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Corona J

1035-1

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12 PAGES
(NOT INCLUDING PECT)

CORONA J FLIGHT DATA BOOK

SYSTEM NO. J-36

VEHICLE NO. 1628

MISSION NO. 1835-1

CAMERA NOS. 188/189

DATE 49-25-66

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SYSTEM NO. J-36
VEHICLE NO. 1628
MISSION NO. 1835-1
CAMERA NOS. 188/189

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SYSTEM NO. J-36
VEHICLE NO. 1628
MISSION NO. 1835-1
CAMERA NOS. 188/189

GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 188

SLAVE CAMERA SERIAL NO. 189

S/I -1 SERIAL NO. D95/112/113

S/I -2 SERIAL NO. D96/104/116

LAUNCH DATE 29-24-66

LAUNCH TIME 21-14-35 GMT

REACTIVATION DATE N/A

REACTIVATION ORBIT NO. N/A

ORBITAL PARAMETERS (REV. 41)

PERIOD 98.755 MIN. ECCENTRICITY 0.01974

PERIGEE 98.748 NM PERIGEE LAT. 29.100 DEG. N

APOGEE 241.328 NM INCL. ANGLE 85.255 DEG.

RECOVERY ORBIT NO. 81

RECOVERY DATE 29-25-66

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SYSTEM NO. J-36
 VEHICLE NO. 1628
 MISSION NO. 1835-1
 CAMERA NOS. 188/189

FLIGHT LENS SETTINGS AND FILM TYPES

LENS SETTINGS

PANORAMIC CAMERA SETTINGS	CAMERA NO. 188	CAMERA NO.
PANORAMIC OPTICS SLIT WIDTH	0.225	IN 0.175
PANORAMIC OPTICS FILTER TYPE	WRATTEN 23A	WRATTEN
HORIZON OPTICS EXP. TIME	1/100	SEC. 1/100
HORIZON OPTICS APERTURE	F6.3	SUPPLY F8.0
HORIZON OPTICS APERTURE	F8.0	TAKE-UP F6.3
HORIZON OPTICS FILTER TYPE	WRATTEN 25	WRATTEN

STELLAR INDEX CAMERA SETTINGS

	D95/112/113		D96/104/113	
	STELLAR	INDEX	STELLAR	INDEX
EXPOSURE TIME	1.0	SEC 1/500	SEC 1.0	SEC 1.0
APERTURE SETTING	F1.8	F4.5	F1.8	F1.8
FILTER TYPE	NONE	WRATTEN 21	NONE	NONE

RATIO ONE STELLAR/INDEX FRAME PER 7 MASTER CAMERA FRAME

FILM

PANORAMIC CAMERAS	CAMERA NO. 188	CAMERA NO. 189
TYPE	7J-40	7J-40
LENGTH	16000 FT.	16000 FT.
SPLICES	3	3
EMUL. DATA	254-54-5-6	254-54-5-6
LG. BETWEEN	5788-1867-5881-	2100-2947-5161-
SPLICES	3164C	5792C

STELLAR/INDEX CAMERAS

	D95/112/113		D96/104/113	
	STELLAR	INDEX	STELLAR	INDEX
TYPE	3J-34	7J-33	3J-34	7J-33
EMUL. DATA	151-48-4-6	113-2-4-6	151-48-4-6	113-2-4-6



SYSTEM NO. J-36
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MISSION NO. 1835-1
CAMERA NOS. 188/189

LENS DATA SUMMARY MASTER CAMERA NO. 188

LENS SERIAL NO. 272435
EQUIVALENT OPERATIONAL FOCAL LENGTH 679.682 MM

RESOLUTION

STATIC		LINES/MM	FILM TYPE	TARGET CONTR.
	BENCH TEST	265	3484	HIGH
		157	3484	LOW

DYNAMIC

BOSTON	181	3484	HIGH
	121	3484	LOW
AF	158	3484	HIGH
	117	3484	LOW

NOTE BOSTON RESOLUTION OF 181 LINES/MM REPORTED IN XXXXXXXXXX

DISTORTION - POSITIVE (PINCUSHION)

ANGLE OFF AXIS-DEG.	3	2	1	0	359	358	357
MILLIMETERS	0.001	0.000	0.000	0.000	0.000	0.001	0.003

SYSTEM NO. J-36
 VEHICLE NO. 1628
 MISSION NO. 1835-1
 CAMERA NOS. 188/189

LENS DATA SUMMARY (HORIZON CAMERAS FOR MASTER CAMERA NO. 188)

	TAKE-UP	SUPPLY
LENS SERIAL NO.	12898	12888
OPERATIONAL FOCAL LENGTH.	55.87 MM	54.96 MM
RADIAL DISTORTION		
18 DEG. OFF AXIS	0.824 MM	0.842 MM
28 DEG. OFF AXIS	2.879 MM	0.188 MM
TANGENTIAL DISTORTION (MAXIMUM VECTOR)	0.832 MM	0.825 MM

RESOLUTION:

ANGLE OFF
 AXIS-DEG.

	0	5	10	15	20	25	27.5	30
TAKE-UP (RADIAL)	289	228	206	181	156	158	-8	43
(TANGENTIAL)	187	185	161	129	83	86	-8	78
SUPPLY (RADIAL)	289	186	206	181	175	134	-8	45
(TANGENTIAL)	187	185	181	155	146	96	-8	62

DYNAMIC (ZERO DEG)

TAKE-UP -8 LINES/MM
 SUPPLY -8 LINES/MM

NOTE

1. DISTORTION AND RESOLUTION ARE READ AT EQUIVALENT OPERATIONAL FOCAL LENGTH.
2. RESOLUTION IN LINES PER MM ON 3484 FILM AND HIGH CONTRAST TARGET.

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VEHICLE NO. 1628
MISSION NO. 1835-1
CAMERA NOS. 188/189

LENS DATA SUMMARY SLAVE CAMERA NO. 189

LENS SERIAL NO. 2122435
EQUIVALENT OPERATIONAL FOCAL LENGTH 609.602 MM

RESOLUTION

STATIC		LINES/MM	FILM TYPE	TARGET CONTR.
	BENCH TEST	251	3484	HIGH
		153	3484	LOW
DYNAMIC				
	BOSTON	171	3484	HIGH
		115	3484	LOW
	AP	174	3484	HIGH
		118	3484	LOW

NOTE: BOSTON RESOLUTION OF 171 LINES/MM REPORTED IN XXXXXXXXXX

DISTORTION - POSITIVE (PINCUSHION)

ANGLE OFF AXIS-DEG.	3	2	1	0	359	358	357
MILLIMETERS	0.002	0.002	0.002	0.000	0.002	0.001	0.002

SYSTEM NO. J-36
 VEHICLE NO. 1628
 MISSION NO. 1835-1
 CAMERA NOS. 188/189

LENS DATA SUMMARY (HORIZONTAL CAMERAS FOR SLAVE CAMERA NO. 189)

	TAKE-UP	SUPPLY
LENS SERIAL NO.	12887	12835
OPERATIONAL FOCAL LENGTH	54.95 MM	54.95 MM
RADIAL DISTORTION		
18 DEG. OFF AXIS	0.832 MM	0.812 MM
28 DEG. OFF AXIS	0.862 MM	0.842 MM
TANGENTIAL DISTORTION (MAXIMUM VECTOR)	0.832 MM	0.812 MM

RESOLUTION

ANGLE OFF AXIS-DEG.	5	10	15	22	25	27.5	30
TAKE-UP (RADIAL)	289	298	286	181	175	152	-2 31
(TANGENTIAL)	289	185	181	155	138	96	-2 62
SUPPLY (RADIAL)	289	298	286	252	175	134	-2 45
(TANGENTIAL)	187	185	161	155	138	96	-8 62
DYNAMIC (ZERO DEG)							
TAKE-UP	-P	LINES/MM					
SUPPLY	-P	LINES/MM					

NOTE

1. DISTORTION AND RESOLUTION ARE READ AT EQUIVALENT OPERATIONAL FOCAL LENGTH.
2. RESOLUTION IN LINES PER MM ON 3484 FILM AND HIGH CONTRAST TARGET.

SYSTEM NO. J-36
 VEHICLE NO. 1628
 MISSION NO. 1835-1
 CAMERA NOS. 188/189

FORMAT DIMENSIONS AND CALIBRATIONS
 CAMERA NO. 188 CAMERA NO. 189

A	75.910	76.820
B	354.790	354.720
C	789.490	789.130
D	56.461	56.510
E	56.535	56.352
XT	-2.439	0.119
YT	-0.172	-0.147
XS	-0.618	-0.222
YS	-0.141	-0.072
XV0	0.029	-0.330
YV0	0.684	0.469
DTX	-0.438	0.112
DTY	1.828	1.853
DSX	-2.612	-0.221
DSY	-2.141	-2.072
DMX	-0.042	-0.313
DMY	20.684	20.469
HEIGHT	55.272	56.156
WIDTH	753.570	754.660
DIRECTION		
	FLIGHT -Y	+Y
	SCRN +X	+X

- NOTE 1. ALL DIMENSIONS ARE IN MILLIMETERS AND ARE AVERAGE DIMENSIONS OF THREE FORMATS.
 2. HEIGHT OF AIN FOR AT IS TAKEN AT CENTER OF FORMAT.
 3. DT, DM, DS, X, AND Y DIMENSIONS ARE TAKEN 10MM ABOVE POINT DEFINING TARGET CENTER.
 4. NEGATIVE VIEWED WITH EMULSION SIDE DOWN.
 5. FORMAT SIGN CONVENTION.

	1	
-X+Y	1	+X+Y
-X-Y	1	+X-Y

SYSTEM NO. J-36
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MISSION NO. 1835-1
CAMERA NOS. 188/189

LENS DATA SUMMARY STELLAR INDEX D95/112/113 -1 MISSION

	STELLAR	INDEX
LENS SERIAL NO.	11385	828194
RESEAU SERIAL NO.	113	112
FILTER TYPE	NONE	WRATTEN 21
APERTURE	F1.8	F4.5
EXPOSURE TIME	1.0 SEC.	1/500 SEC.
EQUIVALENT FOCAL LENGTH	84 MM	38.42 MM

RESOLUTION (INDEX)

ANGLE OFF AXIS 0 15 28 38 39

HIGH CONTRAST R/T (3400 FILM) 871/67 867/78 182/78 188/46 887/

AWAR 72 LINES/MM
READ FROM 4400 FILM.

DISTORTION

FULL DATA TO BE REPORTED AS PART OF PHOTOGONIOMETER
DATA REDUCTION.

ALIGNMENT	STELLAR	INDEX
	-0.0009 INCHES/.937 INCHES	-0.0008 INCHES/2.25 I



SYSTEM NO. J-36
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 MISSION NO. 1835-1
 CAMERA NOS. 188/189

LENS DATA SUMMARY STELLAR INDEX D96/184/116 -2 MISSION

	STELLAR	INDEX
LENS SERIAL NO.	18721	819197
RESEAU SERIAL NO.	116	184
FILTER TYPE	NONE	WRATTEN 21
APERTURE	F1.8	F4.5
EXPOSURE TIME	1.8 SEC.	1/500 SEC.
EQUIVALENT FOCAL LENGTH	84 MM	38.48 MM

RESOLUTION (INDEX)

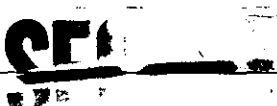
ANGLE OFF AXIS	8	18	28	38	35
HIGH CONTRAST-R/T (3400 FILM)	848/48	867/69	898/77	896/41	898/29

AWAR 71 LINES/MM
 REAR FRO- 4400 FILM.

DISTORTION

FULL DATA TO BE REPORTED AS PART OF PHOTOGONIOMETER
 DATA REDUCTION.

ALIGNMENT	STELLAR	INDEX
	-0.0007 INCHES/.937 INCHES	-0.0007 INCHES/2.25 INC



SYSTEM NO. J-36
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MISSION NO. 1835-1
CAMERA NOS. 188/189

CYCLE PERIOD DATA

V/H LEVEL	RAMP AMPLITUDE	SETTING RAMP-SEC	TIME UP RAMP-SEC	---CALIBRATED---		---IN-FLIGHT---		OF CYCLE PERIOD-SEC NO
				MASTER	SLAVE	MASTER	SLAVE	
7	3		188	4.722	4.727	4.742	4.745	
8	2		1789	2.239	2.238	2.287	2.282	1
8	2		1785	2.234	2.226	2.265	2.268	3
8	2		1848	2.232	2.224	2.272	2.265	4
8	2		1928	2.249	2.231	2.296	2.278	6

NOTE

A - P OR * INDICATE NO DATA AVAILABLE.

