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1031-1

CORONA J

FLIGHT DATA

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12 PAGES  
(NOT INCLUDING PEST)

CORONA J FLIGHT DATA BOOK

SYSTEM NO. J-38

VEHICLE NO. 1627

MISSION NO. 1831-1

CAMERA NOS. 184/185

DATE 4-14-66

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SYSTEM NO. J-38  
VEHICLE NO. 1627  
MISSION NO. 1831-1  
CAMERA NOS. 184/185

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SYSTEM NO. J-38  
VEHICLE NO. 1627  
MISSION NO. 1831-1  
CAMERA NOS. 184/185

GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 184

SLAVE CAMERA SERIAL NO. 185

S/I -1 SERIAL NO. D83/181/89

S/I -2 SERIAL NO. D86/186/86

LAUNCH DATE 4-87-66

LAUNCH TIME 22-02-55 GMT

REACTIVATION DATE N/A

REACTIVATION ORBIT NO. N/A

ORBITAL PARAMETERS (REV. 52)

PERIOD 89.550 MIN.

ECCENTRICITY 0.08919

PERIGEE 104.550 NM

PERIGEE LAT. 23.383 DEG. N

APOGEE 170.390 NM

INCL. ANGLE 75.872 DEG.

RECOVERY ORBIT NO. 113

RECOVERY DATE 4-14-66

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SYSTEM NO. J-38  
 VEHICLE NO. 1627  
 MISSION NO. 1831-1  
 CAMERA NOS. 184/185

FLIGHT LENS SETTINGS AND FILM TYPES

LENS SETTINGS

PANORAMIC CAMERA SETTINGS	CAMERA NO. 184	CAMERA NO. 185
PANORAMIC OPTICS SLIT WIDTH	.225	.150
PANORAMIC OPTICS FILTER TYPE	WRATTEN 23A	WRATTEN 21
HORIZON OPTICS EXP. TIME	1/100 SEC.	1/100 SEC.
HORIZON OPTICS APERTURE	F6.3 SUPPLY	F8.0 SUPPLY
HORIZON OPTICS APERTURE	F8.0 TAKE-UP	F6.3 TAKE-UP
HORIZON OPTICS FILTER TYPE	WRATTEN 25	WRATTEN 25

STELLAR INDEX CAMERA SETTINGS

	D83/181/89		D86/186/86	
	STELLAR	INDEX	STELLAR	INDEX
EXPOSURE TIME	2.8 SEC	1/500 SEC	2.8 SEC	1/500 SEC
APERTURE SETTING	F1.8	F4.5	F1.8	F4.5
FILTER TYPE	NONE	WRATTEN 21	NONE	WRATTEN

RATIO ONE STELLAR/INDEX FRAME PER 7 MASTER CAMERA FRAMES.

FILM

PANORAMIC CAMERAS	CAMERA NO. 184	CAMERA NO. 185
TYPE	7J-48	7J-48
LENGTH	16000 FT.	16000 FT.
SPLICES	4	5
EMUL. DATA	241-8-3-11-3-6	237-7/1-12-5
LG. BETWEEN	2788-1657-3868-	2826-2784-2798-
SPLICES	3853-3922C	2888-2827-2765C

STELLAR/INDEX CAMERAS

	D83/181/89		D86/186/86	
	STELLAR	INDEX	STELLAR	INDEX
TYPE	3J-34	7J-33	3J-34	7J-33
EMUL. DATA	124-35-12-5	186-13-18-5	124-35-12-5	186-13-

**TOR SCAPPE**

SYSTEM NO. J-38  
VEHICLE NO. 1627  
MISSION NO. 1831-1  
CAMERA NOS. 184/185

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LENS DATA SUMMARY MASTER CAMERA NO. 184

LENS SERIAL NO. 1872435  
EQUIVALENT OPERATIONAL FOCAL LENGTH 689.577 MM

RESOLUTION

STATIC	BENCH TEST	LINES/MM	FILM TYPE	TARGET CONTRA
		242	3484	HIGH
		143	3484	LOW
DYNAMIC				
	BOSTON	185	3484	HIGH
		117	3484	LOW
	AP	157	3484	HIGH
		114	3484	LOW

NOTE BOSTON RESOLUTION OF 185 LINES/MM REPORTED IN [REDACTED]

DISTORTION - POSITIVE (PINCUSHION)

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

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SYSTEM NO. J-38  
VEHICLE NO. 1627  
MISSION NO. 1831-1  
CAMERA NOS. 184/185

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LENS DATA SUMMARY (HORIZON CAMERAS FOR MASTER CAMERA NO. 184)

	TAKE-UP	SUPPLY
LENS SERIAL NO.	12859	12867
OPERATIONAL FOCAL LENGTH	55.88 MM	55.88 MM
RADIAL DISTORTION		
18 DEG. OFF AXIS	0.818 MM	0.858 MM
28 DEG. OFF AXIS	0.838 MM	0.188 MM
TANGENTIAL DISTORTION (MAXIMUM VECTOR)	0.825 MM	0.828 MM

RESOLUTION

ANGLE OFF AXIS-DEG.	0	5	18	15	20	25	27.5	38
TAKE-UP (RADIAL)	209	288	184	168	124	158	-8	57
(TANGENTIAL)	187	185	161	189	93	96	-8	62
SUPPLY (RADIAL)	209	288	184	143	156	134	-8	51
(TANGENTIAL)	187	185	144	138	116	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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SYSTEM NO. J-38  
VEHICLE NO. 1627  
MISSION NO. 1831-1  
CAMERA NOS. 184/185



LENS DATA SUMMARY SLAVE CAMERA NO. 185


LENS SERIAL NO. 1452435  
EQUIVALENT OPERATIONAL FOCAL LENGTH 689.682 MM

RESOLUTION

STATIC		LINES/MM	FILM TYPE	TARGET CONTRAST
	BENCH TEST	243	3484	HIGH
		145	3484	LOW

DYNAMIC

BOSTON	199	3484	HIGH
	128	3484	LOW
AP	167	3484	HIGH
	115	3484	LOW

NOTE BOSTON RESOLUTION OF 199 LINES/MM REPORTED IN 

DISTORTION - POSITIVE (PINCUSHION)

ANGLE OFF								
AXIS-DEG.	3	2	1	0	359	358	357	
MILLIMETERS	0.008	0.004	0.002	0.000	0.001	0.003	0.005	



SYSTEM NO. J-3A  
VEHICLE NO. 1627  
MISSION NO. 1831-1  
CAMERA NOS. 184/185

LENS DATA SUMMARY (HORIZON CAMERAS FOR SLAVE CAMERA NO. 185)

	TAKE-UP	SUPPLY
LENS SERIAL NO.	12872	12832
OPERATIONAL FOCAL LENGTH	49.98 MM	54.98 MM
RADIAL DISTORTION	55.00 mm	
18 DEG. OFF AXIS	8.828 MM	8.818 MM
20 DEG. OFF AXIS	8.878 MM	8.838 MM
TANGENTIAL DISTORTION (MAXIMUM VECTOR)	8.825 MM	8.838 MM

RESOLUTION

ANGLE OFF AXIS-DEG.	0	5	10	15	20	25	27.5	30
TAKE-UP (RADIAL)	289	186	184	127	99	150	-8	57
(TANGENTIAL)	187	185	161	78	73	86	-8	62
SUPPLY (RADIAL)	289	288	286	181	175	134	-8	45
(TANGENTIAL)	289	185	161	155	138	189	-8	78

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.

SYSTEM NO. J-38  
 VEHICLE NO. 1627  
 MISSION NO. 1831-1  
 CAMERA NOS. 184/185

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FORMAT DIMENSIONS AND CALIBRATIONS

	CAMERA NO. 184	CAMERA NO. 185
A	76.898	76.148
B	354.948	355.888
C	789.858	718.118
D	56.493	56.526
E	56.536	56.528
XT	8.497	8.189
YT	-8.882	-8.178
XS	8.888	-8.477
YS	-8.858	-8.179
XVO	8.141	8.892
YVO	1.338	1.134
DTX	8.498	8.178
DTY	1.998	1.822
DSX	8.823	-8.476
DSY	-2.858	-2.179
DMX	8.888	8.143
DMY	21.338	21.134
HEIGHT	55.765	55.491
WIDTH	755.828	755.748
DIRECTION		
	FLIGHT -Y	+Y
	SCAN +X	+X

- NOTE 1. ALL DIMENSIONS ARE IN MILLIMETERS AND ARE AVERAGE DIMENSIONS OF THREE FORMATS.  
 2. HEIGHT OF MAIN FORMAT IS TAKEN AT CENTER OF FORMAT.  
 3. DT, DM, DS, X, AND Y DIMENSIONS ARE TAKEN 18MM ABOVE POINT DEFINING TARGET CENTER.  
 4. NEGATIVE VIEWED WITH EMULSION SIDE DOWN.  
 5. FORMAT SIGN CONVENTION

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

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SYSTEM NO. J-38  
VEHICLE NO. 1627  
MISSION NO. 1831-1  
CAMERA NOS. 184/185

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LENS DATA SUMMARY STELLAR INDEX D83/181/89 -1 MISSION

	STELLAR	INDEX
LENS SERIAL NO.	18777	828188
RESEAU SERIAL NO.	89	181
FILTER TYPE	NONE	WRATTEN 21
APERTURE	F1.8	F4.5
EXPOSURE TIME	2.8 SEC.	1/500 SEC.
EQUIVALENT FOCAL LENGTH	84 NOM	MM 38.55 MM

RESOLUTION (INDEX)

ANGLE OFF AXIS	8	18	28	38	35
HIGH CONTRAST-R/T (3400 FILM)	871/71	882/81	899/83	893/43	886/31

AWAR 72 LINES/MM  
READ FROM 4400 FILM.

DISTORTION

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

ALIGNMENT	STELLAR	INDEX
	-8.8884 INCHES/.937 INCHES	-8.8889 INCHES/2.25 INCH

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SYSTEM NO. J-38  
VEHICLE NO. 1627  
MISSION NO. 1031-1  
CAMERA NOS. 184/185

LENS DATA SUMMARY STELLAR INDEX D86/106/86 -2 MISSION

	STELLAR	INDEX
LENS SERIAL NO.	11587	819195
RESEAU SERIAL NO.	86	186
FILTER TYPE	NONE	WRATTEN 21
APERTURE	F1.8	F4.5
EXPOSURE TIME	2.8 SEC.	1/500 SEC.
EQUIVALENT FOCAL LENGTH	84 NOM	MM 38.56 MM

RESOLUTION (INDEX)

ANGLE OFF AXIS	0	10	20	30	35
HIGH CONTRAST-R/T (3400 FILM)	864/67	885/84	185/83	886/47	887/31

AWAR 72 LINES/MM  
READ FROM 4400 FILM.

DISTORTION

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

ALIGNMENT	STELLAR	INDEX
	-0.8888 INCHES/.937 INCHES	-0.8812 INCHES/2.25 INCH

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SYSTEM NO. J-30  
VEHICLE NO. 1627  
MISSION NO. 1831-1  
CAMERA NOS. 184/185

CYCLE PERIOD DATA

V/H LEVEL	RAMP AMPLITUDE	SETTING RAMP-SEC	---CALIBRATED---		---IN-FLIGHT---		ORBIT NO.
			CYCLE PERIOD-SEC MASTER	CYCLE PERIOD-SEC SLAVE	CYCLE PERIOD-SEC MASTER	CYCLE PERIOD-SEC SLAVE	
6	7	321	3.335	3.322	3.388	3.368	9
6	7	1577	2.452	2.442	2.468	2.467	16
6	7	1611	2.433	2.423	2.452	2.448	32
6	7	1648	2.428	2.411	2.428	2.411	48
6	5	1752	2.242	2.249	2.268	2.258	79
6	5	1758	2.242	2.258	2.268	2.258	95
6	5	1838	2.248	2.246	2.265	2.268	111

NOTE

A -8 OR \* INDICATE NO DATA AVAILABLE.

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A. 1031-1  
 B. DRY  
 C. PERFORMANCE ESTIMATE PART ONE

OPERATIONS SUMMARY

FWD PAN CAMERA NUMBER 184												
OPN NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM
PRE-FLT 139												
1	4	0	14	ON	2 52 13	151 46W	731253	758884	7	23	31	28 1324 84688
				OFF	2 49 43	150 9W	722583	748921	7	23	32	9 1331 84729
5	5	1	56	ON	2 67 26	99 4E	787886	816788	8	5	25	37 12 1 19537
				OFF	2 58 29	112 32E	749388	776743	8	5	28	28 1258 19788
6	5	1	53	ON	2 71 13	65 3E	886867	835663	8	6	53	52 1114 24832
				OFF	2 63 29	83 45E	768283	796357	8	6	56	38 1231 24998
6	5	2	68	ON	2 26 41	185 52E	656323	688243	8	7	6	22 14 9 25582
				OFF	2 17 12	188 14E	644422	667894	8	7	8	47 1421 25727
7	3	1	38	ON	2 52 18	72 34E	722888	749238	8	8	29	28 1319 38568
				OFF	2 45 58	76 17E	781838	727466	8	8	31	2 1336 38662
7	3	2	45	ON	2 41 18	78 22E	688433	713563	8	8	32	13 1345 38733
				OFF	2 34 4	81 3E	669986	694428	8	8	34	6 1358 38846
8	3	1	15	ON	2 65 11	35 46E	772159	888463	8	9	55	14 1218 35714
				OFF	2 62 58	39 29E	762853	789972	8	9	55	57 1233 35757
8	3	2	48	ON	2 49 18	51 51E	711195	737186	8	9	59	46 1327 35986
				OFF	2 41 8	55 53E	686368	711412	8	10	1	56 1345 36116
9	3	2	14	ON	1 38 21	115 8W	978272	1814498	8	11	7	19 327 48839
				OFF	1 41 18	113 58W	971843	1887812	8	11	8	7 332 48887
10	4	1	41	ON	2 29 45	14 36E	656778	688787	8	13	4	2 14 2 47842
				OFF	2 23 4	16 24E	646275	669817	8	13	5	44 1411 47144
11	7	1	45	ON	2 12 12	3 39W	636258	659416	8	14	38	6 1423 52686
				OFF	2 5 2	2 9W	637342	668548	8	14	39	55 1431 52795
14	7	1	21	ON	3 18 58	64 55W	678685	783364	8	19	14	47 1455 69287
				OFF	3 22 27	64 3W	689269	714431	8	19	15	42 1459 69342
16	6	8	14	ON	2 33 48	122 15W	662838	686173	8	22	8	39 1351 79239
				OFF	2 31 21	121 29W	657148	681899	8	22	1	17 1355 79277
17	6	1	21	ON	2 75 1	143 21E	827182	857582	8	23	17	1 858 83821
				OFF	2 74 5	159 12E	812184	841938	8	23	18	6 954 83886
22	8	1	14	ON	2 56 19	98 28E	724358	758847	9	6	52	16 1253 24736
				OFF	2 54 8	92 13E	716238	742411	9	6	52	55 13 1 24775
22	8	2	187	ON	2 26 22	184 28E	647532	671122	9	7	8	9 1357 25289
				OFF	2 9 24	188 19E	636838	668817	9	7	4	28 1417 25468
23	2	1	13	ON	2 46 45	74 11E	692597	717884	9	8	24	27 1321 38267
				OFF	2 44 26	75 21E	685894	718929	9	8	25	4 1326 38384
27	9	1	35	ON	2 38 5	9 41W	651964	675728	9	14	27	9 1348 52829
				OFF	2 24 26	8 8W	643825	667275	9	14	28	36 1356 52116
28	3	1	43	ON	2 73 59	88 29W	883838	832519	9	15	43	43 949 56623
				OFF	2 69 22	65 46W	774818	882384	9	15	45	58 1122 56758
30	4	1	19	ON	3 15 32	67 16W	673476	698841	9	19	7	28 1438 68848
				OFF	3 18 46	66 31W	682431	787334	9	19	8	17 1442 68897
31	4	1	29	ON	2 22 1	97 54W	648768	664895	9	28	27	33 1355 73653
				OFF	2 17 23	96 48W	637467	668678	9	28	28	44 14 1 73724

