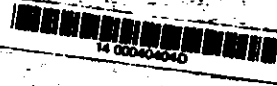


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24 Pages
(Including Cover Sheet)



CORONA "J" FLIGHT DATA BOOK

SYSTEM NO. J-22

VEHICLE NO. 1617

MISSION NO. 1022-2

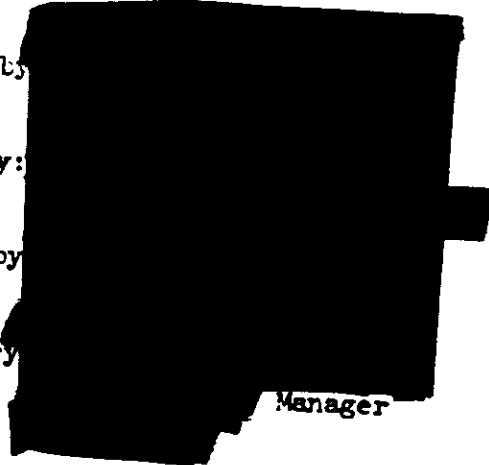
CAMERA NOS. 168 & 169

Prepared by

Checked by:

Approved by

Approved by



Manager

Declassified and Released by the N R O

In Accordance with E. O. 12958

on NOV 26 1997



TOP SECRET
NO.
SYSTEM NO.
VEHICLE NO. 1617
MISSION NO. 1022-2
CAMERA NOS. 168 & 169

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TOP SECRET
TOP SECRET

NO.

SYSTEM NO. J-22
VEHICLE NO. 1617
MISSION NO. 1022-2
CAMERA NOS. 168 & 169

~~TOP SECRET~~

NO. [REDACTED]

GENERAL FLIGHT DATA:

Master Camera Serial No. 168

Slave Camera Serial No. 169

Stellar Index "A" Serial No. D65/77/70

Stellar Index "B" Serial No. D24/24/24

Launch Date 7/19/65

Reactivation Date NONE

Reactivation Orbit No. NONE

Orbital Parameters: (Rev. 103)

Period 90.726 Min.

Eccentricity 0.0212

Perigee 101.63 NM

Perigee Latitude 47.79 Deg. N

Apogee 254.69 NM

Inclination Angle 85.05 Deg.

Recovery Orbit No. 144 (SECOND REC.)

Recovery Date 7/28/65

REMARKS:

~~TOP SECRET~~

NO. _____

SYSTEM NO. T-2
 VEHICLE NO. 1617
 MISSION NO. 1022-1
 CAMERA NOS. 168 & 169

100-100000-1
 101

NO. [REDACTED]

CYCLE PERIOD DATA:

PRE-FLIGHT CYCLE PERIODS:

V/H Ramp Level	V/H Ramp Amplitude	Cycle Period Seconds		Time Up Ramp Sec
		Master	Slave	
7	3	4.454	4.457	365
7	3	2.199	2.199	1905
7	3	2.201	2.201	2018
7	3	2.207	2.207	2142
7	3	2.200	2.200	1982

IN-FLIGHT CYCLE PERIODS

V/H Ramp Level	V/H Ramp Amplitude	Cycle Period Seconds		Orbit No.	Time Up Ramp Sec
		Master	Slave		
7	3	4.490	4.537	72	365
7	3	2.240	2.249	79	1905
7	3	2.250	2.250	94	2018
7	3	2.255	2.263	110	2142
7	3	2.258	2.268	126	1982

TOP SECRET [REDACTED]

NO. _____

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CONTROL NO. [REDACTED]

- A. 1022-2, LAUNCH 2201Z, 7/19/65
- B. DRY
- C. FINAL PERFORMANCE ESTIMATE, PART 1

OPERATIONS SUMMARY

FWD PAN CAMERA NUMBER 168

OPN	NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM
63	5	1	4 ON	2 37 39	120 55W	611163	633388	23	21	37	17	1333	77837
			OFF	2 34 04	120 39W	608384	630505	23	21	38	09	1335	77889
65	0	0	4 CUT/WRAP										02060
67	3	1	39 ON	2 72 44	137 30E	724106	750586	24	03	32	29	1242	12749
			OFF	2 66 07	141 59E	691415	716659	24	03	34	09	1302	12849
67	3	2	21 UN	2 46 22	146 50E	624337	647056	24	03	39	01	1326	13141
			OFF	2 43 07	147 11E	618094	640579	24	03	39	49	1328	13189
69	4	1	20 ON	2 81 37	072 36E	774708	803110	24	06	32	00	1122	23520
			OFF	2 78 12	083 51E	752453	780008	24	06	32	58	1208	23578
69	4	2	39 ON	2 75 42	088 19E	737832	764833	24	06	33	38	1226	23618
			OFF	2 69 03	094 41E	703108	728793	24	06	35	20	1254	23720
69	4	3	42 ON	2 57 50	099 08E	656010	679919	24	06	38	08	1314	23888
			OFF	2 51 05	100 29E	634913	658030	24	06	39	48	1321	23988
69	4	4	54 ON	2 42 16	101 35E	616330	638749	24	06	41	57	1328	24117
			OFF	2 34 00	102 14E	608857	630996	24	06	43	58	1332	24238
70	5	1	79 UN	2 73 22	068 20E	723742	750208	24	08	05	13	1238	29113
			OFF	2 60 16	075 38E	664188	688406	24	08	08	30	1311	29310
70	5	2	89 ON	2 56 55	076 30E	652142	675906	24	08	09	20	1315	29360
			OFF	2 43 16	078 38E	617677	640147	24	08	12	41	1327	29561
71	4	1	114 ON	2 59 59	052 52E	662333	686481	24	09	39	32	1311	34772
			OFF	2 42 18	055 53E	616014	638422	24	09	43	52	1327	35032
72	4	0	10 ON	1 38 51	132 18W	1163105	1206550	24	10	50	23	0201	39023
			OFF	1 41 50	132 03W	1141770	1184376	24	10	51	09	0202	39069
75	7	1	34 ON	2 69 03	042 24W	696666	722108	24	15	41	06	1251	56466
			OFF	2 63 28	039 39W	672510	697042	24	15	42	30	1303	56550
79	7	0	15 ON	2 37 56	126 30W	610915	633131	24	21	52	35	1326	78755
			OFF	2 35 31	126 19W	610044	632227	24	21	53	10	1327	78790
83	6	1	22 ON	2 72 55	131 46E	706110	731910	25	03	47	44	1234	13664
			OFF	2 69 17	134 41E	689270	714433	25	03	48	39	1247	13719
83	6	2	43 UN	2 50 55	140 39E	628043	650901	25	03	53	12	1315	13992
			OFF	2 44 14	141 32E	616296	638714	25	03	54	50	1320	14090
85	7	1	29 ON	2 57 54	093 35E	645221	668725	25	06	53	23	1307	24803
			OFF	2 53 14	094 34E	632515	655542	25	06	54	32	1312	24872
85	7	2	116 UN	2 44 54	095 46E	616755	639190	25	06	56	34	1319	24994
			OFF	2 27 15	097 05E	615842	638242	25	07	00	52	1329	25252
86	7	1	95 ON	2 51 52	071 58E	628841	651730	25	08	25	48	1313	30348
			OFF	2 37 12	073 38E	610792	633003	25	08	29	23	1323	30563
87	5	1	68 UN	2 64 49	045 39E	667241	691574	25	09	53	33	1256	35613
			OFF	2 54 08	048 43E	633723	656794	25	09	56	11	1311	35771
87	5	2	24 ON	2 50 22	049 22E	625276	648031	25	09	57	07	1314	35827
			OFF	2 46 38	049 53E	618754	641265	25	09	58	02	1317	35882
89	5	1	76 ON	2 53 05	026 04E	630729	653689	25	11	27	23	1311	41243
			OFF	2 41 24	027 36E	612752	635037	25	11	30	14	1320	41414
94	4	1	21 UN	2 33 16	108 49W	613537	635851	25	20	37	50	1322	74270
			OFF	2 29 58	108 38W	616498	638923	25	20	38	38	1324	74318

~~TOP SECRET~~

CONTROL NO. [REDACTED]

~~TOP SECRET~~

- CONTROL NO.

97	5	1	35	ON	2	69	44	174	35E	678082	702824	26	01	01	40	1240	03700
				OFF	2	64	00	177	33E	657057	681006	26	01	03	06	1253	03786
98	5	1	52	ON	2	76	40	144	19E	707612	733468	26	02	30	49	1208	09049
				OFF	2	68	01	152	49E	670477	694932	26	02	33	02	1244	09182
99	5	1	90	ON	2	54	39	134	31E	630165	653104	26	04	07	15	1305	14835
				OFF	2	40	55	136	23E	613229	635532	26	04	10	36	1316	15036
100	3	1	82	ON	2	60	48	110	09E	645015	668511	26	05	36	40	1257	20200
				OFF	2	48	04	112	45E	618687	641194	26	05	39	47	1310	20387
100	3	2	24	ON	2	41	16	113	31E	613369	635677	26	05	41	27	1315	20487
				OFF	2	37	30	113	50E	613208	635510	26	05	42	22	1317	20542
101	4	1	46	ON	2	74	23	079	02E	693684	719014	26	07	04	11	1220	25451
				OFF	2	66	44	084	59E	663270	687453	26	07	06	07	1246	25567
101	4	2	43	ON	2	57	29	088	13E	635702	658848	26	07	08	25	1301	25705
				OFF	2	50	43	089	32E	622186	644825	26	07	10	05	1308	25805
101	4	3	87	ON	2	41	55	090	37E	613614	635932	26	07	12	13	1314	25933
				OFF	2	28	38	091	33E	621446	644056	26	07	15	27	1321	26127
102	2	1	56	ON	2	52	42	066	22E	625187	647939	26	08	40	31	1306	31231
				OFF	2	43	56	067	34E	614596	636950	26	08	42	39	1312	31359
103	3	1	61	ON	2	70	39	036	53E	676073	700739	26	10	06	59	1234	36419
				OFF	2	60	51	041	37E	643302	666733	26	10	09	26	1255	36566
103	3	2	57	ON	2	49	36	044	01E	620050	642609	26	10	12	11	1308	36731
				OFF	2	40	48	045	02E	613417	635726	26	10	14	20	1314	36860
104	5	1	77	ON	2	49	31	021	12E	619714	642260	26	11	43	08	1307	42188
				OFF	2	37	40	022	27E	613843	636169	26	11	46	01	1315	42361
110	8	1	23	ON	2	37	45	114	33W	615042	637412	26	20	51	30	1313	75090
				OFF	2	34	05	114	18W	617920	640398	26	20	52	24	1315	75144
110	8	2	30	ON	2	29	45	114	02W	623859	646560	26	20	53	27	1317	75207
				OFF	2	25	01	113	48W	633503	656566	26	20	54	36	1319	75276
115	8	1	79	ON	2	76	39	116	07E	688860	714008	27	04	16	26	1200	15386
				OFF	2	63	58	126	30E	644580	668060	27	04	19	39	1245	15579
115	8	2	24	ON	2	53	09	129	24E	622112	644748	27	04	22	18	1259	15738
				OFF	2	49	29	130	00E	617827	640303	27	04	23	12	1303	15792
115	8	3	51	ON	2	45	39	130	30E	615243	637622	27	04	24	08	1306	15848
				OFF	2	37	53	131	14E	616193	638607	27	04	26	01	1311	15961
116	4	1	37	ON	2	54	39	106	17E	624055	646764	27	05	52	50	1258	21170
				OFF	2	48	50	107	15E	617144	639593	27	05	54	15	1303	21255
116	4	2	170	ON	2	43	06	107	56E	614730	637090	27	05	55	40	1307	21340
				OFF	2	16	41	109	29E	663927	688133	27	06	02	06	1320	21726
116	1	1	19	ON	2	74	34	050	35E	677351	702065	27	08	49	41	1212	31781
				OFF	2	71	25	053	45E	665660	689933	27	08	50	29	1225	31829
116	1	2	154	ON	2	59	34	059	27E	632356	655377	27	08	53	26	1251	32006
				OFF	2	35	47	062	54E	618955	641472	27	08	59	15	1310	32355
119	6	1	109	ON	2	59	35	036	37E	631953	654959	27	10	24	20	1250	37460
				OFF	2	42	51	039	28E	615089	637461	27	10	28	26	1306	37706
125	4	1	21	ON	2	49	50	098	22W	617442	639903	27	19	32	07	1258	70327
				OFF	2	46	34	097	05W	616042	638451	27	19	32	55	1301	70375
125	4	2	20	ON	2	32	12	096	41W	627254	650082	27	19	36	25	1309	70585
				OFF	2	28	54	096	00W	633944	657023	27	19	37	13	1311	70633
126	4	0	17	ON	2	42	32	120	19W	616531	638957	27	21	04	47	1303	75887
				OFF	2	39	32	120	02W	618268	640759	27	21	05	31	1305	75931
131	6	1	63	ON	2	53	43	123	09E	620299	642867	28	04	36	31	1252	16591
				OFF	2	44	01	125	22E	617262	639716	28	04	38	53	1300	16733
131	6	2	15	ON	3	08	14	127	40E	823637	853900	28	04	51	39	1322	17499
				OFF	3	11	26	127	46E	847426	878600	28	04	52	26	1323	17546