- A. 1835-1
- B. DRY
- C. PERFORMANCE ESTIMATE - PART ONE

OPERATIONS SUMMARY

FWD PAN CAMERA		NUMBER	188															
OPN NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM						
PRE-FLT 126																		
1	4	0	12	ON	2	57	7	146	16W	739173	766224	20	22	43	0	1257	81780	
				OFF	2	54	45	145	45W	725799	752342	20	22	43	36	13	8	81816
3	7	1	14	ON	2	65	16	165	26E	784763	813547	21	1	42	39	1244	6159	
				OFF	2	62	18	166	36E	765941	794808	21	1	43	25	1249	6285	
4	7	1	16	ON	2	45	25	147	11E	673877	698459	21	3	18	26	13	7	11986
				OFF	2	42	15	147	31E	668587	684669	21	3	19	13	13	9	11953
4	9	4	13	ON	3	24	14	15	1E	788687	726279	21	3	34	27	1334	12867	
				OFF	3	22	36	152	7E	713767	739853	21	3	35	2	1335	12982	
5	5	6	76	ON	2	53	31	123	11E	718816	736793	21	4	47	16	13	8	17236
				OFF	2	41	38	124	46E	656310	688231	21	4	50	12	13	9	17412
6	9	2	124	ON	2	61	14	98	32E	751171	778677	21	6	16	18	1258	22578	
				OFF	2	41	2	132	6E	648538	672166	21	6	21	24	13	9	22884
7	2	4	180	ON	2	59	46	76	8E	748381	767477	21	7	47	28	1251	28848	
				OFF	2	41	42	79	8E	652978	676773	21	7	51	48	13	8	28388
8	2	2	18	ON	1	39	2	189	W	1273357	1321172	21	8	57	47	141	32267	
				OFF	1	41	59	188	45W	1256125	1383255	21	8	58	34	143	32314	
8	7	6	24	ON	2	58	49	55	13E	698538	715748	21	9	28	22	13	1	33622
				OFF	2	46	44	55	47E	671596	696196	21	9	21	23	13	4	33683
8	7	6	19	ON	2	26	36	57	28E	689859	632835	21	9	26	19	1315	33979	
				OFF	2	23	33	57	28E	685529	627542	21	9	27	3	1316	34823	
9	9	2	16	ON	2	61	13	37	6E	743798	771725	21	10	48	34	1248	38914	
				OFF	2	58	12	38	57E	726611	753185	21	10	49	19	1253	38959	
9	9	4	28	ON	2	47	23	32	54E	672591	697125	21	10	51	59	13	3	39119
				OFF	2	42	37	33	26E	652910	676782	21	10	53	9	13	6	39189
9	9	5	23	ON	2	25	36	34	35E	627225	629281	21	10	57	28	1315	39448	
				OFF	2	21	53	34	44E	622331	624744	21	10	58	14	1317	39494	
9	9	0	62	ON	2	15	42	34	58E	628328	622147	21	10	59	45	1319	39585	
				OFF	2	1	55	35	21E	616675	639186	21	11	3	6	1324	39786	
14	1	1	10	ON	2	78	16	98	25E	846458	877598	21	18	18	11	1144	65891	
				OFF	2	75	33	93	36E	827881	857396	21	18	18	55	12	4	65935
16	1	2	15	ON	2	35	3	125	35E	623121	645795	21	21	38	37	13	8	77437
				OFF	2	32	29	125	25E	616892	639332	21	21	31	15	13	9	77475
19	7	2	16	ON	2	24	26	166	43E	628593	622422	22	2	6	33	1313	7593	
				OFF	2	17	45	166	49E	618229	622844	22	2	7	12	1314	7632	
21	2	5	91	ON	2	53	19	118	18E	667159	712242	22	5	8	5	1253	18885	
				OFF	2	38	22	128	8E	629752	652672	22	5	3	46	13	4	18226
21	2	5	45	ON	2	32	48	128	38E	611728	633865	22	5	5	36	13	8	18336
				OFF	2	23	17	121	8E	682821	623984	22	5	7	26	1311	18446	
22	2	4	67	ON	2	59	48	94	1E	718713	744889	22	6	29	15	1245	23355	
				OFF	2	48	29	96	16E	604856	689299	22	6	32	3	1257	23523	
22	2	6	48	ON	2	45	19	96	39E	652322	676293	22	6	32	58	1259	23578	
				OFF	2	37	58	97	21E	628863	658922	22	6	34	38	13	4	23678

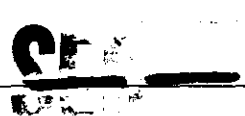
23	1	4	20	ON	2	47	59	73	31E	661966	686899	22	8	2	58	1257	28978	
				OFF	2	44	33	73	56E	648701	672335	22	8	3	49	1259	29029	
23	1	6	61	ON	2	36	47	74	38E	624319	647037	22	8	5	43	13	4	29143
				OFF	2	27	13	75	13E	605646	627664	22	8	8	3	13	8	29283
25	5	1	15	ON	2	59	33	25	41E	713853	739945	22	11	1	40	1244	39700	
				OFF	2	56	48	26	23E	699817	725378	22	11	2	21	1247	39741	
25	5	5	34	ON	2	48	13	27	53E	661216	685321	22	11	4	28	1256	39868	
				OFF	2	42	35	28	32E	648501	663027	22	11	5	51	13	0	39951
25	5	8	33	ON	2	31	50	29	22E	612350	634619	22	11	8	29	13	5	40109
				OFF	2	26	36	29	38E	604574	626552	22	11	9	46	13	8	40186
27	1	5	36	ON	2	23	59	15	50E	602068	623953	22	14	11	56	13	8	51116
				OFF	2	18	13	15	36E	600934	622776	22	14	13	20	1310	51200	
30	1	6	28	ON	2	12	49	83	50E	605417	627427	22	18	46	59	1311	67619	
				OFF	2	3	19	83	43E	612367	634657	22	18	48	5	1313	67685	
31	1	3	42	ON	2	37	47	107	50E	622895	645560	22	20	11	40	13	0	72700
				OFF	2	31	2	107	23E	609141	631292	22	20	13	19	13	3	72799
32	1	1	19	ON	2	71	9	139	24E	770031	798254	22	21	34	9	1216	77649	
				OFF	2	67	24	136	57E	747824	775203	22	21	35	6	1227	77706	
36	9	1	27	ON	2	62	9	134	43E	703559	729261	23	3	39	58	1238	13198	
				OFF	2	55	30	135	52E	601506	706376	23	3	41	7	1244	13267	
36	9	3	57	ON	2	50	40	136	44E	661285	685186	23	3	42	19	1249	13339	
				OFF	2	41	24	137	51E	629485	652397	23	3	44	36	1256	13476	
36	7	6	37	ON	3	16	35	140	9E	712692	738736	23	3	58	43	1319	14323	
				OFF	3	23	24	140	24E	754043	781656	23	4	0	23	1322	14423	
37	7	3	212	ON	2	53	43	113	25E	672566	697298	23	5	12	19	1246	18739	
				OFF	2	20	30	116	18E	600872	622712	23	5	20	27	13	5	19227
38	3	3	20	ON	2	58	6	89	40E	691152	716386	23	6	42	0	1240	24120	
				OFF	2	53	23	90	41E	670091	694531	23	6	43	10	1245	24190	
39	2	7	65	ON	2	45	57	68	59E	641121	664471	23	8	15	45	1251	29745	
				OFF	2	35	43	69	55E	613903	636314	23	8	18	15	1257	29895	
47	5	5	53	ON	2	33	13	47	17E	609061	631207	23	9	49	37	1258	35377	
				OFF	2	24	51	47	44E	600899	622740	23	9	51	39	13	2	35499
41	2	2	14	ON	2	55	0	21	59E	673751	698329	23	11	15	1	1243	40501	
				OFF	2	52	30	22	26E	603891	680097	23	11	15	36	1245	40536	
41	2	6	20	ON	2	45	21	23	28E	637582	660799	23	11	17	24	1251	40644	
				OFF	2	40	37	23	57E	623962	646667	23	11	18	34	1254	40714	
45	0	2	10	ON	3	15	1	65	20E	713497	739574	23	17	35	6	1314	63306	
				OFF	3	17	59	64	56E	730920	757635	23	17	35	50	1316	63350	
46	0	1	34	ON	2	41	21	90	5	623466	646153	23	18	52	6	1251	67926	
				OFF	2	36	0	89	39E	611977	634232	23	18	53	25	1254	68005	
47	0	1	39	ON	2	37	42	112	34E	614805	637251	23	20	23	44	1253	73424	
				OFF	2	31	29	112	9E	605236	627239	23	20	25	15	1256	73515	
52	9	2	90	ON	2	56	29	130	57E	669733	694160	24	3	52	48	1236	13968	
				OFF	2	41	11	133	10E	620312	642080	24	3	56	34	1249	14194	
52	9	7	10	ON	3	22	22	135	39E	707500	795707	24	4	12	3	1314	15123	
				OFF	3	25	58	135	49E	792168	821231	24	4	12	56	1316	15176	
53	0	4	212	ON	2	53	9	100	49E	655010	679712	24	5	24	21	1239	19461	
				OFF	2	19	57	111	37E	603609	625634	24	5	32	28	1258	19948	
54	2	6	4	ON	2	46	14	87	3E	632315	655334	24	6	56	47	1245	25007	
				OFF	2	39	50	87	42E	616573	639001	24	6	58	21	1249	25101	
54	2	8	42	ON	2	33	20	88	11E	606193	628232	24	6	59	56	1252	25196	

55	2	6	65	ON	2	49	35	63	49E	641866	665244	24	8	26	41	1242	38481	
				OFF	2	39	17	64	58E	615134	637588	24	8	29	12	1249	38552	
56	4	4	44	ON	2	38	39	42	46E	623481	625418	24	12	2	2	1253	36122	
				OFF	2	23	46	43	6E	602153	624241	24	12	3	42	1256	36222	
57	2	5	16	ON	2	43	34	18	59E	623619	646311	24	11	29	36	1245	41376	
				OFF	2	48	52	19	15E	617512	639976	24	11	38	16	1247	41416	
58	4	3	35	ON	2	18	7	2	14W	686935	629281	24	13	6	31	1257	47191	
				OFF	2	12	34	2	4W	616877	638486	24	13	7	52	1259	47272	
59	1	2	15	ON	2	69	53	33	53W	724613	751113	24	14	24	31	12	8	51871
				OFF	2	67	7	32	13W	712541	736588	24	14	25	13	1216	51913	
60	1	6	35	ON	3	14	13	46	55W	726226	752778	24	16	15	58	13	8	58558
				OFF	3	22	54	46	41W	768856	796281	24	16	17	28	1318	58648	
63	2	8	14	ON	2	35	24	117	14W	686878	628943	24	2	35	53	1247	74153	
				OFF	2	33	4	116	52W	624578	626548	24	2	36	27	1248	74187	
67	9	4	21	ON	2	48	23	15	34E	638478	653428	25	2	35	32	1237	9332	
				OFF	2	45	12	15	58E	622397	645244	25	2	36	19	1249	9379	
68	2	5	87	ON	2	56	41	126	19E	656126	688239	25	4	4	11	1229	14651	
				OFF	2	42	59	128	25E	617894	639542	25	4	7	33	1241	14853	
69	6	2	52	ON	2	56	51	183	38E	655777	679678	25	5	34	51	1228	22891	
				OFF	2	42	26	124	59E	629243	652147	25	5	36	55	1236	28215	
69	6	4	64	ON	2	42	46	185	39E	616158	638571	25	5	38	18	1248	28298	
				OFF	2	32	45	186	26E	633345	625278	25	5	48	44	1246	28444	
69	6	7	65	ON	2	27	41	126	43E	682185	624274	25	5	41	59	1248	28519	
				OFF	2	17	33	127	8E	611138	633361	25	5	44	26	1252	28666	
70	2	4	115	ON	2	59	42	79	59E	665575	689845	25	7	4	58	1224	25498	
				OFF	2	41	27	83	8E	613253	635557	25	7	9	19	1241	25759	
70	2	8	35	ON	2	35	18	83	29E	685856	627453	25	7	12	49	1244	25849	
				OFF	2	29	6	83	52E	622875	623968	25	7	12	28	1247	25948	

OPERATIONS SUMMARY

AFT PAIR	CAMERA	NUMBER																
OPN NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM						
PRE-FLT	127																	
1	4	6	15	ON	2	57	22	146	23W	734478	761342	24	22	43	12	1257	81792	
				OFF	2	54	58	145	52W	721273	747645	26	22	43	48	13	8	81828
3	7	1	15	ON	2	65	37	165	14E	779589	808176	21	1	42	51	1243	6171	
				OFF	2	62	35	166	26E	752944	788821	21	1	43	37	1249	6217	
4	7	1	18	ON	2	45	34	147	7E	672263	694788	21	3	18	38	13	6	11918
				OFF	2	42	22	147	27E	657291	681248	21	3	19	25	13	9	11965
4	9	4	13	ON	3	24	2	149	57E	715218	730982	21	3	34	39	1334	12879	
				OFF	3	22	23	151	2E	718544	744812	21	3	35	14	1335	12914	
5	5	6	77	ON	2	53	43	123	5E	716511	732325	21	4	47	28	1259	17248	
				OFF	2	41	45	124	42E	653113	676913	21	4	50	24	13	9	17424
6	9	2	125	ON	2	61	26	98	23E	746334	773657	21	5	16	22	1249	22582	
				OFF	2	41	8	122	2E	645546	669261	21	5	21	36	13	9	22896
7	2	4	115	ON	2	66	2	76	8E	755669	762587	21	7	47	32	1251	28252	
				OFF	2	41	49	79	4E	649844	673521	21	7	52	13	8	28328	
8	2	8	115	ON	1	37	58	189	12W	1268811	1316445	21	8	57	59	148	32279	
				OFF	1	48	57	168	57W	1251437	1298381	21	8	58	46	142	32326	