32	4	8	15	ON	2	33	58	123	58W	657579	681546	9	21	54	6	1338	78846	
				OFF	2	31	21	123	3W	653836	676832	9	21	54	44	1342	78884	
37	5	1	188	ON	2	74	8	66	58E	797368	826623	18	5	9	58	937	18598	
				OFF	2	68	59	186	34E	732668	759464	18	5	14	42	1228	18882	
37	5	2	11	ON	2	32	23	123	38E	653381	677191	18	5	22	21	1336	19341	
				OFF	2	38	34	124	12E	658347	674842	18	5	22	49	1339	19369	
38	5	1	14	ON	2	56	16	88	58E	715288	741426	18	6	45	36	1248	24336	
				OFF	2	53	54	98	46E	787488	733255	18	6	46	15	1249	24375	
38	5	2	74	ON	2	32	26	181	2E	653175	676977	18	6	51	54	1336	24714	
				OFF	2	28	34	184	16E	638493	661743	18	6	54	56	1352	24896	
39	3	1	91	ON	2	58	45	78	21E	697813	722467	18	8	16	41	1258	29881	
				OFF	2	36	4	77	13E	659695	683743	18	8	28	32	1329	38832	
41	5	1	39	ON	2	52	15	24	18E	788571	726168	18	11	15	25	1252	48525	
				OFF	2	45	55	27	55E	682173	787868	18	11	17	7	13	8	48627
43	5	1	38	ON	2	28	6	8	33W	637536	668758	18	14	22	53	1348	51773	
				OFF	2	13	59	7	9W	635577	658717	18	14	24	26	1355	51866	
48	7	8	15	ON	2	33	57	125	21W	653662	677482	18	21	47	9	1325	78429	
				OFF	2	31	29	124	34W	649576	673242	18	21	47	47	1329	78467	
49	1	1	16	ON	2	75	2	139	59E	882588	832842	18	23	3	38	823	83818	
				OFF	2	74	25	152	26E	791732	828781	18	23	4	28	914	83868	
49	1	2	43	ON	2	78	15	177	8E	764861	792857	18	23	6	28	1854	83188	
				OFF	2	64	6	168	51W	737689	764681	18	23	8	32	1153	83312	
58	7	1	34	ON	2	71	43	148	43E	771853	799315	11	8	35	26	1838	2126	
				OFF	2	67	12	162	44E	749469	776918	11	8	37	6	1128	2226	
52	8	1	41	ON	2	73	11	95	35E	778777	887333	11	3	33	58	956	12838	
				OFF	2	68	12	115	11E	752488	788844	11	3	35	52	1116	12952	
54	4	1	14	ON	2	56	18	87	22E	787364	733218	11	6	38	32	1228	23912	
				OFF	2	53	55	89	19E	699894	725457	11	6	39	12	1236	23952	
54	4	2	32	ON	2	26	21	181	22E	641733	665185	11	6	46	23	1331	24383	
				OFF	2	21	7	182	42E	637472	668683	11	6	47	43	1338	24463	
55	5	1	79	ON	2	49	11	69	53E	685783	718731	11	8	18	1	1249	29481	
				OFF	2	36	32	75	38E	656393	688316	11	8	13	28	1315	29688	
56	8	1	63	ON	2	55	16	43	4E	783872	728756	11	9	37	54	1238	34674	
				OFF	2	45	1	49	31E	674446	699858	11	9	48	39	1258	34839	
61	8	1	15	ON	3	14	38	47	45W	678858	783627	11	17	23	33	1412	62613	
				OFF	3	17	17	47	18W	686586	711562	11	17	24	13	1415	62653	
62	8	1	18	ON	3	14	8	78	27W	677788	782516	11	18	52	58	1411	67978	
				OFF	3	17	18	69	44W	686914	711986	11	18	53	46	1414	68826	
65	5	1	48	ON	2	78	11	175	51E	752877	788448	11	22	59	9	1842	82749	
				OFF	2	63	32	169	28W	725933	752482	11	23	1	21	1143	82881	
68	5	1	88	ON	2	55	18	132	2E	697289	722754	12	3	32	18	1228	12738	
				OFF	2	42	8	139	54E	663449	687637	12	3	35	51	1255	12951	
69	7	1	76	ON	2	48	22	118	8E	659728	683777	12	5	5	48	1257	18348	
				OFF	2	29	11	121	49E	642322	665715	12	5	8	41	1315	18521	
71	8	1	92	ON	2	58	53	68	59E	786679	732499	12	7	59	52	12	3	28792
				OFF	2	45	6	78	44E	669859	693468	12	8	3	36	1246	29816	
71	8	2	27	ON	2	11	37	88	56E	636346	659515	12	8	12	11	1335	29531	
				OFF	2	7	29	81	49E	639194	662478	12	8	13	14	1348	29594	
72	4	1	59	ON	2	56	55	48	19E	788843	725613	12	9	29	56	1211	34196	
				OFF	2	48	2	46	37E	675685	788252	12	9	32	21	1238	34341	
74	8	1	43	ON	2	28	6	11	17E	635241	658369	12	12	38	35	1323	45515	

	OFF	2	13	37	12	46E	635474	658618	12	12	48	14	1331	45614				
74	8	2	48	ON	2	3	19	14	56E	643916	667369	12	12	42	58	1342	45778	
	OFF	3	2	48	16	11E	653685	677586	12	12	44	23	1349	45863				
79	9	1	16	ON	2	35	2	185	48W	647846	671447	12	28	2	28	1259	72148	
	OFF	2	32	29	184	58W	644373	667844	12	28	2	59	13	3	72179			
84	7	1	62	ON	2	68	23	125	48E	784771	738519	13	3	23	3	1146	12183	
	OFF	2	51	5	133	51E	678516	783273	13	3	25	38	1221	12338				
86	3	1	62	ON	2	48	52	98	4E	672199	696717	13	6	25	13	1225	23113	
	OFF	2	39	39	94	28E	653298	677184	13	6	27	38	1245	23258				
87	1	1	237	ON	2	78	17	38	46E	738911	765952	13	7	48	23	1823	28183	
	OFF	2	36	13	73	18E	647484	671872	13	7	58	2	1258	28682				
93	3	1	23	ON	2	73	1	189	4W	749396	776835	13	16	44	8	927	68248	
	OFF	2	78	38	97	23W	736569	763522	13	16	45	15	1815	68315				
95	4	1	16	ON	2	37	4	187	42W	648153	671766	13	19	53	43	1242	71623	
	OFF	2	34	31	186	49W	644733	668217	13	19	54	22	1247	71662				
97	4	1	38	ON	2	68	28	178	47E	725665	752284	13	22	43	57	1839	81837	
	OFF	2	64	11	172	48W	718999	736983	13	22	45	17	1114	81917				
100	7	1	41	ON	2	48	11	134	27E	666516	698828	14	3	18	11	1216	11891	
	OFF	2	42	7	137	26E	654682	678541	14	3	19	47	1229	11987				
101	2	1	25	ON	2	53	15	188	39E	677689	782415	14	4	46	18	12	8	17178
	OFF	2	49	28	111	8E	668839	693231	14	4	47	19	1211	17239				
101	2	2	25	ON	2	25	25	128	27E	635774	658922	14	4	53	33	1255	17613	
	OFF	2	21	35	121	26E	634785	657812	14	4	54	32	13	8	17672			
102	2	1	42	ON	2	52	16	86	46E	674883	699428	14	6	16	2	12	3	22562
	OFF	2	45	58	98	29E	661871	685178	14	6	17	43	1219	22663				
103	1	1	16	ON	2	78	14	37	58E	729182	755855	14	7	48	6	1811	27686	
	OFF	2	68	11	43	46E	721182	747469	14	7	48	58	1835	27658				
103	1	2	159	ON	2	58	52	58	37E	691383	716626	14	7	43	41	1138	27821	
	OFF	2	35	48	72	14E	643961	667417	14	7	49	52	1238	28192				
104	1	1	119	ON	2	61	22	33	12E	697998	723482	14	9	12	26	1125	33146	
	OFF	2	44	8	46	19E	656488	688487	14	9	17	18	1222	33438				
105	4	1	19	ON	2	62	52	8	38E	781922	727563	14	18	41	27	1116	38487	
	OFF	2	68	6	12	9E	693718	719849	14	18	42	15	1138	38535				
105	4	2	62	ON	2	54	16	17	37E	678171	782915	14	18	43	53	1154	38633	
	OFF	2	44	55	23	19E	657767	681742	14	18	46	23	1219	38783				
111	4	1	5	ON	2	31	3	186	47W	637136	668335	14	19	46	44	1239	71284	
	OFF	2	29	26	186	18W	635938	659892	14	19	47	9	1241	71229				

OPERATIONS SUMMARY

AFT	PAN	CAMERA	NUMBER			185												
OPN	NO	FRA	0	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM					
PRE-FLT	121																	
1	4	8	14	ON	2	52	26	151	59W	728566	755214	7	23	31	48	1323	84788	
				OFF	2	49	55	158	28W	719988	746228	7	23	32	21	1338	84741	
5	5	1	57	ON	2	67	48	98	26E	784921	813711	8	5	25	49	1159	19549	
				OFF	2	58	43	112	13E	746466	773794	8	5	28	32	1257	19712	
6	5	1	53	ON	2	71	26	64	6E	883114	832597	8	6	54	4	1118	24844	
				OFF	2	63	43	83	19E	765289	793332	8	6	56	42	1229	25882	
6	5	2	68	ON	2	26	48	185	47E	654999	678878	8	7	6	34	14	9	25594
				OFF	2	17	18	188	9E	643796	667245	8	7	8	59	1421	25739	



7	3	1	38	ON	2	52	22	72	21E	728164	746494	8	8	29	32	1318	38572	
				OFF	2	46	1	76	8E	699434	724988	8	8	31	14	1335	38674	
7	3	2	45	ON	2	41	28	78	14E	686248	711296	8	8	32	25	1345	38745	
				OFF	2	34	12	88	57E	668282	692569	8	8	34	18	1357	38858	
8	3	1	15	ON	2	65	25	35	16E	769255	797448	8	9	55	26	1216	35726	
				OFF	2	63	4	39	4E	759178	786988	8	9	56	9	1232	35769	
8	3	2	58	ON	2	49	22	51	41E	788682	734577	8	9	59	58	1326	35998	
				OFF	2	41	9	55	46E	684288	789179	8	18	2	8	1345	36128	
9	3	8	14	ON	1	37	46	115	19W	976638	1812783	8	11	7	31	326	48851	
				OFF	1	48	44	114	18W	978125	1886827	8	11	8	19	331	48899	
18	4	1	42	ON	2	29	52	14	38E	655387	679189	8	13	4	14	14	2	47854
				OFF	2	23	11	16	19E	645279	668783	8	13	5	56	1411	47156	
11	7	1	45	ON	2	12	17	3	44W	636116	659277	8	14	38	18	1423	52698	
				OFF	2	5	8	2	14W	637789	661812	8	14	48	7	1438	52887	
14	7	1	21	ON	3	18	48	65	1W	688888	785733	8	19	14	59	1454	69299	
				OFF	3	22	16	64	9W	691781	717837	8	19	15	54	1459	69354	
16	6	8	14	ON	2	33	55	122	21W	668386	684459	8	22	8	51	1351	79251	
				OFF	2	31	29	121	35W	655649	679544	8	22	1	29	1354	79289	
17	6	1	21	ON	2	75	3	141	48E	824287	854579	8	23	17	13	844	83833	
				OFF	2	74	12	157	53E	889248	838966	8	23	18	18	949	83898	
22	8	1	14	ON	2	56	31	98	5E	721733	748122	9	6	52	28	1252	24748	
				OFF	2	54	11	92	1E	713675	739768	9	6	53	7	13	8	24787
22	8	2	188	ON	2	26	28	184	15E	646423	669978	9	7	8	21	1357	25221	
				OFF	2	9	29	188	14E	637814	668288	9	7	4	48	1417	25488	
23	2	1	13	ON	2	46	55	74	2E	698322	715524	9	8	24	39	1328	38279	
				OFF	2	44	36	75	13E	683724	788677	9	8	25	16	1325	38316	
27	9	1	35	ON	2	38	12	9	47W	658644	674351	9	14	27	21	1347	52841	
				OFF	2	24	32	8	13W	642896	666311	9	14	28	48	1355	52128	
28	3	1	43	ON	2	74	7	89	44W	888235	829689	9	15	43	55	944	56635	
				OFF	2	69	35	66	27W	771198	799466	9	15	46	2	1119	56762	
38	4	1	19	ON	3	15	23	67	21W	675631	788277	9	19	7	48	1438	68868	
				OFF	3	18	37	66	37W	684798	789791	9	19	8	29	1441	68989	
31	4	1	29	ON	2	22	7	97	59W	648844	663352	9	28	27	45	1355	73665	
				OFF	2	17	28	96	52W	637181	668298	9	28	28	56	14	1	73736
32	4	8	15	ON	2	33	57	123	56W	656868	679978	9	21	54	18	1338	78858	
				OFF	2	31	28	123	9W	651682	675428	9	21	54	56	1342	78896	
37	5	1	181	ON	2	74	14	65	36E	794611	823778	18	5	18	2	932	18682	
				OFF	2	61	12	186	14E	738837	756741	18	5	14	54	1219	18894	
37	5	2	11	ON	2	32	38	123	33E	652889	675767	18	5	22	33	1336	19353	
				OFF	2	38	41	124	6E	649892	672748	18	5	23	1	1339	19381	
38	5	1	14	ON	2	56	28	88	36E	712786	738838	18	6	45	48	1248	24348	
				OFF	2	54	5	98	33E	784989	738745	18	6	46	27	1248	24387	
38	5	2	75	ON	2	32	33	188	56E	651889	675568	18	6	52	6	1335	24726	
				OFF	2	28	48	184	12E	637958	661188	18	6	55	8	1351	24988	
39	3	1	92	ON	2	58	55	78	11E	694715	728883	18	8	16	53	1257	29813	
				OFF	2	36	12	77	7E	658116	682184	18	8	28	44	1329	38844	
41	5	1	39	ON	2	52	26	23	59E	698235	723736	18	11	15	37	1251	48537	
				OFF	2	46	4	27	46E	688897	784913	18	11	17	19	13	8	48639
43	5	1	38	ON	2	28	11	8	38W	637876	668273	18	14	23	5	1348	51785	
				OFF	2	14	5	7	14W	635583	658723	18	14	24	38	1355	51878	
48	7	8	16	ON	2	34	4	125	27W	652294	676863	18	21	47	21	1325	78441	