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- CONTROL NO.

~~TOP SECRET~~

CONTROL NO. [REDACTED]

132	3	1	70	ON	2	60	35	099	31E	629405	652315	28	06	05	43	1243	21943
				OFF	2	49	45	101	49E	617626	640094	28	06	08	22	1255	22102
132	3	2	94	ON	2	33	28	103	24E	629037	651932	28	06	12	20	1306	22340
				OFF	2	18	37	104	06E	671896	696402	28	06	15	57	1312	22557
134	9	1	70	ON	2	59	30	054	11E	627027	649848	28	09	07	45	1244	32865
				OFF	2	48	41	056	19E	617500	639963	28	09	10	24	1255	33024
135	6	1	77	ON	2	54	25	032	32E	620647	643228	28	10	39	53	1250	38393
				OFF	2	42	39	034	11E	619119	641642	28	10	42	46	1259	38566
135	6	2	41	ON	2	05	04	036	01E	742002	769157	28	10	51	55	1316	39115
				OFF	3	02	41	036	13E	790951	819967	28	10	53	49	1318	39229
136	5	1	56	ON	2	28	13	012	23E	643774	667223	28	12	17	09	1306	44229
				OFF	2	19	26	012	46E	672934	697479	28	12	19	18	1310	44358
137	7	1	42	UN	2	77	24	027	30W	671577	696074	28	13	35	54	1145	48954
				OFF	2	70	52	019	35W	650531	674235	28	13	37	35	1219	49055

OPERATIONS SUMMARY

AFT PAN CAMERA NUMBER 169

OPN	NO	FRA	G	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM				
63	5	1	5	ON	2	38	33	121	02W	611163	633388	23	21	37	17	1333	77837
				OFF	2	34	57	120	46W	608384	630505	23	21	38	09	1335	77889
65	0	0	4	CUT/WRAP													02060
67	3	1	38	ON	2	73	45	136	24E	724106	750586	24	03	32	29	1238	12749
				OFF	2	67	07	141	26E	691415	716659	24	03	34	09	1259	12849
67	3	2	21	ON	2	47	17	146	40E	624337	647056	24	03	39	01	1325	13141
				OFF	2	44	01	147	02E	616094	640579	24	03	39	49	1328	13189
69	4	1	20	UN	2	82	30	067	25E	774708	803110	24	06	32	00	1101	23520
				OFF	2	79	12	081	21E	752453	780008	24	06	32	58	1158	23578
69	4	2	38	ON	2	76	43	086	39E	737832	764833	24	06	33	38	1220	23618
				OFF	2	70	03	093	57E	703108	728793	24	06	35	20	1251	23720
69	4	3	42	ON	2	58	47	098	50E	656010	679919	24	06	38	08	1313	23888
				OFF	2	52	00	100	16E	634913	658030	24	06	39	48	1320	23988
69	4	4	54	ON	2	43	10	101	26E	616330	638749	24	06	41	57	1327	24117
				OFF	2	34	53	102	07E	608857	630996	24	06	43	58	1332	24238
70	5	1	79	UN	2	74	22	067	08E	723742	750208	24	08	05	13	1233	29113
				OFF	2	61	13	075	17E	664188	688406	24	08	08	30	1309	29310
70	5	2	88	UN	2	57	52	076	13E	652142	675906	24	08	09	20	1314	29360
				OFF	2	44	10	078	29E	617677	640147	24	08	12	41	1326	29561
71	4	1	113	ON	2	60	56	052	31E	662333	686481	24	09	39	32	1309	34772
				OFF	2	43	12	055	44E	616014	638422	24	09	43	52	1326	35032
72	4	0	10	UN	1	37	09	132	33W	1163105	1206550	24	10	50	23	0200	39023
				OFF	1	40	10	132	18W	1141770	1184376	24	10	51	09	0201	39069
75	7	1	33	ON	2	70	03	043	07W	696666	722108	24	15	41	06	1248	56466
				OFF	2	64	26	040	06W	672510	697042	24	15	42	30	1302	56550
79	7	0	15	UN	2	38	50	126	37W	610915	633131	24	21	52	35	1326	78755
				OFF	2	36	24	126	26W	610044	632227	24	21	53	10	1327	78790
83	6	1	21	ON	2	73	55	130	40E	706110	731910	25	03	47	44	1230	13664
				OFF	2	70	16	133	57E	689270	714433	25	03	48	39	1244	13719
83	6	2	43	UN	2	51	50	140	07E	628043	650901	25	03	53	12	1315	13992
				OFF	2	45	08	141	22E	616296	638714	25	03	54	50	1320	14090
85	7	1	29	ON	2	58	50	093	17E	645221	668725	25	06	53	23	1306	24803
				OFF	2	54	10	094	21E	632515	655542	25	06	54	32	1311	24872
85	7	2	114	UN	2	45	48	095	36E	616755	639190	25	06	56	34	1319	24994
				OFF	2	28	09	096	59E	615842	638242	25	07	00	52	1328	25252
86	7	1	95	UN	2	52	47	071	42E	628841	651730	25	08	25	48	1312	30348

~~TOP SECRET~~

CONTROL NO. [REDACTED]

~~TOP SECRET~~

- CONTROL NO.

			OFF	2	38	05	073	30E	610792	633003	25	08	29	23	1323	30563
87	5	1	68 ON	2	65	47	045	10E	667241	691574	25	09	53	33	1254	35613
			OFF	2	55	03	048	29E	633723	656794	25	09	56	11	1310	35771
87	5	2	24 ON	2	51	16	049	10E	625276	648031	25	09	57	07	1313	35827
			OFF	2	47	32	049	42E	618754	641265	25	09	58	02	1316	35882
88	5	1	75 ON	2	54	00	025	51E	630729	653689	25	11	27	23	1310	41243
			OFF	2	42	18	027	27E	612752	635037	25	11	30	14	1320	41414
94	4	1	21 ON	2	34	10	108	56W	613537	635851	25	20	37	50	1322	74270
			OFF	2	30	52	108	44W	616498	638923	25	20	38	38	1323	74318
97	5	1	35 ON	2	70	42	173	50E	678082	702824	26	01	01	40	1237	03700
			OFF	2	64	57	177	06E	657057	681006	26	01	03	06	1251	03786
98	5	1	52 ON	2	77	37	142	30E	707612	733468	26	02	30	49	1200	09049
			OFF	2	68	58	152	11E	670477	694932	26	02	33	02	1241	09182
99	5	1	89 UN	2	55	34	134	16E	630165	653104	26	04	07	15	1304	14835
			OFF	2	41	48	136	15E	613229	635532	26	04	10	36	1315	15036
100	3	1	82 ON	2	61	44	109	48E	645015	668511	26	05	36	40	1255	20200
			OFF	2	48	58	112	34E	618687	641194	26	05	39	47	1310	20387
100	3	2	24 UN	2	42	10	113	22E	613369	635677	26	05	41	27	1314	20487
			OFF	2	38	24	113	42E	613208	635510	26	05	42	22	1317	20542
101	4	1	46 ON	2	75	21	077	44E	693684	719014	26	07	04	11	1215	25451
			OFF	2	67	41	084	25E	663270	687453	26	07	06	07	1243	25567
101	4	2	43 UN	2	58	25	087	56E	635702	658848	26	07	08	25	1300	25705
			OFF	2	51	38	089	20E	622186	644825	26	07	10	05	1307	25805
101	4	3	87 UN	2	42	49	090	28E	613614	635932	26	07	12	13	1314	25933
			OFF	2	29	32	091	26E	621446	644056	26	07	15	27	1321	26127
102	2	1	56 ON	2	53	37	066	09E	625187	647939	26	08	40	31	1305	31231
			OFF	2	44	50	067	25E	614596	636950	26	08	42	39	1312	31359
103	3	1	61 UN	2	71	37	036	04E	676073	700739	26	10	06	59	1231	36419
			OFF	2	61	47	041	16E	643302	666733	26	10	09	26	1254	36566
103	3	2	57 ON	2	50	31	043	50E	620050	642609	26	10	12	11	1307	36731
			OFF	2	41	42	044	54E	613417	635726	26	10	14	20	1313	36860
104	5	1	77 UN	2	50	25	021	00E	619714	642260	26	11	43	08	1307	42188
			OFF	2	38	34	022	20E	613843	636169	26	11	46	01	1315	42361
110	8	1	23 ON	2	38	39	114	41W	615042	637412	26	20	51	30	1312	75090
			OFF	2	35	00	114	25W	617920	640398	26	20	52	24	1314	75144
110	8	2	30 ON	2	30	40	114	09W	623859	646560	26	20	53	27	1316	75207
			OFF	2	25	56	113	54W	633503	656566	26	20	54	36	1318	75276
115	6	1	76 ON	2	77	35	114	21E	688860	714008	27	04	16	26	1153	15386
			OFF	2	64	54	126	03E	644580	668060	27	04	19	39	1243	15579
115	8	2	23 ON	2	54	04	129	11E	622112	644748	27	04	22	18	1259	15738
			OFF	2	50	23	129	48E	617827	640303	27	04	23	12	1302	15792
115	8	3	50 ON	2	46	33	130	20E	615243	637622	27	04	24	08	1305	15848
			OFF	2	38	47	131	07E	616193	638607	27	04	26	01	1310	15961
116	4	1	37 UN	2	55	33	106	03E	624055	646764	27	05	52	50	1257	21170
			OFF	2	49	44	107	04E	617144	639593	27	05	54	15	1302	21255
116	4	2	170 UN	2	44	00	107	48E	614730	637090	27	05	55	40	1306	21340
			OFF	2	17	39	109	24E	663927	688133	27	06	02	06	1319	21726
118	1	1	19 UN	2	75	30	049	18E	677351	702065	27	08	49	41	1206	31781
			OFF	2	72	21	052	52E	665660	689933	27	08	50	29	1222	31829
118	1	2	154 UN	2	60	29	059	08E	632356	655377	27	08	53	26	1250	32006
			OFF	2	36	41	062	46E	618955	641472	27	08	59	15	1310	32355
119	6	1	108 UN	2	60	30	036	18E	631953	654959	27	10	24	20	1249	37460
			OFF	2	43	45	039	19E	615089	637461	27	10	28	26	1305	37706
125	4	1	21 UN	2	50	44	098	33E	617442	639903	27	19	32	07	1257	70327

~~TOP SECRET~~

- CONTROL NO.

