



CORONA J FLIGHT
DATA BOOK
1042-1

9717-8 Gen

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12 PAGES
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CORONA J FLIGHT DATA BOOK

SYSTEM NO. J-37

VEHICLE NO. 1633

MISSION NO. 1042-1

CAMERA NOS. 204/205

DATE 06-22-67

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SYSTEM NO. J-37
VEHICLE NO. 1633
MISSION NO. 1042-1
CAMERA NOS. 204/205

GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 204

SLAVE CAMERA SERIAL NO. 205

S/I -1 SERIAL NO. D97/120/117

S/I -2 SERIAL NO. D98/121/118

LAUNCH DATE 06-16-67

LAUNCH TIME 21-35-22 GMT

REACTIVATION DATE N/A

REACTIVATION ORBIT NO. N/A

ORBIAL PARAMETERS (REV. 45)

PERIOD 89.944 MIN.

ECCENTRICITY 0.01452

PERIGEE 96.546 NM

PERIGEE LAT. 29.136 DEG. N

APOGEE 200.778 NM

INCL. ANGLE 80.011 DEG.

RECOVERY ORBIT NO. 97

RECOVERY DATE 06-22-67

SYSTEM NO. J-37
VEHICLE NO. 1633
MISSION NO. 1042-1
CAMERA NOS. 204/205

FLIGHT LENS SETTINGS AND FILM TYPES

LENS SETTINGS

PANORAMIC CAMERA SETTINGS	CAMERA NO. 204	CAMERA NO. 205
PANORAMIC OPTICS SLIT WIDTH	.200 IN	.150 IN
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

	D97/120/117 STELLAR INDEX		D98/121/118 STELLAR INDEX	
EXPOSURE TIME	1.0 SEC	1/500 SEC	1.0 SEC	1/500 SEC
APERTURE SETTING	F1.8	F4.5	F1.8	F4.5
FILTER TYPE	NONE	WRATTEN 21	NONE	WRATTEN 21

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

FILM

PANORAMIC CAMERAS	CAMERA NO. 204	CAMERA NO. 205
TYPE	7J-40	7J-40
LENGTH	16000 FT.	16000 FT.
SPLICES	2	3
EMUL. DATA	278-2-3-7	278-2-3-7
LG. BETWEEN	4533-5740-5727-	3462-5651-5644-
SPLICE TO CORE	- 16,000 -	1223- - -
	- - -	- - -
	- - -	- - -

STELLAR/INDEX CAMERAS

	D97/120/117 STELLAR INDEX		D98/121/118 STELLAR INDEX	
TYPE	3J-34	7J-33	3J-34	7J-33
EMUL. DATA	183-4-10-6	128-1-10-6	183-4-10-6	128-1-10-6

SYSTEM NO. J-37
VEHICLE NO. 1633
MISSION NO. 1842-1
CAMERA NOS. 284/285

LENS DATA SUMMARY MASTER CAMERA NO. 284

LENS SERIAL NO. 2192435
EQUIVALENT OPERATIONAL FOCAL LENGTH 689.628 MM

RESOLUTION

STATIC	BENCH TEST	LINES/MM	FILM TYPE	TARGET CONTRAST
		268	3484	HIGH
		153	3484	LOW
DYNAMIC	[REDACTED]	285	3484	HIGH
		128	3484	LOW
	AP	285	3484	HIGH
		128	3484	LOW

NOTE [REDACTED] RESOLUTION OF 285 LINES/MM REPORTED IN [REDACTED]

DISTORTION - POSITIVE (PINCUSHION)

ANGLE OFF AXIS-DEG.	3	2	1	0	359	358	357
MILLIMETERS	0.002	0.001	0.0	0.0	0.0	0.002	0.003

SYSTEM NO. J-37
VEHICLE NO. 1633
MISSION NO. 1842-1
CAMERA NOS. 284/285

LENS DATA SUMMARY (HORIZON CAMERAS FOR MASTER CAMERA NO. 284)

	TAKE-UP	SUPPLY
LENS SERIAL NO.	12853	12871
OPERATIONAL FOCAL LENGTH	55.88 MM	55.88 MM
RADIAL DISTORTION		
10 DEG. OFF AXIS	0.028 MM	0.028 MM
20 DEG. OFF AXIS	0.060 MM	0.060 MM
TANGENTIAL DISTORTION (MAXIMUM VECTOR)	0.038 MM	0.015 MM

RESOLUTION

ANGLE OFF AXIS-DEG.	0	5	10	15	20	25	27.5	30
TAKE-UP (RADIAL)	289	288	286	181	196	169	0	57
(TANGENTIAL)	187	185	161	155	138	121	0	78
SUPPLY (RADIAL)	289	288	184	181	175	158	0	64
(TANGENTIAL)	187	185	161	123	103	96	0	78

DYNAMIC (ZERO DEG)

TAKE-UP 0 LINES/MM
SUPPLY 0 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-37
VEHICLE NO. 1633
MISSION NO. 1842-1
CAMERA NOS. 204/205

LENS DATA SUMMARY SLAVE CAMERA NO. 205

LENS SERIAL NO. 2812435
EQUIVALENT OPERATIONAL FOCAL LENGTH 689.628 MM

RESOLUTION

STATIC	BENCH TEST	LINES/MM	FILM TYPE	TARGET CONTRAST
		236	3484	HIGH
		145	3484	LOW
DYNAMIC	[REDACTED]	205	3484	HIGH
		127	3484	LOW
	AP	205	3484	HIGH
		127	3484	LOW

NOTE BOSTON RESOLUTION OF 205 LINES/MM REPORTED IN [REDACTED]

DISTORTION - POSITIVE (PINCUSHION)

ANGLE OFF AXIS-DEG.	3	2	1	0	359	358	357
MILLIMETERS	0.003	0.001	0.0	0.0	0.0	0.002	0.003

SYSTEM NO. J-37
 VEHICLE NO. 1633
 MISSION NO. 1842-1
 CAMERA NOS. 284/285

LENS DATA SUMMARY (HORIZON CAMERAS FOR SLAVE CAMERA NO. 285)

	TAKE-UP	SUPPLY
LENS SERIAL NO.	12879	19898
OPERATIONAL FOCAL LENGTH	55.88 MM	55.88 MM
RADIAL DISTORTION		
18 DEG. OFF AXIS	0.018 MM	0.018 MM
28 DEG. OFF AXIS	0.040 MM	0.038 MM
TANGENTIAL DISTORTION (MAXIMUM VECTOR)	0.015 MM	0.020 MM

RESOLUTION

ANGLE OFF AXIS-DEG.		0	5	10	15	20	25	27.5	30
TAKE-UP (RADIAL)	235	288	163	143	139	158		0	64
(TANGENTIAL)	289	185	161	109	138	189		0	78
SUPPLY (RADIAL)	289	288	184	181	156	158		0	72
(TANGENTIAL)	289	185	161	155	88	86		0	78

DYNAMIC (ZERO DEG)

TAKE-UP	0 LINES/MM
SUPPLY	0 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-37
VEHICLE NO. 1633
MISSION NO. 1842-1
CAMERA NOS. 284/285

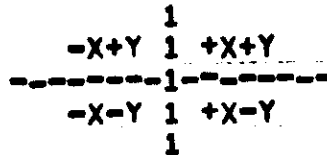
FORMAT DIMENSIONS AND CALIBRATIONS

CAMERA NO. 284

CAMERA NO. 285

A	75.978	76.818
B	355.288	355.838
C	718.188	789.978
D	56.547	56.727
E	56.478	56.654
XT	-8.234	8.829
YT	-8.188	-8.289
XS	-1.871	-8.962
YS	8.225	-8.138
XVO	8.468	8.195
YVO	8.897	8.825
DTX	-8.238	8.819
DTY	1.828	-1.791
DSX	-1.864	-8.961
DSY	2.225	-2.138
DMX	8.416	8.231
DMY	28.897	28.825
HEIGHT	55.272	55.982
WIDTH	757.368	755.888
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 FOPMAT.
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



SYSTEM NO. J-37
VEHICLE NO. 1633
MISSION NO. 1842-1
CAMERA NOS. 284/285

LENS DATA SUMMARY STELLAR INDEX D97/128/117 -1 MISSION

	STELLAR	INDEX
LENS SERIAL NO.	11818	828192
RESEAU SERIAL NO.	117	128
FILTER TYPE	NONE	WRATTEN 21
APERTURE	F1.8	F4.5
EXPOSURE TIME	1.8 SEC.	1/500 SEC.
EQUIVALENT FOCAL LENGTH	84 NOM	MM 38.52 MM

RESOLUTION (INDEX)

ANGLE OFF AXIS	0	10	20	30	35
HIGH CONTRAST-R/T (3400 FILM)	875/71	871/73	895/79	895/58	886/32

AWAR 74 LINES/MM
READ FROM 4400 FILM.

DISTORTION

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

ALIGNMENT

STELLAR	INDEX
-0.0005 INCHES/.937 INCHES	-0.0004 INCHES/2.25 INCHES

SYSTEM NO. J-37
VEHICLE NO. 1633
MISSION NO. 1842-1
CAMERA NOS. 284/285

LENS DATA SUMMARY STELLAR INDEX D98/121/118 -2 MISSION

	STELLAR	INDEX
LENS SERIAL NO.	18794	828281
RESEAU SERIAL NO.	118	121
FILTER TYPE	NONE	WRATTEN 21
APERTURE	F1.8	F4.5
EXPOSURE TIME	1.8 SEC.	1/500 SEC.
EQUIVALENT FOCAL LENGTH	84 NOM	MM 38.37 MM

RESOLUTION (INDEX)

ANGLE OFF AXIS	8	18	28	38	35
HIGH CONTRAST-R/T (3488 FILM)	876/76	884/87	896/72	886/47	882/33

AWAR 71 LINES/MM
READ FROM 4488 FILM.

DISTORTION

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

ALIGNMENT

STELLAR	INDEX
-8.8814 INCHES/.937 INCHES	-8.8885 INCHES/2.25 INCHES

SYSTEM NO. J-37
VEHICLE NO. 1633
MISSION NO. 1042-1
CAMERA NOS. 204/205

CYCLE PERIOD DATA

V/H RAMP LEVEL	SETTING AMPLITUDE	TIME UP RAMP-SEC	---CALIBRATED---		---IN-FLIGHT---		ORBIT No.
			CYCLE PERIOD-SEC MASTER	CYCLE PERIOD-SEC SLAVE	CYCLE PERIOD-SEC MASTER	CYCLE PERIOD-SEC SLAVE	
6	4	60	4.150	4.146	4.130	4.150	9
6	3	1605	2.214	2.214	2.220	2.245	16
6	3	1787	2.202	2.201	2.210	2.215	48
6	3	1811	2.201	2.201	2.210	2.220	63
6	3	1745	2.204	2.203	2.226	2.220	79

NOTE

A B OR * INDICATE NO DATA AVAILABLE.