		OFF	2	31	35	124	48W	648365	671985	18	21	47	59	1329	78479			
49	1	1	16	ON	2	75	3	138	35E	799929	829291	18	23	3	42	817	83822	
		OFF	2	74	31	151	11E	789863	818811	18	23	4	32	9	9	83872		
49	1	2	43	ON	2	78	26	176	17E	761394	789288	18	23	6	48	1851	83288	
		OFF	2	64	18	169	14W	735821	761915	18	23	8	44	1151	83324			
58	7	1	34	ON	2	71	53	147	52E	768384	796544	11	8	35	38	1826	2138	
		OFF	2	67	24	162	13E	746839	774181	11	8	37	18	1126	2238			
52	8	1	42	ON	2	73	19	94	34E	776118	884573	11	3	34	2	952	12842	
		OFF	2	68	24	114	37E	749868	777316	11	3	36	4	1114	12964			
54	4	1	14	ON	2	56	29	87	9E	785887	738764	11	6	38	44	1227	23924	
		OFF	2	54	5	89	7E	697613	723891	11	6	39	24	1235	23964			
54	4	2	33	ON	2	26	27	181	17E	648921	664262	11	6	46	35	1331	24395	
		OFF	2	21	13	182	37E	637833	668228	11	6	47	55	1338	24475			
55	5	1	79	ON	2	49	28	69	44E	683611	788568	11	8	18	13	1248	29413	
		OFF	2	36	39	75	32E	654936	678885	11	8	13	32	1315	29612			
56	8	1	64	ON	2	55	27	42	51E	788764	726368	11	9	38	6	1229	34686	
		OFF	2	45	9	49	23E	672548	697888	11	9	48	51	1258	34851			
61	8	1	15	ON	3	14	29	47	51W	681138	785992	11	17	23	45	1412	62625	
		OFF	3	17	6	47	16W	688951	714188	11	17	24	25	1415	62665			
62	8	1	18	ON	3	13	59	78	33W	688841	784854	11	18	53	18	1418	67998	
		OFF	3	17	8	69	51W	689367	714531	11	18	53	58	1414	68838			
65	5	1	48	ON	2	78	22	175	11E	758326	777888	11	22	59	21	1839	82761	
		OFF	2	63	43	169	41W	723486	749942	11	23	1	33	1142	82893			
68	5	1	89	ON	2	55	28	131	58E	695887	728478	12	3	32	38	1219	12758	
		OFF	2	42	8	139	47E	661814	685941	12	3	36	3	1254	12963			
69	7	1	76	ON	2	48	29	117	53E	658188	682179	12	5	6	8	1257	18368	
		OFF	2	29	17	121	43E	641458	664828	12	5	8	53	1315	18533			
71	8	1	92	ON	2	59	3	68	44E	784398	738124	12	8	8	4	12	2	28884
		OFF	2	45	14	78	36E	667296	691638	12	8	3	48	1246	29828			
71	8	2	27	ON	2	11	43	88	52E	636775	659968	12	8	12	23	1335	29543	
		OFF	2	7	35	81	44E	639941	663245	12	8	13	26	1348	29686			
72	4	1	59	ON	2	57	5	48	5E	697828	723386	12	9	38	8	1218	34288	
		OFF	2	48	11	46	29E	673716	698292	12	9	32	33	1238	34353			
74	8	1	43	ON	2	28	11	11	13E	635868	658181	12	12	38	47	1323	45527	
		OFF	2	13	42	12	42E	635777	658925	12	12	48	26	1331	45626			
74	8	2	48	ON	2	3	25	14	51E	645884	668498	12	12	43	2	1342	45782	
		OFF	3	2	41	16	6E	655232	679111	12	12	44	35	1348	45875			
79	9	1	16	ON	2	35	8	185	53W	646782	678268	12	28	2	32	1258	72152	
		OFF	2	32	36	185	3W	643386	666828	12	28	3	11	13	2	72191		
84	7	1	62	ON	2	68	34	125	32E	782547	728211	13	3	23	15	1145	12195	
		OFF	2	51	14	133	42E	676685	781298	13	3	25	58	1228	12358			
86	3	1	62	ON	2	49	8	89	55E	678398	694849	13	6	25	25	1224	23125	
		OFF	2	39	46	94	21E	651958	675786	13	6	27	58	1245	23278			
87	1	1	238	ON	2	78	27	38	8E	736587	763457	13	7	48	35	1828	28115	
		OFF	2	36	19	73	4E	646343	669888	13	7	58	14	1258	28694			
93	3	1	23	ON	2	73	8	189	57W	747813	774362	13	16	44	28	924	68268	
		OFF	2	78	39	98	1W	734216	761879	13	16	45	27	1813	68327			
95	4	1	16	ON	2	37	18	187	48W	647836	678687	13	19	53	55	1242	71635	
		OFF	2	34	37	186	54W	643767	667215	13	19	54	34	1246	71674			
97	4	1	38	ON	2	68	38	178	17E	723382	749835	13	22	44	9	1837	81849	
		OFF	2	64	21	173	9W	788799	734699	13	22	45	29	1112	81929			

100	7	1	41	ON	2	48	19	134	19E	664873	689116	14	3	18	23	1215	11983	
				OFF	2	42	13	137	20E	653331	677139	14	3	19	59	1229	11999	
101	2	1	25	ON	2	53	23	108	29E	675848	780584	14	4	46	38	12	8	17198
				OFF	2	49	35	111	8E	667149	691478	14	4	47	31	1211	17251	
101	2	2	25	ON	2	25	31	120	22E	635445	658588	14	4	53	45	1255	17625	
				OFF	2	21	41	121	21E	634642	657747	14	4	54	44	1259	17684	
102	2	1	42	ON	2	52	24	86	37E	673887	697556	14	6	16	14	12	2	22574
				OFF	2	46	6	98	22E	659546	683588	14	6	17	55	1219	22675	
103	1	1	16	ON	2	78	23	37	14E	726986	753493	14	7	48	18	18	9	27618
				OFF	2	68	21	43	17E	718868	745142	14	7	41	2	1834	27662	
103	1	2	160	ON	2	59	1	58	23E	689365	714532	14	7	43	53	1137	27833	
				OFF	2	35	46	72	8E	642993	666413	14	7	58	4	1238	28284	
104	1	1	119	ON	2	61	31	32	56E	695989	721322	14	9	12	38	1124	33158	
				OFF	2	44	7	46	12E	655866	678948	14	9	17	22	1221	33442	
105	4	1	19	ON	2	63	1	8	28E	699889	725378	14	18	41	39	1114	38499	
				OFF	2	68	15	11	54E	691688	716934	14	18	42	27	1129	38547	
105	4	2	62	ON	2	54	24	17	26E	676323	788997	14	18	44	5	1153	38645	
				OFF	2	45	2	23	12E	656317	688237	14	18	46	35	1219	38795	
111	4	1	5	ON	2	31	9	106	52W	636528	659696	14	19	46	56	1239	71216	
				OFF	2	29	31	106	23W	635426	658561	14	19	47	21	1241	71241	

PHOTOGRAPHIC SUMMARY

FWD PAN CAMERA NO 184 P.2258 SLIT W/23A FILTER 3484 FILM

OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI
PRE-FLT	139	367.7							
1 4 8	14	37.8	ON 246	41.7	53.1	11.88	12.48	11.88	11.28
			OFF 258	43.3	55.1	11.82	12.41	11.81	11.21
5 5 1	56	148.1	ON 222	29.6	43.2	11.64	12.29	11.69	11.89
			OFF 237	37.4	47.8	11.74	12.37	11.77	11.17
6 5 1	53	148.2	ON 215	25.4	41.6	11.68	12.22	11.62	11.82
			OFF 229	33.3	44.8	11.69	12.33	11.73	11.13
6 5 2	68	158.7	ON 273	53.8	79.9	11.95	12.42	11.82	11.22
			OFF 275	54.4	93.5	11.96	12.42	11.82	11.22
7 3 1	38	188.5	ON 248	42.2	51.7	11.88	12.48	11.88	11.28
			OFF 256	46.2	57.8	11.85	12.42	11.82	11.22
7 3 2	45	119.8	ON 261	48.7	61.5	11.88	12.42	11.82	11.22
			OFF 268	51.9	69.8	11.92	12.42	11.82	11.22
8 3 1	15	39.7	ON 238	31.8	43.5	11.78	12.32	11.72	11.12
			OFF 232	34.8	44.7	11.71	12.34	11.74	11.14
8 3 2	48	127.8	ON 258	44.2	53.8	11.82	12.41	11.81	11.21
			OFF 259	49.8	61.6	11.87	12.42	11.82	11.22
9 3 8	14	37.8	ON 192	-24.1	39.2	11.44	8.88	8.88	8.88
			OFF 193	-21.7	38.4	11.44	8.88	8.88	8.88
10 4 1	41	188.4	ON 269	53.7	74.9	11.92	12.42	11.82	11.22
			OFF 272	55.8	84.4	11.94	12.42	11.82	11.22
11 7 1	45	119.8	ON 276	54.7	108.5	11.96	12.42	11.82	11.22
			OFF 275	52.8	118.2	11.96	12.42	11.82	11.22
14 7 1	21	55.5	ON 262	39.9	133.1	11.89	12.39	11.79	11.19
			OFF 259	37.3	135.2	11.87	12.37	11.77	11.17
16 6 8	14	37.8	ON 266	53.3	68.2	11.91	12.42	11.82	11.22

~~TOP SECRET~~  
~~TOP SECRET~~

				OFF	268	54.2	71.5	11.92	12.42	11.82	11.22	
17	6	1	21	55.5	ON	214	17.2	37.6	11.59	11.94	11.34	18.74
				OFF	217	28.7	38.2	11.62	12.89	11.49	18.89	
22	8	1	14	37.8	ON	243	48.8	45.1	11.78	12.39	11.79	11.19
				OFF	246	41.9	46.6	11.88	12.48	11.88	11.28	
22	8	2	187	283.8	ON	273	56.6	77.5	11.94	12.42	11.82	11.22
				OFF	277	56.3	184.5	11.97	12.42	11.82	11.22	
23	2	1	13	34.4	ON	255	47.1	52.1	11.85	12.42	11.82	11.22
				OFF	258	48.6	54.3	11.86	12.42	11.82	11.22	
27	9	1	35	92.6	ON	271	56.3	78.9	11.93	12.42	11.82	11.22
				OFF	274	57.8	79.7	11.95	12.42	11.82	11.22	
28	3	1	43	113.7	ON	228	28.9	35.9	11.64	12.89	11.49	18.89
				OFF	227	27.9	37.3	11.68	12.26	11.66	11.86	
32	4	1	19	58.3	ON	265	44.7	133.5	11.98	12.41	11.81	11.21
				OFF	262	42.4	135.7	11.89	12.48	11.88	11.28	
31	4	1	29	76.7	ON	275	58.9	83.1	11.96	12.42	11.82	11.22
				OFF	277	59.2	91.1	11.96	12.42	11.82	11.22	
32	4	8	15	39.7	ON	269	55.5	64.4	11.92	12.42	11.82	11.22
				OFF	278	56.6	67.9	11.93	12.42	11.82	11.22	
37	5	1	188	264.5	ON	221	28.4	34.8	11.64	12.88	11.48	18.88
				OFF	239	36.7	38.8	11.75	12.36	11.76	11.16	
37	5	2	11	29.1	ON	278	56.9	65.2	11.93	12.42	11.82	11.22
				OFF	271	57.6	67.9	11.94	12.42	11.82	11.22	
38	5	1	14	37.8	ON	246	48.9	41.1	11.79	12.39	11.79	11.19
				OFF	249	42.9	42.6	11.81	12.48	11.88	11.28	
38	5	2	74	195.7	ON	278	57.8	64.8	11.93	12.42	11.82	11.22
				OFF	276	68.3	84.6	11.96	12.42	11.82	11.22	
39	3	1	91	248.7	ON	253	45.5	44.6	11.84	12.41	11.81	11.21
				OFF	268	55.3	59.5	11.92	12.42	11.82	11.22	
41	5	1	39	183.2	ON	251	44.4	43.8	11.83	12.41	11.81	11.21
				OFF	258	49.3	48.1	11.87	12.42	11.82	11.22	
43	5	1	38	188.5	ON	274	61.3	84.7	11.95	12.42	11.82	11.22
				OFF	275	61.2	96.3	11.96	12.42	11.82	11.22	
48	7	8	15	39.7	ON	268	57.6	68.8	11.92	12.42	11.82	11.22
				OFF	278	58.8	63.7	11.93	12.42	11.82	11.22	
49	1	1	16	42.3	ON	217	16.5	31.8	11.61	11.98	11.38	18.78
				OFF	228	19.5	31.4	11.63	12.84	11.44	18.84	
49	1	2	43	113.7	ON	227	26.9	32.4	11.68	12.25	11.65	11.85
				OFF	235	33.9	34.5	11.73	12.34	11.74	11.14	
58	7	1	34	89.9	ON	225	24.8	31.8	11.67	12.28	11.68	11.88
				OFF	231	38.6	33.1	11.71	12.38	11.78	11.18	
52	8	1	41	188.4	ON	223	22.3	31.1	11.65	12.14	11.54	18.94
				OFF	238	29.5	32.3	11.78	12.29	11.69	11.89	
54	4	1	14	37.8	ON	247	41.6	37.8	11.88	12.48	11.88	11.28
				OFF	249	43.7	38.5	11.81	12.41	11.81	11.21	
54	4	2	32	84.6	ON	273	61.8	78.8	11.94	12.42	11.82	11.22
				OFF	274	63.1	88.9	11.95	12.42	11.82	11.22	
55	5	1	79	289.8	ON	255	47.8	41.5	11.85	12.42	11.82	11.22
				OFF	267	56.9	54.5	11.91	12.42	11.82	11.22	
56	8	1	63	166.6	ON	248	42.6	37.1	11.81	12.48	11.88	11.28
				OFF	259	51.1	44.8	11.87	12.42	11.82	11.22	