8	7	6	24	ON	2	51	0	55	7E	686560	711620	21	9	20	34	13	0	33634	
				OFF	2	46	53	55	42E	668093	692457	21	9	21	35	13	4	33695	
8	7	8	19	ON	2	26	39	57	16E	608522	630648	21	9	26	31	13	15	33991	
				OFF	2	23	36	57	25E	604580	626558	21	9	27	15	13	16	34235	
9	9	2	16	ON	2	61	28	29	57E	739046	766092	21	10	48	46	12	48	38926	
				OFF	2	58	25	30	50E	722269	748472	21	10	49	31	12	52	38971	
9	9	4	28	ON	2	47	32	32	49E	668958	693355	21	10	52	11	13	3	39131	
				OFF	2	42	44	33	22E	649750	673424	21	10	53	21	13	6	39201	
9	9	5	24	ON	2	25	38	34	32E	606829	628062	21	10	57	32	13	15	39452	
				OFF	2	21	55	34	41E	622137	624224	21	10	58	26	13	17	39526	
9	9	6	89	ON	2	15	42	34	54E	600458	622282	21	10	59	57	13	19	39597	
				OFF	2	1	59	35	17E	618658	641163	21	10	3	18	13	24	39798	
14	1	1	13	ON	2	78	39	99	21E	842941	871870	21	10	18	23	11	40	65903	
				OFF	2	75	55	94	11E	821583	851772	21	10	19	16	7	12	2	65947
16	1	0	16	ON	2	35	7	125	38E	620980	643573	21	21	30	49	13	8	77449	
				OFF	2	32	32	125	29E	615254	637425	21	21	31	27	13	9	77487	
19	7	2	17	ON	2	20	29	166	40E	600357	622177	22	2	6	45	13	13	7605	
				OFF	2	17	47	166	46E	600349	622168	22	2	7	24	13	14	7644	
21	2	5	92	ON	2	53	20	118	13E	683286	708223	22	5	0	17	12	52	18017	
				OFF	2	38	27	120	4E	627362	650195	22	5	3	58	13	4	18238	
21	2	8	49	ON	2	30	51	120	35E	610219	632408	22	5	5	48	13	7	18340	
				OFF	2	23	19	120	56E	601468	623332	22	5	7	38	13	11	18458	
22	2	4	67	ON	2	60	1	93	54E	714348	740459	22	6	29	27	12	44	23367	
				OFF	2	48	37	96	11E	661444	685558	22	6	32	15	12	56	23535	
22	2	6	46	ON	2	45	26	96	35E	649220	672874	22	6	33	2	12	59	23582	
				OFF	2	38	3	97	17E	625746	648518	22	6	34	50	13	3	23690	
23	1	4	21	ON	2	40	7	73	27E	658627	682635	22	8	3	10	12	56	28990	
				OFF	2	44	39	73	52E	645704	669225	22	8	4	1	12	59	29041	
23	1	6	61	ON	2	36	51	74	35E	622163	644000	22	8	5	55	13	4	29155	
				OFF	2	27	15	75	9E	604643	626624	22	8	6	15	13	8	29295	
25	5	1	15	ON	2	59	46	25	34E	709576	735506	22	11	1	52	12	43	39712	
				OFF	2	56	59	26	16E	695752	721159	22	11	2	33	12	47	39753	
25	5	5	34	ON	2	40	21	27	49E	657906	681086	22	11	4	40	12	55	39880	
				OFF	2	42	41	26	28E	637758	660981	22	11	6	3	12	59	39963	
25	5	0	34	ON	2	31	53	29	18E	610031	633043	22	11	8	41	13	5	40121	
				OFF	2	26	30	29	35E	603703	625648	22	11	9	58	13	8	40198	
27	1	5	37	ON	2	24	2	15	53E	601583	623449	22	14	12	8	13	8	51128	
				OFF	2	10	15	15	40E	601222	623054	22	14	13	32	13	0	51212	
30	1	6	20	ON	2	12	50	03	53E	606477	628526	22	10	47	11	13	11	67631	
				OFF	2	0	22	03	46E	614043	636375	22	10	48	17	13	12	67697	
31	1	3	43	ON	2	37	51	107	53E	620839	643427	22	20	11	52	13	0	72712	
				OFF	2	31	5	107	26E	607880	629982	22	20	13	31	13	3	72811	
32	1	1	20	ON	2	71	26	139	41E	765168	793206	22	21	34	21	12	15	77661	
				OFF	2	67	39	137	9E	743176	770379	22	21	35	18	12	26	77710	
35	0	1	27	ON	2	60	21	134	36E	699493	725042	23	3	40	10	12	38	13210	
				OFF	2	55	39	135	46E	677814	702544	23	3	41	19	12	44	13279	
36	0	3	00	ON	2	50	40	136	39E	657822	681500	23	3	42	31	12	48	13351	
				OFF	2	41	29	137	47E	627160	649985	23	3	44	40	12	55	13488	
36	7	0	37	ON	3	16	22	140	5E	717474	743701	23	3	50	55	13	19	14335	
				OFF	3	23	7	140	19E	759471	787290	23	4	0	35	13	21	14435	
37	7	3	212	ON	2	53	51	113	20E	609052	693452	23	5	12	31	12	45	18751	



			OFF	2	28	32	116	15E	601187	622955	23	5	28	39	13	5	19239	
38	3	3	28 ON	2	58	17	89	34E	687293	712381	23	6	42	12	1248		24132	
			OFF	2	53	31	98	36E	666632	698939	23	6	43	22	1245		24282	
39	2	7	65 ON	2	46	2	68	55E	638395	661642	23	8	15	57	1251		29757	
			OFF	2	35	46	69	52E	612378	634649	23	8	18	27	1257		29987	
40	8	5	53 ON	2	33	16	47	14E	607779	629878	23	9	49	49	1258		35389	
			OFF	2	24	54	47	48E	608652	622484	23	9	51	51	13	2		35511
41	2	2	14 ON	2	55	9	21	54E	678221	694666	23	11	15	13	1242		42513	
			OFF	2	52	46	22	21E	668571	684652	23	11	15	48	1245			48548
41	2	6	36 ON	2	45	27	23	24E	634969	658887	23	11	17	36	1251		48656	
			OFF	2	48	41	23	53E	621854	644488	23	11	18	46	1254			48726
45	8	2	16 ON	3	14	48	65	6E	718284	744542	23	17	35	18	1314		63318	
			OFF	3	17	45	65	1E	735981	762988	23	17	36	2	1315			63362
46	8	1	34 ON	2	41	25	92	8E	621414	644823	23	18	52	18	1251		67938	
			OFF	2	36	3	89	42E	618538	632731	23	18	53	37	1254			68817
47	8	1	42 ON	2	37	46	112	37E	613269	635573	23	20	23	56	1253		73436	
			OFF	2	31	31	112	12E	604354	626324	23	27	25	27	1256			73527
52	9	2	97 ON	2	56	37	137	51E	666359	698658	24	3	53	8	1236		13988	
			OFF	2	41	14	133	6E	618443	648941	24	3	56	46	1249			14286
52	9	7	18 ON	3	22	4	135	35E	773155	801494	24	4	12	15	1314		15135	
			OFF	3	25	32	135	43E	798828	827315	24	4	13	8	1315			15188
53	8	4	21 ON	2	53	16	128	45E	652756	676543	24	5	24	33	1239		19473	
			OFF	2	19	59	111	34E	604417	626389	24	5	32	48	1258			19968
54	2	6	47 ON	2	46	19	86	59E	629962	652893	24	6	56	59	1244		25819	
			OFF	2	39	53	87	39E	614988	637274	24	6	58	33	1248			25113
54	2	8	41 ON	2	33	22	86	8E	605288	627285	24	7	8	8	1252		25288	
			OFF	2	26	52	88	29E	601674	623544	24	7	1	43	1255			25383
55	2	6	69 ON	2	49	41	63	45E	639285	662483	24	8	26	53	1241		38413	
			OFF	2	39	21	64	54E	613557	635872	24	8	29	24	1248			38564
56	4	4	46 ON	2	34	41	42	43E	602946	624863	24	10	2	14	1252		36134	
			OFF	2	23	48	43	3E	602474	624373	24	10	3	54	1255			36234
57	2	8	17 ON	2	43	38	18	56E	621627	644245	24	11	29	48	1245		41388	
			OFF	2	48	55	19	12E	615814	638213	24	11	32	28	1247			41428
58	4	3	35 ON	2	18	14	2	18E	628825	638132	24	13	6	43	1257		47283	
			OFF	2	12	38	2	7E	617875	648351	24	13	8	4	1259			47284
59	1	2	16 ON	2	72	6	34	5E	722428	746748	24	14	24	43	12	8	51883	
			OFF	2	67	19	32	23E	706518	732333	24	14	25	25	1215			51925
60	1	6	34 ON	3	13	59	46	59E	731177	757922	24	15	16	2	13	7	58562	
			OFF	3	23	36	48	46E	773618	801974	24	15	17	48	1318			58668
63	2	8	14 ON	2	35	26	117	4E	605959	627989	24	20	36	5	1247		74165	
			OFF	2	33	6	116	55E	603927	625881	24	20	36	39	1248			74199
67	8	4	21 ON	2	48	27	152	32E	628248	651114	25	2	35	44	1237		9344	
			OFF	2	45	14	150	54E	628496	643871	25	2	36	31	1239			9391
68	2	5	87 ON	2	56	48	126	14E	653137	676838	25	4	4	23	1229		14663	
			OFF	2	43	2	128	21E	615453	637842	25	4	7	45	1248			14865
69	6	2	52 ON	2	56	58	183	25E	652799	676588	25	5	35	3	1228		28183	
			OFF	2	47	37	184	55E	627162	649881	25	5	37	7	1236			28227
69	8	4	61 ON	2	42	49	185	35E	614568	636821	25	5	38	32	1248		28318	
			OFF	2	32	48	186	23E	602897	624813	25	5	40	56	1246			28456
69	6	7	65 ON	2	27	42	186	48E	602356	624251	25	5	42	11	1248		28531	
			OFF	2	17	37	187	4E	612571	634848	25	5	44	38	1252			28678



70	2	4	116	ON	2	59	50	79	53E	662377	686526	25	7	5	2	1224	25502
				OFF	2	41	30	82	56E	611833	634284	25	7	9	31	1241	25771
70	2	8	35	ON	2	35	21	83	26E	604334	626304	25	7	11	1	1244	25861
				OFF	2	29	8	83	48E	602095	623900	25	7	12	32	1247	25952

PHOTOGRAPHIC SUMMARY

END PAN CAMERA NO 186 0.2250 SLIT #/23AFILTER 3404 FILM

OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI
PRE-FLT	126	333.3							
1 4 0	12	31.7	ON 231	32.4	28.6	11.86	12.32	11.72	11.12
			OFF 231	34.5	29.3	11.89	12.34	11.74	11.14
3 7 1	14	37.9	ON 213	25.2	26.4	11.74	12.21	11.61	11.01
			OFF 224	27.7	27.8	11.78	12.26	11.66	11.06
4 7 1	18	47.6	ON 257	42.6	32.7	12.01	12.48	11.89	11.20
			OFF 262	45.3	34.4	12.04	12.41	11.81	11.21
4 9 4	13	34.4	ON 259	57.4	132.6	12.01	12.42	11.82	11.22
			OFF 254	55.7	135.2	11.99	12.42	11.82	11.22
5 5 6	76	271.0	ON 283	35.6	29.2	12.15	12.35	11.75	11.15
			OFF 305	45.8	34.6	12.26	12.42	11.82	11.22
6 9 2	124	328.0	ON 235	26.7	26.9	11.88	12.28	11.68	11.08
			OFF 277	47.1	35.4	12.12	12.42	11.82	11.22
7 2 4	175	295.7	ON 245	30.8	27.1	11.94	12.29	11.69	11.09
			OFF 261	45.8	34.2	12.13	12.42	11.82	11.22
9 2 8	10	26.5	ON 134	-43.2	32.4	11.07	0.00	0.00	0.00
			OFF 135	-42.4	31.2	11.08	0.00	0.00	0.00
8 7 6	24	63.5	ON 264	37.9	29.8	12.05	12.37	11.77	11.17
			OFF 272	41.5	31.5	12.09	12.40	11.80	11.20
8 7 8	19	50.3	ON 297	57.5	46.5	12.22	12.42	11.82	11.22
			OFF 299	59.5	50.2	12.22	12.42	11.82	11.22
9 9 2	15	42.3	ON 241	28.6	26.5	11.92	12.28	11.68	11.08
			OFF 247	31.4	27.3	11.95	12.31	11.71	11.11
9 9 4	25	74.1	ON 269	40.9	31.1	12.08	12.39	11.79	11.19
			OFF 277	45.2	33.4	12.12	12.41	11.81	11.21
9 9 5	23	67.8	ON 295	58.2	47.5	12.21	12.42	11.82	11.22
			OFF 297	62.6	52.3	12.22	12.42	11.82	11.22
9 9 6	60	232.0	ON 298	64.0	62.3	12.22	12.42	11.82	11.22
			OFF 292	67.1	92.4	12.13	12.42	11.82	11.22
14 1 1	13	34.4	ON 195	12.4	24.3	11.61	11.62	11.62	10.42
			OFF 201	15.1	24.1	11.65	11.82	11.22	10.62
16 1 7	15	39.7	ON 287	51.3	37.2	12.17	12.42	11.82	11.22
			OFF 289	53.4	39.3	12.18	12.42	11.82	11.22
19 7 2	16	42.3	ON 297	62.2	52.5	12.22	12.42	11.82	11.22
			OFF 297	63.6	56.8	12.22	12.42	11.82	11.22
21 2 5	91	242.7	ON 259	35.7	27.2	12.02	12.36	11.76	11.16
			OFF 284	48.7	34.1	12.15	12.42	11.82	11.22
21 2 6	49	129.0	ON 292	54.8	39.9	12.19	12.42	11.82	11.22
			OFF 290	60.3	48.1	12.21	12.42	11.82	11.22
22 2 4	67	177.0	ON 245	29.2	25.3	11.94	12.29	11.69	11.09
			OFF 269	42.2	28.8	12.07	12.39	11.79	11.19
22 2 6	46	121.7	ON 275	42.8	30.2	12.10	12.40	11.80	11.20

			OFF	285	49.1	34.2	12.16	12.42	11.82	11.22		
23	1	4	28	52.9	ON	278	48.4	28.9	12.88	12.39	11.79	11.19
			OFF	276	43.5	38.4	12.11	12.41	11.81	11.21		
23	1	6	61	161.3	ON	287	58.1	34.8	12.17	12.42	11.82	11.22
			OFF	295	57.6	43.1	12.21	12.42	11.82	11.22		
25	5	1	15	39.7	ON	247	38.8	25.7	11.95	12.29	11.69	11.89
			OFF	253	32.5	25.6	11.98	12.33	11.73	11.13		
25	5	5	34	89.9	ON	277	48.2	28.5	12.88	12.39	11.79	11.19
			OFF	279	45.2	31.1	12.13	12.41	11.81	11.21		
25	5	8	33	87.3	ON	292	54.1	38.3	12.19	12.42	11.82	11.22
			OFF	295	56.1	43.4	12.21	12.42	11.82	11.22		
27	1	5	36	95.2	ON	296	68.7	46.1	12.21	12.42	11.82	11.22
			OFF	297	63.8	54.4	12.21	12.42	11.82	11.22		
30	1	6	28	74.1	ON	298	66.7	63.5	12.22	12.42	11.82	11.22
			OFF	294	68.4	74.2	12.27	12.42	11.82	11.22		
31	1	3	42	111.1	ON	292	49.3	32.9	12.19	12.42	11.82	11.22
			OFF	297	54.9	37.9	12.22	12.42	11.82	11.22		
32	1	1	19	58.3	ON	225	19.8	22.3	11.82	12.32	11.42	11.82
			OFF	235	22.5	22.7	11.88	12.15	11.55	11.95		
36	9	1	27	71.4	ON	255	29.3	23.5	12.88	12.29	11.69	11.89
			OFF	260	33.6	24.6	12.85	12.34	11.74	11.14		
36	9	3	57	154.8	ON	274	38.4	26.1	12.16	12.37	11.77	11.17
			OFF	285	46.3	38.8	12.17	12.42	11.82	11.22		
36	7	6	37	97.9	ON	249	62.8	131.8	11.96	12.42	11.82	11.22
			OFF	233	57.9	139.4	11.87	12.42	11.82	11.22		
37	7	3	212	565.7	ON	269	35.2	25.7	12.87	12.35	11.75	11.15
			OFF	307	62.9	48.8	12.23	12.42	11.82	11.22		
38	3	3	28	74.1	ON	264	31.2	23.7	12.83	12.31	11.71	11.11
			OFF	277	35.5	25.8	12.88	12.35	11.75	11.15		
39	2	7	65	171.9	ON	263	42.3	27.4	12.15	12.48	11.88	11.28
			OFF	295	51.2	32.9	12.21	12.42	11.82	11.22		
40	8	5	53	148.2	ON	298	53.3	34.6	12.22	12.42	11.82	11.22
			OFF	308	59.9	42.5	12.23	12.42	11.82	11.22		
41	2	2	14	37.8	ON	265	34.4	24.1	12.87	12.34	11.74	11.14
			OFF	271	36.2	24.8	12.89	12.36	11.76	11.16		
41	2	6	29	76.7	ON	285	42.8	27.4	12.15	12.48	11.88	11.28
			OFF	291	47.4	29.7	12.19	12.42	11.82	11.22		
45	8	2	16	42.3	ON	243	64.7	129.4	11.96	12.42	11.82	11.22
			OFF	242	62.7	133.9	11.92	12.42	11.82	11.22		
46	8	1	34	89.9	ON	292	46.4	28.5	12.19	12.42	11.82	11.22
			OFF	295	51.1	31.5	12.21	12.42	11.82	11.22		
47	8	1	39	123.2	ON	295	49.6	36.4	12.21	12.42	11.82	11.22
			OFF	297	54.9	34.7	12.23	12.42	11.82	11.22		
50	9	2	46	253.9	ON	271	32.5	22.4	12.88	12.33	11.73	11.13
			OFF	293	46.6	27.7	12.25	12.42	11.82	11.22		
52	9	7	18	47.6	ON	226	68.1	142.2	11.82	12.42	11.82	11.22
			OFF	217	57.3	143.9	11.76	12.42	11.82	11.22		
53	8	4	212	567.7	ON	275	35.6	23.1	12.12	12.36	11.76	11.16
			OFF	290	64.7	46.2	12.21	12.42	11.82	11.22		
54	2	6	40	145.8	ON	285	42.7	25.2	12.16	12.48	11.88	11.28
			OFF	292	47.8	28.1	12.19	12.42	11.82	11.22		