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

		OFF	2	47	28	098	05W	616042	638451	27	19	32	55	1300	70375		
125	4	2	20	ON	2	33	07	096	48W	627254	650082	27	19	36	25	1309	70585
		OFF	2	29	50	096	36W	633944	657023	27	19	37	13	1310	70633		
126	4	0	19	ON	2	42	29	120	22W	616947	639389	27	21	05	01	1303	75901
		OFF	2	39	32	120	05W	619026	641546	27	21	05	44	1305	75944		
131	6	1	63	ON	2	54	37	123	45E	620299	642867	28	04	36	31	1251	16591
		OFF	2	44	55	125	13E	617262	639716	28	04	38	53	1259	16733		
131	6	2	15	ON	3	07	02	127	34E	823637	853900	28	04	51	39	1321	17499
		OFF	3	10	12	127	39E	847426	878600	28	04	52	26	1323	17546		
132	3	1	70	ON	2	61	30	099	11E	629405	652315	28	06	05	43	1242	21943
		OFF	2	50	39	101	37E	617626	640094	28	06	08	22	1254	22102		
132	3	2	92	ON	2	34	23	103	18E	629037	651932	28	06	12	20	1305	22340
		OFF	2	19	36	104	01E	671896	696402	28	06	15	57	1312	22557		
134	9	1	70	UN	2	60	24	053	51E	627027	649848	28	09	07	45	1243	32865
		OFF	2	49	35	056	08E	617500	639963	28	09	10	24	1254	33024		
135	6	1	77	UN	2	55	20	032	18E	620647	643228	28	10	39	53	1249	38393
		OFF	2	43	33	034	02E	619119	641642	28	10	42	46	1258	38566		
135	6	2	41	ON	2	06	09	035	55E	742002	769157	28	10	51	55	1315	39115
		OFF	3	01	31	036	07E	790951	819967	28	10	53	49	1318	39229		
136	5	1	55	ON	2	29	09	012	17E	643774	667223	28	12	17	09	1306	44229
		OFF	2	20	25	012	40E	672934	697479	28	12	19	18	1310	44358		
137	7	1	42	UN	2	78	18	029	26W	671577	696074	28	13	35	54	1138	48954
		OFF	2	71	47	020	24W	650531	674235	28	13	37	35	1215	49055		

PHOTOGRAPHIC SUMMARY

FWD PAN CAMERA		NC	168	C.2500	SLIT	W/25	FILTER	3404 FILM				
UPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI			
63	5	1	4	10.6	DN 273	64.1	59.4	11.94	12.10	11.50	10.90	
					CFF 274	65.7	66.3	11.95	12.10	11.50	10.90	
65	0	0	4	10.6	CUT/WRAP							
67	3	1	39	103.2	DN 229	36.9	28.1	11.69	12.05	11.45	10.85	
					CFF 241	42.9	30.6	11.76	12.08	11.48	10.88	
67	3	2	21	55.5	CN 267	58.9	45.8	11.92	12.10	11.50	10.90	
					CFF 270	61.1	50.0	11.93	12.10	11.50	10.90	
69	4	1	20	52.9	DN 209	29.1	27.1	11.56	11.95	11.35	10.75	
					LFF 217	31.7	26.8	11.62	12.00	11.40	10.80	
69	4	2	39	103.2	DN 223	34.1	27.1	11.65	12.02	11.42	10.82	
					CFF 236	40.3	29.1	11.74	12.07	11.47	10.87	
69	4	3	42	111.1	DN 255	50.0	35.0	11.85	12.10	11.50	10.90	
					CFF 263	55.5	40.4	11.89	12.10	11.50	10.90	
69	4	4	54	142.8	DN 271	61.7	50.8	11.93	12.10	11.50	10.90	
					LFF 273	66.2	65.3	11.95	12.10	11.50	10.90	
70	5	1	79	209.0	DN 228	36.3	27.6	11.69	12.04	11.44	10.84	
					LFF 251	48.0	33.3	11.83	12.10	11.50	10.90	
70	5	2	89	235.4	DN 256	50.8	35.5	11.86	12.10	11.50	10.90	
					CFF 270	61.1	49.2	11.93	12.10	11.50	10.90	
71	4	1	114	301.5	CN 253	48.3	33.3	11.84	12.10	11.50	10.90	
					LFF 271	61.8	50.4	11.93	12.10	11.50	10.90	
72	4	0	10	26.5	DN 129	-25.4	23.8	10.87	0.	0.	0.	
					LFF 131	-22.6	23.3	10.89	0.	0.	0.	
75	7	1	34	89.9	CN 234	40.3	28.3	11.75	12.07	11.47	10.87	
					LFF 246	45.3	30.8	11.81	12.09	11.49	10.89	
77	7	0	15	39.7	CN 272	64.8	55.8	11.94	12.10	11.50	10.90	
					LFF 273	66.1	60.3	11.94	12.10	11.50	10.90	

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

~~TOP SECRET~~

CONTROL NO.

83	6	1	22	58.2	ON	234	36.6	26.0	11.73	12.04	11.44	10.84
					OFF	241	40.0	27.2	11.76	12.07	11.47	10.87
83	6	2	43	113.7	ON	266	55.9	38.1	11.91	12.10	11.50	10.90
					OFF	270	61.0	45.4	11.93	12.10	11.50	10.90
85	7	1	29	76.7	ON	259	50.2	32.4	11.87	12.10	11.50	10.90
					CFF	264	54.1	35.8	11.90	12.10	11.50	10.90
85	7	2	116	306.8	ON	270	60.6	44.2	11.93	12.10	11.50	10.90
					CFF	270	69.6	78.3	11.93	12.10	11.50	10.90
86	7	1	95	251.3	ON	266	55.2	36.7	11.91	12.10	11.50	10.90
					CFF	273	65.6	55.6	11.94	12.10	11.50	10.90
87	5	1	68	179.9	ON	250	44.1	28.4	11.82	12.09	11.49	10.89
					CFF	263	53.4	34.7	11.89	12.10	11.50	10.90
87	5	2	24	63.5	ON	267	56.4	37.9	11.91	12.10	11.50	10.90
					CFF	270	59.3	41.7	11.93	12.10	11.50	10.90
88	5	1	76	201.0	ON	263	54.2	35.4	11.89	12.10	11.50	10.90
					CFF	271	63.1	48.3	11.93	12.10	11.50	10.90
94	4	1	21	55.5	ON	271	68.2	61.9	11.93	12.10	11.50	10.90
					CFF	270	69.5	69.7	11.93	12.10	11.50	10.90
97	5	1	35	92.6	ON	243	39.5	25.1	11.78	12.06	11.46	10.86
					CFF	251	44.8	27.3	11.83	12.09	11.49	10.89
98	5	1	52	137.5	ON	230	32.8	23.4	11.70	12.01	11.41	10.81
					CFF	245	41.1	25.6	11.79	12.07	11.47	10.87
99	5	1	90	238.0	ON	263	53.1	32.3	11.89	12.10	11.50	10.90
					CFF	271	63.9	46.7	11.94	12.10	11.50	10.90
100	3	1	82	216.9	ON	257	47.7	28.4	11.86	12.10	11.50	10.90
					CFF	268	58.6	37.7	11.92	12.10	11.50	10.90
100	3	2	24	63.5	ON	271	63.7	45.9	11.94	12.10	11.50	10.90
					CFF	271	66.2	52.0	11.94	12.10	11.50	10.90
101	4	1	46	121.7	ON	236	35.0	23.4	11.73	12.03	11.43	10.83
					CFF	248	42.3	25.6	11.81	12.08	11.48	10.88
101	4	2	43	113.7	ON	261	50.6	30.1	11.88	12.10	11.50	10.90
					CFF	267	56.4	35.0	11.91	12.10	11.50	10.90
101	4	3	87	230.1	ON	271	63.3	44.8	11.93	12.10	11.50	10.90
					CFF	269	70.5	71.8	11.92	12.10	11.50	10.90
102	2	1	50	148.1	ON	265	54.8	33.2	11.90	12.10	11.50	10.90
					CFF	270	61.8	41.9	11.93	12.10	11.50	10.90
103	5	1	51	161.3	ON	242	38.6	24.1	11.77	12.06	11.46	10.86
					CFF	257	47.7	27.9	11.86	12.10	11.50	10.90
103	5	2	57	150.8	ON	267	57.4	35.6	11.92	12.10	11.50	10.90
					CFF	271	64.1	46.0	11.93	12.10	11.50	10.90
104	5	1	77	203.7	ON	268	57.5	35.5	11.92	12.10	11.50	10.90
					CFF	271	66.3	50.9	11.93	12.10	11.50	10.90
110	8	1	23	60.8	ON	270	66.5	49.3	11.93	12.10	11.50	10.90
					CFF	270	68.7	56.5	11.93	12.10	11.50	10.90
110	8	2	30	79.3	ON	267	70.8	66.9	11.92	12.10	11.50	10.90
					CFF	264	72.2	80.6	11.90	12.10	11.50	10.90
115	8	1	79	209.0	ON	237	32.6	21.3	11.74	12.01	11.41	10.81
					CFF	256	44.8	24.7	11.86	12.09	11.49	10.89
115	8	2	24	63.5	ON	267	54.6	30.6	11.91	12.10	11.50	10.90
					CFF	269	57.7	33.5	11.92	12.10	11.50	10.90
115	8	3	51	134.9	ON	270	60.9	37.2	11.93	12.10	11.50	10.90
					CFF	270	66.0	47.9	11.93	12.10	11.50	10.90
116	4	1	37	97.9	ON	264	53.3	29.4	11.90	12.10	11.50	10.90
					CFF	267	58.3	33.9	11.92	12.10	11.50	10.90

~~TOP SECRET~~

CONTROL NO.