~~TOP SECRET~~

61	8	1	15	39.7	ON 268	58.1	138.5	11.88	12.42	11.82	11.22
					OFF 258	48.8	148.5	11.86	12.42	11.82	11.22
62	8	1	18	47.6	ON 261	58.6	138.3	11.88	12.42	11.82	11.22
					OFF 258	48.1	148.7	11.86	12.42	11.82	11.22
65	5	1	48	127.8	ON 233	27.8	28.9	11.72	12.25	11.65	11.85
					OFF 248	34.8	38.9	11.81	12.35	11.75	11.19
68	5	1	88	232.8	ON 267	43.8	34.8	11.92	12.48	11.88	11.28
					OFF 286	54.4	44.1	12.81	12.42	11.82	11.22
69	7	1	76	281.8	ON 288	55.7	45.6	12.82	12.42	11.82	11.22
					OFF 297	62.8	61.5	12.87	12.42	11.82	11.22
71	8	1	92	243.3	ON 262	39.7	31.4	11.88	12.39	11.79	11.19
					OFF 283	52.1	48.3	12.88	12.42	11.82	11.22
71	8	2	27	71.4	ON 297	66.4	188.8	12.87	12.42	11.82	11.22
					OFF 294	65.3	189.3	12.85	12.42	11.82	11.22
72	4	1	59	156.1	ON 265	41.6	32.1	11.91	12.48	11.88	11.28
					OFF 279	49.7	37.6	11.98	12.42	11.82	11.22
74	8	1	43	113.7	ON 299	66.9	79.2	12.88	12.42	11.82	11.22
					OFF 298	67.2	95.1	12.87	12.42	11.82	11.22
74	8	2	48	185.8	ON 291	64.1	117.9	12.84	12.42	11.82	11.22
					OFF 284	68.6	128.1	12.88	12.42	11.82	11.22
79	9	1	16	42.3	ON 294	68.5	48.9	12.85	12.42	11.82	11.22
					OFF 296	62.2	52.7	12.86	12.42	11.82	11.22
84	7	1	62	164.8	ON 262	38.4	27.5	11.88	12.38	11.78	11.18
					OFF 277	47.5	32.8	11.97	12.42	11.82	11.22
86	3	1	62	164.8	ON 281	49.7	32.9	11.99	12.42	11.82	11.22
					OFF 291	57.6	48.8	12.84	12.42	11.82	11.22
87	1	1	237	626.9	ON 239	26.7	24.8	11.75	12.24	11.64	11.84
					OFF 292	68.4	44.6	12.84	12.42	11.82	11.22
93	3	1	23	68.8	ON 232	22.2	22.4	11.71	12.14	11.54	18.94
					OFF 239	26.4	22.7	11.75	12.24	11.64	11.84
95	4	1	16	42.3	ON 292	68.4	48.6	12.84	12.42	11.82	11.22
					OFF 294	62.4	43.9	12.85	12.42	11.82	11.22
97	4	1	38	79.3	ON 246	29.3	22.2	11.88	12.29	11.69	11.89
					OFF 255	34.3	23.1	11.85	12.34	11.74	11.14
100	7	1	41	188.4	ON 282	58.9	29.1	11.99	12.42	11.82	11.22
					OFF 289	56.5	33.7	12.83	12.42	11.82	11.22
101	2	1	25	66.1	ON 276	46.8	26.1	11.96	12.42	11.82	11.22
					OFF 281	49.7	28.1	11.98	12.42	11.82	11.22
101	2	2	25	66.1	ON 297	69.2	58.1	12.87	12.42	11.82	11.22
					OFF 297	71.8	67.9	12.86	12.42	11.82	11.22
102	2	1	42	111.1	ON 277	47.8	26.3	11.97	12.42	11.82	11.22
					OFF 285	53.8	38.8	12.81	12.42	11.82	11.22
103	1	1	16	42.3	ON 243	26.7	28.5	11.78	12.24	11.64	11.84
					OFF 248	29.5	28.8	11.88	12.29	11.69	11.89
103	1	2	159	428.6	ON 267	48.2	23.2	11.91	12.39	11.79	11.19
					OFF 294	62.2	39.4	12.85	12.42	11.82	11.22
104	1	1	119	314.8	ON 263	37.5	22.2	11.89	12.37	11.77	11.17
					OFF 287	55.8	38.8	12.82	12.42	11.82	11.22
105	4	1	19	58.3	ON 268	35.9	21.5	11.87	12.36	11.76	11.16
					OFF 265	38.9	22.3	11.98	12.38	11.78	11.18
105	4	2	62	164.8	ON 275	45.8	24.5	11.95	12.41	11.81	11.21

				OFF 286	54.2	29.8	12.81	12.42	11.82	11.22	
111	4	1	5	26.5	ON 296	66.5	42.7	12.86	12.42	11.82	11.22
					OFF 296	67.8	45.5	12.86	12.42	11.82	11.22

PHOTOGRAPHIC SUMMARY

AFT PAN CAMERA NO 185 8.1588			SLIT W/21		FILTER		3484 FILM				
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI		
PRE-FLT	121	328.8									
1	4	8	14	37.8	ON 372	41.5	52.3	12.39	12.73	12.13	11.53
					OFF 378	43.2	54.3	12.41	12.74	12.14	11.54
5	5	1	57	158.8	ON 335	29.4	41.1	12.24	12.62	12.82	11.42
					OFF 359	37.2	46.7	12.34	12.78	12.18	11.58
6	5	1	53	148.2	ON 325	25.1	38.5	12.28	12.54	11.94	11.34
					OFF 346	33.1	43.3	12.29	12.66	12.86	11.46
6	5	2	68	158.7	ON 413	53.8	79.5	12.54	12.75	12.15	11.55
					OFF 417	54.5	93.2	12.55	12.75	12.15	11.55
7	3	1	38	188.5	ON 374	42.8	58.8	12.48	12.73	12.13	11.53
					OFF 387	46.1	56.4	12.45	12.75	12.15	11.55
7	3	2	45	119.8	ON 395	48.7	68.9	12.48	12.75	12.15	11.55
					OFF 486	51.9	69.4	12.52	12.75	12.15	11.55
8	3	1	15	39.7	ON 347	31.6	41.8	12.29	12.65	12.85	11.45
					OFF 351	33.8	43.2	12.31	12.67	12.87	11.47
8	3	2	58	132.3	ON 378	44.1	53.1	12.41	12.74	12.14	11.54
					OFF 391	48.9	61.8	12.46	12.75	12.15	11.55
9	3	8	14	37.8	ON 291	-24.6	38.9	12.84	8.88	8.88	8.88
					OFF 291	-22.2	38.1	12.84	8.88	8.88	8.88
10	4	1	42	111.1	ON 486	53.8	74.5	12.52	12.75	12.15	11.55
					OFF 412	55.1	84.1	12.54	12.75	12.15	11.55
11	7	1	45	119.8	ON 417	54.8	188.3	12.56	12.75	12.15	11.55
					OFF 417	52.9	118.1	12.55	12.75	12.15	11.55
14	7	1	21	55.5	ON 396	48.1	133.1	12.48	12.72	12.12	11.52
					OFF 391	37.5	135.3	12.46	12.78	12.18	11.58
16	6	8	14	37.8	ON 482	53.3	67.8	12.58	12.75	12.15	11.55
					OFF 485	54.2	71.8	12.51	12.75	12.15	11.55
17	6	1	21	55.5	ON 323	16.8	32.9	12.19	12.25	11.65	11.85
					OFF 328	28.4	34.1	12.21	12.41	11.81	11.21
22	8	1	14	37.8	ON 366	39.9	44.1	12.37	12.72	12.12	11.52
					OFF 371	41.7	45.8	12.39	12.73	12.13	11.53
22	8	2	188	285.7	ON 411	56.6	77.2	12.53	12.75	12.15	11.55
					OFF 418	56.3	184.3	12.56	12.75	12.15	11.55
23	2	1	13	34.4	ON 385	47.8	51.5	12.44	12.75	12.15	11.55
					OFF 388	48.6	53.7	12.45	12.75	12.15	11.55
27	9	1	35	92.6	ON 488	56.3	78.5	12.52	12.75	12.15	11.55
					OFF 413	57.8	79.3	12.54	12.75	12.15	11.55
28	3	1	43	113.7	ON 332	28.6	31.9	12.23	12.41	11.81	11.21
					OFF 343	27.6	34.9	12.27	12.59	11.99	11.39
30	4	1	19	58.3	ON 488	44.9	133.5	12.49	12.74	12.14	11.54
					OFF 395	42.5	135.7	12.48	12.73	12.13	11.53
31	4	1	29	76.7	ON 415	58.9	82.7	12.55	12.75	12.15	11.55
					OFF 417	59.2	98.8	12.56	12.75	12.15	11.55

32	4	8	15	39.7	ON 485	55.5	63.9	12.51	12.75	12.15	11.55
					OFF 487	56.6	67.5	12.52	12.75	12.15	11.55
37	5	1	181	267.1	ON 333	28.1	29.9	12.23	12.48	11.88	11.28
					OFF 368	36.5	37.5	12.35	12.69	12.89	11.49
37	5	2	11	29.1	ON 487	56.8	64.7	12.52	12.75	12.15	11.55
					OFF 489	57.6	67.4	12.53	12.75	12.15	11.55
38	5	1	14	37.8	ON 378	48.7	48.2	12.39	12.72	12.12	11.52
					OFF 375	42.7	41.8	12.48	12.73	12.13	11.53
38	5	2	75	198.4	ON 487	57.8	64.4	12.52	12.75	12.15	11.55
					OFF 416	68.4	84.2	12.55	12.75	12.15	11.55
39	3	1	92	243.3	ON 381	45.3	43.9	12.43	12.74	12.14	11.54
					OFF 483	55.3	59.1	12.51	12.75	12.15	11.55
41	5	1	39	183.2	ON 379	44.3	42.2	12.42	12.74	12.14	11.54
					OFF 398	49.2	47.5	12.46	12.75	12.15	11.55
43	5	1	38	188.5	ON 417	61.3	84.4	12.56	12.75	12.15	11.55
					OFF 418	61.3	96.8	12.56	12.75	12.15	11.55
48	7	8	16	42.3	ON 487	57.5	59.5	12.52	12.75	12.15	11.55
					OFF 418	58.8	63.2	12.53	12.75	12.15	11.55
49	1	1	16	42.3	ON 338	16.2	26.5	12.22	12.21	11.61	11.81
					OFF 334	19.2	27.2	12.24	12.36	11.76	11.16
49	1	2	43	113.7	ON 345	26.6	29.9	12.28	12.57	11.97	11.37
					OFF 357	33.7	33.8	12.33	12.67	12.87	11.47
50	7	1	34	89.9	ON 342	24.6	28.8	12.27	12.53	11.93	11.33
					OFF 351	38.4	31.2	12.31	12.63	12.83	11.43
52	8	1	42	111.1	ON 339	22.1	27.5	12.26	12.46	11.86	11.26
					OFF 358	29.2	38.2	12.38	12.61	12.81	11.41
54	4	1	14	37.8	ON 375	41.4	36.1	12.48	12.73	12.13	11.53
					OFF 379	43.6	37.7	12.42	12.74	12.14	11.54
54	4	2	33	87.3	ON 415	61.8	78.4	12.55	12.75	12.15	11.55
					OFF 417	63.2	88.5	12.56	12.75	12.15	11.55
55	5	1	79	289.8	ON 388	47.6	48.9	12.45	12.75	12.15	11.55
					OFF 485	56.9	54.8	12.52	12.75	12.15	11.55
56	8	1	64	169.3	ON 377	42.4	36.3	12.41	12.73	12.13	11.53
					OFF 394	51.8	44.2	12.47	12.75	12.15	11.55
61	8	1	15	39.7	ON 395	58.3	138.5	12.48	12.75	12.15	11.55
					OFF 392	48.2	148.5	12.47	12.75	12.15	11.55
62	9	1	18	47.6	ON 396	58.8	138.3	12.48	12.75	12.15	11.55
					OFF 392	48.3	148.8	12.47	12.75	12.15	11.55
65	5	1	48	127.8	ON 354	26.7	26.4	12.32	12.57	11.97	11.37
					OFF 377	34.6	29.5	12.41	12.68	12.88	11.48
68	5	1	89	235.4	ON 481	42.9	33.1	12.58	12.73	12.13	11.53
					OFF 438	54.3	43.6	12.68	12.75	12.15	11.55
69	7	1	76	281.8	ON 433	55.6	45.1	12.61	12.75	12.15	11.55
					OFF 446	62.8	61.1	12.65	12.75	12.15	11.55
71	8	1	92	243.3	ON 393	39.5	38.4	12.47	12.71	12.11	11.51
					OFF 425	52.8	39.7	12.58	12.75	12.15	11.55
71	8	2	27	71.4	ON 446	66.4	99.8	12.65	12.75	12.15	11.55
					OFF 442	65.4	189.1	12.64	12.75	12.15	11.55
72	4	1	59	156.1	ON 399	41.4	31.1	12.49	12.73	12.13	11.53
					OFF 428	49.6	37.8	12.56	12.75	12.15	11.55
74	8	1	43	113.7	ON 449	66.9	78.8	12.66	12.75	12.15	11.55

				OFF 447	67.3	94.8	12.66	12.75	12.15	11.55
74	8	2	48	ON 436	64.2	117.7	12.62	12.75	12.15	11.55
				OFF 427	68.8	128.8	12.59	12.75	12.15	11.55
79	9	1	16	ON 442	68.4	48.5	12.64	12.75	12.15	11.55
				OFF 444	62.1	52.2	12.65	12.75	12.15	11.55
84	7	1	62	ON 393	38.2	26.4	12.47	12.71	12.11	11.51
				OFF 416	47.4	31.4	12.55	12.75	12.15	11.55
86	3	1	62	ON 422	49.6	32.3	12.57	12.75	12.15	11.55
				OFF 437	57.6	48.4	12.62	12.75	12.15	11.55
87	1	1	238	ON 359	26.5	21.6	12.34	12.57	11.97	11.37
				OFF 439	68.3	44.1	12.63	12.75	12.15	11.55
93	3	1	23	ON 349	21.9	19.1	12.38	12.46	11.86	11.26
				OFF 359	26.1	28.2	12.34	12.56	11.96	11.36
95	4	1	16	ON 439	68.3	48.2	12.63	12.75	12.15	11.55
				OFF 441	62.4	43.5	12.64	12.75	12.15	11.55
97	4	1	38	ON 378	29.1	28.1	12.38	12.61	12.81	11.41
				OFF 384	34.2	21.7	12.44	12.67	12.87	11.47
100	7	1	41	ON 424	58.8	28.6	12.58	12.75	12.15	11.55
				OFF 434	56.4	33.2	12.61	12.75	12.15	11.55
101	2	1	25	ON 414	45.8	25.4	12.55	12.75	12.15	11.55
				OFF 421	49.6	27.5	12.57	12.75	12.15	11.55
101	2	2	25	ON 446	69.2	57.6	12.65	12.75	12.15	11.55
				OFF 446	71.8	67.4	12.65	12.75	12.15	11.55
102	2	1	42	ON 416	46.8	25.6	12.55	12.75	12.15	11.55
				OFF 428	52.9	29.4	12.59	12.75	12.15	11.55
103	1	1	16	ON 365	26.4	18.1	12.36	12.57	11.97	11.37
				OFF 372	29.2	18.9	12.39	12.61	12.81	11.41
103	1	2	168	ON 481	48.1	22.3	12.58	12.72	12.12	11.52
				OFF 441	62.1	38.9	12.64	12.75	12.15	11.55
104	1	1	119	ON 394	37.4	21.8	12.48	12.78	12.18	11.58
				OFF 432	54.9	38.3	12.61	12.75	12.15	11.55
105	4	1	19	ON 391	35.7	28.3	12.46	12.69	12.89	11.49
				OFF 398	38.8	21.3	12.49	12.71	12.11	11.51
105	4	2	62	ON 413	44.9	23.7	12.54	12.74	12.14	11.54
				OFF 438	54.8	29.2	12.68	12.75	12.15	11.55
111	4	1	5	ON 444	66.5	42.3	12.65	12.75	12.15	11.55
				OFF 445	67.7	45.1	12.65	12.75	12.15	11.55

STELLAR-INDEX SUMMARY

CAMERA DATA ET FILM FILTER GRID ASSEMBLY NO DB3  
 STELLAR 2.8 3481 NONE 101  
 INDEX 1/500 3480 W/21 89

PERFORMANCE SUMMARY

OPN NO	FR	STEL FEET	INDX FEET	H	M	S	θ	ON LAT	ON LONG	θ	OFF LAT	OFF LONG	SEC DUR
PRE-FLT	28	1.98	3.96										
1 4 0	2	8.28	8.48	23	31	28	2	52	151W	2	49	158W	41
5 5 1	8	8.79	1.58	5	25	37	2	67	99E	2	58	112E	163
6 5 1	8	8.79	1.58	6	53	52	2	71	65E	2	63	83E	158
6 5 2	9	8.89	1.78	7	6	22	2	26	185E	2	17	188E	145