- A. 1042-1
- B. DRY
- C. PERFORMANCE ESTIMATE - PART ONE

OPERATIONS SUMMARY

FWD PAN CAMERA NUMBER		204													
OPN NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM			
PRE-FLT 113															
1	4	0	14	ON	2 55 51 150 14W	702496	720176	16	23	4	32	13 3	83072		
				OFF	2 53 23 149 3W	691296	716544	16	23	5	10	13 8	83110		
4	3	3	32	ON	2 67 22 132 34E	754496	702144	17	3	31	42	1221	12702		
				OFF	2 61 54 137 54E	725696	752240	17	3	33	10	1244	12790		
5	3	7	21	ON	2 55 33 119 13E	692960	710272	17	5	4	53	13 1	18293		
				OFF	2 51 57 120 51E	677376	702112	17	5	5	48	13 9	18348		
6	6	1	15	ON	2 42 58 101 11E	641312	664688	17	6	38	7	1322	23807		
				OFF	2 40 39 101 47E	633792	656880	17	6	38	42	1325	23922		
6	6	2	99	ON	2 24 28 104 52E	597800	619552	17	6	42	44	1342	24164		
				OFF	2 9 28 106 51E	592016	614368	17	6	46	26	1353	24306		
7	7	4	41	ON	2 51 24 75 45E	670592	695072	17	8	6	1	13 9	29161		
				OFF	2 44 52 77 59E	645824	669376	17	8	7	40	1319	29260		
8	5	3	47	ON	2 64 29 45 2E	728680	755344	17	9	32	30	1232	34350		
				OFF	2 56 35 50 41E	690592	715824	17	9	34	43	1257	34403		
9	6	0	11	ON	1 37 14 123 29W	1093000	1133712	17	10	43	42	229	38622		
				OFF	1 40 13 122 49W	1080760	1120992	17	10	44	29	233	38669		
9	6	2	0	ON	2 60 18 25 46E	705456	731248	17	11	3	46	1246	39826		
				OFF	2 58 49 26 44E	698416	723936	17	11	4	9	1251	39849		
9	6	3	10	ON	2 55 20 28 40E	682704	707632	17	11	5	3	1259	39903		
				OFF	2 53 40 29 28E	675536	700192	17	11	5	29	13 3	39929		
9	6	5	60	ON	2 36 45 34 41E	617240	639712	17	11	9	45	1328	40185		
				OFF	2 27 29 36 25E	597840	619584	17	11	12	3	1337	40323		
9	6	7	32	ON	2 2 30 39 41E	598432	620200	17	11	10	13	1356	40693		
				OFF	3 2 28 40 15E	600160	630200	17	11	19	27	14 0	40767		
10	1	3	11	ON	2 29 48 13 22E	600200	622120	17	12	41	29	1334	45689		
				OFF	2 28 0 13 40E	597240	618960	17	12	41	56	1336	45716		
11	9	1	9	ON	2 28 30 9 2W	596544	610240	17	14	11	46	1335	51106		
				OFF	2 27 0 8 40W	594320	615936	17	14	12	8	1336	51120		
13	7	1	100	ON	3 2 15 50 22W	607312	629400	17	17	19	23	1357	62363		
				OFF	3 17 31 48 32W	657216	601184	17	17	23	9	14 8	62589		
14	1	1	27	ON	2 38 36 70 50W	617000	639456	17	10	39	17	1323	67157		
				OFF	2 34 29 70 6W	606896	620976	17	10	40	19	1327	67219		
16	1	1	0	ON	2 74 39 153 43W	772400	800816	17	21	29	43	1114	77303		
				OFF	2 73 16 149 47W	763664	791664	17	21	30	10	1131	77410		
16	3	0	12	ON	2 38 47 124 19W	616384	638016	17	21	39	14	1321	77954		
				OFF	2 36 53 123 54W	611536	633792	17	21	39	42	1324	77982		
21	3	0	49	ON	2 43 40 121 10E	627720	650592	18	5	7	50	1312	18470		
				OFF	2 36 17 122 57E	600032	630144	18	5	9	49	1321	18589		
22	6	2	25	ON	2 23 25 102 33E	580144	609520	18	6	43	0	1333	24100		
				OFF	2 19 40 103 5E	586176	607472	18	6	43	56	1336	24236		
23	3	3	30	ON	2 61 13 67 50E	693232	710560	18	8	3	27	1235	29007		
				OFF	2 56 15 71 3E	671696	696200	18	8	4	44	1240	29004		

23	3	6	44	ON	2	47	36	74	48E	639184	662488	18	8	6	57	13	5	29217
				OFF	2	48	59	76	34E	618968	641488	18	8	8	37	1314		29317
24	8	5	15	ON	2	62	41	44	18E	699128	724672	18	9	33	3	1229		34383
				OFF	2	59	55	46	14E	686568	711632	18	9	33	47	1238		34427
25	9	1	51	ON	2	68	18	23	19E	687488	712528	18	11	3	48	1236		39828
				OFF	2	52	6	27	42E	653888	677728	18	11	5	47	1256		39947
25	9	5	68	ON	2	32	22	33	7E	598848	628624	18	11	18	44	1323		48244
				OFF	2	22	8	34	47E	587128	688448	18	11	13	16	1332		48396
26	2	4	17	ON	2	21	35	12	13E	586728	688848	18	12	43	23	1332		45883
				OFF	2	18	56	12	35E	585952	687248	18	12	44	2	1334		45842
29	2	5	43	ON	3	9	5	52	1W	634384	657488	18	17	28	52	1352		62452
				OFF	3	15	57	51	18W	668648	684736	18	17	22	34	1357		62554
38	7	2	13	ON	2	34	49	88	35W	681392	623264	18	18	48	8	1317		67288
				OFF	2	32	46	88	11W	597728	619456	18	18	48	31	1319		67231
38	7	9	48	ON	3	41	33	69	19W	798648	827968	18	18	58	55	1421		68335
				OFF	3	49	35	66	53W	858272	881568	18	19	8	58	1433		68458
36	7	5	44	ON	2	53	55	137	47E	652816	675792	19	3	34	59	1246		12899
				OFF	2	47	13	148	22E	629584	652432	19	3	36	41	1258		13881
37	3	4	31	ON	2	64	19	188	19E	693872	719216	19	5	2	13	1215		18133
				OFF	2	59	19	112	12E	672256	696784	19	5	3	32	1232		18212
37	3	5	49	ON	2	57	48	113	13E	665584	689872	19	5	3	58	1236		18238
				OFF	2	58	1	116	45E	637848	661888	19	5	5	55	1252		18355
37	3	6	45	ON	2	44	48	118	31E	621552	644192	19	5	7	17	13	1	18437
				OFF	2	37	57	128	13E	685184	627128	19	5	8	58	13	9	18538
38	3	3	38	ON	2	65	15	84	46E	697216	722688	19	6	31	56	1211		23516
				OFF	2	68	21	88	52E	675728	788488	19	6	33	14	1228		23594
39	9	5	127	ON	2	52	12	78	36E	643968	667448	19	8	5	17	1247		29117
				OFF	2	33	19	75	53E	596848	617728	19	8	18	1	1313		29481
48	8	5	38	ON	2	63	49	48	51E	689888	714176	19	9	32	13	1215		34333
				OFF	2	59	1	44	28E	668672	693872	19	9	33	29	1231		34489
41	6	2	35	ON	2	32	45	38	43E	594784	616328	19	11	18	4	1312		48284
				OFF	2	27	23	31	39E	588688	618888	19	11	11	24	1318		48284
45	2	3	188	ON	3	5	43	54	42W	631424	654416	19	17	19	21	1348		62361
				OFF	3	23	8	52	29W	785528	731312	19	17	23	48	1353		62628
48	3	8	16	ON	2	33	8	127	49W	594176	615776	19	21	39	34	13	8	77974
				OFF	2	38	38	127	22W	591288	612688	19	21	48	11	1318		78811
52	7	4	11	ON	2	62	59	129	54E	675424	788888	28	3	31	42	1211		12782
				OFF	2	61	13	131	18E	668384	692784	28	3	32	18	1217		12738
53	7	2	42	ON	2	53	35	113	3E	648192	663528	28	5	4	4	1236		18244
				OFF	2	47	19	115	27E	621536	644168	28	5	5	39	1247		18339
53	7	3	16	ON	2	41	35	117	7E	687712	629824	28	5	7	6	1255		18426
				OFF	2	39	18	117	42E	682848	624784	28	5	7	42	1258		18462
53	7	6	41	ON	3	23	46	126	29E	715216	741376	28	5	23	16	1349		19396
				OFF	3	31	17	127	42E	756888	784528	28	5	25	9	1356		19589
55	9	2	43	ON	2	66	17	58	47E	686976	712864	28	8	8	35	1155		28835
				OFF	2	59	34	64	32E	659888	683968	28	8	2	22	1228		28942
55	9	5	96	ON	2	45	28	78	46E	615936	638352	28	8	5	58	1249		29158
				OFF	2	31	12	74	3E	591184	612592	28	8	9	31	13	5	29371
56	9	1	56	ON	2	78	29	38	18E	785288	731856	28	9	29	21	1138		34161
				OFF	2	61	41	48	24E	667264	691616	28	9	31	45	1213		34385
57	9	1	81	ON	2	59	5	19	35E	656888	688752	28	11	2	28	1228		39748

