH	20.81502246	SS	1005.875923	ADEN	.39953232-06
UL	-1479385.343	DUL	18921.96533	PXG	10254357.75	VXG	-19520.19165	AXG	28.45959615
VL	697828.6093	DVL	-8925.436157	PYG	-930570.5000	VYG	-4022.538146	AYG	11.81258702
WL	148078.9023	DWL	817.0673522	PZG	-39349654.50	VZG	-9687.400146	AZG	48.10335254
RDRO2	WCOMERA	RGR	1642410.718	AZR	-64.74666690	ELR	84.82250881	DRGR	-20762.28666
RLA1	139.8711357	RLA2	180.0000019	LAP	40.12886619	LAY	-180.0000000	LAPP	.00000000 00
DPR	.00000000 00	DGR	.00000000 00	DAZR	.48462636-07	DELR	-.0016449639		

9 FEB. 1968 22 HR 10 MIN 42.97 SEC TMST 587780.0000 J.D. 2439896.4241 6 DAY 19 HR 16.3 MIN

GEOCENTRIC

ALT	208348.2500	R	21119121.00	VI	21956.53369	X	-8667418.125	VX	19910.59155
90 LTDM	-27.60722780	RASC	242.4532241	FPVI	-2.226817131	Y	-16616820.25	VY	-4594.084533
LONM	130.7035522	DECL	-27.44951581	AZVI	115.6490859	Z	-9735215.375	VZ	-8034.432495
WT	9500.000000	ATLI	59.32495069	VA	20733.97680	AAAP	-.00000000 00	VIR	-853.1328430
DVV	61.63352870	AMIS	116.6595363	FPVA	-2.358190536	AAAY	-.00000000 00	VIT	21939.95288

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RANG	253.1622276	RLAT	.00000000 00	AZVA	117.2853927	AAAT	.00000000 00	VAT	-20716.41748
LIFT	.9717917591								
DRG	16178.41943	Q	97.07082939	MACH	20.42084479	SS	1015.333938	ADEN	.45159958-06
UL	-1404040.140	DUL	18744.33056	PXG	10176517.62	VXG	-19396.52050	AXG	33.45202493
VL	662304.2421	DVL	-8835.259521	PYG	-946563.3125	VYG	-3973.089630	AYG	12.92749977
WL	151107.5136	DWL	697.1788330	PZG	-39388014.00	VZG	-9490.990844	AZG	50.12517881
RDR02	WOOMERA	RGR	1559759.500	AZR	-64.74612903	ELR	84.43557739	DRGR	-20557.00219
RLA1	139.4709510	RLA2	180.0000015	LAP	40.52904987	LAY	-180.0000000	LAPP	.00000000 00
DPR	.00000000 00	DGR	.00000000 00	DAZR	.38967099-05	DELR	-.0017331033		

9 FEB. 1968 22 HR 10 MIN 46.97 SEC TMST 587784.0000 J.D. 2439896.4241 6 DAY 19 HR 16.4 MIN

GEOCENTRIC

ALT	204993.7500	R	21115663.75	VI	21730.81420	X	-8588085.000	VX	19752.30004
90 LTDM	-27.70992541	RASC	242.6941146	FPVI	-2.308848381	Y	-16634918.25	VY	-4454.369262
LONM	130.9277343	DECL	-27.55182051	AZVI	115.5201406	Z	-9767064.625	VZ	-7888.822875
WT	9500.000000	ATLI	59.08808708	VA	20508.34594	AAAP	-.00000000 00	VIR	-875.4506835
DVV	66.70563983	AMIS	116.5508165	FPVA	-2.446557045	AAAY	-.00000000 00	VIT	21713.17260
RANG	239.7307090	RLAT	.00000000 00	AZVA	117.1650094	AAAT	.00000000 00	VAT	-20489.65185
LIFT	1.075896129								
DRG	17911.55224	Q	107.4696607	MACH	20.00897717	SS	1024.957229	ADEN	.51103966-06
UL	-1329453.390	DUL	18545.92065	PXG	10099213.50	VXG	-19251.92138	AXG	38.92169713
VL	627159.6484	DVL	-8735.390136	PYG	-962349.0000	VYG	-3918.981506	AYG	14.14168882
WL	153657.5214	DWL	577.9586791	PZG	-39425571.00	VZG	-9286.193237	AZG	52.29489898
RDR02	WOOMERA	RGR	1477980.890	AZR	-64.74475574	ELR	84.02725124	DRGR	-20328.77124
2" RLA1	139.0493583	RLA2	180.0000015	LAP	40.95064258	LAY	-180.0000000	LAPP	.00000000 00
DPR	.00000000 00	DGR	.00000000 00	DAZR	.83115046-05	DELR	-.0018322142		

9 FEB. 1968 22 HR 10 MIN 50.97 SEC TMST 587788.0000 J.D. 2439896.4242 6 DAY 19 HR 16.5 MIN

GEOCENTRIC

1" ALT	201548.7500	R	21112117.00	VI	21480.77929	X	-8509430.750	VX	19570.74243

[redacted]

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90	LTDM	-27.81103444	RASC	242.932888C	FPVI	-2.395646095	Y	-16652450.62	VY	-4311.356689
	LONM	131.1497802	DECL	-27.65254426	AZVI	115.3896331	Z	-9798314.250	VZ	-7734.476928
	WT	9500.000000	ATLI	58.8537774C	VA	20258.40112	AAAP	-.00000000 00	VIR	-897.8913879
	DVV	72.36070728	AMIS	116.4427471	FPVA	-2.540289878	AAAY	-.00000000 00	VIT	21462.00512
	RANG	226.4531326	RLAT	.00000000 00	AZVA	117.0451698	AAAT	.00000000 00	VAT	-20238.49316
	LIFT	1.189308166								
	DRG	19799.6394C	C	118.798220E	MACH	19.57830762	SS	1034.737091	ADEN	.57893473-06
	UL	-1255712.015	DUL	18324.8820E	PXG	10022532.62	VXG	-19084.46386	AXG	44.88722419
	VL	592434.9296	DVL	-8624.977172	PYG	-977908.3750	VYG	-3859.815246	AYG	15.45766305
	WL	155731.8046	DWL	459.6369934	PZG	-39462291.50	VZG	-9072.427490	AZG	54.61015987
	RDR02	WOOMERA	RGR	1397170.734	AZR	-64.74243354	ELR	83.59483814	DRGR	-20075.47778
	RLA1	138.6036415	RLA2	180.0000019	LAP	41.39636135	LAY	-180.0000000	LAPP	.00000000 00
	DPR	.00000000 00	DGR	.00000000 00	DAZR	.13389927-04	DELR	-.0019440579		

9 FEB. 1968 22 HR 10 MIN 54.97 SEC TMST 587792.0000 J.D. 2439896.4242 6 DAY 19 HR 16.5 MIN

	GEOCENTRIC									
	ALT	198012.2500	R	21108480.50	VI	21204.34790	X	-8431552.625	VX	19363.91259
90	LTDM	-27.91043996	RASC	243.1692504	FPVI	-2.487780571	Y	-16669404.50	VY	-4164.934204
	LONM	131.3694458	DECL	-27.75157284	AZVI	115.2574262	Z	-9828928.000	VZ	-7570.771301
	WT	9500.000000	ATLI	58.62229919	VA	19982.06054	AAAP	-.00000000 00	VIR	-920.4031982
	DVV	78.59696197	AMIS	116.3354806	FPVA	-2.640061378	AAAY	-.00000000 00	VIT	21184.36279
	RANG	213.3452911	RLAT	.00000000 00	AZVA	116.9260225	AAAT	.00000000 00	VAT	-19960.85156
	LIFT	1.311990365								
	DRG	21842.05639	C	131.052761C	MACH	19.12766456	SS	1044.668075	ADEN	.65644090-06
	UL	-1182889.140	DUL	18079.3164C	PXG	9946570.750	VXG	-18892.16137	AXG	51.35042190
	VL	558174.7968	DVL	-8503.163696	PYG	-993220.3125	VYG	-3795.186920	AYG	16.87393307
	WL	157335.8125	DWL	342.4631042	PZG	-39498137.50	VZG	-8849.132690	AZG	57.06037902
	RDR02	WOOMERA	RGR	1317415.156	AZR	-64.73858547	ELR	83.13503932	DRGR	-19794.93725
	RLA1	138.1305484	RLA2	180.0000019	LAP	41.86045295	LAY	-180.0000000	LAPP	.00000000 00
	DPR	.00000000 00	DGR	.00000000 00	DAZR	.19359001-04	DELR	-.0020708008		

[redacted]

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PICH    .0681027891  PAT    104.9462080  XIX    .9163547307  ETX    .3926800266
YAW    .00000000 00  YAT   .85377365-06  XIY    .3808235675  ETY   -.7947005108
ROLL   .00000000 00  RAT   -179.9999961  XIZ   -.1235614121  ETZ    .4628752209

 3 FEB.   1968  6 HR  2 MIN 26.48 SEC TMST  11283.50585  J.D. 2439889.7517      DAY  3 HR  8.1 MIN
GEOCENTRIC
ALT     607308.5000  R      21520563.50  VI     25581.03295  X     -11354571.12  VX    -21710.90039
LTDM    25.04292273  RASC   125.5677862  FPVI  .40245056-03  Y      15878749.25  VY    -12254.15380
LONM   -97.53676223  DECL   24.89567041  AZVI   104.3031682  Z      9059453.000  VZ    -5732.518127

A       21530178.25  ASND   4.366905212  VVEN  -653805040.0  APOG   103.8514299  VAPG   25556.93603
ECC    .49585196-03  ARGP   117.1300601  ARGL   118.0279188  PERG   100.3373832  VPER   25582.29394
INCL    28.48303556  MA     .8969630077  TA     .8978580013  PERD   88.17634677  EARTH    ELLIPSE

WT      284657.8984  ATLI   90.00000000  VA     24204.23461  AAAP   .0066126154  VIR    .1788330078
DVV     30.41577243  AMIS   103.9565944  FPVA  .42533875-03  AAAY  -1.178978562  VIT    25581.03271
RANG    931.9169921  RLAT   .3419949002  AZVA   105.1356735  AAAT   1.178997099  VAT   -24204.23437

PICH    .0681062639  PAT    117.1713151  XIX    .8124235272  ETX    .5778162330
YAW    .00000000 00  YAT   .85377365-06  XIY    .5404679924  ETY   -.6960386783
ROLL   .00000000 00  RAT    179.9999961  XIZ   -.2187746893  ETZ    .4262141809

                     SECONDARY   PHASE CUTOFF  ----  PHASE TIME LAPSE      10579.99987

VENTING 10

 3 FEB.   1968  6 HR  2 MIN 26.48 SEC TMST  11283.50585  J.D. 2439889.7517      DAY  3 HR  8.1 MIN
GEOCENTRIC
ALT     607308.5000  R      21520563.50  VI     25581.03295  X     -11354571.12  VX    -21710.90039
LTDM    25.04292273  RASC   125.5677862  FPVI  .40245056-03  Y      15878749.25  VY    -12254.15380
LONM   -97.53676223  DECL   24.89567041  AZVI   104.3031682  Z      9059453.000  VZ    -5732.518127

A       21530178.25  ASND   4.366905212  VVEN  -653805040.0  APOG   103.8514299  VAPG   25556.93603
ECC    .49585196-03  ARGP   117.1300601  ARGL   118.0279188  PERG   100.3373832  VPER   25582.29394
INCL    28.48303556  MA     .8969630077  TA     .8978580013  PERD   88.17634677  EARTH    ELLIPSE

WT      284607.4960  ATLI   90.00000000  VA     24204.23461  AAAP   .0066126154  VIR    .1788330078
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DVV	30.41577243	AMIS	103.9565944	FPVA	.42533875-03	AAAY	-1.178978711	VIT	25581.03271
RANG	931.9169921	RLAT	.3419952355	AZVA	105.1356735	AAAT	1.178997248	VAT	-24204.23437
PICH	.0681062639	PAT	117.1713151	XIX	.8124235272	ETX	.5778162330		
YAW	.00000000 00	YAT	.64033024-06	XIY	.5404679924	ETY	-.6960386783		
ROLL	.00000000 00	RAT	179.9999961	XIZ	-.2187746893	ETZ	.4262141846		

3 FEB. 1968 6 HR 4 MIN 30.98 SEC TMST 11408.00000 J.D. 2439889.7531 DAY 3 HR 10.1 MIN

GEOCENTRIC

ALT	605132.2500	R	21520519.00	VI	25582.27734	X	-13923522.62	VX	-19483.91870
LTDM	22.67561006	RASC	134.4665641	FPVI	-.0020532608	Y	14185226.75	VY	-14902.75134
LONM	-89.15812683	DECL	22.53905606	AZVI	107.8985385	Z	8249097.312	VZ	-7262.081787
A	21532186.00	ASND	4.350528717	VVEN	-653744072.0	APOG	104.4306240	VAPG	25553.95190
ECC	.56601675-03	ARGP	130.3097953	ARGL	126.5213441	PERG	100.4190139	VPER	25582.89599
INCL	28.48795580	MA	356.2158050	TA	356.2115478	PERD	88.18868064	EARTH	ELLIPSE
WT	284585.3125	ATLI	89.99999046	VA	24207.09033	AAAP	.0114086231	VIR	-.9174499512
DVV	30.42015314	AMIS	107.5969734	FPVA	-.0021696090	AAAY	-1.355808779	VIT	25582.27709
RANG	583.4984970	RLAT	.3900515400	AZVA	108.9529542	AAAT	1.355856776	VAT	-24207.09008
UL	-2950956.031	DUL	22193.70068	PXG	12542680.75	VXG	20786.50830	AXG	-17.72157597
VL	-2117339.218	DVL	-9430.258422	PYG	-87557.50000	VYG	-134.6375732	AYG	.1754977703
WL	296064.9218	DWL	2119.695312	PZG	-3422870.000	VZG	-14911.60131	AZG	-24.72449445
RDR01	CAPE RADAR	RGR	3644036.343	AZR	-125.6597995	ELR	85.33766365	DRGR	-12320.87744
RLA1	121.8919067	RLA2	73.27293968	LAP	-24.82225871	LAY	-123.0134706	LAPP	.00000000 00
DPR	.00000000 00	DGR	.00000000 00	DAZR	-.0056719245	DELR	-.85936002-03		
PICH	.0681103142	PAT	125.6503753	XIX	.7183457538	ETX	.6912907809		
YAW	.00000000 00	YAT	.64033024-06	XIY	.6371900588	ETY	-.6087399348		
ROLL	.00000000 00	RAT	179.9999961	XIZ	-.2792278528	ETZ	.3892976977		

3 FEB. 1968 6 HR 9 MIN 34.97 SEC TMST 11712.00000 J.D. 2439889.7567 DAY 3 HR 15.2 MIN

GEOCENTRIC

ALT	598712.2500	R	21519754.25	VI	25586.35253	X	-18819140.00	VX	-12371.87402

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50  LTDM    15.05524134  RASC   154.8477001  FPVI  -.0095252991  Y      8836485.000  VY    -19903.07324
    LONM   -70.04712677  DECL   14.95900142  AZVI   114.5449714  Z      5554847.000  VZ    -10269.65698

    A       21537524.25  ASND   4.324298858  VVEN  -653582048.0  APOG   106.3476381  VAPG   25543.30395
    ECC    .85884078-03  ARGP   158.6556930  ARGL   147.2516155  PERG   100.2591257  VPER   25587.21679
    INCL    28.50101542  MA     348.6153564  TA     348.5959205  PERD   88.22147750  EARTH     ELLIPSE

    WT      284531.1484  ATLI   89.99996852  VA     24215.47729  AAAP   .0237904207  VIR   -4.254364013
    DVV     30.43362760  AMIS   114.3830537  FPVA  -.0100650787  AAAY  -1.651838153  VIT    25586.35205
    RANG    1001.763069  RLAT   .4749423303  AZVA   116.0352602  AAAT   1.652009442  VAT   -24215.47680

    PICH    .0681249555  PAT    146.3579959  XIX    .4274985827  ETX    .9006378427
    YAW    .00000000 00  YAT   .64033024-06  XIY    .8112756610  ETY   -.3441036157
    ROLL   .00000000 00  RAT    179.9999980  XIZ   -.3988442719  ETZ    .2654131502

     3 FEB.   1968  6 HR 14 MIN 22.97 SEC TMST  12000.00000  J.D. 2439889.7600      DAY  3 HR 20.0 MIN
    GEOCENTRIC
    ALT     593099.2500  R      21518010.00  VI     25590.59960  X     -21219945.25  VX    -4136.151306
50  LTDM    6.261148333  RASC   172.7418289  FPVI  -.0176124573  Y      2702592.187  VY    -22276.41308
    LONM   -53.35628890  DECL   6.219569325  AZVI   117.8790206  Z      2331237.593  VZ    -11896.74157

    A       21541192.75  ASND   4.315841674  VVEN  -653470744.0  APOG   107.9321212  VAPG   25534.06787
    ECC     .0011353195  ARGP   182.8412094  ARGL   166.8808212  PERG   99.88215827  VPER   25592.11279
    INCL    28.50997066  MA     344.0753593  TA     344.0396118  PERD   88.24401950  EARTH     ELLIPSE

    WT      284479.8359  ATLI   89.99995803  VA     24222.74682  AAAP   .0338370814  VIR   -7.867126464
    DVV     30.44634032  AMIS   117.8763618  FPVA  -.0186071396  AAAY  -1.727754116  VIT    25590.59838
    RANG    2045.505950  RLAT   .5036312863  AZVA   119.6046094  AAAT   1.728085413  VAT   -24222.74536

    PICH    .0681424383  PAT    165.9804649  XIX    .1002188576  ETX    .9918970465
    YAW    .00000000 00  YAT   .64033024-06  XIY    .8797187134  ETY   -.0516766873
    ROLL   .00000000 00  RAT    179.9999961  XIZ   -.4648130275  ETZ    .1160592250

     3 FEB.   1968  6 HR 19 MIN 26.98 SEC TMST  12304.00000  J.D. 2439889.7635      DAY  3 HR 25.1 MIN
    GEOCENTRIC
    ALT     589631.2500  R      21515088.50  VI     25594.39501  X     -21077583.00  VX     5063.235778
50  LTDM   -3.643306821  RASC   191.0013542  FPVI  -.0249910354  Y     -4097584.625  VY    -21972.89697
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LONM	-36.36689376	DECL	-3.618985623	AZVI	118.2998132	Z	-1358058.734	VZ	-12109.02526
A	21541740.25	ASND	4.315105438	VVEN	-653454128.0	APOG	108.6983995	VAPG	25528.87500
ECC	.0013260230	ARGP	207.0452270	ARGL	187.5989170	PERG	99.29609298	VPER	25596.66821
INCL	28.51128602	MA	340.6042404	TA	340.5536880	PERD	88.24738407	EARTH	ELLIPSE
WT	284425.6757	ATLI	89.99996757	VA	24227.13671	AAAP	.0394735979	VIR	-11.16430664
DVV	30.45577907	AMIS	118.4742374	FPVA	-.0264015198	AAAY	-1.580902382	VIT	25594.39257
RANG	3198.265533	RLAT	.4725281559	AZVA	120.0556116	AAAT	1.581395104	VAT	-24227.13403
PICH	.0681611998	PAT	-173.3013439	XIX	-.2571672611	ETX	.9632074386		
YAW	.00000000 00	YAT	.64033024-06	XIY	.8411106318	ETY	.2628847658		
ROLL	.00000000 00	RAT	179.9999961	XIZ	-.4758128784	ETZ	-.0558838285		