~~TOP SECRET~~

CONTROL NO. [REDACTED]

116	4	2	170	449.7	ON	269	62.9	40.0	11.92	12.10	11.50	10.90
					OFF	252	72.3	106.3	11.83	12.10	11.50	10.90
118	1	1	19	50.3	ON	240	34.7	21.2	11.76	12.03	11.43	10.83
					OFF	245	37.7	21.9	11.79	12.05	11.45	10.85
118	1	2	154	407.3	ON	260	48.8	26.2	11.88	12.10	11.50	10.90
					OFF	268	68.2	51.1	11.92	12.10	11.50	10.90
119	6	1	109	288.3	ON	260	48.8	26.1	11.88	12.10	11.50	10.90
					CFF	269	63.2	39.7	11.92	12.10	11.50	10.90
125	4	1	21	55.5	ON	268	57.6	31.3	11.92	12.10	11.50	10.90
					CFF	269	60.3	34.2	11.92	12.10	11.50	10.90
125	4	2	20	52.9	ON	265	70.7	57.2	11.90	12.10	11.50	10.90
					CFF	263	72.3	65.8	11.89	12.10	11.50	10.90
126	4	0	19	50.3	ON	269	63.6	38.5	11.92	12.10	11.50	10.90
					CFF	268	65.9	42.7	11.92	12.10	11.50	10.90
131	6	1	63	166.6	ON	267	54.2	27.4	11.91	12.10	11.50	10.90
					CFF	269	62.6	35.7	11.92	12.10	11.50	10.90
131	6	2	15	39.7	ON	200	56.9	150.6	11.49	12.10	11.50	10.90
					CFF	193	54.0	152.8	11.45	12.10	11.50	10.90
132	3	1	70	185.1	ON	262	47.9	23.6	11.89	12.10	11.50	10.90
					CFF	268	57.7	30.0	11.92	12.10	11.50	10.90
132	3	2	94	248.6	ON	265	70.3	52.4	11.90	12.10	11.50	10.90
					CFF	249	74.3	99.4	11.82	12.10	11.50	10.90
134	9	1	70	185.1	ON	263	48.9	23.8	11.89	12.10	11.50	10.90
					CFF	269	58.7	30.5	11.92	12.10	11.50	10.90
135	6	1	77	203.7	ON	267	53.6	26.3	11.91	12.10	11.50	10.90
					CFF	269	63.8	36.4	11.92	12.10	11.50	10.90
135	6	2	41	108.4	ON	226	68.0	135.7	11.67	12.10	11.50	10.90
					CFF	211	61.9	146.2	11.57	12.10	11.50	10.90
136	5	1	56	148.1	ON	260	73.4	65.2	11.88	12.10	11.50	10.90
					OFF	250	74.8	96.2	11.82	12.10	11.50	10.90
137	7	1	42	111.1	ON	241	31.5	18.6	11.77	11.99	11.39	10.79
					CFF	251	38.1	19.6	11.83	12.05	11.45	10.85

PHOTOGRAPHIC SUMMARY

AFT PAN	CAMERA	NO	169	C.1750	SLIT	W/21	FILTER	3404	FILM			
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI			
63	5	1	5	13.2	ON	389	63.6	57.7	12.46	12.75	12.15	11.55
					CFF	390	65.4	64.4	12.46	12.75	12.15	11.55
65	0	0	4	10.6	CUI/WRAP							
67	3	1	38	100.5	ON	324	36.0	26.6	12.19	12.69	12.09	11.49
					CFF	341	42.0	29.6	12.27	12.73	12.13	11.53
67	3	2	21	55.5	ON	379	58.2	44.5	12.42	12.75	12.15	11.55
					CFF	382	60.5	48.6	12.43	12.75	12.15	11.55
69	4	1	20	52.9	ON	297	27.1	21.6	12.07	12.58	11.98	11.38
					CFF	308	30.7	24.0	12.12	12.63	12.03	11.43
69	4	2	38	100.5	ON	316	33.2	25.1	12.16	12.66	12.06	11.46
					CFF	335	39.4	28.0	12.24	12.71	12.11	11.51
69	4	3	42	111.1	ON	362	49.3	34.0	12.35	12.75	12.15	11.55
					CFF	373	54.8	39.3	12.40	12.75	12.15	11.55
69	4	4	54	142.4	ON	384	61.2	49.4	12.44	12.75	12.15	11.55
					CFF	387	65.8	63.3	12.45	12.75	12.15	11.55
70	5	1	79	209.0	ON	324	35.4	26.0	12.19	12.68	12.08	11.48
					CFF	356	47.2	32.3	12.33	12.75	12.15	11.55
70	5	2	88	232.8	ON	364	50.0	34.5	12.36	12.75	12.15	11.55

~~TOP SECRET~~

CONTROL NO. [REDACTED]

~~TOP SECRET~~

- CONTROL NO.

				OFF 383	60.5	47.8	12.43	12.75	12.15	11.55	
71	4	1	113	298.9	ON 359	47.4	32.4	12.34	12.75	12.15	11.55
				OFF 384	61.2	48.9	12.44	12.75	12.15	11.55	
72	4	0	10	26.5	ON 183	-27.0	23.9	11.37	0.	0.	0.
				OFF 186	-24.2	23.3	11.39	0.	0.	0.	
75	7	1	33	87.3	ON 338	39.4	27.2	12.25	12.71	12.11	11.51
				OFF 351	44.4	29.8	12.31	12.74	12.14	11.54	
79	7	0	15	39.7	ON 385	64.3	54.0	12.44	12.75	12.15	11.55
				OFF 386	65.7	58.4	12.44	12.75	12.15	11.55	
83	6	1	21	55.5	ON 332	35.7	24.6	12.23	12.69	12.09	11.49
				OFF 341	39.1	26.0	12.26	12.71	12.11	11.51	
83	6	2	43	113.7	ON 376	55.2	37.1	12.41	12.75	12.15	11.55
				OFF 383	60.3	44.1	12.43	12.75	12.15	11.55	
85	7	1	29	76.7	ON 366	49.4	31.5	12.37	12.75	12.15	11.55
				OFF 373	53.3	34.8	12.40	12.75	12.15	11.55	
85	7	2	114	301.5	ON 383	59.9	42.9	12.43	12.75	12.15	11.55
				OFF 383	69.4	75.9	12.43	12.75	12.15	11.55	
86	7	1	95	251.3	ON 376	54.5	35.7	12.41	12.75	12.15	11.55
				OFF 386	65.1	53.9	12.44	12.75	12.15	11.55	
87	5	1	68	179.9	ON 354	43.2	27.4	12.32	12.74	12.14	11.54
				OFF 373	52.6	33.8	12.39	12.75	12.15	11.55	
87	5	2	24	63.5	ON 378	55.7	36.8	12.41	12.75	12.15	11.55
				OFF 381	58.7	40.5	12.43	12.75	12.15	11.55	
88	5	1	75	198.4	ON 376	53.5	34.4	12.41	12.75	12.15	11.55
				OFF 386	62.5	46.8	12.44	12.75	12.15	11.55	
94	4	1	21	55.5	ON 387	67.8	59.8	12.45	12.75	12.15	11.55
				OFF 385	69.2	67.3	12.44	12.75	12.15	11.55	
97	5	1	35	92.6	ON 346	38.6	24.0	12.29	12.71	12.11	11.51
				OFF 359	43.9	26.4	12.34	12.74	12.14	11.54	
98	5	1	52	137.5	ON 328	31.9	21.3	12.21	12.65	12.05	11.45
				OFF 350	40.2	24.6	12.30	12.72	12.12	11.52	
99	5	1	89	235.4	ON 376	52.3	31.4	12.41	12.75	12.15	11.55
				OFF 387	63.3	45.2	12.45	12.75	12.15	11.55	
100	3	1	82	216.9	ON 366	46.9	27.5	12.37	12.75	12.15	11.55
				OFF 383	57.9	36.6	12.43	12.75	12.15	11.55	
100	3	2	24	63.5	ON 387	63.1	44.5	12.45	12.75	12.15	11.55
				OFF 387	65.6	50.3	12.45	12.75	12.15	11.55	
101	4	1	46	121.7	ON 336	34.1	21.8	12.25	12.67	12.07	11.47
				OFF 354	41.4	24.7	12.32	12.73	12.13	11.53	
101	4	2	43	113.7	ON 372	49.6	29.2	12.39	12.75	12.15	11.55
				OFF 381	55.7	34.0	12.42	12.75	12.15	11.55	
101	4	3	87	230.1	ON 387	62.6	43.4	12.45	12.75	12.15	11.55
				OFF 383	70.3	69.2	12.43	12.75	12.15	11.55	
102	2	1	56	148.1	ON 376	54.0	32.3	12.41	12.75	12.15	11.55
				OFF 385	61.2	40.6	12.44	12.75	12.15	11.55	
103	3	1	61	161.3	ON 346	37.7	22.9	12.29	12.70	12.10	11.50
				OFF 366	46.8	27.1	12.37	12.75	12.15	11.55	
103	3	2	57	150.8	ON 381	56.6	34.6	12.43	12.75	12.15	11.55
				OFF 386	63.5	44.5	12.44	12.75	12.15	11.55	
104	3	2	77	203.7	ON 382	56.7	34.5	12.43	12.75	12.15	11.55
				OFF 386	65.7	49.1	12.44	12.75	12.15	11.55	
110	8	1	23	60.8	ON 386	65.9	47.6	12.44	12.75	12.15	11.55
				OFF 385	66.3	54.4	12.44	12.75	12.15	11.55	
110	8	2	30	79.3	ON 381	70.5	64.4	12.43	12.75	12.15	11.55

~~TOP SECRET~~

- CONTROL NO.