		OFF	2	46	52	25	4E	618688	641216	28	11	5	27	1245	39927			
57	9	4	27	ON	2	31	38	28	44E	591264	612752	28	11	9	17	13	4	48157
		OFF	2	27	23	29	27E	588256	689648	28	11	18	18	13	8			48218
57	9	6	71	ON	3	7	52	33	54E	646144	669696	28	11	19	8	1334		48748
		OFF	3	19	38	35	21E	696568	722816	28	11	21	53	1343				48913
58	2	3	55	ON	2	27	13	6	58E	588864	689448	28	12	48	16	13	7	45616
		OFF	2	18	59	8	3E	588416	689888	28	12	42	18	1314				45738
59	1	2	25	ON	2	24	18	15	18W	587216	688568	28	14	18	55	13	9	51855
		OFF	2	28	24	14	46W	587888	689168	28	14	11	51	1312				51111
63	4	8	18	ON	2	33	28	187	24W	591984	613584	28	28	8	15	1258		72495
		OFF	2	31	54	187	7W	598448	611928	28	28	8	38	13	8			72518
68	5	3	14	ON	2	62	58	127	55E	661768	685984	21	3	38	18	12	1	12618
		OFF	2	68	38	129	36E	653744	677584	21	3	38	53	12	9			12653
69	7	3	18	ON	2	51	54	111	48E	625528	648384	21	5	3	1	1229		18181
		OFF	2	58	17	112	18E	621184	643888	21	5	3	26	1232				18286
69	7	4	25	ON	2	44	33	114	12E	687744	629856	21	5	4	52	1241		18292
		OFF	2	48	48	115	13E	688592	622432	21	5	5	48	1246				18348
69	7	7	34	ON	3	25	24	124	37E	736336	763296	21	5	22	12	1348		19332
		OFF	3	31	58	125	42E	773312	881664	21	5	23	49	1346				19429
70	7	1	21	ON	2	56	2	87	7E	637136	668352	21	6	31	51	1228		23511
		OFF	2	52	51	88	38E	627688	658544	21	6	32	48	1227				23568
71	8	3	27	ON	2	64	1	58	59E	663952	688176	21	7	59	39	1155		28779
		OFF	2	59	44	62	28E	648528	672176	21	8	8	47	1218				28847
71	8	5	59	ON	2	44	44	68	53E	687368	629456	21	8	4	36	1248		29876
		OFF	2	35	54	71	3E	593168	614736	21	8	6	48	1251				29288
71	8	7	35	ON	2	29	24	72	17E	588864	689448	21	8	8	25	1257		29385
		OFF	2	24	18	73	7E	587376	688728	21	8	9	43	13	2			29383
72	3	1	95	ON	2	78	7	28	49E	688888	713216	21	9	27	52	1123		34872
		OFF	2	55	45	42	1E	635872	658288	21	9	31	42	1219				34382
72	3	5	36	ON	2	52	43	43	27E	626224	649824	21	9	32	28	1226		34348
		OFF	2	47	17	45	29E	612488	634768	21	9	33	58	1235				34438
73	4	3	33	ON	2	51	16	21	25E	621848	644488	21	11	2	43	1228		39763
		OFF	2	46	17	23	18E	689888	632888	21	11	3	58	1236				39838
74	6	3	17	ON	2	32	16	3	54E	589488	618832	21	12	37	21	1252		45441
		OFF	2	29	44	4	21E	588848	689424	21	12	37	59	1255				45479
74	6	4	29	ON	2	26	56	4	49E	587368	688784	21	12	38	48	1257		45528
		OFF	2	22	34	5	29E	588896	689472	21	12	39	45	13	1			45585
77	2	3	94	ON	3	4	36	59	3W	645368	668888	21	17	16	6	1319		62166
		OFF	3	28	11	57	7W	714736	748888	21	17	19	58	1331				62398
79	3	8	18	ON	2	41	29	111	12W	598992	628784	21	28	4	26	1239		72266
		OFF	2	39	57	118	49W	596784	618488	21	28	4	49	1241				72289
84	4	3	79	ON	2	66	26	122	25E	663888	687288	22	3	27	22	1137		12442
		OFF	2	54	33	131	8E	625888	647768	22	3	38	29	1215				12629
85	3	3	34	ON	2	53	36	188	57E	622888	644656	22	5	8	34	1216		18834
		OFF	2	48	38	118	58E	618888	632272	22	5	1	51	1225				18111
86	3	5	32	ON	2	54	17	86	1E	623328	646832	22	6	38	15	1214		23415
		OFF	2	49	28	88	1E	611768	634816	22	6	31	28	1223				23488
86	3	7	33	ON	2	44	31	89	37E	682128	624832	22	6	32	43	1231		23563
		OFF	2	39	31	98	55E	594768	616488	22	6	33	58	1237				23638
87	3	1	65	ON	2	69	5	51	7E	671888	695584	22	7	56	12	1128		28572
		OFF	2	59	19	68	38E	637856	668272	22	7	58	49	12	1			28729

87 3 4	36 ON	2 52 44	64 6E	618928	641456	22 8	8 38	1216	28838
	OFF	2 47 17	66 8E	686912	628992	22 8	1 52	1226	28912
87 3 7	14 ON	2 43 35	67 16E	688272	622112	22 8	2 49	1231	28969
	OFF	2 41 22	67 51E	596976	618688	22 8	3 22	1234	29882

OPERATIONS SUMMARY

AFT	PAN	CAMERA	NUMBER	285														
OPN NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM						
PRE-FLT 115																		
1 4 0	14 ON	2 55 59	158 22W	698544	724864	16 23	4 45	13 3	83885									
	OFF	2 53 29	149 18W	687584	712624	16 23	5 23	13 8	83123									
4 3 3	32 ON	2 67 33	132 15E	758864	777536	17 3	31 55	1228	12715									
	OFF	2 62 4	137 43E	721472	747856	17 3	33 23	1244	12883									
5 3 7	21 ON	2 55 39	119 6E	689184	714272	17 5	5 6	13 1	18386									
	OFF	2 52 3	128 46E	673728	698328	17 5	6 1	13 8	18361									
6 6 1	14 ON	2 43 8	181 7E	638384	661648	17 6	38 28	1322	23988									
	OFF	2 48 48	181 43E	631856	654832	17 6	38 55	1325	23935									
6 6 2	99 ON	2 24 26	184 49E	596688	618384	17 6	42 57	1342	24177									
	OFF	2 9 26	186 48E	593456	615848	17 6	46 39	1353	24399									
7 7 4	41 ON	2 51 29	75 48E	667856	691392	17 8	6 14	13 8	29174									
	OFF	2 44 55	77 55E	642768	666192	17 8	7 53	1319	29273									
8 5 3	46 ON	2 64 39	44 49E	724448	758968	17 9	32 51	1231	34371									
	OFF	2 56 42	58 34E	686752	711848	17 9	34 56	1257	34496									
9 6 8	11 ON	1 36 31	123 44W	1889584	1138168	17 18	43 55	228	38635									
	OFF	1 39 31	123 5W	1877232	1117312	17 18	44 42	232	38682									
9 6 2	8 ON	2 68 26	25 37E	781424	727856	17 11	3 59	1246	39839									
	OFF	2 58 56	26 37E	694464	719848	17 11	4 22	1258	39862									
9 6 3	18 ON	2 55 26	28 34E	679888	783792	17 11	5 16	1259	39916									
	OFF	2 53 45	29 22E	671928	696448	17 11	5 42	13 3	39942									
9 6 5	68 ON	2 36 45	34 38E	614928	637312	17 11	9 58	1328	48198									
	OFF	2 27 27	36 22E	596544	618248	17 11	12 16	1337	48336									
9 6 7	32 ON	2 2 28	39 37E	599936	621768	17 11	18 26	1356	48786									
	OFF	3 2 28	48 11E	618256	632464	17 11	19 48	14 8	48788									
10 1 3	12 ON	2 29 47	13 19E	598736	628512	17 12	41 42	1334	45782									
	OFF	2 27 58	13 38E	595984	617568	17 12	42 9	1336	45729									
11 9 1	9 ON	2 28 28	9 5W	595288	616848	17 14	11 59	1335	51119									
	OFF	2 26 58	8 58W	593872	614648	17 14	12 21	1336	51141									
13 7 1	99 ON	3 2 15	58 26W	689448	631616	17 17	19 36	1357	62376									
	OFF	3 17 27	48 36W	668968	685872	17 17	23 22	14 8	62682									
14 1 1	27 ON	2 38 36	79 1W	614672	637848	17 18	39 38	1323	67178									
	OFF	2 34 28	78 8W	684976	626992	17 18	48 32	1327	67232									
16 1 1	8 ON	2 74 58	154 22W	768888	796168	17 21	29 56	1112	77396									
	OFF	2 73 27	158 19W	759232	787856	17 21	38 23	1128	77423									
16 3 8	11 ON	2 38 46	124 22W	614864	636488	17 21	39 27	1321	77967									
	OFF	2 36 52	123 57W	689488	631584	17 21	39 55	1323	77995									
21 3 8	49 ON	2 43 41	121 6E	625872	647824	18 5	8 11	1312	18491									
	OFF	2 36 16	122 54E	686864	628112	18 5	18 2	1321	18682									
22 6 2	24 ON	2 23 23	182 38E	587528	688864	18 6	43 13	1333	24193									
	OFF	2 19 37	183 2E	585968	687264	18 6	44 9	1336	24249									
23 3 3	38 ON	2 61 19	67 49E	689392	714576	18 8	3 48	1234	29828									