54	2	8	42	111.1	ON	296	53.5	32.0	12.21	12.42	11.82	11.22
					OFF	297	58.8	37.6	12.22	12.42	11.82	11.22
55	2	6	65	171.9	ON	281	38.9	23.9	12.14	12.38	11.78	11.18
					OFF	293	48.3	28.2	12.20	12.42	11.82	11.22
56	4	4	44	116.4	ON	297	55.7	33.7	12.22	12.42	11.82	11.22
					OFF	297	61.3	42.5	12.22	12.42	11.82	11.22
57	2	5	16	42.3	ON	289	44.4	25.8	12.18	12.41	11.81	11.21
					OFF	292	46.9	27.1	12.19	12.42	11.82	11.22
58	4	3	35	92.6	ON	294	65.4	48.0	12.20	12.42	11.82	11.22
					OFF	289	68.8	58.6	12.18	12.42	11.82	11.22
59	1	2	15	39.7	ON	243	19.6	19.4	11.93	12.25	11.45	10.85
					OFF	240	22.3	19.7	11.96	12.14	11.54	10.94
60	1	6	35	92.6	ON	239	66.6	129.6	11.90	12.42	11.82	11.22
					OFF	223	61.9	139.5	11.84	12.42	11.82	11.22
63	2	3	14	37.2	ON	296	51.8	29.1	12.21	12.42	11.82	11.22
					OFF	297	53.8	38.6	12.22	12.42	11.82	11.22
67	9	4	23	52.9	ON	287	40.0	22.6	12.17	12.39	11.79	11.19
					OFF	294	42.9	23.7	12.19	12.40	11.80	11.20
68	2	5	27	230.1	ON	275	32.2	27.3	12.11	12.32	11.72	11.12
					OFF	292	45.2	24.5	12.19	12.41	11.81	11.21
69	6	2	52	137.5	ON	275	32.2	20.2	12.11	12.32	11.72	11.12
					OFF	287	39.9	22.3	12.17	12.39	11.79	11.19
69	6	4	64	169.3	ON	293	45.2	24.4	12.20	12.41	11.81	11.21
					OFF	297	54.1	29.8	12.22	12.42	11.82	11.22
69	6	7	65	171.9	ON	297	58.5	33.8	12.22	12.42	11.82	11.22
					OFF	291	66.3	46.4	12.19	12.42	11.82	11.22
70	2	4	115	304.2	ON	271	29.2	19.5	12.08	12.28	11.68	11.08
					OFF	294	46.4	24.2	12.20	12.42	11.82	11.22
70	2	8	35	105.8	ON	297	51.9	28.0	12.22	12.42	11.82	11.22
					OFF	297	57.3	32.4	12.22	12.42	11.82	11.22

PHOTOGRAPHIC SUMMARY

AFT PAN	CAMERA NO	189	R.1750	SLIT	#/21	FILTER	3484	FILM			
OPT. NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI		
PRE-FLT	127	335.2									
1	4	13	34.4	ON	301	32.2	28.1	12.24	12.65	12.25	11.45
				OFF	300	34.3	28.9	12.27	12.57	12.27	11.47
3	7	15	39.7	ON	278	24.7	25.7	12.12	12.53	11.93	11.33
				OFF	287	27.5	26.4	12.17	12.59	11.99	11.39
4	7	18	47.6	ON	335	42.5	32.4	12.39	12.73	12.13	11.53
				OFF	342	45.2	34.1	12.42	12.74	12.14	11.54
4	9	13	34.4	ON	337	57.5	132.5	12.42	12.75	12.15	11.55
				OFF	332	55.9	135.1	12.32	12.75	12.15	11.55
5	5	77	223.7	ON	369	35.4	28.8	12.53	12.68	12.08	11.48
				OFF	399	45.7	34.3	12.64	12.75	12.15	11.55
6	9	125	330.6	ON	305	26.5	26.4	12.26	12.60	12.00	11.40
				OFF	362	47.2	35.2	12.52	12.75	12.15	11.55
7	2	1.3	268.3	ON	32	29.8	26.6	12.32	12.62	12.02	11.42
				OFF	363	45.7	34.2	12.51	12.74	12.14	11.54
8	2	12	26.5	ON	175	-43.9	32.7	11.45	0.00	0.00	0.00

8 7 6	24	63.5	OFF 175	-41.4	31.2	11.46	8.88	8.88	8.88
			ON 345	37.8	29.5	12.43	12.78	12.18	11.58
8 7 8	19	58.3	OFF 355	41.4	31.2	12.47	12.73	12.13	11.53
			ON 388	57.4	46.4	12.68	12.75	12.15	11.55
9 9 2	16	42.3	OFF 398	59.5	58.1	12.61	12.75	12.15	11.55
			ON 315	28.4	26.8	12.38	12.68	12.88	11.48
9 9 4	28	74.1	OFF 324	31.2	26.8	12.34	12.64	12.84	11.44
			ON 352	48.8	38.8	12.46	12.72	12.12	11.52
9 9 5	24	63.5	OFF 362	44.9	33.2	12.58	12.74	12.14	11.54
			ON 387	58.2	47.4	12.68	12.75	12.15	11.55
9 9 6	29	235.4	OFF 389	68.6	52.2	12.61	12.75	12.15	11.55
			ON 391	64.8	62.2	12.61	12.75	12.15	11.55
14 1 1	13	34.4	OFF 382	67.2	92.3	12.58	12.75	12.15	11.55
			ON 254	12.6	21.6	11.99	11.52	11.32	10.72
16 1 8	16	42.3	OFF 261	14.7	22.3	12.83	12.12	11.52	10.92
			ON 375	51.3	37.6	12.55	12.75	12.15	11.55
18 7 2	17	45.8	OFF 378	53.3	39.1	12.56	12.75	12.15	11.55
			ON 365	62.8	52.4	12.67	12.75	12.15	11.55
21 2 5	22	243.3	OFF 388	63.6	56.6	12.68	12.75	12.15	11.55
			ON 338	35.6	26.9	12.48	12.68	12.88	11.48
21 2 8	49	129.6	OFF 371	48.7	33.9	12.54	12.75	12.15	11.55
			ON 362	54.6	39.7	12.58	12.75	12.15	11.55
22 2 4	27	177.2	OFF 387	61.3	48.8	12.68	12.75	12.15	11.55
			ON 328	29.6	24.8	12.33	12.62	12.82	11.42
22 2 6	46	121.7	OFF 351	39.9	28.5	12.46	12.72	12.12	11.52
			ON 359	42.7	29.9	12.49	12.73	12.13	11.53
23 1 4	21	55.5	OFF 373	49.8	34.8	12.54	12.75	12.15	11.55
			ON 353	48.3	28.6	12.47	12.72	12.12	11.52
23 1 6	61	161.3	OFF 361	43.4	32.1	12.58	12.74	12.14	11.54
			ON 375	52.8	34.6	12.55	12.75	12.15	11.55
25 5 1	18	39.7	OFF 388	57.6	42.9	12.59	12.75	12.15	11.55
			ON 323	29.8	24.5	12.34	12.62	12.82	11.42
25 5 5	34	89.9	OFF 331	32.4	25.3	12.37	12.65	12.85	11.45
			ON 354	48.1	28.2	12.47	12.72	12.12	11.52
25 5 8	34	89.9	OFF 365	45.1	30.8	12.51	12.74	12.14	11.54
			ON 362	54.1	38.1	12.58	12.75	12.15	11.55
27 1 5	37	97.9	OFF 388	58.1	43.2	12.59	12.75	12.15	11.55
			ON 388	68.8	45.9	12.68	12.75	12.15	11.55
30 1 6	28	74.1	OFF 388	63.8	54.3	12.68	12.75	12.15	11.55
			ON 387	66.8	63.8	12.68	12.75	12.15	11.55
31 1 3	43	113.7	OFF 383	65.4	74.7	12.58	12.75	12.15	11.55
			ON 375	48.3	32.7	12.57	12.75	12.15	11.55
32 1 1	22	52.9	OFF 387	54.9	37.8	12.67	12.75	12.15	11.55
			ON 293	18.7	21.3	12.28	12.34	11.74	11.14
36 9 1	27	71.4	OFF 325	22.3	22.1	12.25	12.47	11.87	11.27
			ON 332	29.1	23.1	12.38	12.61	12.81	11.41
36 9 3	58	153.4	OFF 344	33.5	24.3	12.43	12.67	12.87	11.47
			ON 357	37.9	25.8	12.48	12.78	12.18	11.58
36 7 6	57	97.9	OFF 375	46.2	29.7	12.55	12.75	12.15	11.55
			ON 324	63.8	138.7	12.34	12.75	12.15	11.55
			OFF 383	58.2	139.3	12.25	12.75	12.15	11.55

37	7	3	212	568.7	ON 358	35.1	24.7	12.45	12.68	12.88	11.4
					OFF 392	62.9	48.7	12.61	12.75	12.15	11.5
38	3	3	26	74.1	ON 339	31.8	23.3	12.41	12.64	12.84	11.4
					OFF 351	35.4	24.7	12.46	12.68	12.88	11.4
39	2	7	65	171.9	ON 369	42.2	27.2	12.53	12.73	12.13	11.5
					OFF 384	51.2	32.7	12.59	12.75	12.15	11.5
40	8	5	53	148.2	ON 385	53.3	34.4	12.59	12.75	12.15	11.5
					OFF 389	59.9	42.3	12.62	12.75	12.15	11.5
41	2	2	14	37.8	ON 347	33.9	23.8	12.44	12.67	12.87	11.4
					OFF 352	36.1	24.5	12.46	12.59	12.89	11.4
41	2	6	38	79.3	ON 369	42.7	27.2	12.53	12.73	12.13	11.5
					OFF 376	47.8	29.5	12.56	12.75	12.15	11.5
45	8	2	16	42.3	ON 321	64.9	129.2	12.33	12.75	12.15	11.5
					OFF 312	62.9	133.7	12.29	12.75	12.15	11.5
46	8	1	34	89.9	ON 377	46.3	28.3	12.56	12.75	12.15	11.5
					OFF 383	51.8	31.4	12.58	12.75	12.15	11.5
47	8	1	42	125.8	ON 382	49.6	38.2	12.58	12.75	12.15	11.5
					OFF 387	54.9	34.5	12.62	12.75	12.15	11.5
52	9	2	67	256.6	ON 352	32.4	22.8	12.45	12.65	12.85	11.4
					OFF 379	46.5	27.5	12.57	12.75	12.15	11.5
52	9	7	18	47.6	ON 292	66.4	146.8	12.19	12.75	12.15	11.5
					OFF 25	57.6	143.7	12.13	12.75	12.15	11.5
53	8	4	218	555.4	ON 358	35.5	22.8	12.49	12.68	12.88	11.4
					OFF 386	64.8	46.1	12.59	12.75	12.15	11.5
54	2	6	42	105.8	ON 372	41.9	25.8	12.54	12.73	12.13	11.5
					OFF 381	47.7	27.9	12.56	12.75	12.15	11.5
54	2	8	41	108.4	ON 387	53.4	31.9	12.62	12.75	12.15	11.5
					OFF 388	58.8	37.4	12.68	12.75	12.15	11.5
55	2	6	69	182.5	ON 367	36.9	23.6	12.52	12.71	12.11	11.5
					OFF 382	48.2	28.4	12.58	12.75	12.15	11.5
56	4	4	44	116.4	ON 388	55.7	33.6	12.62	12.75	12.15	11.5
					OFF 388	61.3	42.4	12.68	12.75	12.15	11.5
57	2	5	17	45.1	ON 378	44.4	25.6	12.56	12.74	12.14	11.5
					OFF 381	46.8	26.9	12.57	12.75	12.15	11.5
58	4	3	25	92.6	ON 383	65.4	47.8	12.58	12.75	12.15	11.5
					OFF 377	68.8	56.3	12.56	12.75	12.15	11.5
59	1	2	16	42.3	ON 318	19.4	18.6	12.31	12.37	11.77	11.1
					OFF 322	22.1	19.1	12.34	12.46	11.86	11.2
60	1	6	34	89.0	ON 312	66.8	129.3	12.29	12.75	12.15	11.5
					OFF 291	62.2	139.3	12.19	12.75	12.15	11.5
63	2	8	14	37.8	ON 387	51.7	28.9	12.62	12.75	12.15	11.5
					OFF 382	53.8	38.5	12.62	12.75	12.15	11.5
67	9	4	20	52.9	ON 374	39.9	22.4	12.55	12.72	12.12	11.5
					OFF 374	42.9	23.5	12.57	12.73	12.13	11.5
68	2	5	87	238.1	ON 358	32.8	28.8	12.49	12.65	12.85	11.4
					OFF 382	44.9	24.3	12.58	12.74	12.14	11.5
69	6	2	52	137.5	ON 358	31.9	19.9	12.49	12.65	12.85	11.4
					OFF 378	39.9	22.1	12.55	12.72	12.12	11.5
69	6	4	65	171.9	ON 382	45.1	24.2	12.58	12.74	12.14	11.5
					OFF 382	54.1	29.6	12.62	12.75	12.15	11.5
69	6	7	65	171.9	ON 388	58.5	33.6	12.62	12.75	12.15	11.5