3 FEB. 1968 6 HR 20 MIN 4.48 SEC TMST 12341.50585 J.D. 2439889.7639 DAY 3 HR 25.7 MIN

GEOCENTRIC

ALT	589425.0000	R	21514663.75	VI	25594.77954	X	-20866762.50	VX	6176.877014
LTDM	-4.860203027	RASC	193.2600841	FPVI	-.0256843567	Y	-4917347.250	VY	-21733.54638
LONM	-34.26486587	DECL	-4.827825784	AZVI	118.1329345	Z	-1810712.453	VZ	-12024.63732
A	21541537.50	ASND	4.314941406	VVEN	-653460280.0	APOG	108.7046537	VAPG	25528.70947
ECC	.0013372132	ARGP	209.9479827	ARGL	190.1554832	PERG	99.22310256	VPER	25597.07519
INCL	28.51078987	MA	340.2593307	TA	340.2074966	PERD	88.24613952	EARTH	ELLIPSE
WT	284418.9921	ATLI	90.00000000	VA	24227.38354	AAAP	.0396738872	VIR	-11.47460174
DVV	30.45655465	AMIS	118.3287639	FPVA	-.0271348953	AAAY	-1.547230944	VIT	25594.77685
RANG	3341.469146	RLAT	.4642673582	AZVA	119.8764524	AAAT	1.547739520	VAT	-24227.38061
PICH	.0681615434	PAT	-170.7448177	XIX	-.2998751625	ETX	.9507778212		
YAW	.00000000 00	YAT	.64033024-06	XIY	.8285475075	ETY	.3001408502		
ROLL	.00000000 00	RAT	179.9999961	XIZ	-.4728466049	ETZ	-.0770518360		

SECONDARY PHASE CUTOFF ---- PHASE TIME LAPSE 11637.99987

VENTING 11

3 FEB. 1968 6 HR 20 MIN 4.48 SEC TMST 12341.50585 J.D. 2439889.7639 DAY 3 HR 25.7 MIN

GEOCENTRIC

	ALT	589425.0000	R	21514663.75	VI	25594.77954	X	-20866762.50	VX	6176.877014
51	LTDM	-4.860203027	RASC	193.2600841	FPVI	-.0256843567	Y	-4917347.250	VY	-21733.54638
	LONM	-34.26486587	DECL	-4.827825784	AZVI	118.1329345	Z	-1810712.453	VZ	-12024.63732
	A	21541537.50	ASND	4.314941406	VVEN	-653460280.0	APOG	108.7046537	VAPG	25528.70947
	ECC	.0013372132	ARGP	209.9479827	ARGL	190.1554832	PERG	99.22310256	VPER	25597.07519
	INCL	28.51078987	MA	340.2593307	TA	340.2074966	PERD	88.24613952	EARTH	ELLIPSE
	WT	284368.5898	ATLI	90.00000000	VA	24227.38354	AAAP	.0396738509	VIR	-11.47460174
	DVV	30.45655465	AMIS	118.3287639	FPVA	-.0271348953	AAAY	-1.547230944	VIT	25594.77685
	RANG	3341.469146	RLAT	.4642673172	AZVA	119.8764524	AAAT	1.547739520	VAT	-24227.38061
	PICH	.0681615434	PAT	-170.7448177	XIX	-.2998751625	ETX	.9507778212		
	YAW	.00000000 00	YAT	.64033024-06	XIY	.8285475075	ETY	.3001408502		
	ROLL	.00000000 00	RAT	179.9999961	XIZ	-.4728466049	ETZ	-.0770518370		

3 FEB. 1968 6 HR 24 MIN 30.98 SEC TMST 12608.00000 J.D. 2439889.7670 DAY 3 HR 30.1 MIN

GEOCENTRIC

	ALT	589273.7500	R	21511397.75	VI	25596.93408	X	-18207896.75	VX	13610.20007
51	LTDM	-13.17280030	RASC	209.6570320	FPVI	-.0285120010	Y	-10367512.25	VY	-18825.82446
	LONM	-18.98135375	DECL	-13.08767378	AZVI	115.5482826	Z	-4871079.062	VZ	-10749.59655
	A	21538624.50	ASND	4.309310913	VVEN	-653548656.0	APOG	108.3223781	VAPG	25529.73095
	ECC	.0013647876	ARGP	229.8446731	ARGL	208.3272590	PERG	98.64658260	VPER	25599.51196
	INCL	28.50365304	MA	338.5398941	TA	338.4825820	PERD	88.22823810	EARTH	ELLIPSE
	WT	284321.1054	ATLI	89.99999427	VA	24227.40063	AAAP	.0382005316	VIR	-12.73831176
	DVV	30.45963764	AMIS	115.8866596	FPVA	-.0301237106	AAAY	-1.219823733	VIT	25596.93066
	RANG	4361.275329	RLAT	.3790472597	AZVA	117.1068019	AAAT	1.220421731	VAT	-24227.39697
	PICH	.0681779850	PAT	-152.5776977	XIX	-.5813695043	ETX	.8098846003		
	YAW	.00000000 00	YAT	.64033024-06	XIY	.6936644912	ETY	.5435117781		
	ROLL	.00000000 00	RAT	179.9999961	XIZ	-.4252517558	ETZ	-.2206396125		

3 FEB. 1968 6 HR 26 MIN 54.30 SEC TMST 12751.32373 J.D. 2439889.7687 DAY 3 HR 32.5 MIN

GEOCENTRIC

	ALT	589945.5000	R	21509573.75	VI	25597.71215	X	-16002552.25	VX	17089.46044
51	LTDM	-17.23287034	RASC	218.8779220	FPVI	-.0282297134	Y	-12902254.25	VY	-16459.25122
	LONM	-10.35927963	DECL	-17.12429118	AZVI	113.1320276	Z	-6333397.750	VZ	-9606.573974
	A	21536279.75	ASND	4.301368713	VVEN	-653619800.0	APOG	107.8381872	VAPG	25531.82519
	ECC	.0013372132	ARGP	239.8046188	ARGL	218.1062889	PERG	98.35894012	VPER	25600.19946
	INCL	28.49791312	MA	338.3583374	TA	338.3016662	PERD	88.21383094	EARTH	ELLIPSE
	WT	284295.5703	ATLI	90.00000000	VA	24226.41577	AAAP	.0352686979	VIR	-12.61267089
	DVV	30.45983672	AMIS	113.5366859	FPVA	-.0298271179	AAAY	-.9879397005	VIT	25597.70898
	RANG	4910.374694	RLAT	.3155551664	AZVA	114.5248537	AAAT	.9885690212	VAT	-24226.41235
	PICH	.0681854822	PAT	-142.8056659	XIX	-.7103948071	ETX	.6994589194		
	YAW	.00000000 00	YAT	.64033024-06	XIY	.5913506001	ETY	.6533605084		
	ROLL	.00000000 00	RAT	179.9999961	XIZ	-.3816328980	ETZ	-.2896156497		

PRIMARY PHASE CUTOFF ---- PHASE TIME LAPSE 12047.81774

S-IVB 2ND BURN STAGE

3 FEB. 1968 6 HR 26 MIN 54.30 SEC TMST 12751.32373 J.D. 2439889.7687 DAY 3 HR 32.5 MIN

GEOCENTRIC

	ALT	589945.5000	R	21509573.75	VI	25597.71215	X	-16002552.25	VX	17089.46044
60	LTDM	-17.23287034	RASC	218.8779220	FPVI	-.0282297134	Y	-12902254.25	VY	-16459.25122
	LONM	-10.35927963	DECL	-17.12429118	AZVI	113.1320276	Z	-6333397.750	VZ	-9606.573974
	A	21536279.75	ASND	4.301368713	VVEN	-653619800.0	APOG	107.8381872	VAPG	25531.82519
	ECC	.0013372132	ARGP	239.8046188	ARGL	218.1062889	PERG	98.35894012	VPER	25600.19946
	INCL	28.49791312	MA	338.3583374	TA	338.3016662	PERD	88.21383094	EARTH	ELLIPSE
	WT	283939.5703	ATLI	93.57025814	VA	24226.41577	AAAP	-3.532270312	VIR	-12.61267089
	DVV	39.07544660	AMIS	113.5563735	FPVA	-.0298271179	AAAY	-.9879398420	VIT	25597.70898
	RANG	4910.374694	RLAT	.3161691315	AZVA	114.5248537	AAAT	3.667827516	VAT	-24226.41235
	F	200000.0000	DWT	-469.4835586			VISN	29904.25000	DVI	22.66256833
	PICH	.0483085713	PAT	-139.2353534	XIX	-.7525737062	ETX	.6538626775		
	YAW	.00000000 00	YAT	.85377366-06	XIY	.5495159030	ETY	.6889178231		

GEOCENTRIC

	ALT	589425.0000	R	21514663.75	VI	25594.77954	X	-20866762.50	VX	6176.877014
51	LTDM	-4.860203027	RASC	193.2600841	FPVI	-.0256843567	Y	-4917347.250	VY	-21733.54638
	LONM	-34.26486587	DECL	-4.827825784	AZVI	118.1329345	Z	-1810712.453	VZ	-12024.63732
	A	21541537.50	ASND	4.314941406	VVEN	-653460280.0	APOG	108.7046537	VAPG	25528.70947
	ECC	.0013372132	ARGP	209.9479827	ARGL	190.1554832	PERG	99.22310256	VPER	25597.07519
	INCL	28.51078987	MA	340.2593307	TA	340.2074966	PERD	88.24613952	EARTH	ELLIPSE
	WT	284368.5898	ATLI	90.00000000	VA	24227.38354	AAAP	.0396738509	VIR	-11.47460174
	DVV	30.45655465	AMIS	118.3287639	FPVA	-.0271348953	AAAY	-1.547230944	VIT	25594.77685
	RANG	3341.469146	RLAT	.4642673172	AZVA	119.8764524	AAAT	1.547739520	VAT	-24227.38061
	PICH	.0681615434	PAT	-170.7448177	XIX	-.2998751625	ETX	.9507778212		
	YAW	.00000000 00	YAT	.64033024-06	XIY	.8285475075	ETY	.3001408502		
	ROLL	.00000000 00	RAT	179.9999961	XIZ	-.4728466049	ETZ	-.0770518370		

3 FEB. 1968 6 HR 24 MIN 30.98 SEC TMST 12608.00000 J.D. 2439889.7670 DAY 3 HR 30.1 MIN

GEOCENTRIC

	ALT	589273.7500	R	21511397.75	VI	25596.93408	X	-18207896.75	VX	13610.20007
51	LTDM	-13.17280030	RASC	209.6570320	FPVI	-.0285120010	Y	-10367512.25	VY	-18825.82446
	LONM	-18.98135375	DECL	-13.08767378	AZVI	115.5482826	Z	-4871079.062	VZ	-10749.59655
	A	21538624.50	ASND	4.309310913	VVEN	-653548656.0	APOG	108.3223781	VAPG	25529.73095
	ECC	.0013647876	ARGP	229.8446731	ARGL	208.3272590	PERG	98.64658260	VPER	25599.51196
	INCL	28.50365304	MA	338.5398941	TA	338.4825820	PERD	88.22823810	EARTH	ELLIPSE
	WT	284321.1054	ATLI	89.99999427	VA	24227.40063	AAAP	.0382005316	VIR	-12.73831176
	DVV	30.45963764	AMIS	115.8866596	FPVA	-.0301237106	AAAY	-1.219823733	VIT	25596.93066
	RANG	4361.275329	RLAT	.3790472597	AZVA	117.1068019	AAAT	1.220421731	VAT	-24227.39697
	PICH	.0681779850	PAT	-152.5776977	XIX	-.5813695043	ETX	.8098846003		
	YAW	.00000000 00	YAT	.64033024-06	XIY	.6936644912	ETY	.5435117781		
	ROLL	.00000000 00	RAT	179.9999961	XIZ	-.4252517558	ETZ	-.2206396125		

3 FEB. 1968 6 HR 26 MIN 54.30 SEC TMST 12751.32373 J.D. 2439889.7687 DAY 3 HR 32.5 MIN

GEOCENTRIC

	ALT	589945.5000	R	21509573.75	VI	25597.71215	X	-16002552.25	VX	17089.46044
51	LTDM	-17.23287034	RASC	218.8779220	FPVI	-.0282297134	Y	-12902254.25	VY	-16459.25122
	LONM	-10.35927963	DECL	-17.12429118	AZVI	113.1320276	Z	-6333397.750	VZ	-9606.573974
	A	21536279.75	ASND	4.301368713	VVEN	-653619800.0	APOG	107.8381872	VAPG	25531.82519
	ECC	.0013372132	ARGP	239.8046188	ARGL	218.1062889	PERG	98.35894012	VPER	25600.19946
	INCL	28.49791312	MA	338.3583374	TA	338.3016662	PERD	88.21383094	EARTH	ELLIPSE
	WT	284295.5703	ATLI	90.00000000	VA	24226.41577	AAAP	.0352686979	VIR	-12.61267089
	DVV	30.45983672	AMIS	113.5366859	FPVA	-.0298271179	AAAY	-.9879397005	VIT	25597.70898
	RANG	4910.374694	RLAT	.3155551664	AZVA	114.5248537	AAAT	.9885690212	VAT	-24226.41235
	PICH	.0681854822	PAT	-142.8056659	XIX	-.7103948071	ETX	.6994589194		
	YAW	.00000000 00	YAT	.64033024-06	XIY	.5913506001	ETY	.6533605084		
	ROLL	.00000000 00	RAT	179.9999961	XIZ	-.3816328980	ETZ	-.2896156497		

PRIMARY PHASE CUTOFF ---- PHASE TIME LAPSE 12047.81774

S-IVB 2ND BURN STAGE

3 FEB. 1968 6 HR 26 MIN 54.30 SEC TMST 12751.32373 J.D. 2439889.7687 DAY 3 HR 32.5 MIN

GEOCENTRIC

	ALT	589945.5000	R	21509573.75	VI	25597.71215	X	-16002552.25	VX	17089.46044
60	LTDM	-17.23287034	RASC	218.8779220	FPVI	-.0282297134	Y	-12902254.25	VY	-16459.25122
	LONM	-10.35927963	DECL	-17.12429118	AZVI	113.1320276	Z	-6333397.750	VZ	-9606.573974
	A	21536279.75	ASND	4.301368713	VVEN	-653619800.0	APOG	107.8381872	VAPG	25531.82519
	ECC	.0013372132	ARGP	239.8046188	ARGL	218.1062889	PERG	98.35894012	VPER	25600.19946
	INCL	28.49791312	MA	338.3583374	TA	338.3016662	PERD	88.21383094	EARTH	ELLIPSE
	WT	283939.5703	ATLI	93.57025814	VA	24226.41577	AAAP	-3.532270312	VIR	-12.61267089
	DVV	39.07544660	AMIS	113.5563735	FPVA	-.0298271179	AAAY	-.9879398420	VIT	25597.70898
	RANG	4910.374694	RLAT	.3161691315	AZVA	114.5248537	AAAT	3.667827516	VAT	-24226.41235
	F	200000.0000	DWT	-469.4835586			VISN	29904.25000	DVI	22.66256833
	PICH	.0483085713	PAT	-139.2353534	XIX	-.7525737062	ETX	.6538626775		
	YAW	.00000000 00	YAT	.85377366-06	XIY	.5495159030	ETY	.6889178231		

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RDR02	WOOMERA	RGR	549378.7109	AZR	-64.50509834	ELR	74.51189804	DRGR	-14242.35693
RLA1	129.3582420	RLA2	180.0000019	LAP	50.64175987	LAY	-180.0000000	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.23495829-03	DELR	-.0057740566		

9 FEB. 1968 22 HR 11 MIN 42.97 SEC TMST 587840.0000 J.D. 2439896.4248 6 DAY 19 HR 17.3 MIN

GEOCENTRIC

	ALT	148891.7500	R	21058332.50	VI	15046.24475	X	-7603983.062	VX	14138.13391
90	LTDM	-28.91781139	RASC	245.6767730	FPVI	-4.330577850	Y	-16822771.00	VY	-2152.049468
	LONM	133.6764221	DECL	-28.75523352	AZVI	113.3977041	Z	-10130508.00	VZ	-4676.680114
	WT	9500.000000	ATLI	56.19691371	VA	13824.89514	AAAP	-.00000000 00	VIR	-1136.155944
	DVV	200.4453849	AMIS	115.1842155	FPVA	-4.713990211	AAAY	-.00000000 00	VIT	15003.28723
	RANG	77.22291088	RLAT	.00000000 00	AZVA	115.6213750	AAAT	.00000000 00	VAT	-13778.13024
	LIFT	3.565987646								
	DRG	59366.67285	Q	356.2011871	MACH	12.63351535	SS	1094.303100	ADEN	.37273628-05
	UL	-426427.0078	DUL	12509.24035	PXG	9136869.875	VXG	-13876.43457	AXG	172.3090667
	VL	203894.1406	DVL	-5830.139587	PYG	-1147876.875	VYG	-2448.034149	AYG	41.84249114
	WL	143454.8730	DWL	-810.0003662	PZG	-39844272.00	VZG	-5276.473449	AZG	93.47268486
	RDR02	WOOMERA	RGR	493994.6289	AZR	-64.44541454	ELR	73.10194587	DRGR	-13440.05810
	RLA1	127.9340591	RLA2	180.0000019	LAP	52.06594228	LAY	-180.0000000	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.28839885-03	DELR	-.0065513902		

9 FEB. 1968 22 HR 11 MIN 46.97 SEC TMST 587844.0000 J.D. 2439896.4248 6 DAY 19 HR 17.4 MIN

GEOCENTRIC

	ALT	144407.7500	R	21053783.25	VI	14227.21325	X	-7548882.625	VX	13403.91369
90	LTDM	-28.98086643	RASC	245.8432731	FPVI	-4.586694717	Y	-16831013.50	VY	-1969.340484
	LONM	133.8262329	DECL	-28.81806325	AZVI	113.1877784	Z	-10148553.62	VZ	-4344.006774
	WT	9500.000000	ATLI	56.03812217	VA	13005.86791	AAAP	-.00000000 00	VIR	-1137.714263
	DVV	212.5703029	AMIS	115.1074810	FPVA	-5.018475532	AAAY	-.00000000 00	VIT	14181.65014
	RANG	68.47993946	RLAT	.00000000 00	AZVA	115.5306768	AAAT	.00000000 00	VAT	-12956.01037
	LIFT	3.786579161								
	DRG	63039.08789	Q	378.2357482	MACH	11.97258114	SS	1086.304428	ADEN	.44721246-05

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UL	-377859.5078	DUL	11764.01843	PXG	9082775.875	VXG	-13162.40893	AXG	184.4845237
VL	181270.1542	DVL	-5478.504211	PYG	-1157327.937	VYG	-2275.918395	AYG	44.16033601
WL	140103.6972	DWL	-863.9813537	PZG	-39864623.00	VZG	-4897.425842	AZG	95.92422962
RDR02 WOOMERA		RGR	441931.4414	AZR	-64.37161350	ELR	71.49846935	DRGR	-12579.77600
RLA1	126.3161716	RLA2	180.0000019	LAP	53.68383073	LAY	-180.0000000	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.35505504-03	DELR	-.0074636864		