7	3	1	6	8.59	1.19	8	29	28	2	52	72E	2	45	76E	182
7	3	2	6	8.59	1.19	8	32	13	2	41	78E	2	34	81E	113
8	3	1	3	8.38	8.59	9	55	14	2	65	35E	2	62	39E	43
8	3	2	7	8.69	1.39	9	59	46	2	49	51E	2	41	55E	138
9	3	8	2	8.28	8.48	11	7	19	1	38	115W	1	41	113W	48
10	4	1	6	8.59	1.19	13	4	2	2	29	14E	2	23	16E	182
11	7	1	7	8.69	1.39	14	38	6	2	12	3W	2	5	2W	189
14	7	1	3	8.38	8.59	19	14	47	3	18	64W	3	22	64W	55
16	6	8	3	8.38	8.59	22	8	39	2	33	122W	2	31	121W	38
17	6	1	3	8.38	8.59	23	17	1	2	75	143E	2	74	159E	65
22	8	1	2	8.28	8.48	6	52	16	2	56	98E	2	54	92E	39
22	8	2	16	1.58	3.17	7	8	9	2	26	184E	2	9	188E	259
23	2	1	2	8.28	8.48	8	24	27	2	46	74E	2	44	75E	37
27	9	1	5	8.58	8.99	14	27	9	2	38	9W	2	24	8W	87
28	3	1	7	8.69	1.39	15	43	43	2	73	88W	2	69	65W	127
30	4	1	3	8.38	8.59	19	7	28	3	15	67W	3	18	66W	49
31	4	1	4	8.48	8.79	20	27	33	2	22	97W	2	17	96W	71
32	4	8	3	8.38	8.59	21	54	6	2	33	123W	2	31	123W	38
37	5	1	14	1.39	2.77	5	9	58	2	74	66E	2	68	186E	292
37	5	2	2	8.28	8.48	5	22	21	2	32	123E	2	38	124E	28
38	5	1	2	8.28	8.48	6	45	36	2	56	88E	2	53	98E	39
38	5	2	11	1.89	2.18	6	51	54	2	32	181E	2	28	184E	182
39	3	1	13	1.29	2.57	8	16	41	2	58	78E	2	36	77E	231
41	5	1	6	8.59	1.19	11	15	25	2	52	24E	2	45	27E	182
43	5	1	6	8.59	1.19	14	22	53	2	28	8W	2	13	7W	93
48	7	8	2	8.28	8.48	21	47	9	2	33	125W	2	31	124W	38
49	1	1	3	8.38	8.59	23	3	38	2	75	139E	2	74	152E	58
49	1	2	6	8.59	1.19	23	6	28	2	78	177E	2	64	168W	124
58	7	1	6	8.59	1.19	8	35	26	2	71	148E	2	67	162E	188
52	8	1	6	8.59	1.19	3	33	58	2	73	95E	2	68	115E	122
54	4	1	2	8.28	8.48	6	38	32	2	56	87E	2	53	89E	48
54	4	2	5	8.58	8.99	6	46	23	2	26	181E	2	21	182E	88
55	5	1	11	1.89	2.18	8	18	1	2	49	69E	2	36	75E	199
56	8	1	18	8.99	1.98	9	37	54	2	55	43E	2	45	49E	165
61	8	1	2	8.28	8.48	17	23	33	3	14	47W	3	17	47W	48
62	8	1	3	8.38	8.59	18	52	58	3	14	78W	3	17	69W	48
65	5	1	7	8.69	1.39	22	59	9	2	78	175E	2	63	169W	132
68	5	1	13	1.29	2.57	3	32	18	2	55	132E	2	42	139E	213
69	7	1	11	1.89	2.18	5	5	48	2	48	118E	2	29	121E	173
71	8	1	14	1.39	2.77	7	59	52	2	58	68E	2	45	78E	224
71	8	2	4	8.48	8.79	8	12	11	2	11	88E	2	7	81E	63
72	4	1	8	8.79	1.58	9	29	56	2	56	48E	2	48	46E	145
74	8	1	7	8.69	1.39	12	38	35	2	28	11E	2	13	12E	99
74	8	2	6	8.59	1.19	12	42	58	2	3	14E	3	2	16E	93
79	9	1	2	8.28	8.48	28	2	28	2	35	185W	2	32	184W	39
84	7	1	18	8.99	1.98	3	23	3	2	68	125E	2	51	133E	155
86	3	1	9	8.89	1.78	6	25	13	2	48	98E	2	39	94E	145
87	1	1	34	3.37	6.73	7	48	23	2	78	38E	2	36	73E	579
93	3	1	3	8.38	8.59	16	44	8	2	73	189W	2	78	97W	67
95	4	1	3	8.38	8.59	19	53	43	2	37	187W	2	34	186W	39
97	4	1	5	8.58	8.99	22	43	57	2	68	178E	2	64	172W	88

188	7	1	6	8.59	1.19	3	18	11	2	48	134E	2	42	137E	96
181	2	1	4	8.48	8.79	4	46	18	2	53	188E	2	49	111E	61
181	2	2	3	8.38	8.59	4	53	33	2	25	128E	2	21	121E	59
182	2	1	7	8.69	1.39	6	16	2	2	52	86E	2	45	98E	181
183	1	1	2	8.28	8.48	7	48	6	2	78	37E	2	68	43E	44
183	1	2	23	2.28	4.55	7	43	41	2	58	58E	2	35	72E	371
184	1	1	18	1.78	3.56	9	12	26	2	61	33E	2	44	46E	284
185	4	1	3	8.38	8.59	18	41	27	2	62	8E	2	68	12E	48
185	4	2	9	8.89	1.78	18	43	53	2	54	17E	2	44	23E	158
111	4	1	1	8.18	8.28	19	46	44	2	31	186W	2	29	186W	25

NOTE - MISSION 1831 IS THE FIRST SYSTEM HAVING THE FIXED-TIME DELAY CIRCUIT ON AFT PAN CAMERA OPERATIONS. THIS CIRCUIT DELAYS THE STARTUP AND SHUTDOWN OF THE AFT PAN CAMERA FOR TWELVE SECONDS AFTER STARTUP AND SHUTDOWN OF THE FWD PAN CAMERA. THIS CIRCUIT, IT IS HOPED, WILL ELIMINATE THE MAJORITY OF THE MONO COVERAGE ENCOUNTERED AT THE BEGINNING AND END OF EACH STEREO OPERATION ON PREVIOUS MISSIONS.

NOTE - T/M DATA INDICATE NORMAL SYSTEM PERFORMANCE

NOTE - OPERATION 111-84-1 ACTUALLY CONSISTED OF TEN FRAMES THE LAST FIVE OF WHICH ARE IN THE B MISSION RECOVERY BUCKET

NOTE - DUE TO THE NECESSITY TO BIAS THE H-TIMER FOR RECOVERY DURING THE REV 111 ██████ ACQUISITION, OPERATION 111-84-1 DOES NOT COVER THE DESIRED LATITUDES.

~~TOP SECRET~~

A. 1831-1

B. DRY

C. PERFORMANCE ESTIMATE PART TWO

## RATE ESTIMATE

FWD PAN CAMERA NUMBER 184

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG VEL	SCAN RATE R/SEC I/SEC	PCT CALIB	RATE REQD
1	4	8	14	7	6 ON 1337	0.3682	0.03107 2.313 55.52	-2.4	0.4
					OFF 41	0.3732	0.03149 2.345 56.27	-2.4	0.5
5	5	1	56	7	6 ON 1084	0.3313	0.02795 2.081 49.95	-2.4	-2.2
					OFF 163	0.3550	0.02995 2.230 53.53	-2.4	-0.6
6	5	1	53	7	6 ON 1001	0.3218	0.02715 2.022 48.52	-2.4	-2.6
					OFF 158	0.3419	0.02885 2.148 51.56	-2.4	-1.7
6	5	2	60	7	6 ON 1752	0.4081	0.03443 2.564 61.53	-2.4	-0.8
					OFF 145	0.4117	0.03474 2.587 62.89	-2.4	-1.8
7	3	1	38	7	6 ON 1352	0.3702	0.03123 2.326 55.02	-2.4	-0.3
					OFF 102	0.3826	0.03229 2.404 57.70	-2.4	-0.1
7	3	2	45	7	6 ON 1525	0.3909	0.03298 2.456 58.94	-2.4	-0.0
					OFF 113	0.4008	0.03382 2.510 60.44	-2.4	-0.4
8	3	1	15	6	7 ON 1024	0.3434	0.02897 2.150 51.78	-2.4	-0.7
					OFF 43	0.3470	0.02928 2.180 52.32	-2.4	-1.1
8	3	2	48	6	7 ON 1296	0.3734	0.03150 2.346 56.30	-2.4	-1.1
					OFF 130	0.3866	0.03262 2.429 58.29	-2.4	-1.4
9	3	0	14	6	7 ON 94	0.2875	0.02426 1.806 43.35	-2.4	7.0
					OFF 48	0.2881	0.02431 1.810 43.45	-2.4	6.6
10	4	1	41	6	7 ON 1601	0.4014	0.03387 2.522 60.53	-2.4	-2.4
					OFF 102	0.4071	0.03435 2.550 61.39	-2.4	-2.7
11	7	1	45	6	7 ON 1070	0.4120	0.03476 2.589 62.12	-2.4	-3.1
					OFF 109	0.4117	0.03474 2.587 62.08	-2.4	-3.0
14	7	1	21	6	7 ON 2348	0.3915	0.03304 2.460 59.04	-2.4	-1.3
					OFF 55	0.3867	0.03263 2.429 58.31	-2.4	-0.9
16	6	0	14	6	7 ON 1549	0.3976	0.03355 2.490 59.96	-2.4	-2.5
					OFF 38	0.4002	0.03377 2.514 60.35	-2.4	-2.6
17	6	1	21	6	7 ON 747	0.3197	0.02698 2.009 48.21	-2.4	-0.4
					OFF 65	0.3248	0.02740 2.041 48.97	-2.4	-0.9
22	8	1	14	6	7 ON 1192	0.3636	0.03068 2.284 54.83	-1.8	-1.9
					OFF 39	0.3677	0.03103 2.311 55.45	-1.8	-1.9
22	8	2	107	6	7 ON 1664	0.4077	0.03440 2.561 61.47	-1.8	-2.3
					OFF 259	0.4146	0.03499 2.605 62.52	-1.8	-2.4
23	2	1	13	6	7 ON 1350	0.3815	0.03219 2.397 57.53	-1.8	-1.8
					OFF 37	0.3850	0.03249 2.419 58.06	-1.8	-1.9
27	9	1	35	6	7 ON 1619	0.4050	0.03417 2.544 61.07	-1.8	-2.2
					OFF 87	0.4096	0.03456 2.574 61.77	-1.8	-2.4
28	3	1	43	6	7 ON 840	0.3292	0.02778 2.069 49.65	-1.8	-0.7
					OFF 127	0.3400	0.02869 2.136 51.27	-1.8	-1.4
30	4	1	19	6	7 ON 2319	0.3964	0.03345 2.490 59.77	-1.8	-0.9
					OFF 49	0.3923	0.03310 2.465 59.15	-1.8	-0.5
31	4	1	29	6	7 ON 1751	0.4117	0.03473 2.586 62.00	-1.8	-2.4
					OFF 71	0.4136	0.03490 2.599 62.37	-1.8	-2.5

32	4	B	15	6	7	ON	1571	0.4816	0.83389	2.524	68.56	-1.8	-2.2
						OFF	38	0.4841	0.83410	2.539	68.94	-1.8	-2.3
37	5	1	100	6	7	ON	852	0.3383	0.82787	2.875	49.88	-1.8	-1.2
						OFF	292	0.3575	0.83016	2.246	53.91	-1.8	-2.3
37	5	2	11	6	7	ON	1683	0.4839	0.83488	2.538	68.91	-1.8	-2.3
						OFF	28	0.4855	0.83422	2.548	61.15	-1.8	-2.4
38	5	1	14	6	7	ON	1226	0.3675	0.83181	2.389	55.43	-1.8	-2.1
						OFF	39	0.3717	0.83137	2.336	56.86	-1.8	-2.2
38	5	2	74	6	7	ON	1684	0.4848	0.83488	2.538	68.91	-1.8	-2.3
						OFF	182	0.4127	0.83482	2.593	62.23	-1.8	-2.6
39	3	1	91	6	7	ON	1320	0.3782	0.83191	2.376	57.83	-1.8	-2.8
						OFF	231	0.3999	0.83374	2.513	68.38	-1.8	-2.3
41	5	1	39	6	7	ON	1299	0.3759	0.83172	2.362	56.69	-1.8	-2.1
						OFF	182	0.3864	0.83261	2.428	58.27	-1.8	-2.1
43	5	1	38	6	7	ON	1885	0.4182	0.83461	2.577	61.86	-2.6	-3.3
						OFF	93	0.4115	0.83472	2.585	62.85	-2.6	-3.3
48	7	0	15	6	7	ON	1683	0.4888	0.83382	2.519	68.45	-2.6	-3.8
						OFF	38	0.4831	0.83481	2.533	68.78	-2.6	-3.1
49	1	1	16	6	7	ON	813	0.3245	0.82738	2.839	48.94	-2.6	-2.2
						OFF	58	0.3285	0.82772	2.864	49.54	-2.6	-2.5
49	1	2	43	6	7	ON	991	0.3399	0.82868	2.135	51.25	-2.6	-2.9
						OFF	124	0.3512	0.82963	2.287	52.96	-2.6	-3.4
50	7	1	34	6	7	ON	958	0.3378	0.82843	2.117	58.81	-2.6	-2.8
						OFF	188	0.3456	0.82916	2.172	52.12	-2.6	-3.3
52	8	1	41	6	7	ON	919	0.3336	0.82815	2.896	58.38	-2.6	-2.7
						OFF	122	0.3441	0.82984	2.162	51.89	-2.6	-3.3
54	4	1	14	6	7	ON	1259	0.3686	0.83118	2.316	55.58	-2.6	-3.8
						OFF	48	0.3727	0.83145	2.342	56.28	-2.6	-3.1
54	4	2	32	6	7	ON	1731	0.4878	0.83441	2.562	61.49	-2.6	-3.2
						OFF	88	0.4183	0.83462	2.578	61.87	-2.6	-3.3
55	5	1	79	6	7	ON	1378	0.3815	0.83219	2.397	57.53	-2.6	-2.9
						OFF	199	0.3988	0.83365	2.586	68.14	-2.6	-3.1
56	8	1	63	6	7	ON	1288	0.3718	0.83138	2.331	55.95	-2.6	-3.8
						OFF	165	0.3879	0.83273	2.437	58.49	-2.6	-3.8
61	8	1	15	6	7	ON	2378	0.3889	0.83282	2.444	58.65	-2.6	-1.9
						OFF	48	0.3854	0.83252	2.422	58.12	-2.6	-1.6
62	8	1	18	6	7	ON	2364	0.3895	0.83287	2.447	58.74	-2.6	-1.9
						OFF	48	0.3853	0.83251	2.421	58.18	-2.6	-1.6
65	5	1	48	6	5	ON	1886	0.3481	0.82937	2.187	52.49	-2.6	-2.1
						OFF	132	0.3788	0.83129	2.338	55.92	-2.6	0.4
68	5	1	88	6	5	ON	1366	0.3996	0.83372	2.511	68.26	-1.7	3.5
						OFF	213	0.4279	0.83618	2.688	64.52	-1.7	5.8
69	7	1	76	6	5	ON	1686	0.4311	0.83638	2.789	65.81	-1.7	5.2
						OFF	173	0.4437	0.83744	2.788	66.91	-1.7	5.2
71	8	1	92	6	5	ON	1314	0.3912	0.83381	2.458	58.99	-1.7	2.8
						OFF	224	0.4232	0.83571	2.659	63.82	-1.7	4.8
71	8	2	27	6	5	ON	2853	0.4435	0.83742	2.787	66.88	-1.7	4.3
						OFF	63	0.4488	0.83713	2.765	66.35	-1.7	4.8
72	4	1	59	6	5	ON	1349	0.3969	0.83349	2.494	59.85	-1.7	3.2
						OFF	145	0.4176	0.83524	2.624	62.97	-1.7	4.5
74	8	1	43	6	5	ON	1929	0.4469	0.83771	2.888	67.39	-1.7	4.8