				OFF 382	66.3	46.1	12.57	12.75	12.15	11.55	
70	2	4	116	386.8	ON 353	29.1	19.1	12.46	12.61	12.01	11.41
				OFF 384	46.3	24.6	12.59	12.75	12.15	11.55	
70	2	8	35	185.8	ON 388	51.9	27.8	12.62	12.75	12.15	11.55
				OFF 388	57.3	32.2	12.62	12.75	12.15	11.55	

STELLAR-INDEX SUMMARY

CAMERA DATA	ET	FILM	FILTER	GRID	ASSEMBLY NO	D95
STELLAR	1.0	4401	NONE	112		
INDEX	1/500	4400	W/21	113		

PERFORMANCE SUMMARY

OPN NO	FR	STEL FEET	INDX FEET	H	M	S	G	ON LAT	ON LONG	OFF LAT	OFF LONG	SEC DUR			
PRE-FLT	18	1.78	3.56												
1	4	0	2	0.20	0.40	22	43	0	2	57	146W	2	54	145W	36
3	7	1	2	0.20	0.40	1	42	39	2	65	165E	2	62	166E	46
4	7	1	3	0.30	0.50	3	18	26	2	45	147E	2	42	147E	47
4	9	4	2	0.20	0.40	3	34	27	3	28	150E	3	22	150E	35
5	5	6	11	1.09	2.18	4	47	16	2	53	123E	2	41	124E	176
6	9	2	18	1.70	3.56	6	16	10	2	61	90E	2	48	122E	314
7	2	4	16	1.50	3.17	7	47	20	2	59	76E	2	41	79E	268
8	2	0	2	0.20	0.40	8	57	47	1	39	109W	1	41	100W	47
8	7	6	3	0.30	0.50	9	20	22	2	50	55E	2	46	55E	61
8	7	8	3	0.30	0.50	9	26	19	2	26	57E	2	23	57E	44
9	9	2	3	0.30	0.50	1	48	34	2	61	30E	2	56	30E	45
9	9	4	4	0.40	0.70	1	51	59	2	47	32E	2	42	33E	70
9	9	5	4	0.40	0.70	1	57	20	2	25	34E	2	21	34E	54
9	9	6	13	1.20	2.57	1	59	45	2	15	34E	2	1	35E	201
14	1	1	2	0.20	0.40	1	10	11	2	78	90W	2	75	93W	44
16	1	0	2	0.20	0.40	21	30	37	2	35	125W	2	32	125W	38
19	7	2	3	0.30	0.50	2	6	33	2	20	166E	2	17	166E	39
21	2	5	13	1.20	2.57	5	0	5	2	53	118E	2	38	120E	221
21	2	8	7	0.60	1.30	6	5	36	2	30	120E	2	23	121E	112
22	2	4	10	0.90	1.90	6	29	15	2	59	94E	2	48	96E	168
22	2	6	7	0.60	1.30	0	32	50	2	45	96E	2	37	97E	108
23	1	4	3	0.30	0.50	0	2	50	2	47	73E	2	44	73E	51
23	1	6	9	0.80	1.70	0	5	43	2	36	74E	2	27	75E	140
25	5	1	3	0.30	0.50	11	1	40	2	59	25E	2	56	26E	41
25	5	5	5	0.50	0.90	11	4	20	2	40	27E	2	42	28E	83
25	5	8	3	0.50	0.90	11	0	29	2	31	29E	2	26	29E	77
27	1	5	5	0.50	0.90	1	11	56	2	23	15W	2	16	15W	04
30	1	6	3	0.50	0.90	1	46	59	2	12	83W	2	8	83W	66
31	1	3	0	0.50	1.10	2	11	40	2	37	107W	2	31	107W	99
32	1	1	3	0.30	0.50	21	34	9	2	71	139W	2	67	136W	57
36	9	1	4	0.40	0.70	3	39	50	2	60	134E	2	55	135E	69
36	9	3	0	0.70	1.50	0	42	10	2	50	136E	2	41	137E	137
36	7	6	0	0.50	1.10	3	55	43	3	16	140E	3	23	140E	100
37	7	3	31	3.07	6.14	5	12	19	2	53	113E	2	20	116E	488
38	3	3	4	0.40	0.70	6	42	0	2	58	89E	2	53	90E	70
39	2	7	9	0.80	1.70	5	15	45	2	45	60E	2	35	69E	150

40	8	5	8	0.79	1.58	9	49	37	2	33	47E	2	24	47E	122
41	2	2	3	0.30	0.59	11	15	1	2	55	21E	2	52	22E	35
41	2	6	4	0.40	0.79	11	17	24	2	45	23E	2	40	23E	70
45	8	2	3	0.30	0.59	17	35	6	3	15	65W	3	17	64W	44
46	8	1	5	0.50	0.99	18	52	6	2	41	90W	2	36	89W	79
47	8	1	6	0.59	1.19	20	23	44	2	37	112W	2	31	112W	91
52	9	2	14	1.39	2.77	3	52	48	2	56	130E	2	41	133E	226
52	9	7	2	0.26	0.40	4	12	3	3	22	135E	3	25	135E	53
53	8	4	31	3.07	6.14	5	24	21	2	53	108E	2	19	111E	487
54	2	6	6	0.59	1.19	6	56	47	2	46	87E	2	39	87E	94
54	2	8	6	0.59	1.19	6	59	56	2	33	88E	2	26	88E	95
55	2	6	10	0.99	1.99	5	26	41	2	49	63E	2	39	64E	151
56	4	4	6	0.59	1.19	10	2	2	2	30	42E	2	23	43E	100
57	2	5	3	0.30	0.59	11	29	36	2	43	10E	2	42	10E	40
58	4	3	5	0.50	0.99	13	6	31	2	18	2W	2	12	2W	81
59	1	2	3	0.30	0.59	14	24	31	2	69	33W	2	67	32W	42
60	1	6	5	0.50	0.99	16	15	50	3	14	46W	3	20	46W	98
63	2	2	2	0.26	0.40	20	35	53	2	35	117W	2	33	116W	34
67	9	4	3	0.30	0.59	2	35	32	2	48	150E	2	45	150E	47
68	2	5	13	1.29	2.57	4	4	11	2	56	126E	2	42	128E	202
69	6	2	6	0.79	1.58	5	34	51	2	56	103E	2	40	104E	124
69	6	4	9	0.89	1.78	5	30	18	2	42	105E	2	32	106E	146
69	6	7	10	0.99	1.98	5	41	50	2	27	106E	2	17	107E	147
72	2	4	17	1.68	3.37	7	4	50	2	59	79E	2	41	83E	260
72	2	8	6	0.59	1.19	7	10	49	2	35	83E	2	29	83E	91

NOTE - T/M DATA INDICATE NORMAL SYSTEM PERFORMANCE

NOTE - THE 4 MISSION ENDED WITH THE CUT AND WRAP COMMAND ISSUED ON REV 72 AT [REDACTED] OPERATION 070-02-8 ACTUALLY CONSISTED OF FIVE MORE FRAMES THAN SHOWN ABOVE. THESE LAST FIVE FRAMES ARE IN THE 0 MISSION RECOVERY BUCKET.

A. 1035-1
 B. DRY
 C. PERFORMANCE ESTIMATE - PART TWO

RATE ESTIMATE

FWD PAN CAMERA NUMBER 188

OPN NO	FR	R	A	TUR/	DUR	INST	INST	SCAN	RATE	PCT	RATE
						CPS	ANG VEL	R/SEC	I/SEC	CALIB	REQD
1 4 8	12	8	3	ON	1251	0.3455	0.02915	2.171	52.10	-4.0	-6.5
				OFF	36	0.3528	0.02977	2.217	53.20	-4.0	-6.3
3 7 1	14	8	3	ON	1136	0.3186	0.02690	2.083	48.00	-4.0	-8.2
				OFF	46	0.3288	0.02774	2.266	49.50	-4.0	-7.7
4 7 1	18	8	3	ON	1434	0.3040	0.03240	2.413	57.91	-4.0	-5.7
				OFF	47	0.3920	0.03308	2.463	59.12	-4.0	-5.8
4 9 4	13	8	3	ON	2395	0.3850	0.03255	2.424	58.10	-4.0	-6.9
				OFF	35	0.3797	0.03204	2.386	57.26	-4.0	-6.5
5 5 6	76	4	3	ON	1317	0.4224	0.03564	2.654	63.70	-4.0	9.2
				OFF	176	0.4564	0.03851	2.868	68.82	-4.0	8.5
6 9 2	124	7	3	ON	1267	0.3507	0.02959	2.284	52.80	-4.0	-3.1
				OFF	314	0.4141	0.03494	2.602	62.40	-4.0	-2.1
7 2 4	108	7	3	ON	1278	0.3660	0.03005	2.305	55.31	-4.0	-2.1
				OFF	268	0.4181	0.03528	2.627	63.04	-4.0	-0.4
8 2 4	10	7	3	ON	60	0.2011	0.01697	1.263	30.32	-4.0	-0.0
				OFF	47	0.2020	0.01704	1.269	30.45	-4.0	-1.9
8 7 6	24	7	3	ON	1414	0.3954	0.03336	2.484	59.62	-4.0	-0.0
				OFF	61	0.4061	0.03427	2.552	61.24	-4.0	-0.3
8 7 8	19	7	3	ON	1771	0.4430	0.03740	2.788	66.92	-4.0	-1.7
				OFF	44	0.4462	0.03765	2.803	67.28	-4.0	-1.9
9 9 2	14	7	3	ON	1260	0.3600	0.03043	2.266	54.30	-4.5	-1.3
				OFF	45	0.3700	0.03122	2.325	55.79	-4.5	-1.3
9 9 4	28	7	3	ON	1466	0.4027	0.03390	2.530	60.73	-4.5	-1.0
				OFF	70	0.4141	0.03494	2.602	62.44	-4.5	-1.4
9 9 5	23	7	3	ON	1786	0.4421	0.03731	2.778	66.67	-4.5	-2.5
				OFF	54	0.4446	0.03751	2.793	67.04	-4.5	-2.7
9 9 6	60	7	3	ON	1931	0.4461	0.03764	2.803	67.26	-4.5	-2.8
				OFF	221	0.4364	0.03682	2.742	65.80	-4.5	-2.1
14 1 1	13	8	2	ON	1013	0.2914	0.02459	1.031	43.94	-4.5	-0.1
				OFF	44	0.2993	0.02526	1.081	45.14	-4.5	-0.9
16 1 0	15	8	2	ON	1670	0.4204	0.03615	2.692	64.61	-4.5	-2.9
				OFF	30	0.4323	0.03647	2.716	65.10	-4.5	-3.1
19 7 2	10	8	2	ON	1025	0.4435	0.03742	2.786	66.07	-4.5	-3.4
				OFF	30	0.4436	0.03743	2.787	66.09	-4.5	-3.4
21 2 5	91	8	2	ON	1422	0.3869	0.03264	2.431	58.34	-4.5	-2.8
				OFF	221	0.4247	0.03583	2.668	64.04	-4.5	-2.7
21 2 6	49	8	2	ON	1754	0.4369	0.03606	2.745	65.80	-4.5	-2.9
				OFF	117	0.4420	0.03736	2.782	66.77	-4.5	-3.3
22 2 4	67	8	2	ON	1331	0.3666	0.03003	2.303	55.20	-4.5	-3.4
				OFF	168	0.4216	0.03389	2.524	60.57	-4.5	-2.5
22 2 6	46	8	2	ON	1546	0.4100	0.03464	2.580	61.91	-4.5	-2.4
				OFF	108	0.4262	0.03596	2.678	64.27	-4.5	-2.6