		OFF	2	56	28	78	57E	668176	692568	18	8	4	57	1248	29897			
23	3	6	43	ON	2	47	38	74	36E	636248	659488	18	8	7	18	13	5	29238
		OFF	2	48	59	76	38E	616576	639824	18	8	8	58	1314	29338			
24	8	5	16	ON	2	62	48	44	1E	695232	728648	18	9	33	16	1229	34396	
		OFF	2	68	1	46	6E	682832	787768	18	9	34	8	1238	34448			
25	9	1	51	ON	2	68	24	23	12E	683648	788688	18	11	3	53	1236	39833	
		OFF	2	52	18	27	37E	658688	674416	18	11	6	8	1256	39968			
25	9	5	68	ON	2	32	28	33	5E	597368	619888	18	11	18	57	1323	48257	
		OFF	2	22	6	34	44E	586672	687984	18	11	13	29	1332	48489			
26	2	4	17	ON	2	21	32	12	18E	586368	687688	18	12	43	36	1332	45816	
		OFF	2	18	53	12	32E	585984	687288	18	12	44	15	1334	45855			
29	2	5	42	ON	3	9	4	52	4W	637424	668656	18	17	21	5	1352	62465	
		OFF	3	15	52	51	14W	664416	688656	18	17	22	47	1357	62567			
38	7	2	13	ON	2	34	48	88	38W	599728	621536	18	18	48	13	1317	67213	
		OFF	2	32	44	88	14W	596272	617952	18	18	48	44	1319	67244			
38	7	9	39	ON	3	41	16	69	28W	884128	833664	18	18	59	8	1421	68348	
		OFF	3	49	13	67	6W	855984	887584	18	19	1	11	1432	68471			
36	7	5	43	ON	2	53	58	137	42E	648848	672496	19	3	35	12	1245	12912	
		OFF	2	47	14	148	18E	626848	649688	19	3	36	54	1257	13814			
37	3	4	38	ON	2	64	26	188	9E	698112	715328	19	5	2	26	1214	18146	
		OFF	2	59	24	112	6E	668768	693168	19	5	3	45	1231	18225			
37	3	5	48	ON	2	57	44	113	7E	662256	686416	19	5	4	11	1236	18251	
		OFF	2	58	3	116	41E	634992	658128	19	5	6	8	1252	18368			
37	3	6	44	ON	2	44	48	118	27E	619128	641664	19	5	7	38	13	1	18458
		OFF	2	37	56	128	18E	683296	625232	19	5	9	11	13	9	18551		
38	3	3	38	ON	2	65	21	84	35E	693488	718752	19	6	32	9	1218	23529	
		OFF	2	68	26	88	46E	672192	696728	19	6	33	27	1228	23687			
39	9	5	126	ON	2	52	15	78	32E	648992	664352	19	8	5	38	1247	29138	
		OFF	2	33	17	75	51E	594784	616328	19	8	18	14	1313	29414			
48	8	5	38	ON	2	63	55	48	42E	685312	718336	19	9	32	26	1215	34346	
		OFF	2	59	5	44	22E	665264	689536	19	9	33	42	1238	34422			
41	6	2	35	ON	2	32	42	38	41E	593456	615848	19	11	18	17	1312	48217	
		OFF	2	27	21	31	36E	587928	689296	19	11	11	37	1317	48297			
45	2	3	186	ON	3	5	42	54	46W	634448	657568	19	17	19	34	1348	62374	
		OFF	3	22	59	52	34W	718128	736896	19	17	23	53	1353	62633			
48	3	8	16	ON	2	33	6	127	52W	593856	614624	19	21	39	47	13	8	77987
		OFF	2	38	35	127	25W	598352	611888	19	21	48	24	1318	78824			
52	7	4	11	ON	2	63	4	129	46E	671984	696512	28	3	31	55	1218	12715	
		OFF	2	61	17	131	11E	665888	689264	28	3	32	23	1216	12743			
53	7	2	41	ON	2	53	37	112	59E	637488	668648	28	5	4	17	1236	18257	
		OFF	2	47	28	115	24E	619288	641744	28	5	5	52	1247	18352			
53	7	3	15	ON	2	41	34	117	4E	685872	627984	28	5	7	19	1255	18439	
		OFF	2	39	9	117	39E	681248	623128	28	5	7	55	1258	18475			
53	7	6	48	ON	3	23	37	126	24E	719888	746224	28	5	23	29	1348	19489	
		OFF	3	31	4	127	36E	761952	789872	28	5	25	22	1355	19522			
55	9	2	43	ON	2	66	23	58	37E	683448	788488	28	8	8	48	1155	28848	
		OFF	2	59	38	64	26E	656752	688784	28	8	2	35	1228	28955			
55	9	5	95	ON	2	45	28	78	43E	613792	636128	28	8	6	11	1248	29171	
		OFF	2	31	18	74	1E	598328	611776	28	8	9	44	13	5	29384		
56	9	1	56	ON	2	78	35	38	2E	781584	727232	28	9	29	34	1129	34174	
		OFF	2	61	46	48	17E	664832	688256	28	9	31	58	1212	34318			

57	9	1	88	ON	2	59	8	19	29E	653664	677488	28	11	2	33	1228	39753
				OFF	2	46	52	25	8E	616464	638912	28	11	5	48	1245	39948
57	9	4	27	ON	2	31	28	28	42E	598488	611952	28	11	9	38	13	4
				OFF	2	27	28	29	24E	587872	689232	28	11	18	31	13	7
57	9	6	78	ON	3	7	49	33	49E	649536	673216	28	11	19	13	1334	48753
				OFF	3	19	23	35	16E	788968	726576	28	11	22	6	1342	48926
58	2	3	54	ON	2	27	18	6	48E	587712	689872	28	12	48	29	13	7
				OFF	2	18	56	8	8E	588944	618352	28	12	42	31	1314	45751
59	1	2	24	ON	2	24	7	15	21W	587184	688528	28	14	11	8	13	9
				OFF	2	28	22	14	49W	588288	689584	28	14	12	4	1312	51124
63	4	8	18	ON	2	33	26	187	27W	591872	612568	28	28	8	28	1258	72588
				OFF	2	31	52	187	9W	589768	611288	28	28	8	51	1259	72531
68	5	3	13	ON	2	62	54	127	48E	658648	682656	21	3	38	31	12	1
				OFF	2	68	41	129	38E	658784	674512	21	3	31	6	12	8
69	7	3	18	ON	2	51	55	111	36E	623152	645848	21	5	3	14	1229	18194
				OFF	2	58	17	112	15E	618912	641448	21	5	3	39	1232	18219
69	7	4	24	ON	2	44	33	114	9E	685952	628888	21	5	5	5	1241	18385
				OFF	2	48	46	115	9E	599152	628944	21	5	6	1	1246	18361
69	7	7	33	ON	3	25	12	124	32E	741232	768368	21	5	22	25	1348	19345
				OFF	3	31	36	125	35E	778568	887128	21	5	24	2	1346	19442
78	7	1	28	ON	2	56	4	87	3E	634488	657688	21	6	32	4	1228	23524
				OFF	2	52	52	88	34E	625264	648832	21	6	32	53	1226	23573
71	8	3	27	ON	2	64	5	58	52E	668816	684928	21	7	59	52	1155	28792
				OFF	2	59	46	62	15E	645648	669184	21	8	1	8	12	9
71	8	5	59	ON	2	44	43	68	58E	685616	627648	21	8	4	49	1239	29889
				OFF	2	35	52	71	1E	592192	613728	21	8	7	1	1258	29221
71	8	7	34	ON	2	29	21	72	14E	587712	689872	21	8	8	38	1257	29318
				OFF	2	24	7	73	5E	587584	688944	21	8	9	56	13	2
72	3	1	95	ON	2	78	13	28	36E	684624	789632	21	9	28	5	1122	34885
				OFF	2	55	47	41	57E	632432	655472	21	9	31	55	1219	34315
72	3	5	36	ON	2	52	44	43	23E	623856	646568	21	9	32	41	1226	34361
				OFF	2	47	16	45	26E	618528	632736	21	9	34	3	1235	34443
73	4	3	33	ON	2	51	17	21	22E	619568	642112	21	11	2	56	1228	39776
				OFF	2	46	17	23	7E	688816	638144	21	11	4	11	1236	39851
74	6	3	16	ON	2	32	13	3	52E	588896	618384	21	12	37	34	1252	45454
				OFF	2	29	41	4	19E	587728	689888	21	12	38	12	1255	45492
74	6	4	28	ON	2	26	54	4	46E	587328	688672	21	12	38	53	1257	45533
				OFF	2	22	31	5	26E	588544	689936	21	12	39	58	13	1
77	2	3	91	ON	3	4	33	59	7W	648688	672336	21	17	16	19	1319	62179
				OFF	3	28	2	57	12W	719344	745664	21	17	28	11	1331	62411
79	3	8	18	ON	2	41	28	111	15W	597664	619392	21	28	4	39	1239	72279
				OFF	2	39	55	118	52W	595584	617152	21	28	5	2	1241	72382
84	4	3	79	ON	2	66	38	122	17E	668832	684112	22	3	27	35	1136	12455
				OFF	2	54	34	131	5E	622736	645488	22	3	38	42	1214	12642
85	3	3	34	ON	2	53	36	188	54E	619888	642368	22	5	8	47	1216	18847
				OFF	2	48	38	118	55E	688248	638368	22	5	2	4	1225	18124
66	3	5	32	ON	2	54	17	85	58E	621184	643712	22	6	38	28	1214	23428
				OFF	2	49	28	87	57E	689872	632864	22	6	31	41	1223	23581
86	3	7	33	ON	2	44	38	89	34E	688624	622464	22	6	32	56	1231	23576
				OFF	2	39	29	98	52E	593728	615312	22	6	34	11	1237	23651
87	3	1	65	ON	2	69	9	58	57E	667872	692248	22	7	56	25	1128	28585

	OFF	2	59	21	68	34E	634448	657568	22	7	59	2	12	1	28742		
87	3	4	36	ON	2	52	44	64	3E	616888	639248	22	8	8	43	1216	28843
				OFF	2	47	16	66	5E	685216	627232	22	8	2	5	1226	28925
87	3	7	14	ON	2	43	33	67	13E	598888	628656	22	8	3	2	1231	28982
				OFF	2	41	28	67	48E	595888	617472	22	8	3	35	1234	29815

PHOTOGRAPHIC SUMMARY

FWD PAN	CAMERA	NO	284	8.2000	SLIT	W/23A	FILTER	3484	FILM								
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI								
PRE-FLT	113	298.9															
1	4	8	14	37.8	ON	294	55.5	44.4	12.85	12.42	11.82	11.22					
					OFF	299	57.3	47.2	12.88	12.42	11.82	11.22					
4	3	3	32	84.6	ON	278	45.9	34.6	11.93	12.42	11.82	11.22					
					OFF	282	58.7	38.3	11.99	12.42	11.82	11.22					
5	3	7	21	55.5	ON	294	55.9	43.8	12.85	12.42	11.82	11.22					
					OFF	382	58.5	47.9	12.89	12.42	11.82	11.22					
6	6	1	15	39.7	ON	321	64.8	61.4	12.18	12.42	11.82	11.22					
					OFF	325	65.1	65.9	12.19	12.42	11.82	11.22					
6	6	2	99	261.9	ON	336	66.7	183.6	12.24	12.42	11.82	11.22					
					OFF	336	59.5	138.8	12.24	12.42	11.82	11.22					
7	7	4	41	188.4	ON	384	59.8	48.1	12.18	12.42	11.82	11.22					
					OFF	317	63.1	57.8	12.16	12.42	11.82	11.22					
8	5	3	47	124.3	ON	274	48.5	35.5	11.95	12.42	11.82	11.22					
					OFF	293	55.2	42.8	12.85	12.42	11.82	11.22					
9	6	8	11	29.1	ON	178	-19.9	23.9	11.33	8.8	8.8	8.8					
					OFF	179	-17.1	23.5	11.34	8.8	8.8	8.8					
9	6	2	8	21.2	ON	288	52.2	38.4	12.82	12.42	11.82	11.22					
					OFF	292	53.4	39.6	12.84	12.42	11.82	11.22					
9	6	3	18	26.4	ON	299	56.2	43.8	12.88	12.42	11.82	11.22					
					OFF	383	57.5	44.8	12.18	12.42	11.82	11.22					
9	6	5	68	158.7	ON	333	66.8	73.5	12.23	12.42	11.82	11.22					
					OFF	335	67.7	96.2	12.24	12.42	11.82	11.22					
9	6	7	32	84.6	ON	335	54.9	139.8	12.24	12.42	11.82	11.22					
					OFF	334	51.8	143.2	12.23	12.42	11.82	11.22					
18	1	3	11	29.1	ON	335	68.8	98.3	12.24	12.42	11.82	11.22					
					OFF	335	67.9	94.8	12.24	12.42	11.82	11.22					
11	9	1	9	23.8	ON	335	68.1	93.4	12.24	12.42	11.82	11.22					
					OFF	335	67.9	97.2	12.24	12.42	11.82	11.22					
13	7	1	188	264.5	ON	337	51.6	143.6	12.25	12.42	11.82	11.22					
					OFF	319	38.5	151.9	12.17	12.38	11.78	11.18					
14	1	1	27	71.4	ON	336	66.7	68.1	12.24	12.42	11.82	11.22					
					OFF	337	68.8	77.8	12.25	12.42	11.82	11.22					
16	1	1	8	21.2	ON	251	38.4	29.8	11.82	12.38	11.78	11.18					
					OFF	255	39.9	29.4	11.85	12.39	11.79	11.19					
16	3	8	12	31.7	ON	336	66.9	67.2	12.24	12.42	11.82	11.22					
					OFF	336	67.5	71.5	12.25	12.42	11.82	11.22					
21	3	8	49	129.6	ON	333	64.9	56.8	12.23	12.42	11.82	11.22					
					OFF	337	68.3	71.7	12.25	12.42	11.82	11.22					
22	6	2	25	66.1	ON	338	68.8	185.5	12.25	12.42	11.82	11.22					
					OFF	338	67.5	114.4	12.25	12.42	11.82	11.22					