					OFF	99	0.4447	0.03752	2.794	67.06	-1.7	4.4
74	8	2	48	6	5 ON	2184	0.4344	0.03665	2.729	65.50	-1.7	3.5
					OFF	93	0.4250	0.03586	2.671	64.09	-1.7	2.9
79	9	1	16	6	5 ON	1710	0.4399	0.03712	2.764	66.34	-1.7	5.3
					OFF	39	0.4422	0.03731	2.778	66.68	-1.7	5.2
84	7	1	62	6	5 ON	1314	0.3913	0.03302	2.459	59.71	-1.7	2.6
					OFF	155	0.4144	0.03496	2.604	62.40	-1.7	4.2
86	3	1	62	6	5 ON	1500	0.4200	0.03544	2.639	63.33	-1.7	4.5
					OFF	145	0.4353	0.03673	2.735	65.64	-1.7	5.1
87	1	1	237	6	5 ON	1132	0.3560	0.03010	2.242	53.00	-2.4	-1.6
					OFF	579	0.4366	0.03604	2.743	65.83	-2.4	4.5
93	3	1	23	6	5 ON	1073	0.3471	0.02920	2.101	52.34	-2.4	-2.9
					OFF	67	0.3576	0.03018	2.247	53.93	-2.4	-1.7
95	4	1	16	6	5 ON	1714	0.4370	0.03607	2.746	65.90	-2.4	4.7
					OFF	39	0.4392	0.03706	2.760	66.23	-2.4	4.6
97	4	1	30	6	5 ON	1196	0.3603	0.03100	2.314	55.54	-2.4	-0.3
					OFF	00	0.3817	0.03221	2.390	57.56	-2.4	1.1
100	7	1	41	6	5 ON	1549	0.4219	0.03560	2.651	63.62	-2.4	4.1
					OFF	96	0.4314	0.03640	2.711	65.06	-2.4	4.5
101	2	1	25	6	5 ON	1470	0.4119	0.03476	2.500	62.11	-2.4	3.5
					OFF	61	0.4193	0.03530	2.635	63.24	-2.4	3.9
101	2	2	25	6	5 ON	1905	0.4437	0.03744	2.700	66.91	-2.4	4.2
					OFF	59	0.4433	0.03741	2.700	66.05	-2.4	4.0
102	2	1	42	6	5 ON	1400	0.4143	0.03496	2.603	62.40	-2.4	3.6
					OFF	101	0.4259	0.03593	2.676	64.22	-2.4	4.2
103	1	1	16	6	5 ON	1166	0.3630	0.03063	2.201	54.74	-2.4	-1.3
					OFF	44	0.3702	0.03124	2.326	55.03	-2.4	-0.5
103	1	2	159	6	5 ON	1301	0.3990	0.03367	2.507	60.17	-2.4	2.5
					OFF	371	0.4391	0.03705	2.759	66.22	-2.4	4.5
104	1	1	110	6	5 ON	1339	0.3925	0.03312	2.466	59.19	-2.4	1.9
					OFF	204	0.4294	0.03623	2.690	64.75	-2.4	4.3
105	4	1	19	6	5 ON	1315	0.3000	0.03279	2.442	50.00	-2.4	1.5
					OFF	40	0.3959	0.03340	2.407	59.69	-2.4	2.1
105	4	2	62	6	5 ON	1461	0.4107	0.03466	2.501	61.94	-2.4	3.3
					OFF	150	0.4202	0.03613	2.690	64.57	-2.4	4.2
111	4	1	5	6	5 ON	1005	0.4410	0.03720	2.776	66.62	-2.4	4.0
					OFF	25	0.4425	0.03734	2.700	66.72	-2.4	4.0

RATE ESTIMATE

AFT PAN CAMERA NUMBER 105

OPN NO	FR	R	A	TUR/	INST	INST	SCAN	RATE	PCT	RATE		
				DUR	CPS	ANG VEL	R/SEC	I/SEC	CALIB	REQD		
1	4	0	14	7	6 ON	1349	0.3710	0.03130	2.331	55.94	-1.7	0.0
					OFF	41	0.3700	0.03173	2.363	56.70	-1.7	0.9
5	5	1	57	7	6 ON	1096	0.3330	0.02016	2.097	50.33	-1.7	-1.0
					OFF	163	0.3577	0.03010	2.247	53.94	-1.7	-0.3
6	5	1	53	7	6 ON	1013	0.3242	0.02736	2.037	40.00	-1.7	-2.3
					OFF	150	0.3445	0.02907	2.165	51.95	-1.7	-1.4
6	5	2	60	7	6 ON	1764	0.4112	0.03469	2.503	62.00	-1.7	-0.2
					OFF	145	0.4149	0.03501	2.607	62.56	-1.7	-1.1

7	3	1	38	7	6	ON	1364	0.3738	0.03147	2.344	56.25	-1.7	0.1
						OFF	182	0.3856	0.03253	2.423	58.14	-1.7	0.3
7	3	2	45	7	6	ON	1537	0.3939	0.03323	2.475	59.39	-1.7	0.4
						OFF	113	0.4039	0.03408	2.530	60.90	-1.7	0.1
8	3	1	15	6	7	ON	1036	0.3460	0.02919	2.174	52.18	-1.7	-0.4
						OFF	43	0.3496	0.02950	2.197	52.72	-1.7	-0.7
8	3	2	50	6	7	ON	1308	0.3762	0.03174	2.364	56.73	-1.7	-0.8
						OFF	130	0.3895	0.03287	2.447	58.74	-1.7	-1.0
9	3	0	14	6	7	ON	106	0.2897	0.02444	1.828	43.68	-1.7	7.6
						OFF	48	0.2903	0.02450	1.824	43.70	-1.7	7.1
12	4	1	42	6	7	ON	1613	0.4045	0.03413	2.541	60.99	-1.7	-1.8
						OFF	182	0.4102	0.03461	2.577	61.06	-1.7	-2.0
11	7	1	45	6	7	ON	1882	0.4151	0.03503	2.600	62.60	-1.7	-2.4
						OFF	189	0.4149	0.03500	2.607	62.56	-1.7	-2.1
14	7	1	21	6	7	ON	2360	0.3945	0.03329	2.479	59.49	-1.7	-0.2
						OFF	55	0.3896	0.03287	2.448	58.75	-1.7	0.2
16	6	0	14	6	7	ON	1561	0.4007	0.03381	2.517	60.42	-1.7	-2.0
						OFF	30	0.4032	0.03402	2.534	60.81	-1.7	-2.1
17	6	1	21	6	7	ON	759	0.3222	0.02718	2.024	48.58	-1.7	-0.1
						OFF	65	0.3272	0.02761	2.056	49.35	-1.7	-0.5
22	8	1	14	6	7	ON	1204	0.3650	0.03000	2.293	55.04	-1.5	-1.8
						OFF	39	0.3692	0.03115	2.320	55.67	-1.5	-1.9
22	8	2	100	6	7	ON	1676	0.4093	0.03453	2.572	61.72	-1.5	-2.1
						OFF	259	0.4163	0.03512	2.615	62.77	-1.5	-1.9
23	2	1	13	6	7	ON	1362	0.3830	0.03232	2.407	57.76	-1.5	-1.8
						OFF	37	0.3865	0.03262	2.429	58.29	-1.5	-1.9
27	9	1	35	6	7	ON	1631	0.4066	0.03431	2.555	61.31	-1.5	-2.1
						OFF	87	0.4112	0.03470	2.584	62.01	-1.5	-2.2
28	3	1	43	6	7	ON	852	0.3305	0.02709	2.077	49.04	-1.5	-0.7
						OFF	127	0.3414	0.02800	2.145	51.48	-1.5	-1.4
30	4	1	19	6	7	ON	2331	0.3979	0.03350	2.500	60.01	-1.5	-0.1
						OFF	49	0.3938	0.03323	2.474	59.39	-1.5	0.3
31	4	1	29	6	7	ON	1763	0.4133	0.03407	2.597	62.32	-1.5	-2.2
						OFF	71	0.4153	0.03504	2.609	62.62	-1.5	-2.2
32	4	0	15	6	7	ON	1503	0.4032	0.03402	2.533	60.00	-1.5	-2.0
						OFF	30	0.4057	0.03423	2.549	61.10	-1.5	-2.1
37	5	1	101	6	7	ON	864	0.3316	0.02790	2.003	50.00	-1.5	-1.1
						OFF	292	0.3509	0.03000	2.255	54.12	-1.5	-2.3
37	5	2	11	6	7	ON	1615	0.4055	0.03422	2.548	61.15	-1.5	-2.1
						OFF	28	0.4071	0.03435	2.550	61.39	-1.5	-2.2
38	5	1	14	6	7	ON	1230	0.3690	0.03114	2.310	55.64	-1.5	-2.1
						OFF	39	0.3732	0.03149	2.345	56.20	-1.5	-2.1
38	5	2	75	6	7	ON	1616	0.4055	0.03422	2.548	61.15	-1.5	-2.1
						OFF	182	0.4143	0.03496	2.603	62.40	-1.5	-2.2
39	3	1	92	6	7	ON	1332	0.3797	0.03204	2.306	57.26	-1.5	-2.0
						OFF	231	0.4015	0.03300	2.523	60.54	-1.5	-2.1
41	5	1	39	6	7	ON	1311	0.3774	0.03105	2.371	56.91	-1.5	-2.0
						OFF	102	0.3879	0.03273	2.430	58.50	-1.5	-2.1
43	5	1	30	6	7	ON	1017	0.4153	0.03504	2.609	62.63	-1.4	-2.2
						OFF	93	0.4166	0.03515	2.610	62.82	-1.4	-2.1
48	7	0	16	6	7	ON	1615	0.4050	0.03424	2.550	61.20	-1.4	-2.0

				OFF	38	0.4881	0.03443	2.564	61.54	-1.4	-2.1	
49	1	1	16	6	7 ON	825	0.3286	0.02772	2.064	49.55	-1.4	-1.3
				OFF	50	0.3326	0.02886	2.098	50.15	-1.4	-1.6	
49	1	2	43	6	7 ON	1003	0.3441	0.02983	2.162	51.89	-1.4	-2.8
				OFF	124	0.3556	0.03000	2.234	53.62	-1.4	-2.5	
50	7	1	34	6	7 ON	978	0.3411	0.02878	2.143	51.44	-1.4	-1.9
				OFF	180	0.3499	0.02952	2.198	52.76	-1.4	-2.4	
52	8	1	42	6	7 ON	931	0.3377	0.02850	2.122	50.93	-1.4	-1.8
				OFF	122	0.3484	0.02940	2.189	52.53	-1.4	-2.4	
54	4	1	14	6	7 ON	1271	0.3732	0.03149	2.345	56.27	-1.4	-2.1
				OFF	40	0.3773	0.03184	2.371	56.98	-1.4	-2.2	
54	4	2	33	6	7 ON	1743	0.4128	0.03483	2.594	62.25	-1.4	-2.1
				OFF	80	0.4154	0.03505	2.610	62.63	-1.4	-2.1	
55	5	1	79	6	7 ON	1390	0.3862	0.03259	2.427	58.24	-1.4	-2.8
				OFF	199	0.4038	0.03407	2.537	60.89	-1.4	-2.1	
56	8	1	64	6	7 ON	1292	0.3756	0.03169	2.360	56.64	-1.4	-2.1
				OFF	165	0.3927	0.03313	2.467	59.21	-1.4	-2.0	
61	8	1	15	6	7 ON	2382	0.3938	0.03323	2.474	59.38	-1.4	-0.3
				OFF	40	0.3902	0.03292	2.452	58.84	-1.4	-0.0	
62	8	1	18	6	7 ON	2376	0.3944	0.03327	2.470	59.47	-1.4	-0.3
				OFF	40	0.3900	0.03291	2.451	58.82	-1.4	0.0	
65	5	1	48	6	5 ON	1098	0.3524	0.02974	2.214	53.14	-1.4	-1.2
				OFF	132	0.3754	0.03168	2.359	56.61	-1.4	1.2	
68	5	1	89	6	5 ON	1378	0.3998	0.03373	2.512	60.28	-1.6	3.2
				OFF	213	0.4281	0.03612	2.690	64.55	-1.6	4.8	
69	7	1	76	6	5 ON	1618	0.4313	0.03639	2.710	65.04	-1.6	5.0
				OFF	173	0.4439	0.03746	2.789	66.94	-1.6	5.1	
71	8	1	92	6	5 ON	1326	0.3914	0.03302	2.459	59.01	-1.6	2.5
				OFF	224	0.4234	0.03573	2.660	63.05	-1.6	4.6	
71	8	2	27	6	5 ON	2065	0.4437	0.03744	2.700	66.91	-1.6	4.4
				OFF	63	0.4402	0.03714	2.766	66.38	-1.6	4.1	
72	4	1	59	6	5 ON	1361	0.3970	0.03350	2.495	59.07	-1.6	3.0
				OFF	145	0.4178	0.03525	2.625	63.00	-1.6	4.3	
74	8	1	43	6	5 ON	1941	0.4471	0.03772	2.809	67.41	-1.6	4.8
				OFF	99	0.4449	0.03754	2.795	67.09	-1.6	4.5	
74	8	2	40	6	5 ON	2196	0.4345	0.03667	2.730	65.53	-1.6	3.7
				OFF	93	0.4252	0.03500	2.672	64.12	-1.6	3.2	
79	9	1	16	6	5 ON	1722	0.4401	0.03714	2.765	66.37	-1.6	5.1
				OFF	39	0.4424	0.03733	2.779	66.71	-1.6	5.1	
84	7	1	62	6	5 ON	1326	0.3915	0.03303	2.460	59.03	-1.6	2.3
				OFF	155	0.4145	0.03498	2.605	62.51	-1.6	4.0	
86	3	1	62	6	5 ON	1520	0.4202	0.03545	2.640	63.36	-1.6	4.3
				OFF	145	0.4354	0.03674	2.736	65.66	-1.6	4.9	
87	1	1	238	6	5 ON	1144	0.3571	0.03013	2.244	53.05	-2.3	-1.9
				OFF	579	0.4370	0.03687	2.746	65.90	-2.3	4.4	
93	3	1	23	6	5 ON	1085	0.3474	0.02931	2.183	52.39	-2.3	-3.1
				OFF	67	0.3500	0.03020	2.249	53.98	-2.3	-2.0	
95	4	1	16	6	5 ON	1726	0.4374	0.03691	2.748	65.96	-2.3	4.6
				OFF	39	0.4396	0.03710	2.762	66.30	-2.3	4.6	
97	4	1	30	6	5 ON	1200	0.3687	0.03111	2.316	55.59	-2.3	-0.6
				OFF	80	0.3821	0.03224	2.401	57.61	-2.3	0.0	