23	1	4	20	8	2	ON	1529	0.4042	0.03409	2.538	60.92	-4.5	-2.4
						OFF	51	0.4123	0.03479	2.591	62.18	-4.5	-2.5
23	1	6	61	8	2	ON	1674	0.4292	0.03622	2.695	64.69	-4.5	-2.6
						OFF	148	0.4407	0.03719	2.769	66.46	-4.5	-3.1
25	5	1	15	8	2	ON	1342	0.3691	0.03114	2.319	55.66	-4.5	-3.4
						OFF	41	0.3777	0.03187	2.373	56.96	-4.5	-3.2
25	5	5	34	8	2	ON	1511	0.4043	0.03411	2.542	60.95	-4.5	-2.5
						OFF	83	0.4177	0.03524	2.624	62.92	-4.5	-2.6
25	5	8	33	8	2	ON	1752	0.4367	0.03685	2.744	65.85	-4.5	-2.9
						OFF	77	0.4414	0.03724	2.773	66.56	-4.5	-3.1
27	1	5	36	8	2	ON	1874	0.4431	0.03739	2.784	66.81	-4.5	-3.2
						OFF	84	0.4433	0.03740	2.785	66.85	-4.5	-3.3
30	1	6	26	8	2	ON	2047	0.4450	0.03754	2.796	67.11	-3.4	-2.1
						OFF	66	0.4461	0.03713	2.765	66.36	-3.4	-2.1
31	1	3	42	8	2	ON	1688	0.4358	0.03677	2.738	65.71	-3.4	-1.3
						OFF	99	0.4444	0.03750	2.792	67.21	-3.4	-1.6
32	1	1	19	8	2	ON	1194	0.3368	0.02842	2.116	50.79	-3.4	-4.5
						OFF	57	0.3506	0.02959	2.283	52.27	-3.4	-3.6
36	9	1	27	8	2	ON	1375	0.3812	0.03216	2.395	57.42	-3.4	-1.7
						OFF	69	0.3956	0.03338	2.485	59.65	-3.4	-1.4
36	9	3	57	8	2	ON	1516	0.4162	0.03461	2.577	61.85	-3.4	-1.1
						OFF	137	0.4311	0.03638	2.709	65.51	-3.4	-1.2
36	7	6	37	8	2	ON	2521	0.3727	0.03145	2.342	56.27	-3.4	-2.5
						OFF	120	0.3490	0.02945	2.193	52.62	-3.4	-3.1
37	7	3	212	8	2	ON	1474	0.4021	0.03393	2.526	60.63	-3.4	-1.2
						OFF	482	0.4486	0.03765	2.819	67.65	-3.4	-2.1
38	3	3	25	8	2	ON	1412	0.3894	0.03285	2.446	58.71	-3.4	-1.5
						OFF	72	0.4032	0.03402	2.533	60.81	-3.4	-1.3
39	2	7	65	8	2	ON	1596	0.4235	0.03574	2.661	63.87	-3.4	-1.1
						OFF	152	0.4412	0.03723	2.772	66.54	-3.4	-1.5
40	6	5	53	8	2	ON	1786	0.4447	0.03752	2.794	67.25	-3.4	-1.6
						OFF	122	0.4492	0.03789	2.821	67.71	-3.4	-2.0
41	2	2	14	8	2	ON	1469	0.4012	0.03385	2.521	60.58	-3.4	-1.2
						OFF	35	0.4274	0.03438	2.562	61.44	-3.4	-1.2
41	2	6	29	8	2	ON	1611	0.4260	0.03594	2.676	64.23	-3.4	-1.1
						OFF	72	0.4347	0.03668	2.731	65.55	-3.4	-1.3
45	8	2	10	8	2	ON	2522	0.3710	0.03131	2.331	55.95	-3.4	-2.6
						OFF	44	0.3612	0.03048	2.272	54.47	-3.4	-2.9
46	8	1	34	8	2	ON	1629	0.4359	0.03678	2.739	65.74	-3.4	-1.1
						OFF	79	0.4431	0.03739	2.784	66.81	-3.4	-1.5
47	8	1	39	8	2	ON	1746	0.4416	0.03726	2.775	66.62	-3.4	-1.3
						OFF	91	0.4473	0.03774	2.812	67.45	-3.4	-1.7
52	9	2	92	8	2	ON	1487	0.4245	0.03416	2.544	61.85	-3.4	-0.9
						OFF	226	0.4392	0.03698	2.753	60.22	-3.4	-1.1
52	9	7	15	8	2	ON	2643	0.3375	0.02848	2.121	50.97	-3.4	-4.5
						OFF	53	0.3245	0.02738	2.039	48.94	-3.4	-5.1
53	8	4	212	8	2	ON	1540	0.4104	0.03463	2.578	61.85	-4.3	-1.8
						OFF	487	0.4422	0.03729	2.777	66.65	-4.3	-3.1
54	2	6	47	8	2	ON	1644	0.4262	0.03597	2.678	64.23	-4.3	-1.9
						OFF	94	0.4363	0.03681	2.741	65.79	-4.3	-2.2
54	2	8	42	8	2	ON	1833	0.4428	0.03736	2.782	66.77	-4.3	-2.5

					OFF	95	0.4446	0.03752	2.794	67.05	-4.3	-2.9
55	2	6	65	8	2 ON	1599	0.4200	0.03544	2.639	63.33	-4.3	-1.8
					OFF	151	0.4374	0.03690	2.748	65.95	-4.3	-2.2
56	4	4	44	8	2 ON	1881	0.4443	0.03749	2.791	66.99	-4.3	-2.7
					OFF	100	0.4438	0.03745	2.788	66.92	-4.3	-3.0
57	2	5	16	8	2 ON	1695	0.4324	0.03648	2.717	65.27	-4.3	-1.9
					OFF	40	0.4360	0.03679	2.739	65.75	-4.3	-2.1
58	4	3	35	8	2 ON	2072	0.4389	0.03783	2.759	66.10	-4.3	-3.3
					OFF	81	0.4317	0.03643	2.712	65.17	-4.3	-3.3
59	1	2	15	8	2 ON	1311	0.3626	0.03068	2.270	54.68	-4.3	-3.6
					OFF	42	0.3717	0.03137	2.336	50.26	-4.3	-3.2
60	1	6	35	8	2 ON	2551	0.3570	0.03013	2.243	53.04	-4.3	-4.8
					OFF	90	0.3333	0.02812	2.094	50.25	-4.3	-5.8
63	2	0	14	8	2 ON	1837	0.4430	0.03738	2.783	66.82	-4.3	-2.4
					OFF	34	0.4440	0.03746	2.790	66.95	-4.3	-2.5
67	9	4	20	8	2 ON	1662	0.4285	0.03615	2.692	64.61	-4.3	-1.7
					OFF	47	0.4335	0.03657	2.723	65.36	-4.3	-1.9
68	2	5	07	8	2 ON	1543	0.4109	0.03467	2.582	61.96	-4.3	-1.6
					OFF	22	0.4369	0.03686	2.745	65.80	-4.3	-2.0
69	6	2	52	8	2 ON	1545	0.4112	0.03470	2.584	62.01	-4.3	-1.6
					OFF	124	0.4290	0.03619	2.695	64.60	-4.3	-1.8
69	6	4	64	8	2 ON	1752	0.4377	0.03694	2.752	66.01	-4.3	-2.0
					OFF	146	0.4445	0.03751	2.793	67.03	-4.3	-2.6
69	6	7	65	8	2 ON	1973	0.4439	0.03746	2.789	66.94	-4.3	-3.0
					OFF	147	0.4351	0.03671	2.734	65.60	-4.3	-3.4
70	2	4	115	8	2 ON	1505	0.4041	0.03410	2.539	60.94	-4.3	-1.8
					OFF	269	0.4392	0.03706	2.760	66.23	-4.3	-2.1
70	2	0	35	8	2 ON	1864	0.4439	0.03745	2.789	66.90	-4.3	-2.5
					OFF	91	0.4444	0.03750	2.792	67.01	-4.3	-2.9

RATE ESTIMATE

AFT PAR CAMERA NUMBER 100

OPR NO	FR	R	A	TUR/DUR	INST	INST	SCAN RATE	PCT RATE				
					CPS	ANG VEL	R/SEC	I/SEC				
								CALIB				
								REQD				
1	4	0	13	0	1263	0.3574	2.72957	2.202	52.04	-3.3	-5.7	
					OFF	36	0.3578	0.03019	2.243	53.96	-3.3	-5.6
3	7	1	15	0	1148	0.3232	2.22727	2.031	48.73	-3.3	-7.5	
					OFF	46	0.3333	0.02813	2.094	50.27	-3.3	-7.0
4	7	1	10	0	1440	0.3097	2.33288	2.448	58.75	-3.3	-4.8	
					OFF	47	0.3970	0.03357	2.580	59.99	-3.3	-4.8
4	9	4	13	0	2407	0.3915	2.23303	2.460	59.25	-3.3	1.3	
					OFF	35	0.3853	0.03251	2.421	58.17	-3.3	1.7
5	5	6	77	0	1329	0.4288	2.03618	2.694	64.65	-3.3	10.0	
					OFF	176	0.4635	0.03911	2.912	69.89	-3.3	9.4
6	9	2	125	0	1219	0.3557	2.03002	2.235	53.64	-3.3	-2.4	
					OFF	314	0.4204	0.03547	2.641	63.39	-3.3	-1.1
7	2	4	100	0	1290	0.3721	2.03140	2.338	56.11	-3.3	0.6	
					OFF	265	0.4244	0.03581	2.667	64.07	-3.3	0.6
8	2	0	10	0	72	0.2031	1.21714	1.276	30.63	-3.3	-0.2	
					OFF	47	0.2040	0.01722	1.282	30.77	-3.3	-1.3

8.7.6	24	7	3	ON	1426	0.4213	0.03386	2.521	60.51	-3.3	0.8
				OFF	61	0.4122	0.03478	2.598	62.16	-3.3	0.6
8.7.8	19	7	3	ON	1783	0.4506	0.03802	2.831	67.95	-3.3	-0.4
				OFF	44	0.4530	0.03823	2.847	66.32	-3.3	-0.5
9.9.2	16	7	3	ON	1272	0.3666	0.03093	2.303	55.27	-3.7	-0.4
				OFF	45	0.3761	0.03173	2.363	56.71	-3.7	-0.3
9.9.4	28	7	3	ON	1478	0.4095	0.03456	2.573	61.70	-3.7	0.1
				OFF	70	0.4212	0.03554	2.646	63.51	-3.7	-0.2
9.9.5	24	7	3	ON	1798	0.4498	0.03795	2.826	67.83	-3.7	-1.0
				OFF	54	0.4523	0.03817	2.842	66.21	-3.7	-1.1
9.9.6	89	7	3	ON	1943	0.4538	0.03829	2.851	68.43	-3.7	-1.0
				OFF	221	0.4439	0.03746	2.789	66.94	-3.7	-0.1
14.1.1	13	8	2	ON	1025	0.2959	0.02496	1.859	44.62	-3.7	-8.2
				OFF	44	0.3039	0.02564	1.912	45.83	-3.7	-8.0
16.1.2	10	8	2	ON	1692	0.4355	0.03675	2.736	65.67	-3.7	-1.6
				OFF	38	0.4394	0.03708	2.761	66.26	-3.7	-1.8
19.7.2	17	8	2	ON	1927	0.4508	0.03804	2.833	67.90	-3.7	-1.7
				OFF	39	0.4509	0.03805	2.833	66.00	-3.7	-1.7
21.2.5	92	8	2	ON	1434	0.3931	0.03317	2.470	59.28	-3.7	-1.8
				OFF	221	0.4317	0.03643	2.712	65.10	-3.7	-1.4
21.2.8	49	8	2	ON	1766	0.4441	0.03747	2.790	66.97	-3.7	-1.5
				OFF	110	0.4501	0.03798	2.828	67.67	-3.7	-1.7
22.2.4	67	8	2	ON	1343	0.3725	0.03143	2.340	56.17	-3.7	-2.4
				OFF	168	0.4062	0.03444	2.565	61.55	-3.7	-1.4
22.2.6	46	8	2	ON	1558	0.4173	0.03521	2.622	62.93	-3.7	-1.2
				OFF	136	0.4332	0.03655	2.722	65.33	-3.7	-1.4
23.1.4	21	8	2	ON	1521	0.4106	0.03465	2.587	61.92	-3.7	-1.3
				OFF	51	0.4191	0.03536	2.633	63.20	-3.7	-1.4
23.1.6	61	8	2	ON	1686	0.4361	0.03679	2.740	65.75	-3.7	-1.3
				OFF	140	0.4480	0.03700	2.815	67.56	-3.7	-1.6
25.5.1	15	8	2	ON	1354	0.3750	0.03164	2.356	56.55	-3.7	-2.5
				OFF	41	0.3830	0.03239	2.412	57.88	-3.7	-2.2
25.5.5	34	8	2	ON	1523	0.4109	0.03467	2.582	61.96	-3.7	-1.4
				OFF	83	0.4245	0.03502	2.667	64.02	-3.7	-1.4
25.5.8	34	8	2	ON	1764	0.4439	0.03746	2.789	66.94	-3.7	-1.5
				OFF	77	0.4487	0.03786	2.819	67.66	-3.7	-1.6
27.1.5	37	8	2	ON	1886	0.4504	0.03801	2.830	67.92	-3.7	-1.6
				OFF	84	0.4507	0.03802	2.832	67.96	-3.7	-1.6
30.1.6	28	8	2	ON	2250	0.4507	0.03797	2.827	67.86	-3.0	-0.8
				OFF	66	0.4450	0.03755	2.796	67.11	-3.0	-0.6
31.1.3	43	8	2	ON	1720	0.4407	0.03718	2.769	66.45	-3.0	-0.5
				OFF	99	0.4494	0.03792	2.824	67.77	-3.0	-0.7
32.1.1	20	8	2	ON	1226	0.3403	0.02872	2.138	51.32	-3.2	-4.2
				OFF	57	0.3544	0.02990	2.227	53.44	-3.0	-3.2
36.9.1	27	8	2	ON	1307	0.3853	0.03251	2.421	58.11	-3.0	-1.3
				OFF	69	0.3999	0.03375	2.513	60.31	-3.0	-0.9
36.9.3	50	8	2	ON	1520	0.4147	0.03499	2.606	62.54	-3.0	-0.4
				OFF	137	0.4362	0.03679	2.739	65.74	-3.0	-0.5
36.7.6	37	8	2	ON	2513	0.3767	0.03179	2.367	56.81	-3.0	-0.7
				OFF	120	0.3527	0.02976	2.216	53.10	-3.0	-1.2
37.7.3	212	8	2	ON	1406	0.4065	0.03430	2.554	61.30	-3.0	-0.6