~~TOP SECRET~~ CONTROL NO. [REDACTED]

115	8	1	78	206.3	CFF 376	72.0	77.7	12.41	12.75	12.15	11.55
					ON 338	31.7	19.3	12.25	12.65	12.05	11.45
					CFF 366	43.9	23.9	12.37	12.74	12.14	11.54
115	8	2	23	60.8	ON 381	53.8	29.7	12.43	12.75	12.15	11.55
					CFF 384	56.9	32.5	12.44	12.75	12.15	11.55
115	8	3	50	132.2	ON 386	60.2	36.1	12.44	12.75	12.15	11.55
					CFF 386	66.1	46.3	12.44	12.75	12.15	11.55
116	4	1	37	97.9	ON 377	52.5	28.5	12.41	12.75	12.15	11.55
					CFF 382	57.5	32.9	12.43	12.75	12.15	11.55
116	4	2	170	449.7	ON 384	62.2	38.7	12.44	12.75	12.15	11.55
					CFF 359	72.6	103.3	12.34	12.75	12.15	11.55
118	1	1	19	50.3	ON 342	33.7	19.7	12.27	12.67	12.07	11.47
					CFF 349	36.8	20.7	12.30	12.69	12.09	11.49
118	1	2	154	407.3	ON 372	48.0	25.4	12.39	12.75	12.15	11.55
					CFF 382	67.6	49.2	12.43	12.75	12.15	11.55
119	6	1	108	285.7	ON 372	48.0	25.3	12.39	12.75	12.15	11.55
					CFF 384	62.5	38.4	12.44	12.75	12.15	11.55
125	4	1	21	55.5	ON 383	56.8	30.3	12.43	12.75	12.15	11.55
					CFF 384	59.6	33.2	12.44	12.75	12.15	11.55
125	4	2	20	52.9	ON 378	70.2	54.8	12.42	12.75	12.15	11.55
					CFF 375	71.9	63.1	12.40	12.75	12.15	11.55
126	4	0	19	50.3	ON 384	63.7	38.4	12.44	12.75	12.15	11.55
					CFF 383	65.9	42.5	12.43	12.75	12.15	11.55
131	6	1	63	166.6	ON 381	53.4	26.6	12.43	12.75	12.15	11.55
					CFF 384	61.8	34.5	12.44	12.75	12.15	11.55
131	6	2	15	39.7	ON 285	58.0	149.8	12.01	12.75	12.15	11.55
					CFF 276	55.2	152.1	11.96	12.75	12.15	11.55
132	3	1	70	185.1	ON 374	47.1	22.8	12.40	12.75	12.15	11.55
					CFF 383	50.9	29.1	12.43	12.75	12.15	11.55
132	3	2	92	243.3	ON 378	69.8	50.3	12.42	12.75	12.15	11.55
					CFF 350	74.5	95.9	12.33	12.75	12.15	11.55
134	9	1	70	185.1	ON 376	48.1	23.0	12.41	12.75	12.15	11.55
					CFF 384	57.9	29.6	12.44	12.75	12.15	11.55
135	6	1	77	203.7	ON 381	52.8	25.5	12.43	12.75	12.15	11.55
					CFF 384	63.1	35.1	12.44	12.75	12.15	11.55
135	6	2	41	108.4	ON 322	68.8	133.8	12.19	12.75	12.15	11.55
					CFF 301	62.9	145.1	12.09	12.75	12.15	11.55
136	5	1	55	145.5	ON 371	73.0	62.2	12.39	12.75	12.15	11.55
					CFF 357	75.0	92.5	12.33	12.75	12.15	11.55
137	7	1	42	111.1	ON 344	30.6	16.5	12.28	12.63	12.03	11.43
					CFF 359	37.1	18.5	12.34	12.70	12.10	11.50

STELLAR-INDEX SUMMARY

CAMERA DATA ET FILM FILTER GRID ASSEMBLY NO D24
 STELLAR 2.C 3401 NONE 24
 INDEX 1/500 3401 W/21 24

PERFORMANCE SUMMARY

EXP. NO.	FR	STEL FEET	INDX FEET	H M S			Q	ON ON		OFF OFF		SEC DUR			
				Q	LAT	LONG		Q	LAT	LONG					
67	3	1	6	0.59	1.17	03	32	29	2	72	137E	2	66	141E	100
67	3	2	3	0.30	0.59	03	39	01	2	46	146E	2	43	147E	48
67	4	1	3	0.30	0.59	06	32	00	2	81	072E	2	78	083E	58
67	4	2	5	0.50	0.97	06	33	38	2	75	088E	2	69	094E	102

~~TOP SECRET~~ CONTROL NO. [REDACTED]

~~TOP SECRET~~

- CONTROL NO.

69	4	3	6	0.59	1.19	06	38	08	2	57	099E	2	51	100E	100
69	4	4	8	0.79	1.58	06	41	57	2	42	101E	2	34	102E	121
70	5	1	11	1.09	2.18	08	05	13	2	73	068E	2	60	075E	197
70	5	2	13	1.29	2.57	08	09	20	2	56	076E	2	43	078E	201
71	4	1	16	1.58	3.17	09	39	32	2	59	052E	2	42	055E	260
72	4	0	2	0.20	0.40	10	50	23	1	38	132W	1	41	132W	46
75	7	1	4	0.40	0.79	15	41	06	2	69	042W	2	63	039W	84
79	7	0	3	0.30	0.59	21	52	35	2	37	126W	2	35	126W	35
83	6	1	3	0.30	0.59	03	47	44	2	72	131E	2	69	134E	55
83	6	2	6	0.59	1.19	03	53	12	2	50	140E	2	44	141E	98
85	7	1	4	0.40	0.79	06	53	23	2	57	093E	2	53	094E	69
85	7	2	17	1.68	3.37	06	56	34	2	44	095E	2	27	097E	258
86	7	1	13	1.29	2.57	08	25	48	2	51	071E	2	37	073E	215
87	5	1	10	0.99	1.98	09	53	33	2	64	045E	2	54	048E	158
87	5	2	3	0.30	0.59	09	57	07	2	50	049E	2	46	049E	55
88	5	1	11	1.09	2.18	11	27	23	2	53	026E	2	41	027E	171
94	4	1	3	0.30	0.59	20	37	50	2	33	108W	2	29	108W	48
97	5	1	5	0.50	0.99	01	01	40	2	69	174E	2	64	177E	86
98	5	1	8	0.79	1.58	02	30	49	2	76	144E	2	68	152E	133
99	5	1	12	1.19	2.38	04	07	15	2	54	134E	2	40	136E	201
100	3	1	12	1.19	2.38	05	36	40	2	60	110E	2	48	112E	187
100	3	2	4	0.40	0.79	05	41	27	2	41	113E	2	37	113E	55
101	4	1	6	0.59	1.19	07	04	11	2	74	079E	2	66	084E	116
101	4	2	6	0.59	1.19	07	08	25	2	57	088E	2	50	089E	100
101	4	3	13	1.29	2.57	07	12	13	2	41	090E	2	28	091E	194
102	2	1	8	0.79	1.58	08	40	31	2	52	066E	2	43	067E	128
103	3	1	8	0.79	1.58	10	06	59	2	70	036E	2	60	041E	147
103	3	2	9	0.89	1.78	10	12	11	2	49	044E	2	40	045E	129
104	5	1	11	1.09	2.18	11	43	08	2	49	021E	2	37	022E	173
110	8	1	3	0.30	0.59	20	51	30	2	37	114W	2	34	114W	54
110	8	2	4	0.40	0.79	20	53	27	2	29	114W	2	25	113W	69
115	8	1	11	1.09	2.18	04	16	26	2	76	116E	2	63	126E	193
115	8	2	4	0.40	0.79	04	22	18	2	53	129E	2	49	130E	54
115	8	3	7	0.69	1.39	04	24	08	2	45	130E	2	37	131E	113
116	4	1	5	0.50	0.99	05	52	50	2	54	106E	2	48	107E	85
116	4	2	25	2.47	4.95	05	55	40	2	43	107E	2	16	109E	386
118	1	1	2	0.20	0.40	08	49	41	2	74	050E	2	71	053E	48
118	1	2	22	2.18	4.36	08	53	26	2	59	059E	2	35	062E	349
119	6	1	16	1.58	3.17	10	24	20	2	59	036E	2	42	039E	246
125	4	1	3	0.30	0.59	19	52	07	2	49	098W	2	46	097W	48
125	4	2	3	0.30	0.59	19	36	25	2	32	096W	2	28	096W	48
126	4	0	3	0.30	0.59	21	04	47	2	42	120W	2	39	120W	44
131	6	1	9	0.89	1.78	04	36	31	2	53	123E	2	44	125E	142
131	6	2	2	0.20	0.40	04	51	39	3	08	127E	3	11	127E	47
132	3	1	10	0.99	1.98	06	05	43	2	60	099E	2	49	101E	159
132	3	2	13	1.29	2.57	06	12	20	2	33	103E	2	18	104E	217
134	9	1	10	0.99	1.98	09	07	45	2	59	054E	2	48	056E	159
135	6	1	11	1.09	2.18	10	39	53	2	54	032E	2	42	034E	173
135	6	2	6	0.59	1.19	10	51	55	2	05	036E	3	02	036E	114
136	5	1	8	0.79	1.58	12	17	09	2	28	012E	2	19	012E	129
137	7	1	6	0.59	1.19	13	35	54	2	77	027W	2	70	019W	101

NOTES

1) THE DATA INDICATE NORMAL SYSTEM PERFORMANCE. FILM DEPLETION

~~TOP SECRET~~

- CONTROL NO.

~~TOP SECRET~~

CONTROL NO. [REDACTED]

- PROBABLY OCCURED DURING OPERATION ON REV 136.
- 2) THE LAST FEW FRAMES OF THE FIRST MISSION (OPN 63-5-1) ARE CONTAINED IN THIS CAPSULE, AS REPORTED ABOVE.
 - 3) DATA INDICATE AFT CAMERA CYCLE COUNTER MALFUNCTION DURING OPNS ON REVS 75 AND 132. INFORMATION REPORTED ABOVE REFLECTS THE BEST ESTIMATE OF ACTUAL OPERATIONS.
 - 4) STEREO SUPPRESS WAS UTILIZED DURING OPERATION 126-4-0 TO PROVIDE A TEST OF VEHICLE STABILITY DURING NONSIMULTANEOUS CAMERA STARTUP AND SHUTDOWN. FOR THIS MISSION, THE STEREO SUPPRESS MODE HAS BEEN USED TO SIMULATE A TIME DELAY CIRCUIT TO BE INSTALLED ON FUTURE SYSTEMS WHICH WOULD AUTOMATICALLY DELAY THE AFT CAMERA STARTUP AND SHUTDOWN SO AS TO REDUCE THE MONO COVERAGE AT EACH END OF AN OPERATION.