23	3	3	38	79.3	ON	292	51.7	34.4	12.84	12.42	11.82	11.22
					OFF	386	56.8	38.5	12.11	12.42	11.82	11.22
23	3	6	44	116.4	ON	326	62.5	48.9	12.28	12.42	11.82	11.22
					OFF	336	66.5	68.6	12.24	12.42	11.82	11.22
24	8	5	15	39.7	ON	289	58.4	33.1	12.83	12.42	11.82	11.22
					OFF	297	52.9	35.1	12.86	12.42	11.82	11.22
25	9	1	51	134.9	ON	296	52.6	34.6	12.86	12.42	11.82	11.22
					OFF	317	59.4	42.4	12.16	12.42	11.82	11.22
25	9	5	68	179.9	ON	337	69.7	88.9	12.25	12.42	11.82	11.22
					OFF	338	68.8	108.7	12.25	12.42	11.82	11.22
26	2	4	17	45.8	ON	338	68.8	118.8	12.25	12.42	11.82	11.22
					OFF	338	67.7	116.3	12.25	12.42	11.82	11.22
29	2	5	43	113.7	ON	338	47.5	158.5	12.22	12.42	11.82	11.22
					OFF	316	41.3	153.6	12.15	12.48	11.88	11.28
38	7	2	13	34.4	ON	337	69.7	73.1	12.25	12.42	11.82	11.22
					OFF	338	78.3	78.7	12.25	12.42	11.82	11.22
38	7	9	48	185.8	ON	251	17.3	159.6	11.83	11.94	11.34	18.74
					OFF	234	9.5	168.2	11.73	11.35	18.75	18.15
36	7	5	44	116.4	ON	323	58.3	37.4	12.19	12.42	11.82	11.22
					OFF	335	63.6	45.7	12.24	12.42	11.82	11.22
37	3	4	31	82.8	ON	291	49.8	29.2	12.84	12.42	11.82	11.22
					OFF	385	53.7	32.5	12.18	12.42	11.82	11.22
37	3	5	49	129.6	ON	389	55.1	33.8	12.12	12.42	11.82	11.22
					OFF	327	61.5	41.6	12.21	12.42	11.82	11.22
37	3	6	45	119.8	ON	338	65.4	49.4	12.25	12.42	11.82	11.22
					OFF	339	69.3	63.1	12.26	12.42	11.82	11.22
38	3	3	38	79.3	ON	288	48.1	28.5	12.82	12.42	11.82	11.22
					OFF	382	52.7	31.5	12.89	12.42	11.82	11.22
39	9	5	127	335.9	ON	325	59.8	38.4	12.28	12.42	11.82	11.22
					OFF	348	71.2	74.9	12.26	12.42	11.82	11.22
48	8	5	38	79.3	ON	381	49.5	28.8	12.88	12.42	11.82	11.22
					OFF	313	54.8	32.8	12.14	12.42	11.82	11.22
41	6	2	35	92.6	ON	341	71.6	76.1	12.26	12.42	11.82	11.22
					OFF	341	72.2	92.7	12.27	12.42	11.82	11.22
45	2	3	186	285.7	ON	334	52.8	151.1	12.24	12.42	11.82	11.22
					OFF	293	36.8	158.4	12.85	12.36	11.76	11.16
48	3	8	16	42.3	ON	341	72.3	73.8	12.26	12.42	11.82	11.22
					OFF	341	72.9	81.8	12.27	12.42	11.82	11.22
52	7	4	11	29.1	ON	384	58.4	26.6	12.18	12.42	11.82	11.22
					OFF	389	52.1	27.6	12.13	12.42	11.82	11.22
53	7	2	42	111.1	ON	328	59.1	33.1	12.21	12.42	11.82	11.22
					OFF	338	64.4	48.3	12.25	12.42	11.82	11.22
53	7	3	16	42.3	ON	348	68.6	49.8	12.26	12.42	11.82	11.22
					OFF	348	78.1	55.8	12.26	12.42	11.82	11.22
53	7	6	41	188.4	ON	287	36.8	159.8	12.82	12.36	11.76	11.16
					OFF	266	28.7	161.4	11.91	12.28	11.68	11.88
55	9	2	43	113.7	ON	297	47.1	24.3	12.87	12.42	11.82	11.22
					OFF	315	53.7	27.9	12.15	12.42	11.82	11.22
55	9	5	96	253.9	ON	339	65.9	42.3	12.26	12.42	11.82	11.22
					OFF	341	73.7	77.3	12.27	12.42	11.82	11.22
56	9	1	56	148.1	ON	285	42.7	22.5	12.81	12.48	11.88	11.28

		OFF	318	51.7	26.4	12.13	12.42	11.82	11.22			
57	9	1	81	214.2	ON	317	54.2	27.7	12.16	12.42	11.82	11.22
		OFF	339	64.9		39.6	12.26	12.42	11.82	11.22		
57	9	4	27	71.4	ON	341	73.9	75.7	12.27	12.42	11.82	11.22
		OFF	341	74.4		98.4	12.27	12.42	11.82	11.22		
57	9	6	71	187.8	ON	325	51.2	154.5	12.28	12.42	11.82	11.22
		OFF	297	48.3		159.3	12.86	12.39	11.79	11.19		
58	2	3	55	145.5	ON	341	74.5	98.8	12.27	12.42	11.82	11.22
		OFF	341	72.3		118.4	12.27	12.42	11.82	11.22		
59	1	2	25	66.1	ON	342	74.3	181.8	12.27	12.42	11.82	11.22
		OFF	341	73.1		114.3	12.27	12.42	11.82	11.22		
63	4	8	18	26.4	ON	341	73.9	67.2	12.27	12.42	11.82	11.22
		OFF	341	74.5		72.5	12.27	12.42	11.82	11.22		
68	5	3	14	37.8	ON	313	58.6	23.8	12.14	12.42	11.82	11.22
		OFF	318	52.8		24.1	12.17	12.42	11.82	11.22		
69	7	3	18	26.4	ON	338	61.8	38.1	12.25	12.42	11.82	11.22
		OFF	338	62.5		31.7	12.25	12.42	11.82	11.22		
69	7	4	25	66.1	ON	348	67.3	38.9	12.26	12.42	11.82	11.22
		OFF	348	78.2		45.6	12.26	12.42	11.82	11.22		
69	7	7	34	89.9	ON	274	35.5	162.7	11.95	12.35	11.75	11.15
		OFF	259	29.2		163.9	11.87	12.28	11.68	11.88		
78	7	1	21	55.5	ON	338	57.2	26.5	12.22	12.42	11.82	11.22
		OFF	336	68.2		28.9	12.25	12.42	11.82	11.22		
71	8	3	27	71.4	ON	385	49.4	21.8	12.18	12.42	11.82	11.22
		OFF	316	53.7		23.9	12.16	12.42	11.82	11.22		
71	8	5	59	156.1	ON	338	67.3	37.9	12.25	12.42	11.82	11.22
		OFF	339	73.5		56.7	12.26	12.42	11.82	11.22		
71	8	7	35	92.6	ON	348	76.1	79.5	12.26	12.42	11.82	11.22
		OFF	348	76.8		181.1	12.26	12.42	11.82	11.22		
72	3	1	95	251.3	ON	293	43.8	19.5	12.85	12.48	11.88	11.28
		OFF	338	57.5		26.1	12.22	12.42	11.82	11.22		
72	3	5	36	95.2	ON	336	68.3	28.5	12.24	12.42	11.82	11.22
		OFF	338	65.2		34.1	12.25	12.42	11.82	11.22		
73	4	3	33	87.3	ON	337	61.7	29.5	12.25	12.42	11.82	11.22
		OFF	338	66.1		35.8	12.25	12.42	11.82	11.22		
74	6	3	17	45.8	ON	348	75.6	67.4	12.26	12.42	11.82	11.22
		OFF	348	76.4		77.3	12.26	12.42	11.82	11.22		
74	6	4	29	76.7	ON	348	76.7	89.1	12.26	12.42	11.82	11.22
		OFF	348	76.1		187.4	12.26	12.42	11.82	11.22		
77	2	3	94	248.6	ON	322	56.8	156.5	12.18	12.42	11.82	11.22
		OFF	283	41.1		162.8	12.88	12.39	11.79	11.19		
79	3	8	18	26.4	ON	339	78.3	48.3	12.26	12.42	11.82	11.22
		OFF	339	71.5		43.3	12.26	12.42	11.82	11.22		
84	4	3	79	289.8	ON	318	46.8	18.1	12.13	12.42	11.82	11.22
		OFF	336	58.8		23.6	12.25	12.42	11.82	11.22		
85	3	3	34	89.9	ON	337	59.7	24.8	12.25	12.42	11.82	11.22
		OFF	338	64.5		28.4	12.25	12.42	11.82	11.22		
86	3	5	32	84.6	ON	337	59.1	23.3	12.25	12.42	11.82	11.22
		OFF	338	63.6		27.1	12.25	12.42	11.82	11.22		
86	3	7	33	87.3	ON	339	68.1	32.7	12.26	12.42	11.82	11.22
		OFF	339	72.2		41.2	12.26	12.42	11.82	11.22		