100	7	1	41	6	5	ON	1561	0.4223	0.03563	2.653	63.68	-2.3	4.8
						OFF	96	0.4318	0.03644	2.713	65.12	-2.3	4.3
101	2	1	25	6	5	ON	1482	0.4123	0.03479	2.591	62.17	-2.3	3.3
						OFF	61	0.4198	0.03542	2.637	63.30	-2.3	3.7
101	2	2	25	6	5	ON	1917	0.4441	0.03748	2.791	66.97	-2.3	4.2
						OFF	59	0.4438	0.03744	2.788	66.92	-2.3	4.0
102	2	1	42	6	5	ON	1580	0.4147	0.03499	2.686	62.54	-2.3	3.5
						OFF	101	0.4263	0.03597	2.678	64.28	-2.3	4.1
103	1	1	16	6	5	ON	1178	0.3633	0.03066	2.283	54.79	-2.3	-1.5
						OFF	44	0.3706	0.03127	2.328	55.00	-2.3	-0.7
103	1	2	160	6	5	ON	1393	0.3994	0.03370	2.518	60.23	-2.3	2.3
						OFF	371	0.4396	0.03709	2.762	66.20	-2.3	4.4
104	1	1	119	6	5	ON	1351	0.3929	0.03315	2.469	59.25	-2.3	1.7
						OFF	284	0.4298	0.03626	2.700	64.01	-2.3	4.1
105	4	1	19	6	5	ON	1327	0.3890	0.03282	2.444	58.65	-2.3	1.2
						OFF	48	0.3962	0.03343	2.490	59.75	-2.3	1.9
105	4	2	62	6	5	ON	1473	0.4111	0.03469	2.583	62.00	-2.3	3.1
						OFF	150	0.4206	0.03616	2.693	64.63	-2.3	4.1
111	4	1	5	6	5	ON	1817	0.4422	0.03731	2.770	66.68	-2.3	4.0
						OFF	25	0.4429	0.03737	2.783	66.79	-2.3	4.0

RAMP PROFILE

R= 7 A= 6 PERIOD= 3825

R= 0.3404 A= 0.0016

TUR	PER	CPS	ANG V
-0	3.864	0.2588	0.02341
100	3.851	0.2596	0.02348
200	3.815	0.2621	0.02371
300	3.756	0.2663	0.02400
400	3.678	0.2719	0.02459
500	3.584	0.2790	0.02523
600	3.481	0.2873	0.02599
700	3.370	0.2967	0.02684
800	3.257	0.3071	0.02777
900	3.144	0.3181	0.02877
1000	3.035	0.3295	0.02981
1100	2.928	0.3415	0.03089
1200	2.801	0.3570	0.03229
1300	2.689	0.3719	0.03364
1400	2.593	0.3857	0.03489
1500	2.514	0.3978	0.03598
1600	2.452	0.4078	0.03688
1700	2.400	0.4153	0.03756
1800	2.380	0.4201	0.03800
1900	2.370	0.4220	0.03817
2000	2.376	0.4209	0.03806
2100	2.399	0.4168	0.03770
2200	2.439	0.4099	0.03708
2300	2.497	0.4005	0.03622
2400	2.571	0.3889	0.03517

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2500	2.663	0.3755	0.03396
2600	2.771	0.3600	0.03264
2700	2.895	0.3454	0.03124
2800	3.008	0.3325	0.03007
2900	3.116	0.3209	0.02902
3000	3.228	0.3098	0.02802
3100	3.342	0.2992	0.02706
3200	3.453	0.2896	0.02619
3300	3.559	0.2810	0.02541
3400	3.656	0.2736	0.02474
3500	3.738	0.2675	0.02420
3600	3.802	0.2630	0.02379
3700	3.844	0.2601	0.02353
3800	3.863	0.2589	0.02341

RAMP PROFILE

R= 6 A= 7 PERIOD= 3825

R= 0.3582 A= 0.0642

TUR	PER	CPS	ANG V
00	3.401	0.2940	0.02659
100	3.394	0.2947	0.02665
200	3.371	0.2966	0.02683
300	3.335	0.2999	0.02712
400	3.286	0.3043	0.02752
500	3.227	0.3099	0.02803
600	3.160	0.3164	0.02862
700	3.088	0.3238	0.02929
800	3.012	0.3320	0.03002
900	2.936	0.3406	0.03081
1000	2.860	0.3497	0.03162
1100	2.785	0.3591	0.03248
1200	2.693	0.3713	0.03358
1300	2.611	0.3830	0.03464
1400	2.539	0.3938	0.03562
1500	2.479	0.4034	0.03648
1600	2.432	0.4112	0.03719
1700	2.397	0.4171	0.03773
1800	2.376	0.4209	0.03807
1900	2.360	0.4224	0.03820
2000	2.372	0.4215	0.03812
2100	2.391	0.4183	0.03783
2200	2.422	0.4129	0.03734
2300	2.466	0.4055	0.03668
2400	2.523	0.3964	0.03585
2500	2.592	0.3858	0.03490
2600	2.672	0.3743	0.03385
2700	2.761	0.3622	0.03275
2800	2.841	0.3519	0.03183
2900	2.917	0.3429	0.03101
3000	2.993	0.3341	0.03022

3100	3.869	0.3258	0.82947
3200	3.143	0.3182	0.82878
3300	3.211	0.3114	0.82817
3400	3.272	0.3056	0.82764
3500	3.324	0.3009	0.82721
3600	3.363	0.2973	0.82689
3700	3.389	0.2950	0.82668
3800	3.401	0.2940	0.82659

RAMP PROFILE

R= 6 A= 5 PERIOD= 3825

R= 0.3582 A= 0.0963

TUR	PER	CPS	ANG V
-0	3.818	0.2619	0.82369
100	3.804	0.2629	0.82378
200	3.761	0.2659	0.82404
300	3.694	0.2787	0.82448
400	3.605	0.2774	0.82509
500	3.580	0.2857	0.82584
600	3.384	0.2955	0.82673
700	3.261	0.3067	0.82774
800	3.136	0.3189	0.82884
900	3.013	0.3318	0.83001
1000	2.895	0.3454	0.83124
1100	2.782	0.3595	0.83252
1200	2.647	0.3778	0.83417
1300	2.529	0.3954	0.83576
1400	2.429	0.4117	0.83723
1500	2.348	0.4259	0.83852
1600	2.284	0.4377	0.83959
1700	2.239	0.4466	0.84039
1800	2.211	0.4523	0.84091
1900	2.200	0.4545	0.84110
2000	2.207	0.4531	0.84099
2100	2.230	0.4483	0.84055
2200	2.271	0.4402	0.83982
2300	2.330	0.4291	0.83881
2400	2.407	0.4154	0.83757
2500	2.502	0.3996	0.83615
2600	2.616	0.3823	0.83458
2700	2.746	0.3641	0.83293
2800	2.867	0.3488	0.83155
2900	2.983	0.3352	0.83032
3000	3.105	0.3220	0.82913
3100	3.230	0.3096	0.82800
3200	3.353	0.2982	0.82697
3300	3.472	0.2880	0.82605
3400	3.580	0.2793	0.82526
3500	3.674	0.2722	0.82462
3600	3.747	0.2669	0.82414

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5700 3.796 0.2635 0.02383  
 3000 3.817 0.2620 0.02369

CLOCK SUMMARY

ORDER FIT 1

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.400996780 05	0.1202145860 06	0.4009967950 05	-0.0015	9	
0.793107980 05	0.1594256830 06	0.7931079310 05	0.0049	16	
0.397472690 05	0.2062621250 06	0.3974725490 05	0.0051	25	
0.789338860 05	0.2454487430 06	0.7893388950 05	-0.0035	32	
0.393443780 05	0.2922592210 06	0.3934438730 05	-0.0093	41	
0.785317280 05	0.3314465440 06	0.7853172680 05	0.0012	48	
0.389324680 05	0.3782472710 06	0.3893247360 05	-0.0056	57	
0.781445780 05	0.4174593500 06	0.7814456920 05	0.0008	64	
A0=-0.00114957300 05 A1= 0.1000000422830 01					
SIGMA=0.00530 NO. POINTS= 8					
RATIO OF CLOCK TIME TO SYS TIME= 0.999995771710 00					

ORDER FIT 1

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.384801480 05	0.4642276780 06	0.3848015260 05	-0.0046	73	
0.721987430 05	0.4979462500 06	0.7219874510 05	-0.0021	79	
0.380225120 05	0.1329908300 05	0.3802250940 05	0.0026	89	
0.717120830 05	0.4698863600 05	0.7171207490 05	0.0001	95	
0.375371230 05	0.9921365600 05	0.3753711430 05	0.0007	105	
0.712547980 05	0.1329313400 06	0.7125481000 05	-0.0120	111	
A0=-0.42574768940 06 A1= 0.1000000370530 01					
SIGMA=0.00693 NO. POINTS= 6					
RATIO OF CLOCK TIME TO SYS TIME= 0.999996294690 00					

ORDER FIT 2

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.400996780 05	0.1202145860 06	0.4009968330 05	-0.0053	9	
0.793107980 05	0.1594256830 06	0.7931079380 05	0.0042	16	
0.397472690 05	0.2062621250 06	0.3974725320 05	0.0068	25	
0.789338860 05	0.2454487430 06	0.7893388670 05	-0.0007	32	
0.393443780 05	0.2922592210 06	0.3934438450 05	-0.0065	41	
0.785317280 05	0.3314465440 06	0.7853172510 05	0.0029	48	
0.389324680 05	0.3782472710 06	0.3893247430 05	-0.0063	57	
0.781445780 05	0.4174593500 06	0.7814457300 05	0.0050	64	
A0=-0.00114938120 05 A1= 0.1000000258230 01					
A2= 0.30613204827550-12					
SIGMA=0.00482 NO. POINTS= 8					

ORDER FIT 2

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.384801480 05	0.4642276780 06	0.3848014510 05	0.0029	73	
0.721987430 05	0.4979462500 06	0.7219874570 05	-0.0027	79	
0.380225120 05	0.1329908300 05	0.3802251630 05	-0.0043	89	
0.717120830 05	0.4698863600 05	0.7171208180 05	0.0012	95	

TOP SECRET

0.37537123D 05 8.992136560D 05 0.375371149D 05 0.0081 105  
 0.71254798D 05 0.132931340D 06 0.712548033D 05 -0.0053 111  
 A8=-0.4257481388D 06 A1= 0.100000195293D 01  
 A2=-0.1395380127566D-11  
 SIGMA=0.00438 NO. POINTS= 6

CLOCK OPERATIONS

FWD PAN CAMERA NUMBER 184

OPN NO	FR		H	M	S	DEC	BINARY
1 4 0	14	ON	23	31	28	78403	001001010110001010101101110000
		OFF	23	32	9	78444	001001010110011110101111000000
5 5 1	56	ON	5	25	37	99652	001011111000010010001101000000
		OFF	5	28	20	99815	001011111001100001110010110000
6 5 1	53	ON	6	53	52	104947	001100100000101011101001110000
		OFF	6	56	30	105105	00110010000111100011001101010000
6 5 2	60	ON	7	6	22	105697	00110010011001100111011101010000
		OFF	7	8	47	105842	001100100111100000101010100000
7 3 1	38	ON	8	29	20	110675	001101001100011000100001110000
		OFF	8	31	2	110777	00110100110100101001010101010000
7 3 2	45	ON	8	32	13	110848	00110100110110110110100000000000
		OFF	8	34	6	110961	00110100111010010000101101010000
8 3 1	15	ON	9	55	14	115820	001101110011101100101001000000
		OFF	9	55	57	115071	001101110100000001101000110000
8 3 2	48	ON	9	59	46	116101	001101110101110001111100001000
		OFF	10	1	56	116231	00110111011011000101101011010000
9 3 0	14	ON	11	7	19	120154	001110010100101100111100100000
		OFF	11	8	7	120202	001110010101000100011000100000
10 4 1	41	ON	13	4	2	127157	001111001010001000011000010000
		OFF	13	5	44	127259	001111001010111010001011110000
11 7 1	45	ON	14	38	6	132801	00111111010100110000111101010000
		OFF	14	39	55	132910	001111110110000001011101100000
14 7 1	21	ON	19	14	47	149402	010001110011110110001100100000
		OFF	19	15	42	149457	010001110100010001000011010000
16 6 0	14	ON	22	0	39	159353	010010111111110001000101010000
		OFF	22	1	17	159391	010011000000000011101000110000
17 6 1	21	ON	23	17	1	163936	010011100010101110111000000000
		OFF	23	18	6	164001	010011100011001110100111010000
22 8 1	14	ON	6	52	16	191251	010110110011001000010001110000
		OFF	6	52	55	191290	010110110011011011010100100000
22 8 2	107	ON	7	0	9	191723	010110110110101110101111110000
		OFF	7	4	28	191982	010110111000101101001101100000
23 2 1	13	ON	8	24	27	196782	010111011101010100111101100000
		OFF	8	25	4	196819	010111011101100111000001110000
27 9 1	35	ON	14	27	9	218543	011010000011010110011100110000
		OFF	14	28	36	218630	011010000100000000111011100000
28 3 1	43	ON	15	43	43	223137	011010100110011001100111010000
		OFF	15	45	50	223264	011010100111010111101000000000
30 4 1	19	ON	19	7	28	235363	011100000011101011010101110000
		OFF	19	8	17	235412	011100000100000011010001000000
31 4 1	29	ON	20	27	33	240167	011100101000010101000010110000