~~TOP SECRET~~

CONTROL NO. [REDACTED]

- A. 1022-2, LAUNCH 2201Z, 7/19/65
- B. DRY
- C. FINAL PERFORMANCE ESTIMATE, PART 2

RATE ESTIMATE
FWD PAN CAMERA NUMBER 168

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG VEL	SCAN R/SEC	RATE I/SEC	PCT CALIB	RATE REQD
67 3 1	39	7	3 ON	1317	0.3797	0.03204	2.386	57.25	-2.9	0.9
			OFF	100	0.4000	0.03375	2.513	60.32	-2.9	1.1
67 3 2	21	7	3 ON	1710	0.4441	0.03748	2.791	66.97	-2.9	0.8
			OFF	48	0.4479	0.03779	2.814	67.54	-2.9	0.6
69 4 1	20	7	3 ON	1179	0.3479	0.02936	2.186	52.46	-2.9	-0.6
			OFF	58	0.3609	0.03045	2.267	54.42	-2.9	-0.1
69 4 2	39	7	3 ON	1277	0.3707	0.03128	2.329	55.91	-2.9	0.5
			OFF	102	0.3923	0.03310	2.465	59.15	-2.9	1.0
69 4 3	42	7	3 ON	1547	0.4236	0.03574	2.662	63.88	-2.9	1.3
			OFF	100	0.4370	0.03687	2.746	65.90	-2.9	1.0
69 4 4	54	7	3 ON	1776	0.4494	0.03792	2.823	67.76	-2.9	0.6
			OFF	121	0.4539	0.03830	2.852	68.45	-2.9	0.4
70 5 1	79	7	3 ON	1316	0.3794	0.03201	2.384	57.21	-2.9	0.7
			OFF	197	0.4176	0.03523	2.624	62.97	-2.9	1.2
70 5 2	89	7	3 ON	1563	0.4260	0.03595	2.677	64.24	-2.9	1.2
			OFF	201	0.4483	0.03783	2.817	67.60	-2.9	0.6
71 4 1	114	7	3 ON	1525	0.4200	0.03544	2.639	63.34	-2.9	1.5
			OFF	260	0.4498	0.03795	2.826	67.82	-2.9	0.7
72 4 0	10	7	3 ON	321	0.2149	0.01813	1.350	32.40	-3.1	-4.4
			OFF	46	0.2185	0.01844	1.373	32.96	-3.1	-4.8
75 7 1	34	7	3 ON	1404	0.3969	0.03349	2.494	59.85	-3.1	1.2
			OFF	84	0.4121	0.03477	2.589	62.14	-3.1	1.2
79 7 0	15	7	3 ON	1874	0.4524	0.03817	2.842	68.22	-3.1	0.4
			OFF	35	0.4528	0.03821	2.845	68.28	-3.1	0.3
83 6 1	22	7	3 ON	1368	0.3895	0.03287	2.448	58.74	-3.1	0.7
			OFF	55	0.4001	0.03376	2.514	60.33	-3.1	0.8
83 6 2	43	7	3 ON	1696	0.4416	0.03727	2.775	66.60	-3.1	0.9
			OFF	98	0.4491	0.03790	2.822	67.72	-3.1	0.6
85 7 1	29	7	3 ON	1600	0.4303	0.03631	2.703	64.88	-3.1	1.1
			OFF	69	0.4384	0.03699	2.755	66.11	-3.1	0.9
85 7 2	116	7	3 ON	1792	0.4491	0.03790	2.822	67.73	-3.1	0.6
			OFF	258	0.4492	0.03790	2.822	67.74	-3.1	0.5
86 7 1	95	7	3 ON	1691	0.4411	0.03722	2.771	66.51	-3.1	0.9
			OFF	215	0.4528	0.03821	2.845	68.28	-3.1	0.4
87 5 1	68	7	3 ON	1503	0.4153	0.03504	2.609	62.62	-3.1	1.1
			OFF	158	0.4376	0.03692	2.749	65.99	-3.1	0.9
87 5 2	24	7	3 ON	1717	0.4436	0.03743	2.787	66.89	-3.1	0.8
			OFF	55	0.4477	0.03777	2.813	67.51	-3.1	0.7
88 5 1	76	7	3 ON	1677	0.4375	0.03692	2.749	65.98	-3.6	0.4
			OFF	171	0.4494	0.03792	2.824	67.77	-3.6	0.0
94 4 1	21	7	3 ON	1974	0.4500	0.03797	2.827	67.86	-3.6	0.3
			OFF	48	0.4484	0.03784	2.818	67.62	-3.6	0.5
97 5 1	35	7	3 ON	1447	0.4032	0.03402	2.534	60.80	-3.6	-0.1

~~TOP SECRET~~

CONTROL NO. [REDACTED]

						OFF	86	0.4177	0.03524	2.624	62.98	-3.6	0.1
98	5	1	52	7	3	ON	1342	0.3822	0.03225	2.402	57.64	-3.6	-0.9
						OFF	133	0.4078	0.03441	2.562	61.49	-3.6	-0.2
99	5	1	90	7	3	ON	1676	0.4374	0.03691	2.749	65.96	-3.6	0.3
						OFF	201	0.4502	0.03799	2.829	67.89	-3.6	0.3
100	3	1	82	7	3	ON	1588	0.4265	0.03599	2.680	64.32	-3.6	0.2
						OFF	187	0.4458	0.03762	2.801	67.22	-3.6	0.2
100	3	2	24	7	3	ON	1875	0.4502	0.03799	2.829	67.89	-3.6	0.3
						OFF	55	0.4507	0.03803	2.832	67.96	-3.6	0.4
101	4	1	46	7	3	ON	1387	0.3914	0.03303	2.459	59.02	-3.6	-0.7
						OFF	116	0.4126	0.03482	2.593	62.23	-3.6	-0.2
101	4	2	43	7	3	ON	1640	0.4333	0.03656	2.723	65.35	-3.6	0.2
						OFF	100	0.4431	0.03739	2.784	66.82	-3.6	0.2
101	4	3	87	7	3	ON	1869	0.4501	0.03798	2.828	67.87	-3.6	0.3
						CFF	194	0.4462	0.03765	2.804	67.29	-3.6	0.8
102	2	1	56	7	3	ON	1714	0.4402	0.03714	2.766	66.38	-3.8	0.1
						OFF	128	0.4482	0.03782	2.816	67.59	-3.8	0.1
103	3	1	61	7	3	ON	1450	0.4028	0.03399	2.531	60.75	-3.8	-0.5
						OFF	147	0.4263	0.03597	2.678	64.28	-3.8	-0.1
103	3	2	57	7	3	ON	1762	0.4441	0.03747	2.790	66.97	-3.8	0.1
						OFF	129	0.4494	0.03792	2.824	67.77	-3.8	0.2
104	5	1	77	7	3	ON	1766	0.4443	0.03749	2.792	67.00	-3.8	0.1
						CFF	173	0.4496	0.03794	2.825	67.80	-3.8	0.3
110	8	1	23	7	3	ON	1961	0.4493	0.03791	2.823	67.75	-3.8	0.4
						OFF	54	0.4477	0.03778	2.813	67.52	-3.8	0.6
110	8	2	30	7	3	ON	2078	0.4440	0.03746	2.790	66.95	-3.8	0.8
						OFF	69	0.4384	0.03699	2.754	66.10	-3.8	1.1
115	8	1	79	7	3	ON	1402	0.3936	0.03321	2.473	59.35	-3.8	-0.9
						OFF	193	0.4260	0.03594	2.676	64.23	-3.8	-0.0
115	8	2	24	7	3	ON	1754	0.4435	0.03742	2.786	66.87	-3.8	0.3
						OFF	54	0.4467	0.03769	2.806	67.36	-3.8	0.3
115	8	3	51	7	3	ON	1864	0.4490	0.03788	2.821	67.70	-3.8	0.4
						CFF	113	0.4490	0.03788	2.821	67.70	-3.8	0.5
116	4	1	37	7	3	ON	1731	0.4388	0.03702	2.757	66.17	-4.4	-0.5
						OFF	85	0.4442	0.03748	2.791	66.98	-4.4	-0.4
116	4	2	170	7	3	ON	1900	0.4467	0.03769	2.806	67.35	-4.4	-0.2
						OFF	386	0.4181	0.03528	2.627	63.05	-4.4	1.4
118	1	1	19	7	3	ON	1438	0.3981	0.03359	2.501	60.03	-4.4	-1.5
						OFF	48	0.4063	0.03428	2.553	61.26	-4.4	-1.3
118	1	2	154	7	3	UN	1663	0.4322	0.03647	2.716	65.18	-4.4	-0.6
						OFF	349	0.4449	0.03754	2.796	67.09	-4.4	0.1
119	6	1	109	7	3	UN	1666	0.4325	0.03649	2.717	65.22	-4.4	-0.6
						OFF	246	0.4467	0.03769	2.807	67.36	-4.4	-0.2
125	4	1	21	7	3	ON	1833	0.4451	0.03755	2.796	67.12	-4.4	-0.1
						CFF	48	0.4464	0.03766	2.805	67.31	-4.4	-0.1
125	4	2	20	7	3	ON	2091	0.4402	0.03714	2.766	66.37	-4.4	0.5
						OFF	48	0.4363	0.03681	2.741	65.79	-4.4	0.7
126	4	0	19	7	3	ON	1943	0.4466	0.03768	2.806	67.35	-4.4	0.1
						CFF	44	0.4458	0.03762	2.801	67.23	-4.4	0.2
131	6	1	63	7	3	ON	1797	0.4434	0.03741	2.786	66.86	-4.4	-0.0
						OFF	142	0.4467	0.03769	2.807	67.36	-4.4	0.2
131	6	2	15	7	3	ON	2706	0.3316	0.02798	2.084	50.00	-4.4	1.4
						CFF	47	0.3216	0.02713	2.021	48.49	-4.4	1.4
132	3	1	70	7	3	ON	1695	0.4355	0.03675	2.737	65.68	-4.4	-0.3

~~TOP SECRET~~

CONTROL NO. [REDACTED]

132	3	2	94	7	3	ON	2092	0.4401	0.03713	2.765	66.36	-4.4	0.7
						OFF	217	0.4145	0.03497	2.604	62.50	-4.4	1.8
134	9	1	70	7	3	ON	1714	0.4373	0.03690	2.748	65.94	-4.4	-0.3
						OFF	159	0.4462	0.03765	2.803	67.28	-4.4	0.1
135	6	1	77	7	3	ON	1791	0.4431	0.03738	2.784	66.81	-4.4	-0.1
						OFF	173	0.4464	0.03766	2.805	67.31	-4.4	0.5
135	6	2	41	7	3	ON	2514	0.3752	0.03166	2.358	56.59	-4.4	2.5
						OFF	114	0.3504	0.02957	2.202	52.84	-4.4	2.5
136	5	1	56	7	3	ON	2177	0.4321	0.03646	2.715	65.16	-4.4	1.4
						OFF	129	0.4151	0.03503	2.608	62.60	-4.4	2.1
137	7	1	42	7	3	ON	1453	0.4007	0.03381	2.518	60.43	-4.4	-1.8
						OFF	101	0.4172	0.03520	2.622	62.92	-4.4	-1.1