9 FEB. 1968 22 HR 11 MIN 50.97 SEC TMST 587848.0000 J.D. 2439896.4249 6 DAY 19 HR 17.5 MIN

GEOCENTRIC

ALT	139922.7500	R	21049237.50	VI	13362.99951	X	-7496812.312	VX	12624.29272
90 LTDM	-29.03975629	RASC	246.0005168	FPVI	-4.869163513	Y	-16838527.25	VY	-1787.861846
LONM	133.9667358	DECL	-28.87674260	AZVI	112.9584445	Z	-10165245.00	VZ	-4000.067718
WT	9500.000000	ATLI	55.88850116	VA	12141.63049	AAAP	-.00000000 00	VIR	-1134.260742
DVV	222.6515502	AMIS	115.0351362	FPVA	-5.360337257	AAAY	-.00000000 00	VIT	13314.77392
RANG	60.29119873	RLAT	.00000000 00	AZVA	115.4441070	AAAT	.00000000 00	VAT	-12088.53344
LIFT	3.970654964								
DRG	66103.58691	Q	396.6227989	MACH	11.26069390	SS	1078.231109	ADEN	.53808842-05
UL	-332372.2539	DUL	10977.36694	PXG	9031631.000	VXG	-12403.06506	AXG	194.8303413
VL	160091.1933	DVL	-5108.106445	PYG	-1166072.875	VYG	-2095.351654	AYG	46.03901767
WL	136556.8085	DWL	-907.6649932	PZG	-39883441.00	VZG	-4510.346862	AZG	97.44361972
RDR02 WOOMERA		RGR	393427.2382	AZR	-64.28163242	ELR	69.66936588	DRGR	-11667.73522
RLA1	124.4722871	RLA2	180.0000019	LAP	55.52771568	LAY	-180.0000000	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.43781679-03	DELR	-.0085280152		

9 FEB. 1968 22 HR 11 MIN 54.97 SEC TMST 587852.0000 J.D. 2439896.4249 6 DAY 19 HR 17.5 MIN

GEOCENTRIC

ALT	135457.7500	R	21044716.00	VI	12463.45532	X	-7447936.812	VX	11808.24096
90 LTDM	-29.09432172	RASC	246.1480083	FPVI	-5.181924819	Y	-16845320.50	VY	-1609.467544
LONM	134.0975036	DECL	-28.93111395	AZVI	112.7054462	Z	-10180544.25	VZ	-3648.667999
WT	9500.000000	ATLI	55.74850082	VA	11242.03479	AAAP	-.00000000 00	VIR	-1125.679763
DVV	229.9029006	AMIS	114.9674425	FPVA	-5.746730804	AAAY	-.00000000 00	VIT	12412.51635

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RANG	52.68268728	RLAT	.00000000 00	AZVA	115.3619079	AAAT	.00000000 00	VAT	-11185.53491
LIFT	4.104348957								
DRG	68329.32910	Q	409.9772987	MACH	10.50538241	SS	1070.121414	ADEN	.64878375-05
UL	-290092.9414	DUL	10158.24414	PXG	8983600.125	VXG	-11607.16174	AXG	202.6072940
VL	140424.5546	DVL	-4723.169677	PYG	-1174082.187	VYG	-1908.389511	AYG	47.32576894
WL	132856.2832	DWL	-940.7902374	PZG	-39900701.00	VZG	-4119.412658	AZG	97.80541229
RDR02	WOOMERA	RGR	348653.8281	AZR	-64.16988372	ELR	67.57706260	DRGR	-10713.20593
RLA1	122.3647899	RLA2	180.0000019	LAP	57.63521194	LAY	-180.0000000	LAPP	.00000000 00
DPR	-.00000000 00	DQR	-.00000000 00	DAZR	.54209351-03	DELR	-.0097602398		

9 FEB. 1968 22 HR 11 MIN 58.97 SEC TMST 587856.0000 J.D. 2439896.4250 6 DAY 19 HR 17.6 MIN

GEOCENTRIC

ALT	131032.5000	R	21040238.75	VI	11541.41979	X	-7402379.187	VX	10967.58813
90 LTDM	-29.14445710	RASC	246.2853794	FPVI	-5.529473304	Y	-16851409.75	VY	-1436.180175
LONM	134.2182006	DECL	-28.98107171	AZVI	112.4239568	Z	-10194430.62	VZ	-3294.505859
WT	9500.000000	ATLI	55.61844396	VA	10319.92272	AAAP	-.00000000 00	VIR	-1112.105911
DVV	233.6439781	AMIS	114.9046039	FPVA	-6.186377525	AAAY	-.00000000 00	VIT	11487.71484
RANG	45.66399335	RLAT	.00000000 00	AZVA	115.2842502	AAAT	.00000000 00	VAT	-10259.82580
LIFT	4.175679445								
DRG	69516.84082	Q	417.1023902	MACH	9.717325568	SS	1062.012649	ADEN	.78328496-05
UL	-251129.0664	DUL	9318.313964	PXG	8938807.000	VXG	-10786.28857	AXG	207.1662960
VL	122317.9511	DVL	-4329.152648	PYG	-1181334.937	VYG	-1717.663665	AYG	47.89124345
WL	129044.3613	DWL	-963.4665222	PZG	-39916397.50	VZG	-3729.608184	AZG	96.84039497
RDR02	WOOMERA	RGR	307757.4414	AZR	-64.03057765	ELR	65.18169307	DRGR	-9728.739379
RLA1	119.9536781	RLA2	180.0000019	LAP	60.04632329	LAY	-180.0000000	LAPP	.00000000 00
DPR	-.00000000 00	DQR	-.00000000 00	DAZR	.67439245-03	DELR	-.0111697637		

9 FEB. 1968 22 HR 12 MIN 2.97 SEC TMST 587860.0000 J.D. 2439896.4250 6 DAY 19 HR 17.7 MIN

GEOCENTRIC

ALT	126666.5000	R	21035825.25	VI	10612.11962	X	-7360210.187	VX	10116.48278

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90	LTDM	-29.19012379	RASC	246.4124221	FPVI	-5.916848182	Y	-16856819.50	VY	-1270.056671
	LONM	134.3284912	DECL	-29.02657651	AZVI	112.1085491	Z	-10206903.75	VZ	-2942.925903
	WT	9500.000000	ATLI	55.49850177	VA	9390.530639	AAAP	-.00000000 00	VIR	-1093.950973
	DVV	233.4343528	AMIS	114.8467454	FPVA	-6.689867019	AAAY	-.00000000 00	VIT	10555.58398
	RANG	39.26455259	RLAT	.00000000 00	AZVA	115.2112169	AAAT	.00000000 00	VAT	-9326.592895
	LIFT	4.176930785								
	DRG	69537.67382	Q	417.2273902	MACH	8.909904360	SS	1053.942916	ADEN	.94628628-05
	UL	-215551.0664	DUL	8471.395507	PXG	8897324.625	VXG	-9954.341674	AXG	208.0744857
	VL	105794.8408	DVL	-3932.494201	PYG	-1187822.625	VYG	-1526.253311	AYG	47.65575075
	WL	125161.7724	DWL	-976.2232818	PZG	-39930546.50	VZG	-3346.447753	AZG	94.47503852
	RDR02	WOCMERA	RGR	270839.3281	AZR	-63.85768270	ELR	62.44358491	DRGR	-8729.799316
	RLA1	117.1990203	RLA2	180.0000019	LAP	62.80098247	LAY	-180.0000000	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.84254447-03	DELR	-.0127538153		

9 FEB. 1968 22 HR 12 MIN 6.97 SEC TMST 587864.0000 J.D. 2439896.4251 6 DAY 19 HR 17.7 MIN

	GEOCENTRIC									
	ALT	122376.5000	R	21031492.50	VI	9692.113037	X	-7321440.750	VX	9270.418457
90	LTDM	-29.23135209	RASC	246.5291061	FPVI	-6.349567413	Y	-16861582.50	VY	-1113.024276
	LONM	134.4284667	DECL	-29.06766009	AZVI	111.7532081	Z	-10217985.00	VZ	-2599.533508
	WT	9500.000000	ATLI	55.38867235	VA	8470.435791	AAAP	-.00000000 00	VIR	-1071.891311
	DVV	229.0581932	AMIS	114.7939023	FPVA	-7.269985199	AAAY	-.00000000 00	VIT	9632.658203
	RANG	33.46246814	RLAT	.00000000 00	AZVA	115.1427984	AAAT	.00000000 00	VAT	-8402.340820
	LIFT	4.104366421								
	DRG	68329.61914	Q	409.9790382	MACH	8.098345875	SS	1045.946395	ADEN	.11428261-04
	UL	-183363.1914	DUL	7632.500671	PXG	8859166.875	VXG	-9126.567504	AXG	205.1014747
	VL	90852.11621	DVL	-3540.169189	PYG	-1193548.562	VYG	-1337.468460	AYG	46.58571386
	WL	121246.4570	DWL	-980.0083160	PZG	-39943185.50	VZG	-2975.566955	AZG	90.72381782
	RDR02	WOCMERA	RGR	237927.4667	AZR	-63.64267063	ELR	59.32557535	DRGR	-7733.894042
	RLA1	114.0634632	RLA2	180.0000019	LAP	65.93653774	LAY	-180.0000000	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.0010576952	DELR	-.0144915745		

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9 FEB. 1968 22 HR 12 MIN 10.97 SEC TMST 587868.0000 J.D. 2439896.4251 6 DAY 19 HR 17.8 MIN

GEOCENTRIC

	ALT	118176.5000	R	21027254.25	VI	8797.925415	X	-7286019.375	VX	8444.956176
90	LTDM	-29.26825070	RASC	246.6355953	FPVI	-6.833469390	Y	-16865738.25	VY	-966.7161407
	LONM	134.5182495	DECL	-29.10442924	AZVI	111.3516530	Z	-10227718.12	VZ	-2269.728515
	WT	9500.000000	ATLI	55.28877115	VA	7576.195190	AAAP	-.00000000 00	VIR	-1046.812377
	DVV	220.6949615	AMIS	114.7460107	FPVA	-7.942036628	AAAY	-.00000000 00	VIT	8735.426391
	RANG	28.25850915	RLAT	.00000000 00	AZVA	115.0788745	AAAT	.00000000 00	VAT	-7503.526977
	LIFT	3.961275368								
	DRG	65947.43554	C	395.6858901	MACH	7.298466324	SS	1038.053039	ADEN	.13787269-04
	UL	-154462.3769	DUL	6816.588806	PXG	8824286.125	VXG	-8318.307617	AXG	198.3835697
	VL	77458.58203	DVL	-3159.118316	PYG	-1198530.125	VYG	-1154.575973	AYG	44.72631168
	WL	117332.1318	DWL	-976.1264953	PZG	-39954374.50	VZG	-2622.251495	AZG	85.73086738
	RDRO2	WOCMERA	RGR	208942.2011	AZR	-63.36750459	ELR	55.79217958	DRGR	-6759.139709
	RLA1	110.5111322	RLA2	180.0000019	LAP	69.48886871	LAY	-180.0000000	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.0013409423	DELR	-.0163420245		

9 FEB. 1968 22 HR 12 MIN 14.97 SEC TMST 587872.0000 J.D. 2439896.4252 6 DAY 19 HR 17.9 MIN

GEOCENTRIC

	ALT	114076.7500	R	21023120.50	VI	7944.666687	X	-7253834.562	VX	7654.421569
90	LTDM	-29.30099678	RASC	246.7322273	FPVI	-7.374463081	Y	-16869332.25	VY	-832.3403472
	LONM	134.5981750	DECL	-29.13705992	AZVI	110.8974847	Z	-10236167.25	VZ	-1958.256851
	WT	9500.000000	ATLI	55.19844007	VA	6722.969360	AAAP	-.00000000 00	VIR	-1019.726661
	DVV	208.8635768	AMIS	114.7029170	FPVA	-8.724182128	AAAY	-.00000000 00	VIT	7878.952087
	RANG	23.64083027	RLAT	.00000000 00	AZVA	115.0192232	AAAT	.00000000 00	VAT	-6645.184326
	LIFT	3.756979942								
	DRG	62546.31835	C	375.2791213	MACH	6.525339841	SS	1030.286468	ADEN	.16605889-04
	UL	-128776.8144	DUL	6037.334285	PXG	8792575.500	VXG	-7543.713134	AXG	188.3755931
	VL	65555.83105	DVL	-2795.640747	PYG	-1202796.875	VYG	-980.5265960	AYG	42.18917465
	WL	113445.7861	DWL	-966.0769348	PZG	-39964193.00	VZG	-2291.001342	AZG	79.74147987

[redacted]

RDR02	WOOMERA	RGR	183797.4277	AZR	-63.02092027	ELR	51.83239936	DRGR	-5824.164428
RLA1	106.5303936	RLA2	180.0000019	LAP	73.46960735	LAY	-180.0000000	LAPP	.00000000 00
DPR	-.0000000 00	DGR	-.00000000 00	DAZR	.0017129821	DELR	-.0182214323		

9 FEB. 1968 22 HR 12 MIN 18.97 SEC TMST 587876.0000 J.D. 2439896.4252 6 DAY 19 HR 17.9 MIN

GEOCENTRIC									
ALT	110084.0000	R	21019097.75	VI	7144.819641	X	-7224721.562	VX	6910.749023
90 LTDM	-29.32982969	RASC	246.8195171	FPVI	-7.978152275	Y	-16872413.75	VY	-710.6034774
LONM	134.6687316	DECL	-29.16579151	AZVI	110.3846483	Z	-10243413.62	VZ	-1668.843551
WT	9500.000000	ATLI	55.11717414	VA	5923.316284	AAAP	-.00000000 00	VIR	-991.6689453
DVV	194.3309268	AMIS	114.6643848	FPVA	-9.637720108	AAAY	-.00000000 00	VIT	7075.665344
RANG	19.55543375	RLAT	.00000000 00	AZVA	114.9635286	AAAT	.00000000 00	VAT	-5839.714732
LIFT	3.505212724								
DRG	58354.89013	Q	350.1304702	MACH	5.792045056	SS	1022.664054	ADEN	.19958599-04
UL	-106108.6269	DUL	5306.010253	PXG	8763875.875	VXG	-6814.600830	AXG	175.7690372
VL	55063.04589	DVL	-2454.922790	PYG	-1206389.437	VYG	-817.7207794	AYG	39.13325738
WL	109609.5576	DWL	-951.4644927	PZG	-39972736.50	VZG	-1985.193725	AZG	73.06395721
RDR02	WOOMERA	RGR	162279.7441	AZR	-62.57379913	ELR	47.44761610	DRGR	-4945.820434
RLA1	102.1219530	RLA2	.00000000 00	LAP	-77.87804698	LAY	-180.0000000	LAPP	.00000000 00
DPR	-.0000000 00	DGR	-.00000000 00	DAZR	.0022165499	DELR	-.0200193904		

9 FEB. 1968 22 HR 12 MIN 22.97 SEC TMST 587880.0000 J.D. 2439896.4253 6 DAY 19 HR 18.0 MIN

GEOCENTRIC									
ALT	106200.0000	R	21015187.50	VI	6407.439086	X	-7198474.437	VX	6222.706115
90 LTDM	-29.35503220	RASC	246.8980922	FPVI	-8.649326324	Y	-16875034.25	VY	-601.7026672
LONM	134.7306213	DECL	-29.19090628	AZVI	109.8076915	Z	-10249550.75	VZ	-1403.979492
WT	9500.000000	ATLI	55.04434776	VA	5186.396362	AAAP	-.00000000 00	VIR	-963.5925750
DVV	177.9961242	AMIS	114.6301145	FPVA	-10.70732784	AAAY	-.00000000 00	VIT	6334.569030
RANG	15.97980809	RLAT	.00000000 00	AZVA	114.9113883	AAAT	.00000000 00	VAT	-5096.096191
LIFT	3.222067862								
DRG	53641.08593	Q	321.8475570	MACH	5.108774423	SS	1015.193840	ADEN	.23930336-04

UL	-86249.31445	DUL	4630.782409	PXG	8737986.625	VXG	-6139.681945	AXG	161.3866558
VL	45881.23779	DVL	-2140.688964	PYG	-1209355.875	VYG	-667.8599395	AYG	35.74127769
WL	105838.3369	DWL	-933.8160324	PZG	-39980111.50	VZG	-1706.910644	AZG	66.02672004
RDR02 WOOMERA		RGR	144132.7617	AZR	-61.98877382	ELR	42.67217254	DRGR	-4139.088989
RLA1	97.31880569	RLA2	.00000000 00	LAP	-82.68119430	LAY	-180.0000000	LAPP	.00000000 00
DPR	-.00000000 00	DLR	-.00000000 00	DAZR	.0029162871	DELR	-.0215922477		

9 FEB. 1968 22 HR 12 MIN 26.97 SEC TMST 587884.0000 J.D. 2439896.4253 6 DAY 19 HR 18.1 MIN

GEOCENTRIC

ALT	102423.2500	R	21011387.75	VI	5738.257995	X	-7174858.125	VX	5595.981506
90 LTDM	-29.37692117	RASC	246.9686679	FPVI	-9.391545295	Y	-16877244.00	VY	-505.3767471
LONM	134.7844848	DECL	-29.21271848	AZVI	109.1626253	Z	-10254679.87	VZ	-1164.984935
WT	9500.000000	ATLI	54.97925376	VA	4518.088012	AAAP	-.00000000 00	VIR	-936.3711929
DVV	160.6335735	AMIS	114.5997629	FPVA	-11.96120929	AAAY	-.00000000 00	VIT	5661.343811
RANG	12.87954449	RLAT	.00000000 00	AZVA	114.8623390	AAAT	.00000000 00	VAT	-4419.991862
LIFT	2.921403884								
DRG	48635.62255	Q	291.8146781	MACH	4.482774972	SS	1007.877487	ADEN	.28590896-04
UL	-68976.00097	DUL	4016.806335	PXG	8714678.500	VXG	-5524.644470	AXG	145.9368495
VL	37899.26025	DVL	-1855.258209	PYG	-1211750.812	VYG	-531.9738922	AYG	32.17014646
WL	102141.2558	DWL	-914.5507278	PZG	-39986429.50	VZG	-1457.021148	AZG	58.91232299
RDR02 WOOMERA		RGR	129051.7412	AZR	-61.21314334	ELR	37.57868146	DRGR	-3416.555541
RLA1	92.19170570	RLA2	.00000000 00	LAP	-87.80829429	LAY	-180.0000000	LAPP	.00000000 00
DPR	-.00000000 00	DLR	-.00000000 00	DAZR	.0039175948	DELR	-.0227836731		

9 FEB. 1968 22 HR 12 MIN 30.97 SEC TMST 587888.0000 J.D. 2439896.4254 6 DAY 19 HR 18.1 MIN

GEOCENTRIC

ALT	98749.50000	R	21007694.50	VI	5139.015991	X	-7153621.937	VX	5032.506713
90 LTDM	-29.39582467	RASC	247.0320129	FPVI	-10.20600605	Y	-16879093.00	VY	-421.0045967
LONM	134.8311157	DECL	-29.23155641	AZVI	108.4467535	Z	-10258905.25	VZ	-951.9012832
WT	9500.000000	ATLI	54.92114830	VA	3920.318054	AAAP	-.00000000 00	VIR	-910.5715789
DVV	143.5004749	AMIS	114.5729579	FPVA	-13.43074131	AAAY	-.00000000 00	VIT	5057.701477