					OFF	488	0.4537	0.03828	2.851	68.42	-3.0	-0.9
38	3	3	26	8	2 ON	1424	0.3936	0.03321	2.473	59.36	-3.3	-1.0
					OFF	70	0.4277	0.03448	2.561	61.47	-3.0	-0.7
39	2	7	65	8	2 ON	1628	0.4283	0.03614	2.691	64.58	-3.0	-0.4
					OFF	150	0.4462	0.03765	2.804	67.29	-3.0	-0.7
40	8	5	53	8	2 ON	1798	0.4471	0.03773	2.809	67.42	-3.5	-1.3
					OFF	122	0.4515	0.03810	2.837	68.09	-3.5	-1.5
41	2	2	14	8	2 ON	1481	0.4033	0.03403	2.534	60.82	-3.5	-1.2
					OFF	35	0.4096	0.03456	2.573	61.76	-3.5	-1.2
41	2	6	30	8	2 ON	1623	0.4283	0.03614	2.691	64.58	-3.5	-1.0
					OFF	70	0.4371	0.03688	2.746	65.91	-3.5	-1.1
45	8	2	16	8	2 ON	2520	0.3729	0.03146	2.343	56.23	-3.5	-1.6
					OFF	44	0.3630	0.03063	2.281	54.74	-3.5	-1.7
46	8	1	34	8	2 ON	1721	0.4383	0.03699	2.754	66.10	-3.5	-0.9
					OFF	79	0.4455	0.03759	2.799	67.19	-3.5	-1.1
47	8	1	40	8	2 ON	1758	0.4441	0.03747	2.790	66.96	-3.5	-1.0
					OFF	91	0.4498	0.03795	2.826	67.82	-3.5	-1.3
52	9	2	97	8	2 ON	1499	0.4070	0.03434	2.557	61.37	-3.5	-1.0
					OFF	226	0.4486	0.03718	2.769	66.44	-3.5	-0.9
52	9	7	16	8	2 ON	2655	0.3391	0.02861	2.131	51.14	-3.5	-3.2
					OFF	53	0.3260	0.02751	2.048	49.16	-3.5	-3.3
53	8	4	21	8	2 ON	1552	0.4164	0.03514	2.616	62.79	-3.6	-2.0
					OFF	487	0.4486	0.03785	2.819	67.64	-3.6	-1.5
54	2	6	40	8	2 ON	1656	0.4326	0.03658	2.719	65.23	-3.6	-2.0
					OFF	94	0.4428	0.03736	2.782	66.77	-3.6	-1.0
54	2	8	41	8	2 ON	1845	0.4494	0.03792	2.824	67.77	-3.6	-1.2
					OFF	95	0.4513	0.03808	2.836	68.05	-3.6	-1.4
55	2	6	69	8	2 ON	1611	0.4262	0.03596	2.678	64.27	-3.6	-0.7
					OFF	151	0.4439	0.03745	2.789	66.94	-3.6	-1.0
56	4	4	44	8	2 ON	1893	0.4509	0.03805	2.833	68.00	-3.6	-1.2
					OFF	100	0.4504	0.03801	2.830	67.92	-3.6	-1.4
57	2	5	17	8	2 ON	1707	0.4388	0.03702	2.757	66.17	-3.6	-0.8
					OFF	40	0.4425	0.03734	2.780	66.73	-3.6	-0.9
58	4	3	35	8	2 ON	2084	0.4455	0.03759	2.799	67.17	-3.6	-1.6
					OFF	81	0.4381	0.03697	2.753	66.07	-3.6	-1.5
59	1	2	10	8	2 ON	1323	0.3679	0.03104	2.311	55.47	-3.6	-2.0
					OFF	42	0.3771	0.03182	2.369	56.87	-3.6	-2.4
60	1	6	34	8	2 ON	2563	0.3622	0.03056	2.276	54.61	-3.6	-2.6
					OFF	90	0.3380	0.02852	2.123	50.96	-3.6	-3.5
63	2	0	14	8	2 ON	1840	0.4496	0.03794	2.825	67.80	-3.6	-1.0
					OFF	34	0.4506	0.03802	2.831	67.95	-3.6	-1.1
67	9	4	20	8	2 ON	1674	0.4348	0.03669	2.732	65.57	-3.6	-0.6
					OFF	67	0.4399	0.03712	2.764	66.34	-3.6	-0.7
68	2	5	67	8	2 ON	1555	0.4170	0.03518	2.620	62.80	-3.6	-2.6
					OFF	202	0.4434	0.03741	2.786	66.86	-3.6	-0.8
69	6	2	52	8	2 ON	1557	0.4173	0.03521	2.622	62.92	-3.6	-2.6
					OFF	124	0.4353	0.03673	2.735	65.65	-3.6	-0.6
69	6	4	65	8	2 ON	1764	0.4443	0.03749	2.791	66.99	-3.6	-0.7
					OFF	146	0.4511	0.03827	2.835	68.03	-3.6	-1.2
00	6	7	65	8	2 ON	1985	0.4506	0.03802	2.831	67.94	-3.6	-1.4
					OFF	147	0.4415	0.03726	2.774	66.50	-3.6	-1.6

7B	2	4.116	8	2	ON	1517	0.4101	0.03460	2.577	61.84	-3.6	-2.8	
					OFF	269	0.4457	0.03761	2.881	67.22	-3.6	-2.9	
7P	2	8	35	8	2	ON	1876	0.4505	0.03801	2.831	67.94	-3.6	-1.1
					OFF	91	0.4510	0.03806	2.834	68.21	-3.6	-1.4	

RAMP PROFILE

R= 8 A= 3 PERIOD 3600

R) 0.3223 A) 0.1292

TUR PER CPS ANG V

-2	5.179	0.1931	0.01746
100	5.143	0.1944	0.01750
200	5.041	0.1984	0.01794
300	4.882	0.2048	0.01853
400	4.679	0.2137	0.01933
500	4.446	0.2248	0.02033
600	4.203	0.2379	0.02152
700	3.957	0.2527	0.02286
800	3.710	0.2690	0.02433
900	3.493	0.2863	0.02592
1000	3.285	0.3044	0.02753
1100	3.090	0.3231	0.02921
1200	2.878	0.3425	0.03143
1300	2.695	0.3711	0.03356
1400	2.545	0.3929	0.03554
1500	2.426	0.4122	0.03728
1600	2.336	0.4281	0.03872
1700	2.271	0.4403	0.03982
1800	2.232	0.4481	0.04053
1900	2.215	0.4514	0.04083
2000	2.222	0.4509	0.04070
2100	2.253	0.4439	0.04015
2200	2.307	0.4335	0.03921
2300	2.387	0.4190	0.03789
2400	2.494	0.4010	0.03626
2500	2.631	0.3801	0.03432
2600	2.800	0.3571	0.03230
2700	3.004	0.3329	0.03011
2800	3.206	0.3117	0.02827
2900	3.407	0.2935	0.02654
3000	3.626	0.2750	0.02494
3100	3.862	0.2591	0.02343
3200	4.104	0.2436	0.02204
3300	4.351	0.2290	0.02079
3400	4.589	0.2179	0.01971
3500	4.805	0.2081	0.01882
3600	4.984	0.2007	0.01815
3700	5.110	0.1957	0.01770
3800	5.173	0.1933	0.01745

RAMP PROFILE

R- 7 A- 3 PERIOD) 3840
 R) 0.3381 A) 0.1292

TUR	PER	CPS	ANG V
000	4.787	0.2089	0.01889
100	4.757	0.2102	0.01901
200	4.669	0.2142	0.01937
300	4.532	0.2206	0.01996
400	4.357	0.2295	0.02076
500	4.156	0.2406	0.02176
600	3.942	0.2537	0.02295
700	3.724	0.2685	0.02429
800	3.512	0.2846	0.02576
900	3.310	0.3021	0.02732
1000	3.123	0.3202	0.02896
1100	2.952	0.3386	0.03064
1200	2.753	0.3633	0.03266
1300	2.585	0.3869	0.03499
1400	2.447	0.4087	0.03697
1500	2.337	0.4280	0.03871
1600	2.253	0.4439	0.04015
1700	2.193	0.4561	0.04125
1800	2.156	0.4639	0.04196
1900	2.140	0.4672	0.04220
2000	2.147	0.4658	0.04213
2100	2.175	0.4597	0.04150
2200	2.226	0.4493	0.04064
2300	2.300	0.4348	0.03932
2400	2.400	0.4168	0.03769
2500	2.526	0.3959	0.03580
2600	2.682	0.3729	0.03373
2700	2.868	0.3487	0.03153
2800	3.053	0.3275	0.02962
2900	3.233	0.3093	0.02797
3000	3.429	0.2916	0.02637
3100	3.638	0.2749	0.02486
3200	3.854	0.2594	0.02347
3300	4.071	0.2456	0.02222
3400	4.279	0.2337	0.02114
3500	4.466	0.2239	0.02025
3600	4.627	0.2165	0.01956
3700	4.728	0.2115	0.01913
3800	4.782	0.2091	0.01891

RAMP PROFILE

R- 8 A- 2 PERIOD) 3840
 R) 0.3223 A) 0.1424

TUR	PER	CPS	ANG V
000	5.559	0.1799	0.01627
100	5.514	0.1814	0.0164
200	5.385	0.1857	0.0168
300	5.186	0.1928	0.01744

400	4.935	0.2026	0.01833
500	4.654	0.2149	0.01943
600	4.361	0.2293	0.02074
700	4.071	0.2456	0.02222
800	3.705	0.2635	0.02384
900	3.538	0.2826	0.02556
1000	3.305	0.3026	0.02736
1100	3.095	0.3231	0.02922
1200	2.856	0.3501	0.03166
1300	2.659	0.3761	0.03401
1400	2.499	0.4001	0.03619
1500	2.373	0.4213	0.03811
1600	2.278	0.4389	0.03974
1700	2.211	0.4523	0.04091
1800	2.169	0.4612	0.04169
1900	2.152	0.4646	0.04202
2000	2.160	0.4630	0.04188
2100	2.191	0.4564	0.04120
2200	2.240	0.4448	0.04023
2300	2.332	0.4280	0.03879
2400	2.445	0.4090	0.03699
2500	2.591	0.3862	0.03491
2600	2.773	0.3607	0.03262
2700	2.995	0.3339	0.03020
2800	3.219	0.3107	0.02810
2900	3.442	0.2905	0.02620
3000	3.689	0.2711	0.02452
3100	3.959	0.2526	0.02285
3200	4.244	0.2356	0.02131
3300	4.538	0.2204	0.01993
3400	4.825	0.2072	0.01874
3500	5.091	0.1964	0.01777
3600	5.313	0.1882	0.01702
3700	5.472	0.1828	0.01653
3800	5.551	0.1801	0.01629

CLOCK SUMMARY

SYS TIME I/P	ORDER FIT 1 CL TIME I/P	COMP SYS TM	DELTA ST	REV
0.374708900 05	0.2123414290 06	0.3747088730 05	0.0027	9
0.772858120 05	0.2521563550 06	0.7728581060 05	0.0014	16
0.327885680 05	0.2940591200 06	0.3278857280 05	-0.0048	24
0.726562420 05	0.3339267910 06	0.7265624110 05	-0.0011	31
0.335269380 05	0.3811974880 06	0.3352693490 05	0.0031	40
0.733087380 05	0.4209792950 06	0.7330873920 05	-0.0012	47
0.290478430 05	0.4631184040 06	0.2904784540 05	-0.0024	55
0.740732970 05	0.5081438600 06	0.7407329830 05	-0.0013	63
0.295495430 05	0.1314919200 05	0.2954953950 05	0.0035	71
A0)-0.17487052740 06 A1) 0.999999326030 00				
SIGMA)0.00253 NO. POINTS) 9				

(RATIO OF CLOCK TIME TO SYS TIME) 0.10000000674^D P1

SYS TIME I/P	ORDER FIT	CL TIME I/P	COMP SYS TM	DELTA ST	REV
0.37470890D 05	0.212341429D 06	0.374708893D 05	0.0007	9	
0.77285812D 05	0.252156355D 06	0.772858112D 05	0.0000	16	
0.32788568D 05	0.294059120D 06	0.327885722D 05	-0.0042	24	
0.72656240D 05	0.333926791D 06	0.726562398D 05	0.0002	31	
0.33526938D 05	0.381197488D 06	0.335269334D 05	0.0046	40	
0.73308738D 05	0.420979295D 06	0.733087379D 05	0.0001	47	
0.29047843D 05	0.463118404D 06	0.290478447D 05	-0.0017	55	
0.74073297D 05	0.508143860D 06	0.740732909D 05	-0.0019	63	
0.29549543D 05	0.131491920D 05	0.295495416D 05	0.0014	71	

A0) -0.1748705107D 06 A1) 0.999999836879D 06

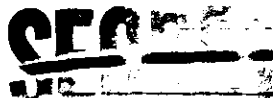
A2) 0.1256822840932D-12

SIGMA) 0.00220 NO. POINTS) 9

CLOCK OPERATIONS

FWD PAN CAMERA NUMBER 188

OPN NO	FR	H	M	S	DEC	BINARY
1 4 0	12	ON	22	43	0 170251	010100010010111010-1011111000
		OFF	22	43	36 170287	010100010011001011111100110000
3 7 1	14	ON	1	42	39 161029	0101011001010010010010001000
		OFF	1	43	25 181075	010101100101011111100000111000
4 7 1	18	ON	3	18	26 186776	010110010000111111001110000000
		OFF	3	19	13 186823	010110010001010110000101011000
4 9 4	13	ON	3	34	27 187737	010110011000010100011101010000
		OFF	3	35	2 187772	010110011000100010100011000000
5 5 6	76	ON	4	47	16 192106	0101101100110100111000010000
		OFF	4	50	12 192282	010110111010111111101100100000
6 9 2	124	ON	6	16	10 197441	010111000010010110101111010000
		OFF	6	21	24 197755	010111001001001000000001111000
7 2 4	108	ON	7	47	20 202911	011000001100000101101000110000
		OFF	7	51	48 203179	011000001110001000011111111000
8 2 0	10	ON	8	57	47 207138	011000101100010101100110100000
		OFF	8	58	34 207185	011000101100101100100011010000
8 7 6	24	ON	9	20	22 208492	011000110110101010101111000000
		OFF	9	21	23 208553	011000110111001000100001010000
8 7 8	19	ON	9	26	19 208849	011000110010110010000110100000
		OFF	9	27	3 208893	011000111001101110100010010000
9 9 2	16	ON	10	48	34 213784	011001011111000010101110000000
		OFF	10	49	19 213829	011001011111011000101100010000
9 9 4	28	ON	10	51	59 213990	011001100000100011101001110000
		OFF	10	53	9 214060	011001100001001001011111000000
9 9 5	23	ON	10	57	20 214310	011001100001100001110001110000
		OFF	10	58	14 214364	011001100001101100111101100000
9 9 6	66	ON	10	59	45 214455	011001100100001010101011011000
		OFF	11	3	6 214656	011001100101101100100000000000
14 1 1	13	ON	10	18	11 240761	011100101100110111001010101000
		OFF	10	18	55 240805	011100101101001100100100010000