		OFF	28	28	44	248238	81110010100011011110110110000		
32	4	8	15	ON	21	54	6	245361	8111010011111111010010101000
		OFF	21	54	44	245399	81110101000000111110111011000		
37	5	1	100	ON	5	9	58	271584	10000001011101101001010000000
		OFF	5	14	42	271796	10000001100110100011100100000		
37	5	2	11	ON	5	22	21	272256	100000011010010011000000000
		OFF	5	22	49	272284	1000000110101011100101100000		
38	5	1	14	ON	6	45	36	277251	10000100001101000001110111000
		OFF	6	46	15	277298	10000100001110001110000010000		
38	5	2	74	ON	6	51	54	277629	10000100011000100100001001000
		OFF	6	54	56	277811	1000010001111000011100111000		
39	3	1	91	ON	8	16	41	282716	10000110110011110011101100000
		OFF	8	20	32	282947	10000110111010110110110111000		
41	5	1	39	ON	11	15	25	293448	10001011111011000101000000000
		OFF	11	17	7	293542	1000101111110001100001110000		
43	5	1	38	ON	14	22	53	304688	10010001010010010101110000000
		OFF	14	24	26	304781	100100010101010001011011001000		
48	7	0	15	ON	21	47	9	331343	10011101111111110010010011000
		OFF	21	47	47	331381	10011110000000111100100001000		
49	1	1	16	ON	23	3	38	335925	10100000001011100111100001000
		OFF	23	4	28	335975	10100000001101001001001011000		
49	1	2	43	ON	23	6	28	336183	10100000010001000011001011000
		OFF	23	8	32	336227	10100000010100110101010111000		
52	7	1	34	ON	8	35	26	341448	10100010110011111011000000000
		OFF	8	37	6	341548	101000101101101111110010100000		
52	8	1	41	ON	3	33	58	352144	10100111111010100101010000000
		OFF	3	35	52	352266	1010011111110010011100010000		
54	4	1	14	ON	6	38	32	363226	10101101001100110001110010000
		OFF	6	39	12	363266	10101101001101111111111010000		
54	4	2	32	ON	6	46	23	363698	10101101011011001011101010000
		OFF	6	47	43	363778	10101101011101100111111010000		
55	5	1	79	ON	8	12	1	368715	10101111110100010010011111000
		OFF	8	13	20	368914	10101111111010010111001010000		
56	8	1	63	ON	9	37	54	373989	10110010010101001111010001000
		OFF	9	40	39	374154	10110010011010010001100010000		
61	8	1	15	ON	17	23	33	401928	10111111101001110111101000000
		OFF	17	24	13	401968	10111111101011000101110000000		
62	8	1	18	ON	18	52	58	407293	11000010001101100110001001000
		OFF	18	53	46	407341	11000010001111000011111001000		
65	5	1	48	ON	22	59	9	422064	11001001010000010111110000000
		OFF	23	1	21	422196	11001001010100011001100100000		
68	5	1	83	ON	3	32	18	438452	11010001000100011111100100000
		OFF	3	35	51	438665	11010001001010111111100101000		
69	7	1	76	ON	5	5	48	444062	11010011101111101100100110000
		OFF	5	8	41	444235	11010011110100111110011111000		
71	8	1	92	ON	7	59	52	454586	110110001011100110110000010000
		OFF	8	3	36	454738	11011000110101010000100010000		
71	8	2	27	ON	8	12	11	455246	11011001000101000000010110000
		OFF	8	13	14	455389	11011001000110111011011001000		
72	4	1	59	ON	9	29	56	459911	1101101101001010111101011000
		OFF	9	32	21	460056	11011011010111110010111000000		

74	8	1	43	ON	12	38	35	471262	11100000101101110001100110000
				OFF	12	40	14	471361	11100000110000110010111101000
74	8	2	40	ON	12	42	50	471517	11100000110101100011101001000
				OFF	12	44	23	471610	11100000111000011001010010000
79	9	1	16	ON	20	2	20	497807	11101101011010010011100011000
				OFF	20	2	59	497926	11101101011011011111101110000
84	7	1	62	ON	3	23	3	524331	11111010000001010011111111000
				OFF	3	25	38	524406	11111010000110000010101110000
86	3	1	62	ON	6	25	13	535261	11111110011101101111101001000
				OFF	6	27	38	535406	11111110100110100101101100000
87	1	1	237	ON	7	48	23	3380	00000001100111001001100100000
				OFF	7	50	2	3959	00000001111000110100011011000
93	3	1	23	ON	16	44	8	35525	00010000111100001000110001000
				OFF	16	45	15	35592	00010000111110001011101000000
95	4	1	16	ON	19	53	43	46099	00010110010111001111100111000
				OFF	19	54	22	46938	00010110011000011011110010000
97	4	1	30	ON	22	43	57	57114	00010110011101111110110010000
				OFF	22	45	17	57194	0001011010001011111000010000
100	7	1	41	ON	3	18	11	73568	00100011000101000111100000000
				OFF	3	19	47	73664	00100011001000000011000000000
101	2	1	25	ON	4	46	18	78054	00100101100110011011101110000
				OFF	4	47	19	78915	00100101101000010010110111000
101	2	2	25	ON	4	53	33	79209	00100101110011101101010101000
				OFF	4	54	32	79348	00100101110101100000100100000
102	2	1	42	ON	6	16	2	84239	00101000001010110001010011000
				OFF	6	17	43	84340	00101000001101110110100100000
103	1	1	16	ON	7	40	6	89203	001010101001100101100110111000
				OFF	7	40	50	89327	00101010100110000010110011000
103	1	2	159	ON	7	43	41	89497	001010101010110011100110101000
				OFF	7	49	52	89860	00101010110110100011011100000
104	1	1	119	ON	9	12	26	94822	00101101001101101111001110000
				OFF	9	17	10	95106	00101101010110011001111010000
105	4	1	19	ON	10	41	27	100164	00101111110000110000110100000
				OFF	10	42	15	100212	00101111110010001110100100000
105	4	2	62	ON	10	43	53	100310	00101111110101001101111110000
				OFF	10	46	23	100460	00101111111001110010111100000
111	4	1	5	ON	19	46	44	132800	00111111010111001011010000000
				OFF	19	47	9	132905	001111110101111111000000101000

CLOCK OPERATIONS

AFT PAN CAMERA NUMBER 185

OPN NO	FR		H	M	S	DEC	BINARY		
1	4	0	14	ON	23	31	40	78415	00100101011001000010010011000
				OFF	23	32	21	78456	00100101011010010010011000000
5	5	1	57	ON	5	25	49	99664	00101111100001100000010000000
				OFF	5	28	32	99827	00101111100110011110100111000
6	5	1	53	ON	6	54	4	104959	00110010000011000110000011000
				OFF	6	56	42	105117	001100100001111111101010011000
6	5	2	60	ON	7	6	34	105709	00110010011001111110111001000
				OFF	7	8	59	105854	00110010011110011010000110000

**TAN OPER**

7	3	1	38	ON	8	29	32	118687	00110100110001111001100011000
				OFF	8	31	14	110789	00110100110101000000110001000
7	3	2	45	ON	8	32	25	118860	0011010011011100101011100000
				OFF	8	34	18	110973	00110100111010101000001001000
8	3	1	15	ON	9	55	26	115841	0011011100111100101111101000
				OFF	9	56	9	115884	0011011101000001111111100000
8	3	2	50	ON	9	59	58	116113	00110111010111011111001101000
				OFF	10	2	8	116243	00110111011011011101000111000
9	3	0	14	ON	11	7	31	120166	00111001010011001011001110000
				OFF	11	8	19	120214	00111001010100101000111110000
10	4	1	42	ON	13	4	14	127169	00111100101000111000111101000
				OFF	13	5	56	127271	0011110010110000000001011000
11	7	1	45	ON	14	38	18	132813	00111111010101001000011001000
				OFF	14	40	7	132922	00111111011000011101010010000
14	7	1	21	ON	19	14	59	149414	01000111001111110000001110000
				OFF	19	15	54	149469	0100011101000101101101001000
16	6	0	14	ON	22	0	51	159366	01001011111111011101101110000
				OFF	22	1	29	159404	01001100000000100111111100000
17	6	1	21	ON	23	17	13	163948	01001110001011010010111100000
				OFF	23	18	18	164013	01001110001101010001111001000
22	8	1	14	ON	6	52	28	191263	01011011001100111000100011000
				OFF	6	53	7	191302	01011011001110000100101110000
22	8	2	108	ON	7	0	21	191736	01011011011011010100011000000
				OFF	7	4	40	191995	01011011100011001110001111000
23	2	1	13	ON	8	24	39	196794	010110111010110101101001000
				OFF	8	25	16	196831	0101101110110110011100011000
27	9	1	35	ON	14	27	21	218556	01101000001101110011001100000
				OFF	14	28	48	218643	0110100001000001101000111000
28	3	1	43	ON	15	43	55	223150	0110101001100111111110110000
				OFF	15	46	2	223277	01101010011101110111111001000
30	4	1	19	ON	19	7	40	235375	01110000001111000100110011000
				OFF	19	8	29	235424	01110000010000100100100000000
31	4	1	29	ON	20	27	45	240100	01110010100001101101100100000
				OFF	20	28	56	240251	011100101000011111000001111000
32	4	0	15	ON	21	54	18	245373	01110101000000001100001001000
				OFF	21	54	56	245411	01110101000001010110010111000
37	5	1	101	ON	5	10	2	271517	10000001011110000010101001000
				OFF	5	14	54	271809	10000001100110111100111101000
37	5	2	11	ON	5	22	33	272268	10000001110100111101011100000
				OFF	5	23	1	272296	10000001110101110100001000000
38	5	1	14	ON	6	45	48	277263	100001000011010110101010011000
				OFF	6	46	27	277302	10000100001110100101011110000
38	5	2	75	ON	6	52	6	277641	10000100011000111011100101000
				OFF	6	55	8	277823	10000100011110011111000011000
39	3	1	92	ON	8	16	53	282728	1000011011010000111001000000
				OFF	8	20	44	282959	10000110111011001110010011000
41	5	1	39	ON	11	15	37	293452	1000101111011011100011100000
				OFF	11	17	19	293554	1000101111110100011101010000
43	5	1	33	ON	14	23	5	304700	10010001010010101101001100000
				OFF	14	24	38	304793	10010001010101100010110101000
48	7	0	16	ON	21	47	21	331356	10011110000000001011101100000

		OFF	21	47	59	331394	10011110000001010101111010000		
49	1	1	16	ON	23	3	42	335937	1010000000101111110111101000
		OFF	23	4	32	335987	10100000001101100000100111000		
49	1	2	43	ON	23	6	48	336115	10100000010001011010100111000
		OFF	23	8	44	336239	10100000010101001100110011000		
50	7	1	34	ON	0	35	38	341453	10100010110100010100011001000
		OFF	0	37	18	341553	10100010110111010111101101000		
52	8	1	42	ON	3	34	2	352157	1010011111101011110101001000
		OFF	3	36	4	352279	10100111111110101100111011000		
54	4	1	14	ON	6	38	44	363239	10101101001101001011001011000
		OFF	6	39	24	363279	10101101001110011001010011000		
54	4	2	33	ON	6	46	35	363710	10101101011011100011000110000
		OFF	6	47	55	363790	101011010110111111111010110000		
55	5	1	79	ON	8	10	13	368720	10101111110100101011111000000
		OFF	8	13	32	368927	10101111111010110000100011000		
56	8	1	64	ON	9	38	6	374001	10110010010101100110101101000
		OFF	9	40	51	374166	10110010011010101000111110000		
61	8	1	15	ON	17	23	45	401940	10111111101010001111000100000
		OFF	17	24	25	401900	10111111101011011101001100000		
62	8	1	18	ON	18	53	10	407305	11000010001101111101100101000
		OFF	18	53	58	407353	1100001000111011011010101000		
65	5	1	48	ON	22	59	21	422076	11001001010000101111001100000
		OFF	23	1	33	422200	11001001010100110001000000000		
68	5	1	89	ON	3	32	30	430465	1101000100010011100011101000
		OFF	3	36	3	430670	11010001001011011000111110000		
69	7	1	76	ON	5	6	0	444075	11010011110000000101111111000
		OFF	5	8	53	444240	1101001111010101011111000000		
71	8	1	92	ON	8	0	4	454519	1101100010111011010001011000
		OFF	8	3	48	454743	11011000110101101001111011000		
71	8	2	27	ON	8	12	23	455250	1101100100010101011110010000
		OFF	8	13	26	455321	11011001000111010010110101000		
72	4	1	59	ON	9	30	8	459923	11011011010011101111000111000
		OFF	9	32	33	460060	11011011011000001010010100000		
74	8	1	43	ON	12	30	47	471275	11100000101110001010111111000
		OFF	12	40	26	471374	11100000100010011000101100000		
74	8	2	40	ON	12	43	2	471530	11100000110101111101000010000
		OFF	12	44	35	471623	11100000111000110010101011000		
79	9	1	16	ON	20	2	32	497099	11101101011010101010111111000
		OFF	20	3	11	497930	11101101011011110111001010000		
84	7	1	62	ON	3	23	15	524343	11111010000001101011011011000
		OFF	3	25	50	524490	11111010000110011010001010000		
86	3	1	62	ON	6	25	25	535273	11111110011110011110001010000
		OFF	6	27	50	535410	11111110100111010100100100000		
87	1	1	230	ON	7	48	35	3392	00000001100111100001000000000
		OFF	7	50	14	3971	0000000111001001011110111000		
93	3	1	23	ON	16	44	20	35537	00010000111100100000001101000
		OFF	16	45	27	35604	00010000111101000110001000000		
95	4	1	16	ON	19	53	55	46912	00010100101111010010000000000
		OFF	19	54	34	46951	0001010011000110101001011000		
97	4	1	30	ON	22	44	9	57126	00011011001111010110001110000
		OFF	22	45	29	57206	00011011010001110010011110000		

SEARCH



100	7	1	41	ON	3	18	23	73580	00100011000101011110111100000
				OFF	3	19	59	73676	00100011001000011010011100000
181	2	1	25	ON	4	46	30	78867	00100101100110110101000111000
				OFF	4	47	31	78928	00100101101000101100010000000
181	2	2	25	ON	4	53	45	79382	00100101110100000110101110000
				OFF	4	54	44	79361	00100101110101111001111101000
182	2	1	42	ON	6	16	14	84251	001010000001011001000101111000
				OFF	6	17	55	84352	00101000000111000111000000000
183	1	1	16	ON	7	40	10	89295	001010101001010001000100011000
				OFF	7	41	2	89339	00101010100110011010001111000
183	1	2	160	ON	7	43	53	89509	00101010101011100110010001000
				OFF	7	50	4	89880	00101010110110111010111000000
184	1	1	119	ON	9	12	38	94834	001011010011110000110101010000
				OFF	9	17	22	95118	00101101010110110001010110000
185	4	1	19	ON	10	41	39	100176	00101111110001001000010000000
				OFF	10	42	27	100224	00101111110010100110000000000
185	4	2	62	ON	10	44	5	100322	00101111110101100101011010000
				OFF	10	46	35	100472	00101111111010001010011000000
111	4	1	5	ON	19	46	56	132892	00111111010111100010101100000
				OFF	19	47	21	132917	00111111011000010011100001000

NOTE - MISSION 1831 IS THE FIRST SYSTEM HAVING THE FIXED-TIME DELAY CIRCUIT ON AFT PAN CAMERA OPERATIONS. THIS CIRCUIT DELAYS THE STARTUP AND SHUTDOWN OF THE AFT PAN CAMERA FOR TWELVE SECONDS AFTER STARTUP AND SHUTDOWN OF THE FWD PAN CAMERA. THIS CIRCUIT, IT IS HOPED, WILL ELIMINATE THE MAJORITY OF THE MONO COVERAGE ENCOUNTERED AT THE BEGINNING AND END OF EACH STEREO OPERATION ON PREVIOUS MISSIONS. FOR THIS REASON A CLOCK OPERATIONS SUMMARY FOR BOTH THE FWD AND AFT PAN CAMERAS IS BEING INCLUDED IN THIS REPORT.

NOTE - T/M DATA INDICATES NORMAL SYSTEM PERFORMANCE WITH THE EXCEPTION OF THE CLOCK PROBLEM NOTED BELOW.

NOTE - TELEMETRY DATA INDICATES THE CLOCK OUTPUT INCREASED APPROXIMATELY 32.75 SECONDS BETWEEN THE ACQUISITIONS ON REV 64 AND REV 73. IT IS ASSUMED THE CLOCK OUTPUT WAS INCREMENTED BY A VALUE EQUAL TO THE 16TH BIT (32.768). CLOCK ACCURACY DOES NOT APPEAR TO BE AFFECTED BY THIS DISCONTINUITY BUT THE CLOCK SUMMARY DATA IS PRESENTED IN TWO SECTIONS DUE TO THE DISCONTINUITY.

NOTE - OPERATION 111-04-1 ACTUALLY CONSISTED OF TEN FRAMES THE LAST FIVE OF WHICH ARE IN THE B MISSION RECOVERY BUCKET

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