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RANG	10.18649244	RLAT	.00000000 00	AZVA	114.8158645	AAAT	.00000000 00	VAT	-3813.102813
LIFT	2.625863850								
DRG	43715.46289	Q	262.2936248	MACH	3.917532295	SS	1000.711097	ADEN	.34133052-04
UL	-54025.81347	DUL	3465.635711	PXG	8693706.625	VXG	-4971.469604	AXG	130.6168327
VL	30999.66308	DVL	-1599.282806	PYG	-1213630.812	VYG	-410.309095	AYG	28.66352701
WL	98522.38964	DWL	-894.7385787	PZG	-39991805.00	VZG	-1235.160003	AZG	52.05795907
RDR02	WOOMERA	RGR	116674.4589	AZR	-60.15306234	ELR	32.26660919	DRGR	-2786.240142
RLA1	86.83688831	RLA2	.00000000 00	LAP	-86.83688545	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DQR	-.00000000 00	DAZR	.0054206935	DELR	-.0234593521		

9 FEB. 1968 22 HR 12 MIN 34.97 SEC TMST 587892.0000 J.D. 2439896.4254 6 DAY 19 HR 18.2 MIN

GEOCENTRIC

ALT	95173.00000	R	21004101.00	VI	4608.093933	X	-7134515.125	VX	4531.035339
90 LTDM	-29.41206908	RASC	247.0888843	FPVI	-11.09074211	Y	-16880627.00	VY	-347.7482795
LONM	134.8712768	DECL	-29.24774312	AZVI	107.6584978	Z	-10262328.50	VZ	-763.7537612
WT	9500.000000	ATLI	54.86928462	VA	3391.697326	AAAP	-.00000000 00	VIR	-886.4287414
DVV	126.9181632	AMIS	114.5493288	FPVA	-15.15033054	AAAY	-.00000000 00	VIT	4522.031982
RANG	7.892652273	RLAT	.00000000 00	AZVA	114.7714176	AAAT	.00000000 00	VAT	-3273.813476
LIFT	2.341285258								
DRG	38977.79003	Q	233.8674945	MACH	3.413243651	SS	993.6874313	ADEN	.40659841-04
UL	-41164.12597	DUL	2975.813934	PXG	8674825.500	VXG	-4478.994262	AXG	115.7199659
VL	25066.41992	DVL	-1372.019546	PYG	-1215051.875	VYG	-302.4650611	AYG	25.28603219
WL	94983.00292	DWL	-875.0454025	PZG	-39996346.50	VZG	-1040.026107	AZG	45.58208036
RDR02	WOOMERA	RGR	106630.8134	AZR	-58.66114139	ELR	26.87112760	DRGR	-2251.886138
RLA1	81.38421821	RLA2	.00000000 00	LAP	-81.38421630	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DQR	-.00000000 00	DAZR	.0077987644	DELR	-.0235227984		

9 FEB. 1968 22 HR 12 MIN 38.97 SEC TMST 587896.0000 J.D. 2439896.4254 6 DAY 19 HR 18.3 MIN

GEOCENTRIC

ALT	91687.00000	R	21000600.50	VI	4142.334045	X	-7117294.437	VX	4088.888824

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90	LTDM	-29.42596578	RASC	247.1400241	FPVI	-12.04071044	Y	-16881888.50	VY	-284.6352920
	LONM	134.9057006	DECL	-29.26159214	AZVI	106.7991800	Z	-10265046.62	VZ	-599.0850830
	WT	9500.000000	ATLI	54.82294368	VA	2929.350036	AAAP	-.00000000 00	VIR	-864.1185150
	DVV	111.3249826	AMIS	114.5285139	FPVA	-17.15672206	AAAY	-.00000000 00	VIT	4051.201110
	RANG	5.911104977	RLAT	.00000000 00	AZVA	114.7284259	AAAT	.00000000 00	VAT	-2798.998168
	LIFT	2.075691282								
	DRG	34556.17333	C	207.3377094	MACH	2.968544006	SS	986.7968978	ADEN	.48324321-04
	UL	-30150.06298	DUL	2544.511108	PXG	8657797.000	VXG	-4044.642120	AXG	101.6655788
	VL	19587.03833	DVL	-1172.096298	PYG	-1216068.062	VYG	-207.7461814	AYG	22.12170958
	WL	91521.20996	DWL	-856.0052490	PZG	-40000158.50	VZG	-869.8525009	AZG	39.59787559
	RDR02	WOOMERA	RGR	98535.56738	AZR	-56.45884180	ELR	21.53744411	DRGR	-1812.559661
	RLA1	75.96900558	RLA2	.00000000 00	LAP	-75.96900367	LAY	-.00000000 00	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.0118596859	DELR	-.0229450264		

9 FEB. 1968 22 HR 12 MIN 42.97 SEC TMST 587900.0000 J.D. 2439896.4255 6 DAY 19 HR 18.3 MIN

	GEOCENTRIC									
	ALT	88284.75000	R	20997185.75	VI	3736.958068	X	-7101730.500	VX	3701.850799
90	LTDM	-29.43780779	RASC	247.1861362	FPVI	-13.04665756	Y	-16882916.25	VY	-230.6731510
	LONM	134.9351196	DECL	-29.27339267	AZVI	105.8724155	Z	-10267150.00	VZ	-456.0111885
	WT	9500.000000	ATLI	54.78144788	VA	2528.819549	AAAP	-.00000000 00	VIR	-843.5975875
	DVV	97.04309844	AMIS	114.5101718	FPVA	-19.48702621	AAAY	-.00000000 00	VIT	3640.494262
	RANG	4.221800267	RLAT	.00000000 00	AZVA	114.6862926	AAAT	.00000000 00	VAT	-2383.961273
	LIFT	1.835115417								
	DRG	30551.05859	C	183.3069438	MACH	2.580350548	SS	980.0294570	ADEN	.57328850-04
	UL	-20730.68798	DUL	2167.469085	PXG	8642396.250	VXG	-3664.307342	AXG	88.77170467
	VL	15655.90173	DVL	-997.4893493	PYG	-1216730.062	VYG	-125.1600379	AYG	19.22999477
	WL	88133.82421	DWL	-837.8668441	PZG	-40003336.00	VZG	-722.5246963	AZG	34.16364574
	RDR02	WOOMERA	RGR	92011.66992	AZR	-52.93972063	ELR	16.39969968	DRGR	-1461.844406
	RLA1	70.70265769	RLA2	.00000000 00	LAP	-70.70265579	LAY	-.00000000 00	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.0196409533	DELR	-.0217298420		

[redacted]

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9 FEB. 1968 22 HR 12 MIN 46.97 SEC TMST 587904.0000 J.D. 2439896.4255 6 DAY 19 HR 18.4 MIN

GEOCENTRIC

	ALT	84959.25000	R	20993849.75	VI	3386.167663	X	-7087613.125	VX	3364.730255
								-16883745.00	VY	-184.9430427
90	LTDM	-29.44786095	RASC	247.2278614	FPVI	-14.09446907	Y			
	LONM	134.9601135	DECL	-29.28341078	AZVI	104.8837366	Z	-10268720.75	VZ	-332.4421958
	WT	9500.000000	ATLI	54.74417686	VA	2184.650787	AAAP	-.00000000 00	VIR	-824.6043090
	DVV	84.17149162	AMIS	114.4939899	FPVA	-22.17604064	AAAY	-.00000000 00	VIT	3284.228820
	RANG	2.879966318	RLAT	.00000000 00	AZVA	114.6443910	AAAT	.00000000 00	VAT	-2023.048869
	LIFT	1.621611297								
	DRG	26996.63500	G	161.9803333	MACH	2.244410097	SS	973.3741531	ADEN	.67877875-04
	UL	-12740.25036	DUL	1839.563095	PXG	8628417.375	VXG	-3332.907073	AXG	77.14230251
	VL	11976.54223	DVL	-845.7758941	PYG	-1217083.937	VYG	-53.54196929	AYG	16.62743949
	WL	84817.08300	DWL	-820.5910644	PZG	-40005966.00	VZG	-595.8142929	AZG	29.28196072
	RDR02	WOOMERA	RGR	86732.37695	AZR	-46.76974868	ELR	11.63088655	DRGR	-1190.747924
	RLA1	65.70779991	RLA2	.00000000 00	LAP	-65.70779800	LAY	-.00000000 00	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.0368149299	DELR	-.0197707657		

9 FEB. 1968 22 HR 12 MIN 50.97 SEC TMST 587908.0000 J.D. 2439896.4256 6 DAY 19 HR 18.5 MIN

GEOCENTRIC

	ALT	81705.25000	R	20990587.00	VI	3084.356994	X	-7074752.750	VX	3072.546783
								-16884405.75	VY	-146.5441722
90	LTDM	-29.45636534	RASC	247.2657718	FPVI	-15.16673946	Y			
	LONM	134.9812927	DECL	-29.29188585	AZVI	103.8425149	Z	-10269832.75	VZ	-226.3613681
	WT	9500.000000	ATLI	54.71057224	VA	1891.588973	AAAP	-.00000000 00	VIR	-806.9571380
	DVV	72.61293315	AMIS	114.4796819	FPVA	-25.25215530	AAAY	-.00000000 00	VIT	2976.924285
	RANG	1.782274663	RLAT	.00000000 00	AZVA	114.6020631	AAAT	.00000000 00	VAT	-1710.826995
	LIFT	1.433600723								
	DRG	23866.62939	G	143.2002391	MACH	1.953959360	SS	968.0799942	ADEN	.80042417-04
	UL	-5964.250244	DUL	1555.862747	PXG	8615674.375	VXG	-3045.566375	AXG	66.68311882
	VL	8862.258422	DVL	-714.6365432	PYG	-1217171.437	VYG	8.226478576	AYG	14.29523015
	WL	81567.73242	DWL	-804.1731185	PZG	-40008127.00	VZG	-487.5609550	AZG	24.93282747

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RDR02	WOOMERA	RGR	82397.50781	AZR	-33.94028854	ELR	7.449010193	DRGR	-986.8685684
RLA1	61.03906774	RLA2	.00000000 00	LAP	-61.03906679	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.0834811032	DELR	-.0163229287		

9 FEB. 1968 22 HR 12 MIN 54.97 SEC TMST 587912.0000 J.D. 2439896.4256 6 DAY 19 HR 18.5 MIN

GEOCENTRIC

	ALT	78517.50000	R	20987391.75	VI	2827.027862	X	-7062977.875	VX	2821.440887
90	LTDM	-29.46353745	RASC	247.3003978	FPVI	-16.24760913	Y	-16884925.50	VY	-114.3856973
	LONM	134.9992370	DECL	-29.29903268	AZVI	102.7654123	Z	-10270552.50	VZ	-135.9183826
	WT	9500.000000	ATLI	54.68012666	VA	1645.492980	AAAP	-.00000000 00	VIR	-790.9712524
	DVV	62.00281572	AMIS	114.4669914	FPVA	-28.73044395	AAAY	-.00000000 00	VIT	2714.120666
	RANG	.9393401742	RLAT	.00000000 00	AZVA	114.5585918	AAAT	.00000000 00	VAT	-1442.917755
	LIFT	1.264105498								
	DRG	21044.86767	G	126.2696132	MACH	1.699748978	SS	968.0799942	ADEN	.93268883-04
	UL	-234.9376468	DUL	1312.399307	PXG	8603999.000	VXG	-2798.544097	AXG	57.00480318
	VL	6234.368652	DVL	-602.1976013	PYG	-1217030.187	VYG	61.07701492	AYG	12.17230033
	WL	78381.71777	DWL	-789.0584716	PZG	-4000988.00	VZG	-395.6095237	AZG	21.13377976
	RDR02	WOOMERA	RGR	78763.58593	AZR	-2.158123552	ELR	4.543122470	DRGR	-838.1597061
	RLA1	56.73078727	RLA2	.00000000 00	LAP	-56.73078680	LAY	-.00000000 00	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.2065765112	DELR	-.0074481789		

9 FEB. 1968 22 HR 12 MIN 58.97 SEC TMST 587916.0000 J.D. 2439896.4257 6 DAY 19 HR 18.6 MIN

GEOCENTRIC

	ALT	75388.75000	R	20984256.75	VI	2609.069580	X	-7052132.187	VX	2606.927764
90	LTDM	-29.46957063	RASC	247.3322124	FPVI	-17.31838321	Y	-16885327.50	VY	-87.54759025
	LONM	135.0143127	DECL	-29.30504465	AZVI	101.6706695	Z	-10270938.50	VZ	-59.22197389
	WT	9500.000000	ATLI	54.65238380	VA	1441.506286	AAAP	-.00000000 00	VIR	-776.6710205
	DVV	52.98449468	AMIS	114.4556856	FPVA	-32.60139083	AAAY	-.00000000 00	VIT	2490.788269
	RANG	1.029028236	RLAT	.00000000 00	AZVA	114.5132017	AAAT	.00000000 00	VAT	-1214.381530
	LIFT	1.125878870								
	DRG	18743.66650	G	112.4623613	MACH	1.489036321	SS	968.0799942	ADEN	.10824407-03

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UL	4580.562438	DUL	1104.692749	PXG	8593237.875	VXG	-2587.460418	AXG	48.82142400
VL	4022.384643	DVL	-506.3557701	PYG	-1216693.562	VYG	106.0308809	AYG	10.35988605
WL	75253.22558	DWL	-775.3696289	PZG	-40011311.00	VZG	-317.8834266	AZG	17.79038882
RDRO2	WOOMERA	RGR	75633.68457	AZR	48.71216726	ELR	4.622994720	DRGR	-732.8734664
RLA1	52.79856967	RLA2	.00000000 00	LAP	-52.79856872	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DQR	-.00000000 00	DAZR	.1819882225	DELR	.0073622815		

9 FEB. 1968 22 HR 13 MIN 2.97 SEC TMST 587920.0000 J.D. 2439896.4257 6 DAY 19 HR 18.7 MIN

GEOCENTRIC									
ALT	72314.75000	R	20981177.50	VI	2423.804534	X	-7042081.875	VX	2422.904998
90 LTDM	-29.47463226	RASC	247.3616275	FPVI	-18.34804248	Y	-16885632.50	VY	-65.79484031
LONM	135.0270385	DECL	-29.31008911	AZVI	100.5691318	Z	-10271042.12	VZ	5.552630722
WT	9500.000000	ATLI	54.62694835	VA	1272.934020	AAAP	.00000000 00	VIR	-762.9857254
DVV	45.39873886	AMIS	114.4455633	FPVA	-36.82632255	AAAY	.00000000 00	VIT	2300.582794
RANG	1.514646291	RLAT	.00000000 00	AZVA	114.4650287	AAAT	.00000000 00	VAT	-1018.927772
LIFT	1.016545921								
DRG	16923.48803	Q	101.5412569	MACH	1.314905822	SS	968.0799942	ADEN	.12533165-03
UL	8640.812500	DUL	927.0306243	PXG	8583259.500	VXG	-2406.261444	AXG	42.00390291
VL	2165.097625	DVL	-424.4527549	PYG	-1216190.687	VYG	144.3055782	AYG	8.821033120
WL	72178.37402	DWL	-762.1122207	PZG	-40012448.00	VZG	-252.8044719	AZG	14.79550278
RDRO2	WOOMERA	RGR	72859.36914	AZR	75.93312358	ELR	7.022670686	DRGR	-659.0660018
RLA1	49.20815706	RLA2	.00000000 00	LAP	-49.20815610	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DQR	-.00000000 00	DAZR	.0715141175	DELR	.0121229655		

9 FEB. 1968 22 HR 13 MIN 6.97 SEC TMST 587924.0000 J.D. 2439896.4258 6 DAY 19 HR 18.7 MIN

GEOCENTRIC									
ALT	69295.25000	R	20978153.50	VI	2265.689025	X	-7032715.125	VX	2264.368194
90 LTDM	-29.47886395	RASC	247.3889789	FPVI	-19.30355548	Y	-16885860.50	VY	-48.99511909
LONM	135.0376586	DECL	-29.31430602	AZVI	99.47230148	Z	-10270908.00	VZ	59.85770463
WT	9500.000000	ATLI	54.60348939	VA	1133.968185	AAAP	.00000000 00	VIR	-748.9755783
DVV	38.98605537	AMIS	114.4364547	FPVA	-41.33731269	AAAY	.00000000 00	VIT	2138.312957

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RANG	2.058005183	RLAT	.00000000 00	AZVA	114.4130725	AAAT	.00000000 00	VAT	-851.4220046
LIFT	.9315331802								
DRG	15508.19323	C	93.04945945	MACH	1.171357929	SS	968.0799942	ADEN	.14472452-03
UL	12028.68750	DUL	774.7528991	PXG	8573954.625	VXG	-2249.976684	AXG	36.30289506
VL	611.2339248	DVL	-354.3183822	PYG	-1215546.500	VYG	176.8895778	AYG	7.503675878
WL	69157.14550	DWL	-748.3984298	PZG	-40013348.50	VZG	-199.1523513	AZG	12.07092106
RDRO2	WOOMERA	RGR	70330.50781	AZR	87.09096717	ELR	9.860595464	DRGR	-607.9153442
RLA1	45.95192956	RLA2	.00000000 00	LAP	-45.95192909	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.0326448022	DELR	.0124095836		

9 FEB. 1968 22 HR 13 MIN 10.97 SEC TMST 587928.0000 J.D. 2439896.4258 6 DAY 19 HR 18.8 MIN

GEOCENTRIC

ALT	66333.00000	R	20975187.50	VI	2130.127593	X	-7023938.500	VX	2127.222473
90 LTDM	-29.48238444	RASC	247.4145679	FPVI	-20.15091419	Y	-16886031.25	VY	-37.09261035
LONM	135.0465393	DECL	-29.31781411	AZVI	98.39207553	Z	-10270575.62	VZ	104.8434505
WT	9500.000000	ATLI	54.58172559	VA	1019.461997	AAAP	.00000000 00	VIR	-733.8163375
DVV	33.56213998	AMIS	114.4282150	FPVA	-46.03858375	AAAY	.00000000 00	VIT	1999.739257
RANG	2.449525147	RLAT	.00000000 00	AZVA	114.3561353	AAAT	.00000000 00	VAT	-707.6837921
LIFT	.8674822449								
DRG	14441.87133	C	86.65150737	MACH	1.053076192	SS	968.0799942	ADEN	.16674931-03
UL	14858.68762	DUL	644.0635299	PXG	8565232.000	VXG	-2114.534332	AXG	31.53971147
VL	-682.6966781	DVL	-294.1874809	PYG	-1214781.937	VYG	204.5832595	AYG	6.368268668
WL	66192.87304	DWL	-733.4430007	PZG	-40014055.50	VZG	-155.9926834	AZG	9.545102953
RDRO2	WOOMERA	RGR	67974.64746	AZR	92.63060474	ELR	12.63936253	DRGR	-571.9263610
RLA1	42.98472738	RLA2	.00000000 00	LAP	-42.98472595	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.0177699816	DELR	.0117905841		

9 FEB. 1968 22 HR 13 MIN 14.97 SEC TMST 587932.0000 J.D. 2439896.4258 6 DAY 19 HR 18.9 MIN

GEOCENTRIC

ALT	63433.75000	R	20972285.25	VI	2013.403869	X	-7015673.187	VX	2008.205398

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90	LTDM	-29.48529553	RASC	247.4386405	FPVI	-20.85778236	Y	-16886163.75	VY	-30.02775382
	LONM	135.0539245	DECL	-29.32071471	AZVI	97.34127712	Z	-10270080.37	VZ	141.4376373
	WT	9500.000000	ATLI	54.56141614	VA	924.8777084	AAAP	.00000000 00	VIR	-716.8715591
	DVV	28.92700290	AMIS	114.4207229	FPVA	-50.81398582	AAAY	.00000000 00	VIT	1881.459609
	RANG	2.879966318	RLAT	.00000000 00	AZVA	114.2927513	AAAT	.00000000 00	VAT	-584.3748321
	LIFT	.8201293051								
	DRG	13653.53808	G	81.92149257	MACH	.9553732201	SS	968.0799942	ADEN	.19153989-03
	UL	17210.50024	DUL	531.9322433	PXG	8557014.875	VXG	-1996.691558	AXG	27.49788284
	VL	-1753.763519	DVL	-242.6498050	PYG	-1213915.562	VYG	228.0270938	AYG	5.375946879
	WL	63291.86523	DWL	-716.6365585	PZG	-40014609.50	VZG	-122.5623703	AZG	7.192850887
	RDR02	WOOMERA	RGR	65743.19140	AZR	95.81835269	ELR	15.25642430	DRGR	-545.6566314
	RLA1	40.27519702	RLA2	.00000000 00	LAP	-40.27519559	LAY	-.00000000 00	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.0108369485	DELR	.0109950399		