87 3 1	65	171.9 ON	383	43.9	16.7	12.18	12.41	11.81	11.21
		OFF	328	54.1	28.2	12.21	12.42	11.82	11.22
87 3 4	36	95.2 ON	337	68.6	24.1	12.25	12.42	11.82	11.22
		OFF	338	65.6	29.8	12.25	12.42	11.82	11.22
87 3 7	14	37.8 ON	339	68.9	33.7	12.26	12.42	11.82	11.22
		OFF	339	78.8	37.2	12.26	12.42	11.82	11.22

PHOTOGRAPHIC SUMMARY

AFT PAN CAMERA NO 285			B.1588	SLIT W/21		FILTER	3484 FILM		
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI
PRE-FLT	115	384.2							
1 4 8	14	37.8 ON	392	55.4	43.8	12.47	12.75	12.15	11.55
		OFF	398	57.2	46.6	12.49	12.75	12.15	11.55
4 3 3	32	84.6 ON	368	45.7	33.2	12.34	12.75	12.15	11.55
		OFF	376	58.6	37.3	12.41	12.75	12.15	11.55
5 3 7	21	55.5 ON	392	55.8	43.1	12.47	12.75	12.15	11.55
		OFF	403	58.5	47.3	12.58	12.75	12.15	11.55
6 6 1	14	37.8 ON	427	64.8	61.8	12.59	12.75	12.15	11.55
		OFF	432	65.1	65.6	12.61	12.75	12.15	11.55
6 6 2	99	261.9 ON	447	66.8	183.6	12.66	12.75	12.15	11.55
		OFF	448	59.6	138.8	12.66	12.75	12.15	11.55
7 7 4	41	188.4 ON	485	59.8	47.5	12.51	12.75	12.15	11.55
		OFF	422	63.1	57.4	12.57	12.75	12.15	11.55
8 5 3	46	121.7 ON	365	48.4	34.4	12.36	12.75	12.15	11.55
		OFF	398	55.1	41.3	12.46	12.75	12.15	11.55
9 6 8	11	29.1 ON	238	-28.6	23.7	11.75	8.8	8.8	8.8
		OFF	239	-17.8	23.2	11.76	8.8	8.8	8.8
9 6 2	8	21.2 ON	384	52.1	37.6	12.44	12.75	12.15	11.55
		OFF	388	53.3	38.9	12.45	12.75	12.15	11.55
9 6 3	18	26.4 ON	399	56.1	42.4	12.49	12.75	12.15	11.55
		OFF	404	57.4	44.2	12.51	12.75	12.15	11.55
9 6 5	68	158.7 ON	443	66.8	73.3	12.64	12.75	12.15	11.55
		OFF	447	67.7	96.1	12.66	12.75	12.15	11.55
9 6 7	32	84.6 ON	447	54.9	139.8	12.65	12.75	12.15	11.55
		OFF	444	51.8	143.2	12.65	12.75	12.15	11.55
18 1 3	12	31.7 ON	447	68.8	98.2	12.65	12.75	12.15	11.55
		OFF	447	67.9	94.7	12.66	12.75	12.15	11.55
11 9 1	9	23.8 ON	447	68.1	93.4	12.66	12.75	12.15	11.55
		OFF	447	68.8	97.1	12.66	12.75	12.15	11.55
13 7 1	99	261.9 ON	446	51.7	143.6	12.65	12.75	12.15	11.55
		OFF	422	38.5	152.8	12.57	12.71	12.11	11.51
14 1 1	27	71.4 ON	445	66.7	67.9	12.65	12.75	12.15	11.55
		OFF	446	68.8	77.6	12.65	12.75	12.15	11.55
16 1 1	8	21.2 ON	333	38.2	26.1	12.23	12.78	12.18	11.58
		OFF	337	39.7	27.8	12.25	12.72	12.12	11.52
16 3 8	11	29.1 ON	445	66.9	67.8	12.65	12.75	12.15	11.55
		OFF	445	67.6	71.3	12.65	12.75	12.15	11.55
21 3 8	49	129.6 ON	448	64.9	55.6	12.63	12.75	12.15	11.55
		OFF	446	68.3	71.5	12.65	12.75	12.15	11.55
22 6 2	24	63.5 ON	448	68.8	185.5	12.66	12.75	12.15	11.55

		OFF	448	67.5	114.5	12.66	12.75	12.15	11.55			
23	3	3	30	79.3	ON	387	51.6	33.6	12.45	12.75	12.15	11.55
		OFF	484	55.9		37.9	12.51	12.75	12.15	11.55		
23	3	6	43	113.7	ON	431	62.5	48.5	12.68	12.75	12.15	11.55
		OFF	444	66.5		68.3	12.65	12.75	12.15	11.55		
24	8	5	16	42.3	ON	382	58.3	32.2	12.43	12.75	12.15	11.55
		OFF	392	52.8		34.4	12.47	12.75	12.15	11.55		
25	9	1	51	134.9	ON	391	52.5	33.8	12.46	12.75	12.15	11.55
		OFF	419	59.3		41.9	12.56	12.75	12.15	11.55		
25	9	5	68	179.9	ON	447	69.8	88.8	12.65	12.75	12.15	11.55
		OFF	448	68.9		188.7	12.66	12.75	12.15	11.55		
26	2	4	17	45.8	ON	448	68.8	118.1	12.66	12.75	12.15	11.55
		OFF	448	67.8		116.3	12.66	12.75	12.15	11.55		
29	2	5	42	111.1	ON	437	47.5	158.5	12.62	12.75	12.15	11.55
		OFF	417	41.4		153.7	12.56	12.73	12.13	11.53		
38	7	2	13	34.4	ON	446	69.8	72.9	12.65	12.75	12.15	11.55
		OFF	447	78.3		78.6	12.66	12.75	12.15	11.55		
38	7	9	39	183.2	ON	333	17.6	159.9	12.23	12.29	11.69	11.89
		OFF	311	9.9		168.6	12.13	11.72	11.12	18.52		
36	7	5	43	113.7	ON	427	58.3	36.9	12.59	12.75	12.15	11.55
		OFF	444	63.6		45.3	12.65	12.75	12.15	11.55		
37	3	4	38	79.3	ON	384	48.9	28.2	12.44	12.75	12.15	11.55
		OFF	483	53.6		31.8	12.51	12.75	12.15	11.55		
37	3	5	48	127.8	ON	488	55.1	33.1	12.53	12.75	12.15	11.55
		OFF	433	61.5		41.1	12.61	12.75	12.15	11.55		
37	3	6	44	116.4	ON	447	65.4	49.1	12.66	12.75	12.15	11.55
		OFF	449	69.3		62.9	12.66	12.75	12.15	11.55		
38	3	3	38	79.3	ON	381	48.8	27.4	12.43	12.75	12.15	11.55
		OFF	488	52.7		38.7	12.49	12.75	12.15	11.55		
39	9	5	126	333.3	ON	438	59.8	37.9	12.68	12.75	12.15	11.55
		OFF	451	71.3		74.8	12.67	12.75	12.15	11.55		
48	8	5	38	79.3	ON	397	49.4	27.9	12.49	12.75	12.15	11.55
		OFF	414	53.9		31.3	12.55	12.75	12.15	11.55		
41	6	2	35	92.6	ON	451	71.6	76.8	12.67	12.75	12.15	11.55
		OFF	451	72.2		92.8	12.67	12.75	12.15	11.55		
45	2	3	186	288.4	ON	441	52.1	151.2	12.64	12.75	12.15	11.55
		OFF	387	36.1		158.5	12.45	12.69	12.89	11.49		
48	3	8	16	42.3	ON	451	72.4	72.9	12.67	12.75	12.15	11.55
		OFF	451	73.8		88.9	12.67	12.75	12.15	11.55		
52	7	4	11	29.1	ON	483	58.3	25.7	12.58	12.75	12.15	11.55
		OFF	489	52.8		26.8	12.53	12.75	12.15	11.55		
53	7	2	41	188.4	ON	434	59.1	32.6	12.61	12.75	12.15	11.55
		OFF	447	64.4		39.9	12.66	12.75	12.15	11.55		
53	7	3	15	39.7	ON	449	68.6	49.5	12.66	12.75	12.15	11.55
		OFF	458	78.1		54.8	12.67	12.75	12.15	11.55		
53	7	6	48	185.8	ON	379	36.2	159.9	12.42	12.69	12.89	11.49
		OFF	352	29.8		161.6	12.31	12.61	12.81	11.41		
55	9	2	43	113.7	ON	387	47.8	23.2	12.45	12.75	12.15	11.55
		OFF	411	53.6		27.2	12.53	12.75	12.15	11.55		
55	9	5	95	251.3	ON	443	65.9	42.8	12.64	12.75	12.15	11.55
		OFF	446	73.7		77.2	12.65	12.75	12.15	11.55		