RATE ESTIMATE

AFT PAN CAMERA NUMBER 169

OPN NO	FR	R	A	TUR/	INST	INST	SCAN	RATE	PCT	RATE			
				DIR	CPS	ANG VEL	R/SEC	1/SEC	CALIB	REQD			
67	3	1	38	7	3	ON	1317	0.3766	0.03178	2.366	56.79	-3.5	0.1
						OFF	100	0.3968	0.03348	2.493	59.83	-3.5	0.3
67	3	2	21	7	3	ON	1710	0.4406	0.03717	2.768	66.44	-3.5	-0.0
						OFF	48	0.4443	0.03749	2.791	67.00	-3.5	-0.2
69	4	1	20	7	3	ON	1179	0.3451	0.02912	2.168	52.04	-3.5	-1.4
						OFF	58	0.3580	0.03020	2.249	53.98	-3.5	-0.9
69	4	2	38	7	3	ON	1277	0.3678	0.03103	2.311	55.46	-3.5	-0.3
						OFF	102	0.3891	0.03283	2.445	58.67	-3.5	0.2
69	4	3	42	7	3	ON	1547	0.4202	0.03545	2.640	63.36	-3.5	0.5
						OFF	100	0.4335	0.03658	2.724	65.37	-3.5	0.2
69	4	4	54	7	3	ON	1776	0.4458	0.03761	2.801	67.22	-3.5	-0.2
						OFF	121	0.4503	0.03799	2.829	67.90	-3.5	-0.5
70	5	1	79	7	3	ON	1316	0.3763	0.03175	2.365	56.75	-3.5	-0.1
						OFF	197	0.4142	0.03495	2.603	62.46	-3.5	0.4
70	5	2	88	7	3	ON	1563	0.4226	0.03566	2.655	63.73	-3.5	0.4
						OFF	201	0.4447	0.03752	2.794	67.06	-3.5	-0.2
71	4	1	113	7	3	ON	1525	0.4167	0.03516	2.618	62.83	-3.5	0.7
						OFF	260	0.4461	0.03764	2.803	67.28	-3.5	-0.2
72	4	0	10	7	3	ON	321	0.2126	0.01794	1.336	32.07	-4.0	-5.5
						OFF	46	0.2163	0.01825	1.359	32.61	-4.0	-5.9
75	7	1	33	7	3	ON	1404	0.3928	0.03315	2.468	59.24	-4.0	0.2
						OFF	84	0.4079	0.03442	2.563	61.51	-4.0	0.2
79	7	0	15	7	3	UN	1874	0.4478	0.03778	2.813	67.52	-4.0	-0.7
						OFF	35	0.4482	0.03782	2.816	67.59	-4.0	-0.7
83	6	1	21	7	3	ON	1368	0.3856	0.03253	2.423	58.14	-4.0	-0.3
						OFF	55	0.3960	0.03342	2.488	59.72	-4.0	-0.2
83	6	2	43	7	3	ON	1696	0.4372	0.03689	2.747	65.92	-4.0	-0.2
						OFF	98	0.4445	0.03751	2.793	67.04	-4.0	-0.5
85	7	1	29	7	3	UN	1600	0.4259	0.03594	2.676	64.22	-4.0	0.1
						OFF	69	0.4340	0.03662	2.727	65.44	-4.0	-0.1
85	7	2	114	7	3	ON	1792	0.4446	0.03751	2.793	67.04	-4.0	-0.4
						OFF	258	0.4446	0.03752	2.794	67.05	-4.0	-0.5
86	7	1	95	7	3	UN	1691	0.4366	0.03684	2.743	65.84	-4.0	-0.2
						OFF	215	0.4482	0.03782	2.816	67.58	-4.0	-0.6
87	5	1	68	7	3	ON	1503	0.4110	0.03468	2.583	61.98	-4.0	0.1
						OFF	158	0.4331	0.03655	2.721	65.31	-4.0	-0.1

~~TOP SECRET~~

CONTROL NO. [REDACTED]

87	5	2	24	7	3	ON	1717	0.4391	0.03705	2.759	66.21	-4.0	-0.2
						OFF	55	0.4431	0.03739	2.784	66.82	-4.0	-0.4
88	5	1	75	7	3	ON	1677	0.4368	0.03685	2.744	65.86	-3.6	0.2
						OFF	171	0.4487	0.03786	2.819	67.66	-3.6	-0.1
94	4	1	21	7	3	ON	1974	0.4492	0.03791	2.823	67.74	-3.6	0.1
						OFF	48	0.4477	0.03777	2.813	67.50	-3.6	0.3
97	5	1	35	7	3	ON	1447	0.4025	0.03396	2.529	60.70	-3.6	-0.3
						OFF	86	0.4169	0.03518	2.620	62.87	-3.6	-0.1
98	5	1	52	7	3	ON	1342	0.3816	0.03220	2.397	57.54	-3.6	-1.1
						OFF	133	0.4071	0.03435	2.558	61.38	-3.6	-0.4
99	5	1	89	7	3	ON	1676	0.4367	0.03685	2.744	65.85	-3.6	0.1
						CFF	201	0.4494	0.03792	2.824	67.77	-3.6	0.1
100	3	1	82	7	3	ON	1588	0.4258	0.03593	2.675	64.20	-3.6	0.0
						OFF	187	0.4450	0.03755	2.796	67.11	-3.6	0.1
100	3	2	24	7	3	ON	1875	0.4495	0.03792	2.824	67.78	-3.6	0.1
						CFF	55	0.4499	0.03796	2.827	67.84	-3.6	0.2
101	4	1	46	7	3	ON	1387	0.3907	0.03297	2.455	58.92	-3.6	-0.8
						OFF	116	0.4119	0.03476	2.588	62.12	-3.6	-0.3
101	4	2	43	7	3	ON	1640	0.4326	0.03650	2.718	65.23	-3.6	0.1
						CFF	100	0.4424	0.03733	2.780	66.71	-3.6	0.0
101	4	3	87	7	3	ON	1869	0.4493	0.03791	2.823	67.76	-3.6	0.2
						OFF	194	0.4455	0.03759	2.799	67.17	-3.6	0.7
102	2	1	56	7	3	ON	1714	0.4393	0.03707	2.760	66.25	-3.8	-0.1
						CFF	128	0.4473	0.03774	2.811	67.45	-3.8	-0.1
103	3	1	61	7	3	ON	1450	0.4020	0.03392	2.526	60.63	-3.8	-0.7
						OFF	147	0.4254	0.03590	2.673	64.15	-3.8	-0.3
103	3	2	57	7	3	ON	1762	0.4432	0.03740	2.785	66.83	-3.8	-0.1
						CFF	129	0.4485	0.03785	2.818	67.64	-3.8	-0.0
104	5	1	77	7	3	ON	1766	0.4434	0.03742	2.786	66.87	-3.8	-0.1
						OFF	173	0.4487	0.03786	2.819	67.66	-3.8	0.1
110	8	1	23	7	3	ON	1961	0.4484	0.03783	2.817	67.61	-3.8	0.2
						CFF	54	0.4468	0.03770	2.808	67.38	-3.8	0.4
110	8	2	30	7	3	ON	2078	0.4431	0.03739	2.784	66.82	-3.8	0.6
						CFF	69	0.4375	0.03691	2.749	65.97	-3.8	0.9
115	8	1	78	7	3	ON	1402	0.3928	0.03314	2.468	59.23	-3.8	-1.1
						CFF	193	0.4251	0.03587	2.671	64.10	-3.8	-0.2
115	8	2	23	7	3	ON	1754	0.4426	0.03735	2.781	66.74	-3.8	0.1
						CFF	54	0.4458	0.03761	2.801	67.22	-3.8	0.1
115	8	3	50	7	3	ON	1864	0.4481	0.03781	2.815	67.57	-3.8	0.2
						CFF	113	0.4481	0.03781	2.815	67.57	-3.8	0.3
116	4	1	37	7	3	ON	1731	0.4383	0.03698	2.754	66.09	-4.4	-0.6
						CFF	85	0.4437	0.03744	2.788	66.91	-4.4	-0.5
116	4	2	170	7	3	ON	1900	0.4462	0.03765	2.803	67.28	-4.4	-0.3
						CFF	386	0.4177	0.03524	2.624	62.99	-4.4	1.3
118	1	1	19	7	3	ON	1438	0.3976	0.03355	2.498	59.96	-4.4	-1.6
						CFF	48	0.4058	0.03424	2.550	61.20	-4.4	-1.5
118	1	2	154	7	3	ON	1663	0.4318	0.03643	2.713	65.11	-4.4	-0.7
						OFF	349	0.4445	0.03750	2.793	67.02	-4.4	0.0
119	6	1	108	7	3	ON	1666	0.4320	0.03645	2.714	65.15	-4.4	-0.7
						CFF	246	0.4462	0.03765	2.804	67.29	-4.4	-0.3
125	4	1	21	7	3	ON	1833	0.4446	0.03751	2.793	67.04	-4.4	-0.3
						CFF	48	0.4459	0.03762	2.802	67.24	-4.4	-0.2
125	4	2	20	7	3	ON	2091	0.4397	0.03710	2.763	66.30	-4.4	0.4
						CFF	48	0.4358	0.03677	2.738	65.72	-4.4	0.6

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

~~TOP SECRET~~

CONTROL NO. [REDACTED]

126	4	0	19	7	3	ON	1957	0.4459	0.03763	2.802	67.25	-4.4	-0.0
						OFF	43	0.4449	0.03754	2.795	67.09	-4.4	0.1
131	6	1	63	7	3	ON	1797	0.4429	0.03737	2.783	66.79	-4.4	-0.2
						OFF	142	0.4462	0.03765	2.804	67.29	-4.4	0.1
131	6	2	15	7	3	ON	2706	0.3312	0.02795	2.081	49.95	-4.4	1.2
						OFF	47	0.3212	0.02710	2.018	48.44	-4.4	1.3
132	3	1	70	7	3	ON	1695	0.4351	0.03671	2.734	65.61	-4.4	-0.4
						OFF	159	0.4452	0.03757	2.797	67.14	-4.4	-0.1
132	3	2	92	7	3	ON	2092	0.4396	0.03709	2.762	66.29	-4.4	0.6
						OFF	217	0.4140	0.03493	2.601	62.43	-4.4	1.7
134	9	1	70	7	3	ON	1714	0.4368	0.03686	2.745	65.87	-4.4	-0.4
						OFF	159	0.4457	0.03761	2.800	67.21	-4.4	0.0
135	6	1	77	7	3	ON	1791	0.4426	0.03734	2.781	66.74	-4.4	-0.2
						OFF	173	0.4459	0.03762	2.802	67.24	-4.4	0.3
135	6	2	41	7	3	ON	2514	0.3748	0.03163	2.355	56.52	-4.4	2.4
						OFF	114	0.3500	0.02953	2.199	52.78	-4.4	2.4
136	5	1	55	7	3	ON	2177	0.4316	0.03642	2.712	65.09	-4.4	1.3
						OFF	129	0.4147	0.03499	2.606	62.53	-4.4	2.0
137	7	1	42	7	3	ON	1453	0.4003	0.03378	2.515	60.36	-4.4	-1.9
						OFF	101	0.4168	0.03517	2.619	62.85	-4.4	-1.2

RAMP PROFILE

R- 7 A- 3 PERIOD= 3840

R= 0.3379 A= C.1296

TUR	PER	CPS	ANG V
-0	4.801	0.2083	0.01884
100	4.770	0.2096	0.01896
200	4.682	0.2136	0.01932
300	4.544	0.2201	0.01990
400	4.367	0.2290	0.02071
500	4.165	0.2401	0.02172
600	3.949	0.2532	0.02291
700	3.730	0.2681	0.02425
800	3.516	0.2844	0.02572
900	3.313	0.3018	0.02730
1000	3.126	0.3199	0.02894
1100	2.953	0.3386	0.03063
1200	2.753	0.3632	0.03285
1300	2.585	0.3868	0.03499
1400	2.447	0.4087	0.03697
1500	2.336	0.4280	0.03871
1600	2.252	0.4441	0.04016
1700	2.192	0.4562	0.04126
1800	2.155	0.4641	0.04198
1900	2.139	0.4674	0.04227
2000	2.146	0.4660	0.04215
2100	2.174	0.4599	0.04160
2200	2.225	0.4494	0.04065
2300	2.300	0.4349	0.03933
2400	2.399	0.4168	0.03770
2500	2.526	0.3959	0.03580
2600	2.682	0.3728	0.03372
2700	2.970	0.3485	0.03152
2800	3.055	0.3273	0.02960

~~TOP SECRET~~

CONTROL NO. [REDACTED]