9 FEB. 1968 22 HR 13 MIN 18.97 SEC TMST 587936.0000 J.D. 2439896.4259 6 DAY 19 HR 18.9 MIN

GEOCENTRIC

	ALT	60606.25000	R	20969455.25	VI	1912.525863	X	-7007852.187	VX	1904.716720
90	LTDM	-29.48768424	RASC	247.4614086	FPVI	-21.39543628	Y	-16886277.75	VY	-27.70236301
	LONM	135.0599670	DECL	-29.32309603	AZVI	96.33335113	Z	-10269454.25	VZ	170.4171218
	WT	9500.000000	ATLI	54.54235410	VA	846.1906661	AAAP	.00000000 00	VIR	-697.6945266
	DVV	24.93029713	AMIS	114.4138708	FPVA	-55.53906440	AAAY	.00000000 00	VIT	1780.723876
	RANG	3.226719141	RLAT	.00000000 00	AZVA	114.2210588	AAAT	.00000000 00	VAT	-478.8120613
	LIFT	.7856560275								
	DRG	13079.62585	G	78.47800827	MACH	.8740916773	SS	968.0799942	ADEN	.21920049-03
	UL	19140.25024	DUL	435.9241714	PXG	8549238.500	VXG	-1893.868652	AXG	24.00211906
	VL	-2633.883117	DVL	-198.5712718	PYG	-1212962.875	VYG	247.7401924	AYG	4.498727679
	WL	60462.68945	DWL	-697.5515747	PZG	-40015048.00	VZG	-98.19097995	AZG	5.017911613
	RDR02	WOOMERA	RGR	63602.61669	AZR	97.83519935	ELR	17.68423199	DRGR	-525.1809310
	RLA1	37.80284881	RLA2	.00000000 00	LAP	-37.80284738	LAY	-.00000000 00	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.0071059018	DELR	.0102060892		

9 FEB. 1968 22 HR 13 MIN 22.97 SEC TMST 587940.0000 J.D. 2439896.4259 6 DAY 19 HR 19.0 MIN

GEOCENTRIC

	ALT	57860.00000	R	20966707.00	VI	1825.177673	X	-7000417.437	VX	1814.752700
90	LTDM	-29.48962783	RASC	247.4830703	FPVI	-21.74267101	Y	-16886391.50	VY	-29.88979053
	LONM	135.06488003	DECL	-29.32503271	AZVI	95.38235187	Z	-10268726.25	VZ	192.4910373
	WT	9500.000000	ATLI	54.52435684	VA	779.9664611	AAAP	.00000000 00	VIR	-676.1163406
	DVV	21.48084878	AMIS	114.4075660	FPVA	-60.09498214	AAAY	.00000000 00	VIT	1695.328948
	RANG	3.438555270	RLAT	.00000000 00	AZVA	114.1386651	AAAT	.00000000 00	VAT	-388.8629264
	LIFT	.7611067220								
	DRG	12670.92834	C	76.02581501	MACH	.8056838885	SS	968.0799942	ADEN	.24994199-03
	UL	20714.81274	DUL	354.1036567	PXC	8541846.625	VXG	-1804.091583	AXG	20.93819427
	VL	-3351.007598	DVL	-161.0498676	PYG	-1211938.000	VYG	264.1475448	AYG	3.719468027
	WL	57714.82812	DWL	-676.0334320	PZG	-40015406.00	VZG	-82.17696857	AZG	3.030581623
	RDRO2	WOOMERA	RGR	61537.50878	AZR	99.18901824	ELR	19.93762683	DRGR	-507.5463714
	RLA1	35.53503370	RLA2	.00000000 00	LAP	-35.53503274	LAY	-.00000000 00	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.0048815800	DELR	.0094789442		

9 FEB. 1968 22 HR 13 MIN 26.97 SEC TMST 587944.0000 J.D. 2439896.4260 6 DAY 19 HR 19.1 MIN

GEOCENTRIC

	ALT	55204.25000	R	20964049.50	VI	1749.635482	X	-6993318.137	VX	1736.805160
90	LTDM	-29.49119377	RASC	247.5037860	FPVI	-21.89029026	Y	-16886522.50	VY	-36.15384197
	LONM	135.0689086	DECL	-29.32659339	AZVI	94.50234413	Z	-10267922.62	VZ	208.3868236
	WT	9500.000000	ATLI	54.50726509	VA	723.4417800	AAAP	.00000000 00	VIR	-652.3175811
	DVV	18.50368165	AMIS	114.4017267	FPVA	-64.38062286	AAAY	.00000000 00	VIT	1623.485778
	RANG	3.686235874	RLAT	.00000000 00	AZVA	114.0424480	AAAT	.00000000 00	VAT	-312.8094978
	LIFT	.7435892448								
	DRG	12379.29687	C	74.27602100	MACH	.7472954541	SS	968.0799942	ADEN	.28383861-03
	UL	21994.68774	DUL	284.9116249	PXG	8534790.250	VXG	-1725.899429	AXG	18.21081757
	VL	-3929.956787	DVL	-129.3577957	PYG	-1210853.562	VYG	277.6123542	AYG	3.026933819
	WL	55057.71728	DWL	-652.2728805	PZG	-40015715.50	VZG	-73.66740798	AZG	1.260961696

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RDRO2 WOMERA		RGR	59543.09228	AZR	100.1305265	ELR	22.03922557	DRGR	-490.8278160
RLA1	33.44115972	RLA2	.00000000 00	LAP	-33.44115877	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.0034564520	DELR	.0088309990		

9 FEB. 1968 22 HR 13 MIN 30.97 SEC TMST 587948.0000 J.D. 2439896.4260 6 DAY 19 HR 19.1 MIN

GEOCENTRIC									
ALT	52647.00000	R	20961491.00	VI	1684.532943	X	-6986508.625	VX	1669.623519
90 LTDM	-29.49244332	RASC	247.5237064	FPVI	-21.84067535	Y	-16886685.50	VY	-45.92356586
LONM	135.0721130	DECL	-29.32783818	AZVI	93.70532321	Z	-10267066.50	VZ	218.8597946
WT	9500.000000	ATLI	54.49093437	VA	674.3978424	AAAP	.00000000 00	VIR	-626.6915969
DVV	15.91913151	AMIS	114.3962783	FPVA	-68.31990623	AAAY	.00000000 00	VIT	1563.620422
RANG	3.872996270	RLAT	.00000000 00	AZVA	113.9282817	AAAT	.00000000 00	VAT	-249.1387042
LIFT	.7300463691								
DRG	12153.83459	Q	72.92324352	MACH	.6966344118	SS	968.0799942	ADEN	.32067391-03
UL	23014.00024	DUL	226.9756050	PXG	8528025.625	VXG	-1658.100051	AXG	15.73313117
VL	-4392.830566	DVL	-102.8537206	PYG	-12097206.87	VYG	288.4694900	AYG	2.415050447
WL	52499.25634	DWL	-626.6702575	PZG	-40016004.00	VZG	-71.69925785	AZG	-.2342223227
RDRO2 WOMERA		RGR	57612.86425	AZR	100.8063907	ELR	23.99589300	DRGR	-474.0001869
RLA1	31.50841617	RLA2	.00000000 00	LAP	-31.50841498	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.0024957389	DELR	.0082646147		

9 FEB. 1968 22 HR 13 MIN 34.97 SEC TMST 587952.0000 J.D. 2439896.4261 6 DAY 19 HR 19.2 MIN

GEOCENTRIC									
ALT	50194.50000	R	20959037.50	VI	1628.778625	X	-6979948.187	VX	1612.142532
90 LTDM	-29.49342846	RASC	247.5429649	FPVI	-21.60874557	Y	-16886893.50	VY	-58.49709272
LONM	135.0746765	DECL	-29.32381975	AZVI	93.00013923	Z	-10266177.87	VZ	224.7096195
WT	9500.000000	ATLI	54.47523832	VA	631.1818161	AAAP	.00000000 00	VIR	-599.8245849
DVV	13.70686197	AMIS	114.3911581	FPVA	-71.86389732	AAAY	.00000000 00	VIT	1514.308502
RANG	4.007348835	RLAT	.00000000 00	AZVA	113.7906980	AAAT	.00000000 00	VAT	-196.4712524
LIFT	.7192137837								
DRG	11573.49340	Q	71.84119224	MACH	.6519934460	SS	968.0799942	ADEN	.36065717-03

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UL	23828.81274	DUL	179.0434131	PXG	8521513.000	VXG	-1599.698257	AXG	13.49873149
VL	-4759.007263	DVL	-80.9534111C	PYG	-1208548.812	VYG	297.0385894	AYG	1.882518276
WL	5C045.80517	DWL	-599.8170394	PZG	-4C016296.50	VZG	-75.18897819	AZG	-1.455483064
RDRO2	WOOMERA	RGR	55754.03613	AZR	101.2942781	ELR	25.83824253	DRGR	-456.4205627
RLA1	29.70550680	RLA2	.CCCCCCCC 0C	LAP	-29.70550537	LAY	-.0CC00000 00	LAPP	.CCCCCCCC 00
DPR	-.0CCCCCCC 0C	DCR	-.CCCCCCCC 0C	DAZR	.0018239284	DELR	.0077790314		

9 FEB. 1968 22 HR 13 MIN 38.97 SEC TMST 587956.0000 J.D. 2439896.4261 6 DAY 19 HR 19.3 MIN

GECCENTRIC

ALT	47850.75000	R	20956693.0C	VI	1581.469620	X	-6973599.875	VX	1563.418457
90 LTDM	-29.49419736	RASC	247.5616760	FPVI	-21.22191810	Y	-16887156.00	VY	-73.05842590
LONM	135.0766601	DECL	-29.32958626	AZVI	92.39131450	Z	-10265273.75	VZ	226.7851791
WT	9500.000000	ATLI	54.46006345	VA	592.6859283	AAAP	.0CC00000 00	VIR	-572.4623413
DVV	11.81057310	AMIS	114.3863039	FPVA	-74.98942947	AAAY	.00C00000 00	VIT	1474.222915
RANG	4.137342691	RLAT	.CCCCCCCC 0C	AZVA	113.6224107	AAAT	.00C00000 00	VAT	-153.5040073
LIFT	.7C93865573								
DRG	11809.8894C	C	70.85956478	MACH	.6122282520	SS	968.0799942	ADEN	.40344027-03
UL	24462.81274	DUL	139.9325733	PXG	8515216.625	VXG	-1549.830322	AXG	11.47948312
VL	-5045.746765	DVL	-63.10524845	PYG	-1207346.875	VYG	303.6334533	AYG	1.427599683
WL	47701.37597	DWL	-572.4624023	PZG	-4C016611.50	VZG	-82.93962764	AZG	-2.381817609
RDRO2	WOOMERA	RGR	53964.33496	AZR	101.6544618	ELR	27.57160973	DRGR	-438.1157112
RLA1	28.02396202	RLA2	.CCCCCCCC 0C	LAP	-28.02396106	LAY	-.00C00000 00	LAPP	.CCCCCCCC 00
DPR	-.0CCCCCCC 0C	DCR	-.CCCCCCCC 00	DAZR	.0013426589	DELR	.0073706425		

9 FEB. 1968 22 HR 13 MIN 42.97 SEC TMST 587960.0000 J.D. 2439896.4262 6 DAY 19 HR 19.3 MIN

GECCENTRIC

ALT	45616.25000	R	20954457.75	VI	1541.697952	X	-6967430.500	VX	1522.468872
90 LTDM	-29.49479103	RASC	247.5799465	FPVI	-20.71137428	Y	-16887479.50	VY	-88.88399696
LONM	135.0782165	DECL	-29.33017849	AZVI	91.87310707	Z	-10264367.62	VZ	225.8777656
WT	9500.000000	ATLI	54.44531011	VA	558.0587921	AAAP	.0CC00000 00	VIR	-545.2377624
DVV	10.19222891	AMIS	114.3816680	FPVA	-77.69464683	AAAY	.0CC00000 00	VIT	1442.063934

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RANG    4.200878143  RLAT   .00000000 00  AZVA   113.4137411  AAAT   .00000000 00  VAT   -118.9344291

LIFT    .6998242438
DRG     11650.69567  Q      69.90439987  MACH   .5764593780  SS     968.0799942   ADEN  .44892584-03

UL      24949.43774  DUL    108.4603595  PXG    8509104.250  VXG   -1507.585449   AXG    9.675227284
VL     -5268.491882  DVL   -48.75941419  PYG   -1206122.125  VYG    308.5596923   AYG    1.047850921
WL      45466.08496  DWL   -545.2416687  PZG   -40016964.00  VZG   -93.85947322   AZG   -3.028780937

RDRO2 WOOMERA        RGR    52245.90771  AZR    101.9237594  ELR    29.21377325   DRGR  -419.1786193
RLA1    26.44557619  RLA2  .00000000 00  LAP   -26.44557571  LAY   -.00000000 00  LAPP  .00000000 00
DPR    -.00000000 00 DGR   -.00000000 00  DAZR  .99210694-03  DELR   .0070346328

 9 FEB.   1968 22 HR 13 MIN 46.97 SEC TMST  587964.0000  J.D. 2439896.4262   6 DAY 19 HR 19.4 MIN
GEOCENTRIC
ALT     43489.00000  R      20952330.00  VI     1508.631134  X     -6961410.875   VX     1488.377761
LTDM   -29.49524569  RASC   247.5978660  FPVI  -20.11388015  Y     -16887867.75   VY    -105.2502460
LONM    135.0794372  DECL  -29.33063101  AZVI   91.45564937  Z     -10263469.75   VZ     222.7599315

WT      9500.000000  ATLI   54.43089437  VA     526.8109512  AAAP   .00000000 00  VIR   -518.7989349
DVV     8.832686543  AMIS   114.3772048  FPVA  -79.99462890  AAAY   .00000000 00  VIT    1416.621170
RANG    4.284053742  RLAT  .00000000 00  AZVA   113.1518611  AAAT   .00000000 00  VAT   -91.52838611

LIFT    .6905932277
DRG     11497.01757  Q      68.98232841  MACH   .5441812128  SS     968.0799942   ADEN  .49711659-03

UL      25337.06274  DUL    83.50531101  PXG    8503146.875  VXG   -1472.118927   AXG    8.098848223
VL     -5439.979919  DVL   -37.39575767  PYG   -1204880.312  VYG    312.1094474   AYG    .7380013391
WL      43338.22851  DWL   -518.8045806  PZG   -40017365.00  VZG   -106.8711948   AZG   -3.446789801

RDRO2 WOOMERA        RGR    50610.56054  AZR    102.1176614  ELR    30.79960131   DRGR  -399.8095245
RLA1    24.93936491  RLA2  .00000000 00  LAP   -24.93936419  LAY   -.00000000 00  LAPP  .00000000 00
DPR    -.00000000 00 DGR   -.00000000 00  DAZR  .73445807-03  DELR   .0067677544

 9 FEB.   1968 22 HR 13 MIN 50.97 SEC TMST  587968.0000  J.D. 2439896.4263   6 DAY 19 HR 19.5 MIN
GEOCENTRIC
ALT     41465.00000  R      20950305.75  VI     1481.381591  X     -6955515.625   VX     1460.185852
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90	LTDM	-29.49559020	RASC	247.6155090	FPVI	-19.46100521	Y	-16888321.50	VY	-121.6420993
	LONM	135.0803527	DECL	-29.33097410	AZVI	91.11526775	Z	-10262587.62	VZ	218.0640506
	WT	9500.000000	ATLI	54.41674518	VA	498.4977722	AAAP	.00000000 00	VIR	-493.5448608
	DVV	7.675319969	AMIS	114.3728799	FPVA	-81.91655731	AAAY	.00000000 00	VIT	1396.747970
	RANG	4.345384180	RLAT	.00000000 00	AZVA	112.8199405	AAAT	.00000000 00	VAT	-70.09634876
	LIFT	.6811633855								
	DRG	11340.02917	Q	68.04039478	MACH	.5149344802	SS	968.0799942	ADEN	.54760875-03
	UL	25622.62524	DUL	63.98733615	PXG	8497319.375	VXG	-1442.523620	AXG	6.731214702
	VL	-5570.922302	DVL	-28.51389932	PYG	-1203626.625	VYG	314.5493240	AYG	.4921008795
	WL	41314.09912	DWL	-493.5510063	PZG	-40017820.50	VZG	-121.1433019	AZG	-3.655013173
	RDR02	WOOMERA	RGR	49046.21728	AZR	102.2664222	ELR	32.31836652	DRGR	-380.4283790
	RLA1	23.51199364	RLA2	.00000000 00	LAP	-23.51199269	LAY	-.00000000 00	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.54415132-03	DELR	.0065616473		

9 FEB. 1968 22 HR 13 MIN 54.97 SEC TMST 587972.0000 J.D. 2439896.4263 6 DAY 19 HR 19.5 MIN

	GEOCENTRIC									
	ALT	39539.00000	R	20948379.50	VI	1459.123428	X	-6949722.750	VX	1437.014694
90	LTDM	-29.49584937	RASC	247.6329326	FPVI	-18.78253650	Y	-16888840.25	VY	-137.6201190
	LONM	135.0810546	DECL	-29.33123278	AZVI	90.84649372	Z	-10261726.50	VZ	212.3455734
	WT	9500.00000	ATLI	54.40280056	VA	472.8479690	AAAP	.00000000 00	VIR	-469.8044319
	DVV	6.728868842	AMIS	114.3686628	FPVA	-83.49572563	AAAY	.00000000 00	VIT	1381.421356
	RANG	4.365639627	RLAT	.00000000 00	AZVA	112.3962564	AAAT	.00000000 00	VAT	-53.56302881
	LIFT	.6724831909								
	DRG	11195.52111	Q	67.17334365	MACH	.4884389415	SS	968.0799942	ADEN	.60087469-03
	UL	25846.00024	DUL	48.92892551	PXG	8491600.000	VXG	-1417.965805	AXG	5.586670935
	VL	-5670.687927	DVL	-21.66208362	PYG	-1202364.937	VYG	316.1180953	AYG	.3003044873
	WL	39387.79199	DWL	-469.8105010	PZG	-40018335.00	VZG	-135.9538612	AZG	-3.738529145
	RDR02	WOOMERA	RGR	47562.33154	AZR	102.3747529	ELR	33.80297517	DRGR	-361.2203407
	RLA1	22.13613057	RLA2	.00000000 00	LAP	-22.13612961	LAY	-.00000000 00	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.40335537-03	DELR	.0064114703		

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9 FEB. 1968 22 HR 13 MIN 58.97 SEC TMST 587576.0000 J.D. 2439896.4264 6 DAY 19 HR 19.6 MIN