56	9	1	56	148.1	ON	372	42.6	28.9	12.39	12.73	12.13	11.53
					OFF	485	51.6	25.6	12.51	12.75	12.15	11.55
57	9	1	88	211.6	ON	413	54.1	27.1	12.54	12.75	12.15	11.55
					OFF	442	64.9	39.2	12.64	12.75	12.15	11.55
57	9	4	27	71.4	ON	446	73.9	75.6	12.65	12.75	12.15	11.55
					OFF	446	74.4	98.4	12.65	12.75	12.15	11.55
57	9	6	78	185.1	ON	424	51.3	154.6	12.58	12.75	12.15	11.55
					OFF	387	48.5	159.4	12.45	12.72	12.12	11.52
58	2	3	54	142.8	ON	446	74.6	98.9	12.65	12.75	12.15	11.55
					OFF	446	72.4	118.5	12.65	12.75	12.15	11.55
59	1	2	24	63.5	ON	446	74.4	181.9	12.65	12.75	12.15	11.55
					OFF	446	73.2	114.4	12.65	12.75	12.15	11.55
63	4	8	18	26.4	ON	445	74.8	67.1	12.65	12.75	12.15	11.55
					OFF	446	74.5	72.4	12.65	12.75	12.15	11.55
68	5	3	13	34.4	ON	488	58.5	22.2	12.52	12.75	12.15	11.55
					OFF	415	52.7	23.4	12.55	12.75	12.15	11.55
69	7	3	18	26.4	ON	448	61.8	29.7	12.63	12.75	12.15	11.55
					OFF	442	62.5	31.3	12.64	12.75	12.15	11.55
69	7	4	24	63.5	ON	444	67.3	38.6	12.64	12.75	12.15	11.55
					OFF	445	78.2	45.3	12.65	12.75	12.15	11.55
69	7	7	33	87.3	ON	358	35.7	162.8	12.34	12.69	12.89	11.49
					OFF	338	29.5	164.8	12.25	12.62	12.82	11.42
78	7	1	28	52.9	ON	438	57.2	25.9	12.68	12.75	12.15	11.55
					OFF	439	68.2	28.5	12.63	12.75	12.15	11.55
71	8	3	27	71.4	ON	483	49.3	28.9	12.51	12.75	12.15	11.55
					OFF	418	53.6	23.2	12.56	12.75	12.15	11.55
71	8	5	59	156.1	ON	448	67.3	37.6	12.66	12.75	12.15	11.55
					OFF	458	73.6	56.5	12.66	12.75	12.15	11.55
71	8	7	34	89.9	ON	451	76.1	79.5	12.67	12.75	12.15	11.55
					OFF	451	76.1	181.2	12.67	12.75	12.15	11.55
72	3	1	95	251.3	ON	388	42.9	17.9	12.45	12.73	12.13	11.53
					OFF	437	57.5	25.6	12.62	12.75	12.15	11.55
72	3	5	36	95.2	ON	445	68.3	28.8	12.65	12.75	12.15	11.55
					OFF	448	65.2	33.7	12.66	12.75	12.15	11.55
73	4	3	33	87.3	ON	446	61.7	29.1	12.65	12.75	12.15	11.55
					OFF	448	66.1	34.7	12.66	12.75	12.15	11.55
74	6	3	16	42.3	ON	451	75.6	67.3	12.67	12.75	12.15	11.55
					OFF	451	76.4	77.3	12.67	12.75	12.15	11.55
74	6	4	28	74.1	ON	451	76.8	89.2	12.67	12.75	12.15	11.55
					OFF	451	76.1	187.5	12.67	12.75	12.15	11.55
77	2	3	91	248.7	ON	427	56.1	156.6	12.59	12.75	12.15	11.55
					OFF	375	41.3	162.9	12.48	12.73	12.13	11.53
79	3	8	18	26.4	ON	458	78.3	48.8	12.66	12.75	12.15	11.55
					OFF	458	71.5	43.1	12.66	12.75	12.15	11.55
84	4	3	79	289.8	ON	418	46.8	17.8	12.53	12.75	12.15	11.55
					OFF	446	58.8	23.2	12.65	12.75	12.15	11.55
85	3	3	34	89.9	ON	446	59.7	23.6	12.65	12.75	12.15	11.55
					OFF	448	64.5	28.8	12.66	12.75	12.15	11.55
86	3	5	32	84.6	ON	446	59.1	22.8	12.65	12.75	12.15	11.55
					OFF	448	63.6	26.7	12.66	12.75	12.15	11.55
86	3	7	33	87.3	ON	449	68.1	32.4	12.66	12.75	12.15	11.55

87 3 1	65	171.9	OFF	458	72.2	41.8	12.67	12.75	12.15	11.55
			ON	482	43.9	15.4	12.58	12.74	12.14	11.54
87 3 4	36	95.2	OFF	434	54.1	19.5	12.61	12.75	12.15	11.55
			ON	447	68.6	23.6	12.66	12.75	12.15	11.55
87 3 7	14	37.8	OFF	449	65.7	28.6	12.66	12.75	12.15	11.55
			ON	449	69.8	33.4	12.66	12.75	12.15	11.55
			OFF	458	78.8	37.8	12.66	12.75	12.15	11.55

STELLAR-INDEX SUMMARY

CAMERA DATA	ET	FILM	FILTER	GRID	ASSEMBLY NO	D897
STELLAR	1.8	4481	NONE	128		
INDEX	1/588	4488	W/21	117		

PERFORMANCE SUMMARY

OPN NO	FR	STEL FEET	INDX FEET	H	M	S	Q	ON LAT	ON LONG	Q	OFF LAT	OFF LONG	SEC DUR
PRE-FLT	16	1.58	3.17										
1 4 8	3	8.38	8.59	23	4	32	2	55	158W	2	53	149W	51
4 3 3	5	8.49	8.99	3	31	42	2	67	132E	2	61	137E	181
5 3 7	4	8.48	8.79	5	4	53	2	55	119E	2	51	128E	68
6 6 1	3	8.38	8.59	6	38	7	2	42	181E	2	48	181E	48
6 6 2	15	1.48	2.97	6	42	44	2	24	184E	2	9	186E	235
7 7 4	7	8.69	1.39	8	6	1	2	51	75E	2	44	77E	112
8 5 3	7	8.69	1.39	9	32	38	2	64	45E	2	56	58E	138
9 6 8	2	8.28	8.48	10	43	42	1	37	123W	1	48	122W	68
9 6 2	2	8.28	8.48	11	3	46	2	68	25E	2	58	26E	36
9 6 3	2	8.28	8.48	11	5	3	2	55	28E	2	53	29E	39
9 6 5	9	8.89	1.78	11	9	45	2	36	34E	2	27	36E	151
9 6 7	5	8.49	8.99	11	18	13	2	2	39E	3	2	48E	87
18 1 3	2	8.28	8.48	12	41	29	2	29	13E	2	28	13E	48
11 9 1	2	8.28	8.48	14	11	46	2	28	9W	2	27	8W	35
13 7 1	15	1.48	2.97	17	19	23	3	2	58W	3	17	48W	239
14 1 1	5	8.49	8.99	18	39	17	2	38	78W	2	34	78W	75
16 1 1	2	8.28	8.48	21	29	43	2	74	153W	2	73	149W	48
16 3 8	3	8.38	8.59	21	39	14	2	38	124W	2	36	123W	41
21 3 8	8	8.79	1.58	5	7	58	2	43	121E	2	36	122E	124
22 6 2	4	8.48	8.79	6	43	8	2	23	182E	2	19	183E	69
23 3 3	5	8.49	8.99	8	3	27	2	61	67E	2	56	71E	98
23 3 6	7	8.69	1.39	8	6	57	2	47	74E	2	48	76E	113
24 8 5	3	8.38	8.59	9	33	3	2	62	44E	2	59	46E	57
25 9 1	8	8.79	1.58	11	3	48	2	68	23E	2	52	27E	148
25 9 5	11	1.89	2.18	11	18	44	2	32	33E	2	22	34E	165
26 2 4	3	8.38	8.59	12	43	23	2	21	12E	2	18	12E	52
29 2 5	7	8.69	1.39	17	28	52	3	9	52W	3	15	51W	115
38 7 2	3	8.38	8.59	18	48	8	2	34	88W	2	32	88W	44
38 7 9	6	8.59	1.19	18	58	55	3	41	69W	3	49	66W	136
36 7 5	7	8.69	1.39	3	34	59	2	53	137E	2	47	148E	115
37 3 4	5	8.49	8.99	5	2	13	2	64	188E	2	59	112E	92
37 3 5	8	8.79	1.58	5	3	58	2	57	113E	2	58	116E	138
37 3 6	7	8.69	1.39	5	7	17	2	44	118E	2	37	128E	114
38 3 3	5	8.49	8.99	6	31	56	2	65	84E	2	68	88E	91

39	9	5	19	1.88	3.76	8	5	17	2	52	78E	2	33	75E	297
40	8	5	5	0.49	0.99	9	32	13	2	63	48E	2	59	44E	89
41	6	2	6	0.59	1.19	11	18	4	2	32	38E	2	27	31E	93
45	2	3	16	1.58	3.17	17	19	21	3	5	54W	3	23	52W	272
48	3	8	3	0.38	0.59	21	39	34	2	33	127W	2	38	127W	58
52	7	4	2	0.28	0.48	3	31	42	2	62	129E	2	61	131E	41
53	7	2	7	0.69	1.39	5	4	4	2	53	113E	2	47	115E	188
53	7	3	3	0.38	0.59	5	7	6	2	41	117E	2	39	117E	49
53	7	6	7	0.69	1.39	5	23	16	3	23	126E	3	31	127E	126
55	9	2	7	0.69	1.39	8	8	35	2	66	58E	2	59	64E	128
55	9	5	15	1.48	2.97	8	5	58	2	45	78E	2	31	74E	226
56	9	1	9	0.89	1.78	9	29	21	2	78	38E	2	61	48E	157
57	9	1	12	1.19	2.38	11	2	28	2	59	19E	2	46	25E	288
57	9	4	5	0.49	0.99	11	9	17	2	31	28E	2	27	29E	74
57	9	6	11	1.89	2.18	11	19	8	3	7	33E	3	19	35E	186
58	2	3	9	0.89	1.78	12	48	16	2	27	6E	2	18	8E	135
59	1	2	4	0.48	0.79	14	18	55	2	24	15W	2	28	14W	69
63	4	8	2	0.28	0.48	28	8	15	2	33	187W	2	31	187W	36
68	5	3	3	0.38	0.59	3	38	18	2	62	127E	2	68	129E	48
69	7	3	2	0.28	0.48	5	3	1	2	51	111E	2	58	112E	38
69	7	4	4	0.48	0.79	5	4	52	2	44	114E	2	48	115E	69
69	7	7	6	0.59	1.19	5	22	12	3	25	124E	3	31	125E	118
78	7	1	4	0.48	0.79	6	31	51	2	56	87E	2	52	88E	62
71	8	3	5	0.49	0.99	7	59	39	2	64	58E	2	59	62E	81
71	8	5	9	0.89	1.78	8	4	36	2	44	68E	2	35	71E	145
71	8	7	6	0.59	1.19	8	8	25	2	29	72E	2	24	73E	91
72	3	1	14	1.39	2.77	9	27	52	2	78	28E	2	55	42E	243
72	3	5	6	0.59	1.19	9	32	28	2	52	43E	2	47	45E	95
73	4	3	6	0.59	1.19	11	2	43	2	51	21E	2	46	23E	88
74	6	3	3	0.38	0.59	12	37	21	2	32	3E	2	29	4E	51
74	6	4	5	0.49	0.99	12	38	48	2	26	4E	2	22	5E	78
77	2	3	14	1.39	2.77	17	16	6	3	4	59W	3	28	57W	245
79	3	8	2	0.28	0.48	28	4	26	2	41	111W	2	39	118W	36
84	4	3	12	1.19	2.38	3	27	22	2	66	122E	2	54	131E	288
85	3	3	6	0.59	1.19	5	8	34	2	53	188E	2	48	118E	98
86	3	5	5	0.49	0.99	6	38	15	2	54	86E	2	49	88E	86
86	3	7	6	0.59	1.19	6	32	43	2	44	89E	2	39	98E	88
87	3	1	18	0.99	1.98	7	56	12	2	69	51E	2	59	68E	178
87	3	4	6	0.59	1.19	8	8	38	2	52	64E	2	47	66E	95
87	3	7	3	0.38	0.59	8	2	49	2	43	67E	2	41	67E	46

NOTE - OPERATION 4-3-3 DID NOT COVER THE EXACT LATITUDE RANGE AS PROGRAMMED PRE-FLIGHT DUE TO A SLIGHT DISCREPANCY BETWEEN THE H-TIMER PERIOD AND THE ORBIT PERIOD

NOTE - OPERATION 5-3-7 DID NOT COVER THE EXACT LATITUDE RANGE AS PROGRAMMED PRE-FLIGHT DUE TO A STATION COMMANDING ERROR WHICH RESULTED IN THE H-TIMER BEING BIASED

NOTE - OPERATION 87-3-7 ACTUALLY CONSISTED OF 5 MORE FRAMES FOR

THE FWD PAN CAMERA AND 6 MORE FOR THE AFT PAN CAMERA THAN WAS REPORTED. THESE FRAMES WILL BE INCLUDED IN THE B MISSION RECOVERY BUCKET.