16	1	8	15	ON	21	30	37	252308	01111000010011110101000100000
				OFF	21	31	15	252346	011110000101001111110100010000
19	7	2	16	ON	2	6	33	268864	10000000001101000101000000000
				OFF	2	7	12	268903	10000000001110010001001011000
21	2	5	91	ON	5	8	5	279275	100001010010101100101111111000
				OFF	5	3	46	279496	10000101010001100010101000000
21	2	8	49	ON	5	5	36	279607	100001010101001110110110111000
				OFF	5	7	26	279717	100001010110000100100100001000
22	2	4	67	ON	6	29	15	284626	10000111101110000110001010000
				OFF	6	32	3	284794	10000111110011001100100100000
22	2	6	46	ON	6	32	50	284841	10000111110100101010000101000
				OFF	6	34	38	284949	10000111110111111111000001000
23	1	4	26	ON	8	2	50	290246	10001010011001101010101000000
				OFF	8	3	40	290290	1000101001101101101110001111000
23	1	6	61	ON	8	5	43	290413	10001010011110101100111001000
				OFF	8	8	3	290553	10001010100010111110010101000
25	5	1	15	ON	11	1	40	300970	10001111100000111000000100000
				OFF	11	2	21	301011	10001111100010001000000111000
25	5	5	34	ON	11	4	28	301138	10001111100110000000001010000
				OFF	11	5	51	301221	10001111101000100010010001000
25	5	6	33	ON	11	8	29	301379	10001111101101010101010111000
				OFF	11	9	46	301456	10001111101111101110101000000
27	1	5	36	ON	14	11	56	312387	10010100111101010010110111000
				OFF	14	13	20	312471	10010100111111110101011011000
30	1	6	28	ON	18	46	59	320889	10011100110100111001010101000
				OFF	18	48	5	320955	10011100110110111010001111000
31	1	3	42	ON	20	11	40	333970	10011110011111111101001010000
				OFF	20	13	19	334069	10011110100101111101000010000
32	1	1	19	ON	21	34	9	338919	10100001100110111111001011000
				OFF	21	35	6	338976	10100001101000101110100000000
36	9	1	27	ON	3	39	58	360866	10101100000100110100010100000
				OFF	3	41	7	360937	10101100000110111011000101000
36	9	3	57	ON	3	42	19	361009	10101100001001000111101101000
				OFF	3	44	36	361146	10101100001101010011010010000
36	7	6	37	ON	3	58	43	361994	10101100100111001011100010000
				OFF	4	2	23	362104	10101100101010001110110110000
37	7	3	212	ON	5	12	19	366410	10101110101101111101000100000
				OFF	5	22	27	366098	10101110111100110111010100000
38	3	3	20	ON	6	42	0	371790	10110001010010001000101100000
				OFF	6	43	12	371860	10110001010100010001000100000
39	2	7	65	ON	8	15	45	377415	101100111111011100010101011000
				OFF	8	18	15	377565	101100000001001011101001000
40	8	5	53	ON	9	49	37	383046	10110101010011011001010000000
				OFF	9	51	39	383170	10110101011010101010110100000
41	2	2	14	ON	11	15	1	388171	10111001000110000010011111000
				OFF	11	15	36	388206	10111001000111000110110110000
41	2	6	20	ON	11	17	24	388314	10111001001010001001110010000
				OFF	11	18	34	388304	10111001001101010010100000000
45	8	2	10	ON	17	35	6	410976	11000011111101111111100000000
				OFF	17	35	52	411020	110000111111101011011000000
46	8	1	34	ON	18	52	6	415597	11000110001011000001111001000

		OFF	18	53	25	415676	110001100011010110110011000000		
47	8	1	39	ON	20	23	44	421095	11001000110010110011001011000
		OFF	20	25	15	421186	11001000110101100110111010000		
52	9	2	96	ON	3	52	48	448038	11010101101001000010001110000
		OFF	3	56	34	448264	11010101101111111011101000000		
52	9	7	18	ON	4	12	3	449194	1101011000110001010000010000
		OFF	4	12	56	449247	11010110001101111011100011000		
53	8	4	212	ON	5	24	21	453531	11011000010000101010101111000
		OFF	5	32	28	454018	11011000011111100001111010000		
54	2	6	40	ON	6	56	47	459077	11011010111001111010110001000
		OFF	6	58	21	459171	11011010111100110010010111000		
54	2	8	42	ON	6	59	56	459266	11011010111111101011111010000
		OFF	7	1	31	459361	11011011000010100110101101000		
55	2	6	65	ON	8	26	41	464471	110110101111010001111011000
		OFF	8	29	12	464622	1101101100011001010110110000		
56	4	4	44	ON	12	2	2	472192	11100000001101000111110000000
		OFF	12	3	42	472292	11100000010000001011000100000		
57	2	5	16	ON	11	29	36	475446	1110001010110101111011110000
		OFF	11	30	16	475486	11100010101110101011100110000		
58	4	3	35	ON	13	6	31	481262	1110010101111011110110110000
		OFF	13	7	52	481343	11100101100001011011000011000		
59	1	2	15	ON	14	24	31	485941	11100111101101101111100001000
		OFF	14	25	13	485983	11100111101111000011000110000		
60	1	6	35	ON	16	15	50	492621	11101010111001100110011001000
		OFF	16	17	28	492719	11101010111100100101110011000		
63	2	0	14	ON	20	35	53	508223	11110010010101101111000011000
		OFF	20	36	27	508257	11110010010110110001011101000		
67	9	4	20	ON	2	35	32	529802	11111100101000010001100010000
		OFF	2	36	19	529849	11111100101000110110101010100		
68	2	5	87	ON	4	4	11	535121	11111110010101010011000101000
		OFF	4	7	33	535323	11111110100001100010101111000		
69	6	2	52	ON	5	34	51	3690	00000001110000100111000010000
		OFF	5	36	55	3814	00000001110100011001001110000		
69	6	4	64	ON	5	38	18	3898	00000001110110111101010010000
		OFF	5	42	44	4244	00000001111011011010011100000		
69	6	7	65	ON	5	41	59	4119	00000001111011011011101101000
		OFF	5	44	26	4266	00000010000010001100000100000		
70	2	4	115	ON	7	4	50	9000	00000100010101011011110100000
		OFF	7	9	10	9359	00000100011101100111010011000		
70	2	8	35	ON	7	12	40	9449	00000100100000101100001010000
		OFF	7	12	27	9540	00000100100011100101011010000		

CLOCK OPERATIONS

AFT	PAR	CAMERA	NUMBER	100	DEC	SILARY				
OP:	NO	FR	H	M	S					
	1	4	13	ON	22	43	12	17	263	01010001001100000000000111011000
				OFF	22	43	48	17	299	01010001001101000111001111000
	3	7	1	ON	1	42	51	1	1041	01010110010100111011101101000
				OFF	1	43	37	12	287	01010110010110010111000110000
	4	7	1	ON	3	16	38	18	729	01011001000100010010110010001000

SECRET

		OFF	3	19	25	186836	01011001000101110010000100000		
4	9	4	13	ON	3	34	39	197750	01011001100001101011001110000
		OFF	3	35	14	187785	010110011000101011111000101000		
5	5	6	77	ON	4	47	28	192119	010110111001110000000011011000
		OFF	4	50	24	192295	010110111011000110000001011000		
6	9	2	125	ON	6	16	22	197453	01011110001001110010011001000
		OFF	6	21	36	197767	010111100100110101111010101000		
7	2	4	109	ON	7	47	32	202923	01100000110000101111111111000
		OFF	7	52	0	203191	0110000011100011100101011011000		
8	2	0	10	ON	8	57	59	207150	01100010110001101111110110000
		OFF	8	58	46	207197	011000101100110010101010001000		
8	7	6	24	ON	9	20	34	208505	01100011011011000110010101000
		OFF	9	21	35	208566	011000110111001110110111110000		
8	7	8	19	ON	9	26	31	208861	01100011100101111011101001000
		OFF	9	27	15	208905	0110001110011101000110010101000		
9	9	2	16	ON	10	48	46	213796	01100101111100100100101000000
		OFF	10	49	31	213841	01100101111101111010001101000		
9	9	4	20	ON	10	52	11	214002	01100110000010101010101010000
		OFF	10	53	21	214072	01100110000100111110110000000		
9	9	5	24	ON	10	57	32	214323	011001100011001001111001111000
		OFF	10	58	26	214377	011001100011100100100100101000		
9	9	6	09	ON	10	59	57	214468	011001100100100100001010100000
		OFF	11	3	10	214669	011001100101110010110110001000		
14	1	1	13	ON	18	18	23	240774	01110010110011110111011100000
		OFF	18	19	7	240818	01110010110101001011101010000		
16	1	0	16	ON	21	30	49	252320	01111000010100001100100000000
		OFF	21	31	27	252358	01111000010101010110101110000		
19	7	2	17	ON	2	6	45	260876	10000000001101011100011100000
		OFF	2	7	24	260915	10000000001101010001010111000		
21	2	5	92	ON	5	0	17	279200	10000100010110011100011000000
		OFF	5	3	50	279509	10000101010001111100000010000		
21	2	0	40	ON	5	5	40	279619	100001010101010101010110111000
		OFF	5	7	38	279729	10000101011000101011011010000		
22	2	4	67	ON	6	29	27	284630	10000111101110011101100110000
		OFF	6	32	15	284676	10000111110011110011101110000		
22	2	0	46	ON	6	33	2	284853	10000111110101000011000010000
		OFF	6	34	57	284961	10000111110000101000111010000		
23	1	4	21	ON	8	3	10	290200	10001010011010000010000100000
		OFF	8	4	1	290311	10001010011011100111010110000		
23	1	6	61	ON	8	5	55	290425	10001010011111000100010101000
		OFF	5	8	15	290565	10001010100011010111100010000		
25	5	1	15	ON	11	1	52	300902	10001111100001001111111110000
		OFF	11	2	37	3	1023	10001111100010011111100011000	
25	5	5	34	ON	11	4	42	301151	10001111100110010101100011000
		OFF	11	6	3	3	1234	10001111101000110111010100000	
25	5	0	34	ON	11	3	41	301392	10001111101101110000010000000
		OFF	11	9	50	3	1469	100011111100000000100101001000	
27	1	5	37	ON	14	12	0	310399	1001010101111010101010110000
		OFF	14	13	32	310403	10010101000000001100010111000		
30	1	6	20	ON	10	47	11	320901	10011100110101010001100010000
		OFF	10	48	17	320967	10011100110111010001101011000		

31	1	3	43	ON	20	11	52	333983	10211111010000010110100011000
				OFF	20	13	31	334082	10211111010011010111111101000
32	1	1	27	ON	21	34	21	338932	10100001100111011000100010000
				OFF	21	35	18	338989	10100001101001000111111001000
36	9	1	27	ON	3	40	10	360881	1010110000010100110110101000
				OFF	3	41	19	360950	10101100000111101010011110000
36	9	3	56	ON	3	42	31	361022	10101100000100110001000110000
				OFF	3	44	48	361159	1010110000010110110101011000
36	7	6	37	ON	3	58	55	362006	10101100100111100010111110000
				OFF	4	4	35	362106	10101100101010100110010010000
37	7	3	212	ON	5	12	31	366422	10101110101110010011111110000
				OFF	5	22	39	366910	10101110111110100111000110000
38	3	3	28	ON	6	42	12	371802	10110001010010011111110010000
				OFF	6	43	22	371872	10110001010100101000100000000
39	2	7	65	ON	8	15	57	377428	10110011111110001100001000000
				OFF	8	18	27	377578	10110000000010110001000010000
40	8	5	53	ON	9	49	49	383060	10110101010100001000010000000
				OFF	9	51	51	383182	10110101011011100010010110000
41	2	2	14	ON	11	15	13	388184	10111001000110011011111000000
				OFF	11	15	48	388219	10111001000111100000011110000
41	2	6	3	ON	11	17	36	388326	10111001001010110010011100000
				OFF	11	18	46	388396	1011100100110011100111111000000
45	8	2	16	ON	17	35	10	410909	11000011111110001100111001000
				OFF	17	36	2	411033	11000011111111101110110101000
46	8	1	34	ON	18	52	18	415609	11000110001011011000101010000
				OFF	18	53	37	415688	11000110001011100010101000000
47	8	1	4	ON	20	23	56	421107	11001000110011001010100111000
				OFF	20	25	27	421198	11001000110101111100010110000
52	9	2	97	ON	3	53	0	448051	11010101101001011011100111000
				OFF	3	56	46	448277	11010101110000010110000010000
52	9	7	18	ON	4	12	15	449206	11010110001100101010111110000
				OFF	4	13	0	449259	11010110001100100101111111000
53	6	4	217	ON	5	24	33	453544	11011000010001000100001000000
				OFF	5	32	40	454031	11011000011111110101010011000
54	2	6	47	ON	6	56	50	459089	11011010111010010010001101000
				OFF	6	58	33	459183	11011010111101010101110011000
54	2	6	41	ON	7	0	0	459279	11011011000000000101001100000
				OFF	7	1	43	459374	11011011000010111110110110000
55	2	0	69	ON	8	26	53	464404	11011101011110111011010100000
				OFF	8	29	24	464635	11011101100011100010001111000
56	4	4	44	ON	10	2	14	470204	11100000001101011111001100000
				OFF	10	3	54	470304	11100000010001000101000000000
57	2	5	17	ON	11	29	40	475458	1110001010110110110110110100000
				OFF	11	30	20	475498	11100010101110000110000100000
59	4	3	35	ON	13	6	43	481274	11100101011111010100100100000
				OFF	13	8	4	481355	11100101100001110010011111000
50	1	2	10	ON	14	24	43	485954	11100111101110001000111010000
				OFF	14	25	25	485996	111001111011101010111100000
60	1	0	34	ON	16	16	2	482633	11101010111001111111101010000
				OFF	16	17	42	482731	11101010111100111110011110000
63	2	0	14	ON	20	36	5	58236	11110010010110001000011100000

		OFF	26	36	39	528270	11110010010111001010110110000		
67	9	4	20	ON	2	35	44	529814	111110010101000101000111110000
		OFF	2	36	31	529861	1111100101010000170110001000		
68	2	5	87	ON	4	4	23	535134	1111110010101011111100110000
		OFF	4	7	45	535336	1111111010001001010001000000		
69	6	2	52	ON	5	35	3	3722	0000000111000111110011110000
		OFF	5	37	7	3826	0000000111010110000101010000		
69	6	4	65	ON	5	38	30	3910	0000000111011101010101110000
		OFF	5	40	56	4056	0000000111101111000111100000		
69	6	7	65	ON	5	42	11	4131	0000000111110000100010111000
		OFF	5	44	38	4278	0000001000001010001101111000		
72	2	4	116	ON	7	5	2	9102	0000010001010111001010110000
		OFF	7	9	31	9371	00000100011101111110101111000		
72	2	8	35	ON	7	11	1	9461	0000010010000210111010001000
		OFF	7	12	32	9552	0000010010001110000001000000		

NOTE - T/M DATA INDICATE NORMAL SYSTEM PERFORMANCE

NOTE - THE A MISSION ENDED WITH THE CUT AND WRAP COMMAND ISSUED ON REV 72 AT [REDACTED] OPERATION 070-02-8 ACTUALLY CONSISTED OF FIVE MORE FRAMES THAN SHOWN ABOVE. THESE LAST FIVE FRAMES ARE IN THE B MISSION RECOVERY BUCKET.

ASS 41

FRM

39 X 82 MO

FWD

P 9