	GEOCENTRIC									
	ALT	37705.00000	R	20946545.25	VI	1441.014892	X	-6944014.000	VX	1417.987823
	LTDM	-29.49604392	RASC	247.6501884	FPVI	-18.09728240	Y	-16889421.75	VY	-152.9893665
90	LONM	135.0816345	DECL	-29.33142662	AZVI	90.63775348	Z	-10260889.75	VZ	205.9822006
	WT	9500.000000	ATLI	54.38901567	VA	449.4944152	AAAP	.00000000 00	VIR	-447.6244544
	DVV	5.930945813	AMIS	114.3645267	FPVA	-84.77190780	AAAY	.00000000 00	VIT	1369.728530
	RANG	4.385843753	RLAT	.00000000 00	AZVA	111.8533029	AAAT	.00000000 00	VAT	-40.95824861
	LIFT	.6640088707								
	DRG	11054.44030	C	66.32685661	MACH	.4643153623	SS	968.0799942	ADEN	.65655455-03
	UL	26023.62524	DUL	37.44818162	PXG	8485970.125	VXG	-1397.590942	AXG	4.628611683
	VL	-5746.397766	DVL	-16.43308949	PYG	-1201098.625	VYG	317.0152168	AYG	.1555659622
	WL	37553.56884	DWL	-447.6302146	PZG	-40018908.50	VZG	-150.8799495	AZG	-3.705114126
	RDR02	WOOMERA	RGR	46158.77490	AZR	102.4519014	ELR	35.26550674	DRGR	-342.3249816
	RLA1	20.80196595	RLA2	.00000000 00	LAP	-20.80196523	LAY	-.00000000 00	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.29912982-03	DELR	.0063085787		

9 FEB. 1968 22 HR 14 MIN 2.97 SEC TMST 587580.0000 J.D. 2439896.4264 6 DAY 19 HR 19.7 MIN

	GEOCENTRIC									
	ALT	35955.75000	P	20944796.00	VI	1426.428573	X	-6938374.187	VX	1402.468231
	LTDM	-29.49618911	RASC	247.6673221	FPVI	-17.43193054	Y	-16890063.00	VY	-167.3670768
90	LONM	135.0820312	DECL	-29.33157134	AZVI	90.47832679	Z	-10260079.00	VZ	199.4232101
	WT	9500.000000	ATLI	54.37534999	VA	428.4765853	AAAP	.00000000 00	VIR	-427.3188705
	DVV	5.094643294	AMIS	114.3604536	FPVA	-85.78717803	AAAY	.00000000 00	VIT	1360.917724
	RANG	4.425893187	RLAT	.00000000 00	AZVA	111.1575622	AAAT	.00000000 00	VAT	-31.47646069
	LIFT	.6528546437								
	DRG	10868.74438	C	65.21267700	MACH	.4421941899	SS	968.9783172	ADEN	.71040799-03
	UL	26147.50024	DUL	28.81324815	PXG	8480414.500	VXG	-1380.800399	AXG	3.759234488
	VL	-5803.895141	DVL	-12.48838746	PYG	-1159829.500	VYG	317.4240684	AYG	.0585690737
	WL	35804.39453	DWL	-427.3242568	PZG	-40019541.00	VZG	-165.3197460	AZG	-3.438039511

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RDR02	WOOMERA	RGR	44821.57128	AZR	102.5148687	ELR	36.69584274	DRGR	-324.2108535
RLA1	19.51767182	RLA2	.00000000 00	LAP	-19.51767110	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.22207501-03	DELR	.0062487496		

9 FEB. 1968 22 HR 14 MIN 6.97 SEC TMST 587584.0000 J.D. 2439896.4265 6 DAY 19 HR 19.7 MIN

GEOCENTRIC

	ALT	34282.75000	R	20943122.75	VI	1415.007263	X	-6932790.000	VX	1390.138000
90	LTDM	-29.49629712	RASC	247.6843605	FPVI	-16.83204364	Y	-16890758.25	VY	-179.9626426
	LONM	135.0823669	DECL	-29.33167886	AZVI	90.35861301	Z	-10259293.62	VZ	193.3270416
	WT	9500.000000	ATLI	54.36177396	VA	410.4694595	AAAP	.00000000 00	VIR	-409.7396659
	DVV	4.257842183	AMIS	114.3564291	FPVA	-86.58285331	AAAY	.00000000 00	VIT	1354.385086
	RANG	4.445789635	RLAT	.00000000 00	AZVA	110.2711553	AAAT	.00000000 00	VAT	-24.46593618
	LIFT	.6404063254								
	DRG	10661.50427	C	63.96923208	MACH	.4204368256	SS	976.2928314	ADEN	.75934552-03
	UL	26261.75024	DUL	22.43092370	PXG	8474919.250	VXG	-1367.351287	AXG	2.994466513
	VL	-5847.557617	DVL	-9.553327083	PYG	-1198559.500	VYG	317.5313148	AYG	-.79645217-03
	WL	34131.25634	DWL	-409.7447547	PZG	-40020229.00	VZG	-178.2408885	AZG	-3.026943862
RDR02	WOOMERA	RGR	43566.13378	AZR	102.5529193	ELR	38.13849067	DRGR	-307.4688949
RLA1	18.25274372	RLA2	.00000000 00	LAP	-18.25274300	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.16538985-03	DELR	.0062410287		

9 FEB. 1968 22 HR 14 MIN 10.97 SEC TMST 587588.0000 J.D. 2439896.4265 6 DAY 19 HR 19.8 MIN

GEOCENTRIC

	ALT	32674.75000	R	20941514.75	VI	1406.113128	X	-6927249.625	VX	1380.384231
90	LTDM	-29.49637818	RASC	247.7013301	FPVI	-16.30185604	Y	-16891500.25	VY	-190.8365821
	LONM	135.0826110	DECL	-29.33175969	AZVI	90.26933574	Z	-10258531.62	VZ	187.8161144
	WT	9500.000000	ATLI	54.34826326	VA	395.1661186	AAAP	.00000000 00	VIR	-394.6929168
	DVV	3.581031650	AMIS	114.3524379	FPVA	-87.19574737	AAAY	.00000000 00	VIT	1349.582015
	RANG	4.465583622	RLAT	.00000000 00	AZVA	109.1552438	AAAT	.00000000 00	VAT	-19.33291792
	LIFT	.6300625130								
	DRG	10489.30029	C	62.93600511	MACH	.4018851705	SS	983.2811584	ADEN	.80606445-03

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UL	26333.87524	DUL	17.7617495C	PXG	8469472.000	VXG	-1356.627700	AXG	2.395668476
VL	-5881.426147	DVL	-7.377656579	PYG	-1197289.750	VYG	317.4459381	AYG	-.0393574387
WL	32522.94140	DWL	-394.6977795E	PZG	-40020965.00	VZG	-189.5875263	AZG	-2.661392658
RDR02 WOOMERA		RGR	42362.31201	AZR	102.5898313	ELR	39.56473779	DRGR	-292.2090530
RLA1	17.03079223	RLA2	.00000000 00	LAP	-17.03079152	LAY	-.0CC00000 00	LAPP	.C0000000 00
DPR	-.0C000000C 00	DGR	-.0CC00CC0 0C	DAZR	.12336570-03	DELR	.0C62793C13		

9 FEB. 1968 22 HR 14 MIN 14.97 SEC TMST 587992.00C0 J.D. 2439896.4265 6 DAY 19 HR 19.9 MIN

GEOCENTRIC

ALT	31123.CCOCC	R	2C939962.75	VI	1399.075973	X	-6921744.375	VX	1372.529373
90 LTDM	-29.49643898	RASC	247.7182483	FPVI	-15.82331848	Y	-16892283.00	VY	-200.4664745
LONM	135.0828247	DECL	-29.33182024	AZVI	9C.20260715	Z	-10257790.62	VZ	182.7291297
WT	9500.000000	ATLI	54.3347997E	VA	381.8071250	AAAP	.0CC00000 00	VIR	-381.4886398
DVV	3.151707112	AMIS	114.3484745	FPVA	-87.65958213	AAAY	.00C00000 00	VIT	1346.060913
RANG	4.48527497C	RLAT	.CC000000 0C	AZVA	107.7743339	AAAT	.00C00000 00	VAT	-15.59158933
LIFT	.6236424297								
DRG	10382.41857	Q	62.29471254	MACH	.3856692277	SS	989.9859695	ADEN	.85465951-03
UL	26396.56274	DUL	14.36311364	PXG	8464063.5C0	VXG	-1347.910568	AXG	1.981495276
VL	-5907.493652	DVL	-5.75664108S	PYG	-119602C.250	VYG	317.2239494	AYG	-.069360435C
WL	3C971.09863	DWL	-381.4934345	PZG	-4C021744.C0	VZG	-199.7989616	AZG	-2.449923C98
RDR02 WOOMERA		RGR	41221.69873	AZR	102.6147756	ELR	41.01042C32	DRGR	-277.8487319
RLA1	15.83201289	RLA2	.00000000 00	LAP	-15.83201205	LAY	-.00C00000 00	LAPP	.CC000000 00
DPR	-.0CCCC00C 0C	DGR	-.00000000 0C	DAZR	.91715004-04	DELR	.0C63524769		

9 FEB. 1968 22 HR 14 MIN 18.97 SEC TMST 587996.0000 J.D. 2439896.4266 6 DAY 19 HR 19.9 MIN

GEOCENTRIC

ALT	29621.5CCCC	R	2C938461.25	VI	1393.391632	X	-6916267.562	VX	1366.053771
90 LTDM	-29.49648404	RASC	247.7351322	FPVI	-15.38143062	Y	-16893103.00	VY	-209.2268714
LONM	135.0830078	DECL	-29.33186507	AZVI	90.15228462	Z	-10257069.37	VZ	177.9366168
WT	9500.00C000	ATLI	54.3213725C	VA	369.8124542	AAAP	.0CC00000 00	VIR	-369.5883102
DVV	2.812336683	AMIS	114.3445301	FPVA	-88.00SC5256	AAAY	.00C00000 00	VIT	1343.482299

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RANG	4.465583622	RLAT	.00000000 00	AZVA	106.1016035	AAAT	.00000000 00	VAT	-12.87371051
LIFT	.6184047013								
DRG	10295.22070	C	61.77152347	MACH	.3711347431	SS	996.4371643	ADEN	.90334834-03
UL	26454.75024	DLL	11.89901745	PXG	8458686.875	VXG	-1340.647659	AXG	1.663936495
VL	-5927.870117	DVL	-4.534564733	PYG	-1194751.812	VYG	316.9071922	AYG	-.0872824043
WL	29469.45483	DWL	-369.5931510	PZG	-40022562.50	VZG	-209.2221107	AZG	-2.265598058
RDR02	WOOMERA	RGR	40142.01171	AZR	102.6299428	ELR	42.48298406	DRGR	-264.0553665
RLA1	14.66227388	RLA2	.00000000 00	LAP	-14.66227328	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DLR	-.00000000 00	DAZR	.67245673-04	DELR	.0064497690		

9 FEB. 1968 22 HR 14 MIN 22.97 SEC TMST 588000.0000 J.D. 2439896.4266 6 DAY 19 HR 20.0 MIN

GEOCENTRIC

ALT	28165.25000	R	20937005.00	VI	1388.737106	X	-6910814.562	VX	1360.629882
90 LTDM	-29.49651837	RASC	247.7519893	FPVI	-14.97161006	Y	-16893956.25	VY	-217.2550773
LONM	135.0831298	DECL	-29.33189868	AZVI	90.11367893	Z	-10256366.75	VZ	173.4281005
WT	9500.000000	ATLI	54.30797052	VA	358.9326629	AAAP	.00000000 00	VIR	-358.7669372
DVV	2.544694244	AMIS	114.3406009	FPVA	-88.25878524	AAAY	.00000000 00	VIT	1341.594955
RANG	4.465583622	RLAT	.00000000 00	AZVA	104.1251068	AAAT	.00000000 00	VAT	-10.90602612
LIFT	.6141673252								
DRG	10224.67663	C	61.34825754	MACH	.3579805605	SS	1002.659645	ADEN	.95237123-03
UL	26497.68774	DLL	10.12034618	PXG	8453336.750	VXG	-1334.500015	AXG	1.422224313
VL	-5944.160644	DVL	-3.596259862	PYG	-1193485.000	VYG	316.5373611	AYG	-.0966287404
WL	28012.88623	DWL	-358.7719306	PZG	-40023417.00	VZG	-217.9552268	AZG	-2.107939660
RDR02	WOOMERA	RGR	39111.75830	AZR	102.6436748	ELR	43.97334766	DRGR	-250.7918720
RLA1	13.54115641	RLA2	.00000000 00	LAP	-13.54115593	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DLR	-.00000000 00	DAZR	.47644260-04	DELR	.0065652115		

9 FEB. 1968 22 HR 14 MIN 26.97 SEC TMST 588004.0000 J.D. 2439896.4267 6 DAY 19 HR 20.1 MIN

GEOCENTRIC

ALT	26750.25000	R	20935590.00	VI	1384.855239	X	-6905381.500	VX	1355.993148

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90	LTDM	-29.49654340	RASC	247.7688255	FPVI	-14.58816528	Y	-16894840.50	VY	-224.6960906
	LONM	135.0832519	DECL	-29.33192396	AZVI	90.08329105	Z	-10255681.62	VZ	169.1693325
	WT	9500.000000	ATLI	54.29458665	VA	348.9317092	AAAP	.00000000 00	VIR	-348.8027915
	DVV	2.334615916	AMIS	114.3366823	FPVA	-88.44244003	AAAY	.00000000 00	VIT	1340.209182
	RANG	4.485274970	RLAT	.00000000 00	AZVA	101.8513698	AAAT	.00000000 00	VAT	-9.484207630
	LIFT	.6107774526								
	DRG	10168.24194	G	61.00964832	MACH	.3459312655	SS	1008.673522	ADEN	.0010021844
	UL	26534.25024	DUL	8.838531613	PXG	8448009.750	VXG	-1329.190795	AXG	1.239803999
	VL	-5956.984863	DVL	-2.855727970	PYG	-1192219.562	VYG	316.1417655	AYG	-.1002353877
	WL	26598.00976	DWL	-348.8080520	PZG	-40024305.50	VZG	-226.1198272	AZG	-1.975669562
	RDR02	WOOMERA	RGR	38133.62402	AZR	102.6531763	ELR	45.49116754	DRGR	-237.9249820
	RLA1	12.48227477	RLA2	.00000000 00	LAP	-12.48227429	LAY	-.00000000 00	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.31267216-04	DELR	.0066931437		

9 FEB. 1968 22 HR 14 MIN 30.97 SEC TMST 588008.0000 J.D. 2439896.4267 6 DAY 19 HR 20.1 MIN

	GEOCENTRIC									
	ALT	25373.50000	R	20934213.25	VI	1381.564041	X	-6899965.750	VX	1351.958923
90	LTDM	-29.49656152	RASC	247.7856483	FPVI	-14.22822189	Y	-16895753.00	VY	-231.6274604
	LONM	135.0833740	DECL	-29.33194231	AZVI	90.05852031	Z	-10255013.00	VZ	165.1514301
	WT	9500.000000	ATLI	54.28121614	VA	339.6728477	AAAP	.00000000 00	VIR	-339.5675697
	DVV	2.154830962	AMIS	114.3327751	FPVA	-88.57342720	AAAY	.00000000 00	VIT	1339.183731
	RANG	4.504915058	RLAT	.00000000 00	AZVA	99.30524253	AAAT	.00000000 00	VAT	-8.456286907
	LIFT	.6078155562								
	DRG	10118.93225	G	60.71378946	MACH	.3348198905	SS	1014.494224	ADEN	.0010524359
	UL	26573.56274	DUL	7.913024961	PXG	8442702.500	VXG	-1324.528915	AXG	1.096787706
	VL	-5967.071289	DVL	-2.250636875	PYG	-1190955.812	VYG	315.7413597	AYG	-.0993877426
	WL	25221.50390	DWL	-339.5732002	PZG	-40025225.00	VZG	-233.7728519	AZG	-1.852154195
	RDR02	WOOMERA	RGR	37211.30859	AZR	102.6557636	ELR	47.04662513	DRGR	-225.3743896
	RLA1	11.51007163	RLA2	.00000000 00	LAP	-11.51007139	LAY	-.00000000 00	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.16973105-04	DELR	.0068294681		

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9 FEB. 1968 22 HR 14 MIN 34.97 SEC TMST 588012.0000 J.D. 2439896.4268 6 DAY 19 HR 20.2 MIN

GEOCENTRIC

ALT	24032.75000	R	20932872.50	VI	1378.729980	X	-6894565.187	VX	1348.393524
90 LTDM	-29.49657368	RASC	247.8024616	FPVI	-13.88995170	Y	-16896692.75	VY	-238.0986213
LONM	135.0834655	DECL	-29.33195424	AZVI	90.03754329	Z	-10254360.12	VZ	161.3701915
WT	9500.000000	ATLI	54.26785612	VA	331.0647315	AAAP	.00000000 00	VIR	-330.9749145
DVV	2.000534683	AMIS	114.3288736	FPVA	-88.66534614	AAAY	.00000000 00	VIT	1338.413970
RANG	4.485274970	RLAT	.00000000 00	AZVA	96.52626419	AAAT	.00000000 00	VAT	-7.711218476
LIFT	.6052406058								
DRG	10076.06445	Q	60.45658206	MACH	.3245307207	SS	1020.133712	ADEN	.0011031835
UL	26596.12524	DUL	7.239944517	PXG	8437412.750	VXG	-1320.376632	AXG	.9844764098
VL	-5975.120849	DVL	-1.736972644	PYG	-1189693.750	VYG	315.3500709	AYG	-.0960745662
WL	23880.60595	DWL	-330.9809913	PZG	-40026175.00	VZG	-240.9485969	AZG	-1.738883212
RDR02	WOOMERA	RGR	36328.72070	AZR	102.6618833	ELR	48.62021255	DRGR	-213.2080307
RLA1	10.66805863	RLA2	.00000000 00	LAP	-10.66805815	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	.39530031-05	DELR	.0069716450		

9 FEB. 1968 22 HR 14 MIN 38.97 SEC TMST 588016.0000 J.D. 2439896.4268 6 DAY 19 HR 20.3 MIN

GEOCENTRIC

ALT	22725.00000	R	20931564.75	VI	1376.247192	X	-6889178.187	VX	1345.189971
90 LTDM	-29.49658060	RASC	247.8192634	FPVI	-13.57092761	Y	-16897657.25	VY	-244.1660537
LONM	135.0835571	DECL	-29.33196163	AZVI	90.01907920	Z	-10253721.75	VZ	157.8075065
WT	9500.000000	ATLI	54.25450372	VA	323.0144424	AAAP	.00000000 00	VIR	-322.9349212
DVV	1.867457628	AMIS	114.3249797	FPVA	-88.72859764	AAAY	.00000000 00	VIT	1337.822616
RANG	4.504915058	RLAT	.00000000 00	AZVA	93.56252574	AAAT	.00000000 00	VAT	-7.167022466
LIFT	.6030033231								
DRG	10038.81811	Q	60.23310275	MACH	.3149495870	SS	1025.606811	ADEN	.0011545728
UL	26616.00024	DUL	6.742218077	PXG	8432138.875	VXG	-1316.622222	AXG	.8958434984
VL	-5981.152465	DVL	-1.284715503	PYG	-1188433.000	VYG	314.9741821	AYG	-.0917493775
WL	22572.74169	DWL	-322.9415092	PZG	-40027152.50	VZG	-247.6963558	AZG	-1.635984227