2900	3.236	0.3090	0.02795
3000	3.433	0.2913	0.02634
3100	3.643	0.2745	0.02483
3200	3.861	0.2590	0.02343
3300	4.079	0.2451	0.02217
3400	4.289	0.2332	0.02109
3500	4.477	0.2234	0.02020
3600	4.632	0.2159	0.01952
3700	4.742	0.2109	0.01907
3800	4.796	0.2085	0.01886

CLOCK SUMMARY

PRELIMINARY CLOCK CORRELATION

		ORDER FIT 1			
SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
40717.297	104793.64390	40717.30590	-0.00793	9	1
80485.598	144561.95590	80485.60710	-0.00813	16	1
36239.857	186716.21990	36239.85960	-0.00169	24	1
75995.477	226471.84490	75995.47380	0.00410	31	1
37206.245	274082.62690	37206.24290	0.00303	40	1
76949.312	313825.70790	76949.31310	-0.00018	47	1
32603.139	355879.54190	32603.13570	0.00423	55	1
77801.997	401078.40890	77801.99040	0.00751	63	1
39085.109	448761.53690	39085.10550	0.00445	72	1
78811.371	488487.81490	78811.37270	-0.00077	79	1
34546.657	530623.10890	34546.65530	0.00267	87	1
74347.909	33553.45890	74347.90650	0.00348	94	1
35449.792	81055.35490	35449.78960	0.00337	103	1
75234.395	120839.97690	75234.40080	-0.00483	110	1
36237.947	168243.53390	36237.94490	0.00304	118	1
76013.699	208019.30190	76013.70210	-0.00216	126	1
31735.473	250141.08790	31735.47670	-0.00272	134	1
76816.782	295222.41390	76816.79040	-0.00749	142	1

A0=-0.6407630962D 05 A1= 0.999999728525D 00

SIGMA=0.00449 NO. POINTS= 18

RATIO OF CLCCK TIME TO SYS TIME= 0.10000027147D 01

		ORDER FIT 2			
SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
40717.297	104793.64390	40717.29910	-0.00111	9	1
80485.598	144561.95590	80485.60250	-0.00360	16	1
36239.857	186716.21990	36239.85720	0.00072	24	1
75995.477	226471.84490	75995.47320	0.00478	31	1
37206.245	274082.62690	37206.24400	0.00198	40	1
76949.312	313825.70790	76949.31530	-0.00238	47	1
32603.139	355879.54190	32603.13880	0.00111	55	1
77801.997	401078.40890	77801.99420	0.00371	63	1
39085.109	448761.53690	39085.10960	0.00032	72	1
78811.371	488487.81490	78811.37680	-0.00488	79	1
34546.657	530623.10890	34546.65910	-0.00114	87	1
74347.909	33553.45890	74347.90970	0.00022	94	1
35449.792	81055.35490	35449.79180	0.00113	103	1
75234.395	120839.97690	75234.40190	-0.00593	110	1
36237.947	168243.53390	36237.94430	0.00365	118	1

~~TOP SECRET~~

CONTROL NO. [REDACTED]

76013.699	208019.30190	76013.69980	0.00017	126	1
31735.473	250141.08790	31735.47220	0.00171	134	1
76816.782	295222.41390	76816.78340	-0.00046	142	1

A0=-0.64076323710 05 A1= 0.999999806697D 00
 A2=-0.8374618655688D-13
 SIGMA=0.00272 NO. POINTS= 18

CLOCK OPERATIONS

OPN	NO	FR		H	M	S	DEC	BINARY
67	3	1	39	ON	03	32	29 422425	11001001011011011000110101000
				OFF	03	34	09 422525	11001001011110011100001001000
67	3	2	21	ON	03	39	01 422818	11001001100111011000011010000
				OFF	03	39	44 422866	11001001101000110110001010000
69	4	1	20	ON	06	32	00 433197	11001110100100000111111001000
				OFF	06	32	58 433255	11001110100101111001001011000
69	4	2	39	ON	06	33	38 433295	11001110100111000111010011000
				OFF	06	35	20 433397	110011101010100001110100001000
69	4	3	42	ON	06	38	08 433565	11001110101111010110101001000
				OFF	06	39	48 433665	11001110110010010011001111101000
69	4	4	54	ON	06	41	57 433794	1100111011011001010101111010000
				OFF	06	43	58 433915	11001110111010000010001111000
70	5	1	79	ON	08	05	13 438789	11010001001110110001110001000
				OFF	08	08	30 438986	11010001010100110010100010000
70	5	2	89	ON	08	09	20 439036	11010001010110010100001100000
				OFF	08	12	41 439237	11010001011100011100110001000
71	4	1	114	ON	09	39	32 444449	11010011111011100000011101000
				OFF	09	43	52 444709	11010100000011011100010001000
72	4	0	10	ON	10	50	23 448699	11010101111101001101001111000
				OFF	10	51	09 448745	11010101111110100111000101000
75	7	1	34	ON	15	41	06 466142	11011110010001100001100110000
				OFF	15	42	30 466226	11011110010100000101101010000
79	7	0	15	ON	21	52	35 488431	11101000111001101110110011000
				OFF	21	53	10 488466	11101000111010110011001010000
83	6	1	22	ON	03	47	44 509740	11110011000100000001111100000
				OFF	03	48	39 509795	11110011000101101101010111000
83	6	2	43	ON	03	53	12 510069	11110011001110000100100001000
				OFF	03	54	50 510167	11110011010001000011111011000
85	7	1	29	ON	06	53	23 520879	11111000010111111101110011000
				OFF	06	54	32 520948	11111000011010000100100100000
85	7	2	116	ON	06	56	34 521070	11111000011101110010110110000
				OFF	07	00	52 521328	11111000100101101010110000000
86	7	1	95	ON	08	25	48 526425	11111011000001001101110101000
				OFF	08	29	23 526640	11111011000111110001110000000
87	5	1	68	ON	09	53	33 531690	11111101100001111001000010000
				OFF	09	56	11 531848	11111101100110101101101000000
87	5	2	24	ON	09	57	07 531903	11111101101000011001000011000
				OFF	09	58	02 531958	11111101101010000100011110000
98	5	1	76	ON	11	27	23 449	0000000001101101100111101000
				OFF	11	30	14 620	00000000010010111010111100000
94	4	1	21	ON	20	37	50 33476	00001111111101100110110100000
				OFF	20	38	38 33524	00001111111110001001001000000
97	5	1	35	ON	01	01	40 49305	00010111100000101010110101000
				OFF	01	03	06 49391	00010111100011010010110011000
98	5	1	52	ON	02	30	49 54654	00011010000011111010000100000

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

~~TOP SECRET~~

CONTROL NO. [REDACTED]

			OFF	02	33	02	54787	0001101000011111101110111000
99	5	1	ON	04	07	15	60441	00011100110100100000110101000
			OFF	04	10	36	60642	00011100111010101001011010000
100	3	1	ON	05	36	40	65806	0001111011000001111010110000
			OFF	05	39	47	65993	0001111011101111100100101000
100	3	2	ON	05	41	27	66093	0001111100000111111111001000
			OFF	05	42	22	66148	0001111100010101011010100000
101	4	1	ON	07	04	11	71057	00100001111000011111001101000
			OFF	07	06	07	71173	00100001111100000001110001000
101	4	2	ON	07	08	25	71310	00100010000000001101010110000
			OFF	07	10	05	71410	00100010000011010000101010000
101	4	3	UN	07	12	13	71539	00100010000111001100100111000
			OFF	07	15	27	71733	00100010001101000111100001000
102	2	1	ON	08	40	31	76836	00100100101000110110010100000
			OFF	08	42	39	76964	00100100101100110000010100000
103	3	1	ON	10	06	59	82025	00100111000111001101000101000
			OFF	10	09	26	82172	00100111001011101100001100000
103	3	2	ON	10	12	11	82337	00100111010000101110011101000
			OFF	10	14	20	82466	00100111010100101010011010000
104	5	1	ON	11	43	08	87794	00101001110111010000101010000
			OFF	11	46	01	87967	00101001111100100010100011000
110	8	1	ON	20	51	30	120696	00111001100011010110011000000
			OFF	20	52	24	120750	00111001100100111111110110000
110	8	2	ON	20	53	27	120813	00111001100110111010111001000
			OFF	20	54	36	120882	00111001101001000001101010000
115	8	1	ON	04	16	26	147391	01000110010010000001000011000
			OFF	04	19	39	147584	01000110010111111010000000000
115	8	2	ON	04	22	18	147744	01000110011100110010100000000
			OFF	04	23	12	147798	01000110011110011011111110000
115	8	3	ON	04	24	08	147854	01000110100000001001010110000
			OFF	04	26	01	147967	01000110100011100110000011000
116	4	1	ON	05	52	50	153176	01001001000010100011111000000
			OFF	05	54	15	153261	01001001000101001001111001000
116	4	2	UN	05	55	40	153345	01001001000111101101111101000
			OFF	06	02	06	153731	01001001010011011111110111000
118	1	1	ON	08	49	41	163787	01001110000110011000011111000
			OFF	08	50	29	163835	01001110000111110110001111000
118	1	2	ON	08	53	26	164012	01001110001101001111111100000
			OFF	08	59	15	164361	01001110010111111001100101000
119	6	1	ON	10	24	20	169466	01010000110011101100010010000
			OFF	10	28	26	169712	01010000111011001100110000000
125	4	1	ON	19	32	07	202333	01100000011110101101101001000
			OFF	19	32	55	202381	01100000100000001011011001000
125	4	2	ON	19	36	25	202590	01100000100110100011100110000
			OFF	19	37	13	202638	01100000101000000001010110000
126	4	0	ON	21	04	47	207893	01100011001000011001000001000
			OFF	21	05	31	207937	01100011001001101110111101000
131	6	1	ON	04	36	31	234596	01110000000011100000100100000
			OFF	04	38	53	235138	01110000000111110101111010000
131	6	2	UN	04	51	39	235905	01110000011111001111111101000
			OFF	04	52	26	235952	01110000100000101011110000000
132	3	1	ON	06	05	43	240349	01110010100110110111101001000
			OFF	06	08	22	240508	01110010101011101110001100000
132	3	2	ON	06	12	20	240746	01110010110010111111000010000

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CONTROL NO. [REDACTED]

~~TOP SECRET~~

CONTROL NO.

134	9	1	70	OFF	06	15	57	240963	0111001011100110011011011000
				ON	09	07	45	251271	01110111110100001011101011000
				OFF	09	10	24	251430	01110111111001000010001110000
135	6	1	77	ON	10	39	53	256799	01111010011100111000100011000
				OFF	10	42	46	256972	01111010100010001010011100000
135	6	2	41	ON	10	51	55	257521	01111010110010111010101101000
				OFF	10	53	49	257635	01111010110110011001010111000
136	5	1	56	ON	12	17	09	262635	0111110100111011111011111000
				OFF	12	19	18	262764	01111101010010111010111100000
137	7	1	42	ON	13	35	54	267360	01111111011111001011100000000
				OFF	13	37	35	267461	01111111100010010000110001000

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CONTROL NO.