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RDR02	WOOMERA	RGR	35493.65332	AZR	102.6650924	ELR	50.22667217	DRGR	-201.3301200
RLA1	9.996569156	RLA2	.00000000 00	LAP	-9.996568560	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.82400827-05	DELR	.0071166368		

9 FEB. 1968 22 HR 14 MIN 42.97 SEC TMST 588020.0000 J.D. 2439896.4269 6 DAY 19 HR 20.3 MIN

GEOCENTRIC

ALT	21448.50000	R	20930288.25	VI	1374.040054	X	-6883803.312	VX	1342.273956
90 LTDM	-29.49658393	RASC	247.8360652	FPVI	-13.26976013	Y	-16898645.50	VY	-249.8619632
LONM	135.0836486	DECL	-29.33196449	AZVI	90.00237369	Z	-10253097.37	VZ	154.4528579
WT	9500.000000	ATLI	54.24115562	VA	315.4643516	AAAP	.00000000 00	VIR	-315.3918037
DVV	1.747276932	AMIS	114.3210916	FPVA	-88.77115631	AAAY	.00000000 00	VIT	1337.353378
RANG	4.48527497C	RLAT	.00000000 00	AZVA	90.46406936	AAAT	.00000000 00	VAT	-6.765173912
LIFT	.6009714380								
DRG	10004.99121	Q	60.03014135	MACH	.3060018942	SS	1030.922866	ADEN	.0012064207
UL	26648.00024	DUL	6.363586485	PXG	8426879.375	VXG	-1313.188690	AXG	.8233617022
VL	-5985.469238	DVL	-.8743971363	PYG	-1187173.875	VYG	314.6165084	AYG	-.0871214717
WL	21296.35986	DWL	-315.3989486	PZG	-40028156.00	VZG	-254.0432510	AZG	-1.538655906
RDR02	WOOMERA	RGR	34716.26025	AZR	102.6592102	ELR	51.87991619	DRGR	-189.6640453
RLA1	9.550223112	RLA2	.00000000 00	LAP	-9.550222635	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.19824641-04	DELR	.0072611898		

9 FEB. 1968 22 HR 14 MIN 46.97 SEC TMST 588024.0000 J.D. 2439896.4269 6 DAY 19 HR 20.4 MIN

GEOCENTRIC

ALT	20201.50000	R	20929041.25	VI	1372.052078	X	-6878439.687	VX	1339.590820
90 LTDM	-29.49658226	RASC	247.8528614	FPVI	-12.98526573	Y	-16899656.00	VY	-255.2122783
LONM	135.0837402	DECL	-29.33196282	AZVI	89.98684787	Z	-10252485.87	VZ	151.2945499
WT	9500.000000	ATLI	54.22781372	VA	308.3685569	AAAP	.00000000 00	VIR	-308.3007965
DVV	1.639023378	AMIS	114.3172092	FPVA	-88.79885482	AAAY	.00000000 00	VIT	1336.965774
RANG	4.504915058	RLAT	.00000000 00	AZVA	87.27834320	AAAT	.00000000 00	VAT	-6.464143872
LIFT	.5991370007								
DRG	9974.451416	Q	59.84690141	MACH	.2976269014	SS	1036.091003	ADEN	.0012587268

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UL	26671.75024	DUL	6.06414800E	PXG	8421633.125	VXG	-1310.019165	AXG	.7634897083
VL	-5988.075683	DVL	-.4941328540	PYG	-1185916.000	VYG	314.2767066	AYG	-.0829288512
WL	20049.16503	DWL	-308.308525C	PZG	-40029184.00	VZG	-260.0130691	AZG	-1.447965413
RDRO2	WOOMERA	RGR	33979.62841	AZR	102.6536302	ELR	53.55933761	DRGR	-178.2851352
RLA1	9.379777431	RLA2	.00000000 00	LAP	-9.379777073	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.30958097-04	DELR	.0074045706		

9 FEB. 1968 22 HR 14 MIN 50.97 SEC TMST 588028.0000 J.D. 2439896.4270 6 DAY 19 HR 20.5 MIN

GEOCENTRIC

	ALT	18981.75000	R	20927821.50	VI	1370.237838	X	-6873086.375	VX	1337.095626
90	LTDM	-29.49657678	RASC	247.8696498	FPVI	-12.71582603	Y	-16900686.50	VY	-260.2501869
	LONM	135.0838317	DECL	-29.33195757	AZVI	89.97230815	Z	-10251886.75	VZ	148.3132743
	WT	9500.000000	ATLI	54.21447610	VA	301.6752357	AAAP	.00000000 00	VIR	-301.6108360
	DVV	1.543788850	AMIS	114.3133306	FPVA	-88.81606674	AAAY	.00000000 00	VIT	1336.631072
	RANG	4.504915058	RLAT	.00000000 00	AZVA	84.04728031	AAAT	.00000000 00	VAT	-6.233102142
	LIFT	.5975246802								
	DRG	9947.609497	G	59.68584966	MACH	.2897596620	SS	1041.122253	ADEN	.0013116623
	UL	26701.25024	DUL	5.815109312	PXG	8416399.000	VXG	-1307.065887	AXG	.7143131941
	VL	-5989.398132	DVL	-.1372240614	PYG	-1184659.687	VYG	313.9516639	AYG	-.0797116905
	WL	18829.38842	DWL	-301.6191444	PZG	-40030235.50	VZG	-265.6404075	AZG	-1.366267427
	RDRO2	WOOMERA	RGR	33293.45996	AZR	102.6428012	ELR	55.27802562	DRGR	-167.1123046
	RLA1	9.520429015	RLA2	.00000000 00	LAP	-9.520428657	LAY	-.00000000 00	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.41618108-04	DELR	.0075437506		

9 FEB. 1968 22 HR 14 MIN 54.97 SEC TMST 588032.0000 J.D. 2439896.4270 6 DAY 19 HR 20.5 MIN

GEOCENTRIC

	ALT	17788.00000	R	20926627.75	VI	1368.564910	X	-6867742.687	VX	1334.757324
90	LTDM	-29.49656772	RASC	247.3864421	FPVI	-12.46030330	Y	-16901737.50	VY	-264.9985313
	LONM	135.0838928	DECL	-29.33194828	AZVI	89.95856952	Z	-10251299.12	VZ	145.4941730
	WT	9500.000000	ATLI	54.20114135	VA	295.3479118	AAAP	.00000000 00	VIR	-295.2859191
	DVV	1.455864444	AMIS	114.3094568	FPVA	-88.82603836	AAAY	.00000000 00	VIT	1336.329345

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RANG	4.543938875	RLAT	.00000000 00	AZVA	80.80611324	AAAT	.00000000 00	VAT	-6.051052331
LIFT	.5960361138								
DRG	9922.827758	G	59.53715848	MACH	.2823530845	SS	1046.023315	ADEN *	.0013650554
UL	26723.25024	DUL	5.596923828	PXG	8411176.250	VXG	-1304.295745	AXG	.6717547625
VL	-5989.166809	DVL	.1996213328	PYG	-1183404.437	VYG	313.6378479	AYG	-.0773522183
WL	17635.72851	DWL	-295.2947998	PZG	-4003139.00	VZG	-270.9497947	AZG	-1.289303466
RDR02	WOOMERA	RGR	32646.27465	AZR	102.6322555	ELR	57.02158117	DRGR	-156.1909294
RLA1	9.970558881	RLA2	.00000000 00	LAP	-9.970558404	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.51807006-04	DELR	.0076782005		

9 FEB. 1968 22 HR 14 MIN 58.97 SEC TMST 588036.0000 J.D. 2439896.4271 6 DAY 19 HR 20.6 MIN

GEOCENTRIC									
ALT	16618.75000	R	20925458.50	VI	1367.009750	X	-6862408.062	VX	1332.553909
90 LTDM	-29.49655580	RASC	247.9032268	FPVI	-12.21780395	Y	-16902806.25	VY	-269.4751052
LONM	135.0839538	DECL	-29.33193683	AZVI	89.94558334	Z	-10250722.62	VZ	142.8246326
WT	9500.000000	ATLI	54.18780899	VA	289.3584861	AAAP	.00000000 00	VIR	-289.2982597
DVV	1.374656781	AMIS	114.3055877	FPVA	-88.83102989	AAAY	.00000000 00	VIT	1336.047225
RANG	4.524452626	RLAT	.00000000 00	AZVA	77.58368587	AAAT	.00000000 00	VAT	-5.903438508
LIFT	.5946625694								
DRG	9899.960937	G	59.39995765	MACH	.2753692306	SS	1050.801803	ADEN	.0014188735
UL	26737.18774	DUL	5.396362304	PXG	8405964.250	VXG	-1301.685195	AXG	.6342958659
VL	-5987.916442	DVL	.5176278427	PYG	-1182150.625	VYG	313.3316841	AYG	-.0758749172
WL	16466.47729	DWL	-289.3076934	PZG	-4003242.50	VZG	-275.9610404	AZG	-1.217207044
RDR02	WOOMERA	RGR	32036.24633	AZR	102.6233301	ELR	58.78906488	DRGR	-145.5094146
RLA1	10.70166242	RLA2	.00000000 00	LAP	-10.70166194	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.61477051-04	DELR	.0078069377		

9 FEB. 1968 22 HR 15 MIN 2.97 SEC TMST 588040.0000 J.D. 2439896.4271 6 DAY 19 HR 20.7 MIN

GEOCENTRIC									
ALT	15473.25000	R	20924313.00	VI	1365.553665	X	-6857082.125	VX	1330.467407

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90	LTDM	-29.49654006	RASC	247.9200077	FPVI	-11.98728656	Y	-16903893.00	VY	-273.7005119
	LONM	135.0840454	DECL	-29.33192110	AZVI	89.93336677	Z	-10250156.37	VZ	140.2901878
	WT	9500.000000	ATLI	54.17448135	VA	283.6770935	AAAP	.00000000 00	VIR	-283.6182136
	DVV	1.302323162	AMIS	114.3017215	FPVA	-88.83268547	AAAY	.00000000 00	VIT	1335.775985
	RANG	4.543938875	RLAT	.00000000 00	AZVA	74.40262985	AAAT	.00000000 00	VAT	-5.779476106
	LIFT	.5934434533								
	DRG	9879.665039	G	59.27818155	MACH	.2687705159	SS	1055.462097	ADEN	.0014732496
	UL	26764.25024	DUL	5.204544067	PXG	8400762.625	VXG	-1299.214431	AXG	.6019100100
	VL	-5985.131408	DVL	.8169452026	PYG	-1180897.750	VYG	313.0295181	AYG	-.0753727667
	WL	15320.76916	DWL	-283.6281623	PZG	-40033516.00	VZG	-280.6976051	AZG	-1.152418702
	RDR02	WOOMERA	RGR	31480.29150	AZR	102.6052970	ELR	60.59713983	DRGR	-134.9769248
	RLA1	11.68920695	RLA2	.00000000 00	LAP	-11.68920660	LAY	-.00000000 00	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.70484561-04	DELR	.0079255892		

9 FEB. 1968 22 HR 15 MIN 6.97 SEC TMST 588044.0000 J.D. 2439896.4272 6 DAY 19 HR 20.7 MIN

	GEOCENTRIC									
	ALT	14349.75000	R	20923189.50	VI	1364.181579	X	-6851764.187	VX	1328.482543
90	LTDM	-29.49652171	RASC	247.9367904	FPVI	-11.76760387	Y	-16904995.50	VY	-277.6975631
	LONM	135.0841064	DECL	-29.33190274	AZVI	89.92191982	Z	-10249600.12	VZ	137.8752384
	WT	9500.000000	ATLI	54.16115570	VA	278.2725105	AAAP	.00000000 00	VIR	-278.2147140
	DVV	1.235417872	AMIS	114.2978601	FPVA	-88.83213996	AAAY	.00000000 00	VIT	1335.510360
	RANG	4.543938875	RLAT	.00000000 00	AZVA	71.28108406	AAAT	.00000000 00	VAT	-5.671250879
	LIFT	.5923182741								
	DRG	9860.933105	G	59.16578960	MACH	.2625181116	SS	1060.012603	ADEN	.0015281291
	UL	26783.62524	DUL	5.016601562	PXG	8395570.500	VXG	-1296.866134	AXG	.5725867748
	VL	-5981.332458	DVL	1.097231030	PYG	-1179646.312	VYG	312.7278404	AYG	-.0755505524
	WL	14197.17517	DWL	-278.2251167	PZG	-40034648.00	VZG	-285.1856498	AZG	-1.092105209
	RDR02	WOOMERA	RGR	30960.17749	AZR	102.5887289	ELR	62.42538833	DRGR	-124.6634426
	RLA1	12.87087321	RLA2	.00000000 00	LAP	-12.87087297	LAY	-.00000000 00	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.78861583-04	DELR	.0080353821		

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9 FEB. 1968 22 HR 15 MIN 10.97 SEC TMST 588048.0000 J.D. 2439896.4272 6 DAY 19 HR 20.8 MIN

	GEOCENTRIC									
	ALT	13247.25000	R	20922087.00	VI	1362.884033	X	-6846454.125	VX	1326.590759
	LTDM	-29.49650025	RASC	247.9535694	FPVI	-11.55812835	Y	-16906114.00	VY	-281.4789962
90	LONM	135.0841674	DECL	-29.33188080	AZVI	89.91128635	Z	-10249053.25	VZ	135.5707435
	WT	9500.000000	ATLI	54.14783191	VA	273.1271095	AAAP	.00000000 00	VIR	-273.0701942
	DVV	1.172877043	AMIS	114.2940025	FPVA	-88.83029747	AAAY	.00000000 00	VIT	1335.247360
	RANG	4.543938875	RLAT	.00000000 00	AZVA	68.23284053	AAAT	.00000000 00	VAT	-5.575564026
	LIFT	.5912686065								
	DRG	9843.458251	C	59.06093978	MACH	.2565378406	SS	1064.458496	ADEN	.0015834368
	UL	26802.37524	DUL	4.829528808	PXG	8390387.625	VXG	-1294.630569	AXG	.5454633385
	VL	-5976.344238	DVL	1.358007550	PYG	-1178396.000	VYG	312.4244194	AYG	-.0762212202
	WL	13094.73474	DWL	-273.0810279	PZG	-40035797.50	VZG	-289.4399414	AZG	-1.035519495
	RDR02	WOOMERA	RGR	30481.03735	AZR	102.5700445	ELR	64.27757358	DRGR	-114.5399608
	RLA1	14.21113562	RLA2	.00000000 00	LAP	-14.21113514	LAY	-.00000000 00	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.86543010-04	DELR	.0081341794		

9 FEB. 1968 22 HR 15 MIN 14.97 SEC TMST 588052.0000 J.D. 2439896.4272 6 DAY 19 HR 20.9 MIN

	GEOCENTRIC									
	ALT	12164.75000	R	20921004.50	VI	1361.653671	X	-6841151.375	VX	1324.785171
	LTDM	-29.49647593	RASC	247.9703426	FPVI	-11.35823535	Y	-16907247.25	VY	-285.0576705
90	LONM	135.0842285	DECL	-29.33185744	AZVI	89.90149116	Z	-10248515.37	VZ	133.3681278
	WT	9500.000000	ATLI	54.13451099	VA	268.2239875	AAAP	.00000000 00	VIR	-268.1678390
	DVV	1.114992916	AMIS	114.2901496	FPVA	-88.82768630	AAAY	.00000000 00	VIT	1334.985656
	RANG	4.524452626	RLAT	.00000000 00	AZVA	65.26885414	AAAT	.00000000 00	VAT	-5.488001823
	LIFT	.5902999490								
	DRG	9827.331909	C	58.96418190	MACH	.2509569153	SS	1068.804916	ADEN	.0016391664
	UL	26827.06274	DUL	4.642089843	PXG	8385213.312	VXG	-1292.499740	AXG	.5203862637
	VL	-5970.455688	DVL	1.598946690	PYG	-1177146.875	VYG	312.1175537	AYG	-.0772824436
	WL	12012.17517	DWL	-268.1790504	PZG	-40036963.00	VZG	-293.4752655	AZG	-.9830741212

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RDR02 WOOMERA        RGR    30047.90478  AZR    102.5468616  ELR    66.15648269  DRGR  -104.5819320
RLA1   15.68144226   RLA2  .00000000 00  LAP   -15.68144166  LAY  -.00000000 00  LAPP  .00000000 00
DPR  -.00000000 00   DGR  -.00000000 00  DAZR -.93481882-04  DELR   .0082196092

 9 FEB.   1968 22 HR 15 MIN 18.97 SEC TMST  588056.0000  J.D. 2439896.4273    6 DAY 19 HR 20.9 MIN
GEOCENTRIC
ALT    11101.50000  R      20919941.25  VI     1360.483078  X     -6835855.687  VX     1323.057540
90 LTDM  -29.49644994  RASC   247.9871177  FPVI  -11.16699028  Y     -16908394.25  VY    -288.4527244
LONM   135.0842895   DECL  -29.33183097  AZVI   89.89250183  Z     -10247986.12  VZ     131.2554950

WT     9500.000000   ATLI   54.12119340  VA     263.5390930  AAAP  .00000000 00  VIR   -263.4836425
DVV    1.063460037   AMIS   114.2862987  FPVA  -88.82468414  AAAY  .00000000 00  VIT    1334.724899
RANG   4.524452626   RLAT  .00000000 00  AZVA   62.39700222  AAAT  .00000000 00  VAT   -5.405888736

LIFT   .5894427076
DRG    9813.060546   Q      58.87855335  MACH   .2455968018  SS     1073.055877  ADEN   .0016954970

UL     26844.12524   DUL    4.454132080  PXG    8380047.437  VXG   -1290.463562  AXG    .4978787266
VL    -5963.586425   DVL    1.819964513  PYG   -1175899.000  VYG    311.8055610  AYG   -.0787375495
WL     10948.87683   DWL   -263.4951591  PZG   -40038145.00  VZG   -297.3133735  AZG   -.9364103749

RDR02 WOOMERA        RGR    29648.10473  AZR    102.5251684  ELR    68.04814910  DRGR  -94.83486938
RLA1   17.24220442   RLA2  .00000000 00  LAP   -17.24220371  LAY  -.00000000 00  LAPP  .00000000 00
DPR  -.00000000 00   DGR  -.00000000 00  DAZR -.99736524-04  DELR   .0082929153

 9 FEB.   1968 22 HR 15 MIN 22.97 SEC TMST  588060.0000  J.D. 2439896.4273    6 DAY 19 HR 21.0 MIN
GEOCENTRIC
ALT    10056.50000  R      20918896.50  VI     1359.367294  X     -6830566.875  VX     1321.402465
90 LTDM  -29.49642133  RASC   248.0038890  FPVI  -10.98374176  Y     -16909554.75  VY    -291.6777725
LONM   135.0843811   DECL  -29.33180236  AZVI   89.88432502  Z     -10247465.25  VZ     129.2247314

WT     9500.000000   ATLI   54.10787725  VA     259.0556716  AAAP  .00000000 00  VIR   -259.0008735
DVV    1.014402806   AMIS   114.2824535  FPVA  -88.82151603  AAAY  .00000000 00  VIT    1334.465423
RANG   4.582603693   RLAT  .00000000 00  AZVA   59.62322044  AAAT  .00000000 00  VAT   -5.328102111

LIFT   .5886281207
DRG    9799.499145   Q      58.79718494  MACH   .2404862065  SS     1077.216339  ADEN   .0017522671
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UL	26867.50024	DUL	4.265899658	PXG	8374889.562	VXG	-1288.515487	AXG	.4762800336
VL	-5955.887817	DVL	2.021179318	PYG	-1174652.500	VYG	311.4875679	AYG	-.0802558586
WL	9904.063720	DWL	-259.0126609	PZG	-40039341.50	VZG	-300.9696121	AZG	-.8920366466
RDRO2 WOOMERA		RGR	29293.43945	AZR	102.4989671	ELR	69.95938396	DRGR	-85.25837898
RLA1	18.88408112	RLA2	.00000000 00	LAP	-18.88408041	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.10525222-03	DELR	.0083502226		

9 FEB. 1968 22 HR 15 MIN 26.97 SEC TMST 588064.0000 J.D. 2439896.4274 6 DAY 19 HR 21.1 MIN

GEOCENTRIC									
ALT	9029.000000	R	20917869.00	VI	1358.303222	X	-6825284.437	VX	1319.817108
90 LTDM	-29.49639058	RASC	248.0206584	FPVI	-10.80809974	Y	-16910727.50	VY	-294.7414665
LONM	135.0844116	DECL	-29.33177208	AZVI	89.87697601	Z	-10246952.25	VZ	127.2711563
WT	9500.000000	ATLI	54.09456348	VA	254.7634773	AAAP	.00000000 00	VIR	-254.7093029
DVV	.9680655300	AMIS	114.2786102	FPVA	-88.81838417	AAAY	.00000000 00	VIT	1334.207931
RANG	4.563271284	RLAT	.00000000 00	AZVA	56.95200347	AAAT	.00000000 00	VAT	-5.253625988
LIFT	.5878607109								
DRG	9786.723266	Q	58.72052907	MACH	.2356106490	SS	1081.290161	ADEN	.0018094459
UL	26883.31274	DUL	4.078414917	PXG	8369739.187	VXG	-1286.651840	AXG	.4556412920
VL	-5947.416809	DVL	2.203011631	PYG	-1173407.062	VYG	311.1634750	AYG	-.0817750953
WL	8876.619140	DWL	-254.7212963	PZG	-40040552.50	VZG	-304.4535446	AZG	-.8502086252
RDRO2 WOOMERA		RGR	28970.37158	AZR	102.4746351	ELR	71.87794113	DRGR	-75.89676761
RLA1	20.57911300	RLA2	.00000000 00	LAP	-20.57911205	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.11012001-03	DELR	.0083939796		

9 FEB. 1968 22 HR 15 MIN 30.97 SEC TMST 588068.0000 J.D. 2439896.4274 6 DAY 19 HR 21.1 MIN

GEOCENTRIC									
ALT	8018.500000	R	20916858.50	VI	1357.288162	X	-6820008.187	VX	1318.298629
90 LTDM	-29.49635815	RASC	248.0374259	FPVI	-10.63966083	Y	-16911912.50	VY	-297.6528282
LONM	135.0844726	DECL	-29.33173966	AZVI	89.87040901	Z	-10246447.00	VZ	125.3901805
WT	9500.000000	ATLI	54.08125257	VA	250.6520385	AAAP	.00000000 00	VIR	-250.5984687
DVV	.9249192700	AMIS	114.2747707	FPVA	-88.81538581	AAAY	.00000000 00	VIT	1333.953353

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RANG	4.563271284	RLAT	.00000000 00	AZVA	54.38603734	AAAT	.00000000 00	VAT	-5.181896448
LIFT	.5871489346								
DRG	9774.873657	G	58.64943075	MACH	.2309560627	SS	1085.280181	ADEN	.0018670301
UL	26884.43774	DUL	3.892700165	PXG	8364596.187	VXG	-1284.868957	AXG	.4361379370
VL	-5938.310546	DVL	2.366088032	PYG	-1172163.125	VYG	310.8334274	AYG	-.0832633339
WL	7866.046447	DWL	-250.6106338	PZG	-40041777.00	VZG	-307.7750320	AZG	-.8113732487
RDR02	WOOMERA	RGR	28671.29907	AZR	102.4556264	ELR	73.79708099	DRGR	-66.77035045
RLA1	22.30977368	RLA2	.00000000 00	LAP	-22.30977249	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.114410C2-03	DELR	.0084256558		

9 FEB. 1968 22 HR 15 MIN 34.97 SEC TMST 588072.0000 J.D. 2439896.4275 6 DAY 19 HR 21.2 MIN

GEOCENTRIC									
ALT	7024.000000	R	20915864.00	VI	1356.318161	X	-6814737.875	VX	1316.841674
90 LTDM	-29.49632453	RASC	248.0541915	FPVI	-10.47769069	Y	-16913108.50	VY	-300.4272651
LONM	135.0845336	DECL	-29.33170580	AZVI	89.86457920	Z	-10245949.12	VZ	123.5735397
WT	9500.000000	ATLI	54.06794357	VA	246.7030735	AAAP	.00000000 00	VIR	-246.6501045
DVV	.8863451779	AMIS	114.2709331	FPVA	-88.81266212	AAAY	.00000000 00	VIT	1333.702621
RANG	4.543938875	RLAT	.00000000 00	AZVA	51.92668581	AAAT	.00000000 00	VAT	-5.111978530
LIFT	.5865174979								
DRG	9764.361572	G	58.58635854	MACH	.2265011705	SS	1089.191162	ADEN	.0019252068
UL	26905.43774	DUL	3.709304779	PXG	8359460.125	VXG	-1283.160079	AXG	.4183413647
VL	-5928.611755	DVL	2.511242002	PYG	-1170920.500	VYG	310.4972801	AYG	-.0847744792
WL	6871.508178	DWL	-246.6624031	PZG	-40043014.50	VZG	-310.9510536	AZG	-.7767956778
RDR02	WOOMERA	RGR	28427.68872	AZR	102.4265117	ELR	75.73267173	DRGR	-57.80209922
RLA1	24.08887314	RLA2	.00000000 00	LAP	-24.08887219	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.11798556-03	DELR	.0084359302		

9 FEB. 1968 22 HR 15 MIN 38.97 SEC TMST 588076.0000 J.D. 2439896.4275 6 DAY 19 HR 21.3 MIN

GEOCENTRIC									
ALT	6045.250000	R	20914885.25	VI	1355.390960	X	-6809473.375	VX	1315.443511

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90	LTDM	-29.49628949	RASC	248.0709514	FPVI	-10.32179260	Y	-16914315.75	VY	-303.0736236
	LONM	135.0845642	DECL	-29.33167076	AZVI	89.85946941	Z	-10245458.37	VZ	121.8170938
	WT	9500.000000	ATLI	54.05463790	VA	242.9065246	AAAP	.00000000 00	VIR	-242.8541526
	DVV	.8489990160	AMIS	114.2671003	FPVA	-88.81015205	AAAY	.00000000 00	VIT	1333.456604
	RANG	4.543938875	RLAT	.00000000 00	AZVA	49.57509422	AAAT	.00000000 00	VAT	-5.043850660
	LIFT	.5859069451								
	DRG	9754.197021	Q	58.52537107	MACH	.2222333122	SS	1093.024810	ADEN	.0019837905
	UL	26918.81274	DUL	3.529617249	PXG	8354330.812	VXG	-1281.521667	AXG	.4009249061
	VL	-5918.348754	DVL	2.639412969	PYG	-1169679.187	VYG	310.1554946	AYG	-.0860784687
	WL	5852.445922	DWL	-242.8665351	PZG	-40044264.50	VZG	-313.9911079	AZG	-.7434036881
	RDRO2	WOOMERA	RGR	28212.97460	AZR	102.3996934	ELR	77.66545486	DRGR	-49.06697559
	RLA1	25.88779973	RLA2	.00000000 00	LAP	-25.88779902	LAY	-.00000000 00	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.12102866-03	DELR	.0084314317		

9 FEB. 1968 22 HR 15 MIN 42.97 SEC TMST 588080.0000 J.D. 2439896.4276 6 DAY 19 HR 21.3 MIN

	GEOCENTRIC								
	ALT	5081.000000	R	20913921.00	VI	1354.504959	X	-6804214.250	VX	1314.102355
90	LTDM	-29.49625277	RASC	248.0877094	FPVI	-10.17170047	Y	-16915533.00	VY	-305.5981750
	LONM	135.0845947	DECL	-29.33163452	AZVI	89.85503673	Z	-10244974.50	VZ	120.1183843
	WT	9500.000000	ATLI	54.04133176	VA	239.2555046	AAAP	.00000000 00	VIR	-239.2037239
	DVV	.8137718662	AMIS	114.2632694	FPVA	-88.80789184	AAAY	.00000000 00	VIT	1333.216125
	RANG	4.543938875	RLAT	.00000000 00	AZVA	47.33065748	AAAT	.00000000 00	VAT	-4.977439343
	LIFT	.5853331759								
	DRG	9744.645019	Q	58.46805906	MACH	.2181422245	SS	1096.786758	ADEN	.0020427950
	UL	26931.68774	DUL	3.354293763	PXG	8349207.875	VXG	-1279.951324	AXG	.3842690587
	VL	-5907.550048	DVL	2.751656621	PYG	-1168439.187	VYG	309.8088302	AYG	-.0872084014
	WL	4928.301513	DWL	-239.2161617	PZG	-40045526.00	VZG	-316.9017105	AZG	-.7120088562
	RDRO2	WOOMERA	RGR	28032.93872	AZR	102.3720321	ELR	79.59540081	DRGR	-40.55932569
	RLA1	27.70294904	RLA2	.00000000 00	LAP	-27.70294809	LAY	-.00000000 00	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.12354715-03	DELR	.0084103904		

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9 FEB. 1968 22 HR 15 MIN 46.97 SEC TMST 588084.0000 J.D. 2439896.4276 6 DAY 19 HR 21.4 MIN

GEOCENTRIC

	ALT	4131.250000	R	20912971.25	VI	1353.658508	X	-6798960.500	VX	1312.816223
90	LTDM	-29.49621486	RASC	248.1044673	FPVI	-10.02713298	Y	-16916760.25	VY	-308.0074577
	LONM	135.0846557	DECL	-29.33159708	AZVI	89.85121250	Z	-10244497.25	VZ	118.4748601
	WT	9500.000000	ATLI	54.02802896	VA	235.7428436	AAAP	.00000000 00	VIR	-235.6916503
	DVV	.7801489532	AMIS	114.2594404	FPVA	-88.80590248	AAAY	.00000000 00	VIT	1332.981918
	RANG	4.563271284	RLAT	.00000000 00	AZVA	45.19249343	AAAT	.00000000 00	VAT	-4.912665009
	LIFT	.5847871527								
	DRG	9735.554687	G	58.41351695	MACH	.2142186556	SS	1100.477645	ADEN	.0021021626
	UL	26950.56274	DUL	3.184127748	PXG	8344091.125	VXG	-1278.446533	AXG	.3681951277
	VL	-5896.367187	DVL	2.849093526	PYG	-1167200.750	VYG	309.4580802	AYG	-.0881268419
	WL	3978.299041	DWL	-235.7041187	PZG	-40046799.50	VZG	-319.6896247	AZG	-.6821278333
	RDR02	WCOMERA	RCR	27892.90307	AZR	102.3409471	ELR	81.52106094	DRGR	-32.27931118
	RLA1	29.53047204	RLA2	.00000000 00	LAP	-29.53047037	LAY	-.00000000 00	LAPP	.00000000 00
	DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.12555438-03	DELR	.0083711886		

9 FEB. 1968 22 HR 15 MIN 50.97 SEC TMST 588088.0000 J.D. 2439896.4276 6 DAY 19 HR 21.5 MIN

GEOCENTRIC

	ALT	3195.000000	R	20912035.25	VI	1352.848983	X	-6793711.750	VX	1311.581237
90	LTDM	-29.49617719	RASC	248.1212215	FPVI	-9.887578010	Y	-16917996.75	VY	-310.3124427
	LONM	135.0846862	DECL	-29.33155894	AZVI	89.84795856	Z	-10244026.62	VZ	116.8812627
	WT	9500.000000	ATLI	54.01472711	VA	232.3558082	AAAP	.00000000 00	VIR	-232.3052101
	DVV	.7511825412	AMIS	114.2556152	FPVA	-88.80424308	AAAY	.00000000 00	VIT	1332.754531
	RANG	4.563271284	RLAT	.00000000 00	AZVA	43.15913772	AAAT	.00000000 00	VAT	-4.848787725
	LIFT	.5843231976								
	DRG	9727.830688	G	58.36717271	MACH	.2104477696	SS	1104.102020	ADEN	.0021621787
	UL	26961.75024	DUL	3.019821107	PXG	8338980.250	VXG	-1277.002349	AXG	.3539658189
	VL	-5884.677001	DVL	2.932882398	PYG	-1165963.562	VYG	309.1036796	AYG	-.0890366137
	WL	3042.656097	DWL	-232.3176689	PZG	-40048083.50	VZG	-322.3666496	AZG	-.6565484479

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RDR02	WOOMERA	RGR	27778.74853	AZR	102.3122730	ELR	83.43272304	DRGR	-24.26041698
RLA1	31.35690307	RLA2	.00000000 00	LAP	-31.35690164	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.12716740-03	DELR	.0083178390		

9 FEB. 1968 22 HR 15 MIN 54.97 SEC TMST 588092.0000 J.D. 2439896.4277 6 DAY 19 HR 21.5 MIN

GEOCENTRIC									
ALT	2272.250000	R	20911112.50	VI	1352.074279	X	-6788467.812	VX	1310.394302
90 LTDM	-29.49613714	RASC	248.1379776	FPVI	-9.752645492	Y	-16919242.75	VY	-312.5215911
LONM	135.0847473	DECL	-29.33151936	AZVI	89.84522914	Z	-10243562.12	VZ	115.3337736
WT	9500.000000	ATLI	54.00142669	VA	229.0346672	AAAP	.00000000 00	VIR	-229.0346603
DVV	.7225883081	AMIS	114.2517919	FPVA	-88.30279159	AAAY	.00000000 00	VIT	1332.534408
RANG	4.563271284	RLAT	.00000000 00	AZVA	41.22855472	AAAT	.00000000 00	VAT	-4.786353468
LIFT	.5838650614								
DRG	9720.203735	Q	58.32141017	MACH	.2068184893	SS	1107.660476	ADEN	.0022226238
UL	26979.37524	DUL	2.861740052	PXG	8333875.000	VXG	-1275.614944	AXG	.3398839272
VL	-5872.782409	DVL	3.004135221	PYG	-1164727.812	VYG	308.7461853	AYG	-.0896850340
WL	2119.820770	DWL	-229.0470905	PZG	-40049378.00	VZG	-324.9417495	AZG	-.6313235089
RDR02	WOOMERA	RGR	27703.02465	AZR	102.2803592	ELR	85.33264255	DRGR	-16.48757743
RLA1	33.18291473	RLA2	.00000000 00	LAP	-33.18291282	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.12835663-03	DELR	.0082468644		

9 FEB. 1968 22 HR 15 MIN 58.97 SEC TMST 588096.0000 J.D. 2439896.4278 6 DAY 19 HR 21.6 MIN

GEOCENTRIC									
ALT	1362.500000	R	20910202.75	VI	1351.333419	X	-6783228.500	VX	1309.254516
90 LTDM	-29.49609684	RASC	248.1547279	FPVI	-9.622230529	Y	-16920497.00	VY	-314.6377868
LONM	135.0847778	DECL	-29.33147954	AZVI	89.84298801	Z	-10243103.87	VZ	113.8319721
WT	9500.000000	ATLI	53.98812818	VA	225.9265937	AAAP	.00000000 00	VIR	-225.8771705
DVV	.6949659735	AMIS	114.2479715	FPVA	-88.80152511	AAAY	.00000000 00	VIT	1332.321838
RANG	4.563271284	RLAT	.00000000 00	AZVA	39.39820051	AAAT	.00000000 00	VAT	-4.725419521
LIFT	.5834234878								
DRG	9712.852416	Q	58.27730274	MACH	.2033258043	SS	1111.155532	ADEN	.0022834669

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UL	26982.62524	DUL	2.710418641	PXG	8328775.187	VXG	-1274.283111	AXG	.3262100592
VL	-5860.792297	DVL	3.063967794	PYG	-1163493.625	VYG	308.3865547	AYG	-.0901116039
WL	1209.854660	DWL	-225.8895492	PZG	-40050683.00	VZG	-327.4175796	AZG	-.6069963649
RDR02 WOOMERA		RGR	27644.48901	AZR	102.2546138	ELR	87.21282100	DRGR	-8.988212585
RLA1	34.99614095	RLA2	.00000000 00	LAP	-34.99614000	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.12927290-03	DELR	.0081650811		

9 FEB. 1968 22 HR 16 MIN 2.97 SEC TMST 588100.0000 J.D. 2439896.4278 6 DAY 19 HR 21.7 MIN

GEOCENTRIC

ALT	465.2500000	R	20909305.50	VI	1350.625122	X	-6777993.687	VX	1308.160217
90 LTDM	-29.49605727	RASC	248.1714763	FPVI	-9.496147155	Y	-16921759.50	VY	-316.6655006
LONM	135.0848083	DECL	-29.33143997	AZVI	89.84116840	Z	-10242651.50	VZ	112.3744201
WT	9500.000000	ATLI	53.97483110	VA	222.8767185	AAAP	.00000000 00	VIR	-222.8278789
DVV	.6684485227	AMIS	114.2441520	FPVA	-88.80050659	AAAY	.00000000 00	VIT	1332.117095
RANG	4.543938875	RLAT	.00000000 00	AZVA	37.66538429	AAAT	.00000000 00	VAT	-4.665626049
LIFT	.5830008387								
DRG	9705.816040	G	58.23508453	MACH	.1999630257	SS	1114.589645	ADEN	.0023446893
UL	26992.18774	DUL	2.565902650	PXG	8323680.625	VXG	-1273.004821	AXG	.3130192756
VL	-5848.380187	DVL	3.113473027	PYG	-1162260.875	VYG	308.0255851	AYG	-.0903421491
WL	312.5731811	DWL	-222.8401947	PZG	-40051997.50	VZG	-329.7985992	AZG	-.5836785435
RDR02 WOOMERA		RGR	27622.11694	AZR	102.2252397	ELR	89.07282829	DRGR	-1.757702440
RLA1	36.79890155	RLA2	.00000000 00	LAP	-36.79889965	LAY	-.00000000 00	LAPP	.00000000 00
DPR	-.00000000 00	DGR	-.00000000 00	DAZR	-.12984816-03	DELR	.0080674818		

9 FEB. 1968 22 HR 16 MIN 5.06 SEC TMST 588102.0937 J.D. 2439896.4278 6 DAY 19 HR 21.7 MIN

GEOCENTRIC

ALT	-.2500000000	R	20908840.00	VI	1350.266494	X	-6775252.187	VX	1307.604385
90 LTDM	-29.49603581	RASC	248.1802520	FPVI	-9.431744575	Y	-16922424.50	VY	-317.6941261
LONM	135.0848693	DECL	-29.33141803	AZVI	89.84036350	Z	-10242416.75	VZ	111.6278553
WT	9500.000000	ATLI	53.96786260	VA	221.3201904	AAAP	.00000000 00	VIR	-221.2716579
DVV	.6551947966	AMIS	114.2421531	FPVA	-88.80005645	AAAY	.00000000 00	VIT	1332.012924

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RANG	4.563271284	RLAT	.00000000 0C	AZVA	36.795C6587	AAAT	.0CC00000 00	VAT	-4.634649992		
LIFT	.5827904939										
DRG	9702.314331	C	58.21407413	MACH	.1982SC5210	SS	1116.366241	ADEN	.0023769274		
			PRIMARY	PHASE CUTCFF	----	ALTITUCE			-.2500C0000		

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