NOTE - T/M DATA INDICATED NORMAL CAMERA SYSTEM PERFORMANCE DURING THE ENTIRE A MISSION.

- A. 1042-1
- B. DRY
- C. PERFORMANCE ESTIMATE - PART TWO

RATE ESTIMATE

FWD PAN CAMERA NUMBER 204

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG-VEL	SCAN R/SEC	RATE I/SEC	PCT CALIB	RATE REQD		
1	4	0	14	6	5 ON	1330	0.3987	0.03297	2.455	58.92	-1.3	1.4
					OFF	38	0.3969	0.03349	2.494	59.85	-1.3	1.2
4	3	3	32	6	5 ON	1146	0.3589	0.03028	2.255	54.12	-1.3	0.5
					OFF	88	0.3747	0.03162	2.354	56.51	-1.3	0.7
5	3	7	21	6	4 ON	1293	0.3908	0.03297	2.455	58.93	-1.3	-0.1
					OFF	55	0.4015	0.03388	2.523	60.55	-1.3	0.2
6	6	1	15	6	4 ON	1492	0.4259	0.03594	2.676	64.23	-1.3	0.3
					OFF	35	0.4312	0.03638	2.709	65.02	-1.3	0.3
6	6	2	99	6	4 ON	1768	0.4457	0.03760	2.800	67.20	-1.3	-2.6
					OFF	222	0.4460	0.03763	2.802	67.26	-1.3	-3.4
7	7	4	41	6	4 ON	1361	0.4038	0.03407	2.537	60.89	-1.3	-0.3
					OFF	99	0.4211	0.03553	2.646	63.50	-1.3	-0.1
8	5	3	47	6	4 ON	1159	0.3635	0.03067	2.204	54.81	-1.3	-1.9
					OFF	125	0.3892	0.03204	2.445	58.68	-1.3	-0.8
9	6	0	11	6	4 ON	47	0.2371	0.02001	1.490	35.76	-1.3	-0.4
					OFF	47	0.2300	0.02000	1.495	35.88	-1.3	-1.3
9	6	2	8	6	4 ON	1251	0.3825	0.03228	2.403	57.68	-1.3	-0.3
					OFF	23	0.3873	0.03268	2.434	58.41	-1.3	-0.1
9	6	3	10	6	4 ON	1329	0.3978	0.03356	2.499	59.98	-1.3	0.1
					OFF	26	0.4027	0.03398	2.530	60.73	-1.3	0.3
9	6	5	60	6	4 ON	1611	0.4419	0.03729	2.777	66.64	-1.3	0.0
					OFF	138	0.4455	0.03759	2.799	67.18	-1.3	-2.6
9	6	7	32	6	4 ON	2119	0.4449	0.03754	2.795	67.00	-1.3	-2.6
					OFF	74	0.4431	0.03739	2.784	66.82	-1.3	-1.3
10	1	3	11	6	4 ON	1694	0.4449	0.03754	2.795	67.00	-1.3	-2.3
					OFF	27	0.4452	0.03756	2.797	67.13	-1.3	-2.8
11	9	1	9	6	4 ON	1713	0.4451	0.03756	2.797	67.12	-1.3	-2.9
					OFF	22	0.4453	0.03758	2.798	67.16	-1.3	-3.3
13	7	1	100	6	3 ON	2174	0.4473	0.03774	2.811	67.45	-1.1	-0.4
					OFF	226	0.4241	0.03578	2.665	63.95	-1.1	2.6
14	1	1	27	6	3 ON	1571	0.4459	0.03763	2.802	67.24	-1.1	0.9
					OFF	62	0.4472	0.03773	2.810	67.44	-1.1	-0.6
16	1	1	8	6	3 ON	1004	0.3336	0.02815	2.096	50.31	-1.1	-4.3
					OFF	27	0.3386	0.02857	2.128	51.06	-1.1	-4.1
16	3	0	12	6	3 ON	1575	0.4460	0.03763	2.802	67.26	-1.1	0.0
					OFF	28	0.4466	0.03769	2.806	67.35	-1.1	0.1
21	3	8	49	6	3 ON	1512	0.4424	0.03733	2.780	66.72	-1.1	1.9
					OFF	111	0.4470	0.03772	2.809	67.41	-1.1	-0.4
22	6	2	25	6	3 ON	1818	0.4493	0.03791	2.823	67.75	-1.1	-3.5
					OFF	56	0.4495	0.03793	2.824	67.78	-1.1	-3.0
23	3	3	30	6	3 ON	1250	0.3882	0.03276	2.439	58.55	-1.1	-0.6
					OFF	77	0.4060	0.03426	2.551	61.23	-1.1	0.5

23	3	6	44	6	3 ON	1460	0.4331	0.03654	2.721	65.31	-1.1	1.7
					OFF	100	0.4457	0.03760	2.800	67.20	-1.1	1.1
24	8	5	15	6	3 ON	1230	0.3837	0.03237	2.411	57.85	-1.1	-0.9
					OFF	44	0.3940	0.03325	2.476	59.41	-1.1	-0.2
25	9	1	51	6	3 ON	1271	0.3931	0.03317	2.470	59.28	-1.1	-0.3
					OFF	127	0.4210	0.03552	2.645	63.49	-1.1	1.2
25	9	5	68	6	3 ON	1695	0.4482	0.03782	2.816	67.58	-1.1	-1.8
					OFF	152	0.4494	0.03792	2.824	67.77	-1.1	-3.6
26	2	4	17	6	3 ON	1859	0.4495	0.03793	2.824	67.78	-1.1	-3.7
					OFF	39	0.4495	0.03793	2.825	67.79	-1.1	-3.8
29	2	5	43	6	3 ON	2322	0.4390	0.03704	2.758	66.19	-1.1	2.3
					OFF	102	0.4193	0.03538	2.635	63.23	-1.1	2.0
30	7	2	13	6	3 ON	1674	0.4479	0.03779	2.814	67.54	-1.1	-1.4
					OFF	31	0.4483	0.03783	2.817	67.60	-1.1	-2.0
30	7	9	40	6	3 ON	2009	0.3338	0.02816	2.097	50.33	-1.1	-0.5
					OFF	123	0.3116	0.02629	1.958	46.99	-1.1	-0.6
36	7	5	44	6	3 ON	1437	0.4207	0.03617	2.694	64.65	-1.1	2.7
					OFF	102	0.4451	0.03756	2.797	67.13	-1.1	2.0
37	3	4	31	6	3 ON	1227	0.3861	0.03258	2.426	58.22	-0.3	-1.1
					OFF	79	0.4047	0.03415	2.543	61.03	-0.3	0.2
37	3	5	49	6	3 ON	1332	0.4104	0.03463	2.578	61.88	-0.3	0.6
					OFF	117	0.4349	0.03669	2.732	65.58	-0.3	1.0
37	3	6	45	6	3 ON	1531	0.4486	0.03785	2.819	67.65	-0.3	2.2
					OFF	101	0.4509	0.03804	2.833	67.99	-0.3	-0.1
38	3	3	30	6	3 ON	1214	0.3830	0.03232	2.407	57.76	-0.3	-1.4
					OFF	78	0.4015	0.03388	2.523	60.55	-0.3	0.0
39	9	5	127	6	3 ON	1436	0.4320	0.03645	2.715	65.15	-0.3	2.2
					OFF	204	0.4522	0.03816	2.841	68.19	-0.3	-1.4
40	8	5	30	6	3 ON	1283	0.3992	0.03369	2.509	60.21	-0.3	1.5
					OFF	76	0.4164	0.03513	2.616	62.79	-0.3	2.5
41	6	2	35	6	3 ON	1736	0.4524	0.03817	2.842	68.22	-0.3	-1.6
					OFF	80	0.4530	0.03822	2.846	68.31	-0.3	-2.5
45	2	3	100	6	3 ON	2316	0.4437	0.03744	2.780	66.91	-0.3	2.9
					OFF	259	0.3809	0.03282	2.444	58.65	-0.3	1.5
48	3	0	16	6	3 ON	1748	0.4525	0.03818	2.843	68.24	-0.3	-1.6
					OFF	37	0.4528	0.03821	2.845	68.28	-0.3	-2.1
52	7	4	11	6	3 ON	1306	0.4045	0.03413	2.541	60.99	-0.3	0.7
					OFF	28	0.4109	0.03467	2.581	61.95	-0.3	1.1
53	7	2	42	6	3 ON	1455	0.4358	0.03670	2.730	65.72	-0.3	2.4
					OFF	95	0.4491	0.03790	2.822	67.73	-0.3	2.3
53	7	3	16	6	3 ON	1637	0.4510	0.03805	2.834	68.00	-0.3	0.4
					OFF	36	0.4516	0.03810	2.837	68.10	-0.3	-0.3
53	7	6	41	6	3 ON	2607	0.3812	0.03216	2.395	57.40	-0.3	1.0
					OFF	113	0.3534	0.02902	2.221	53.29	-0.3	-0.5
55	9	2	43	6	3 ON	1261	0.3944	0.03320	2.470	59.47	-0.2	-0.0
					OFF	107	0.4106	0.03532	2.630	63.12	-0.2	1.6
55	9	5	96	6	3 ON	1584	0.4502	0.03799	2.829	67.09	-0.2	1.6
					OFF	213	0.4532	0.03824	2.840	68.35	-0.2	-2.0
56	9	1	56	6	3 ON	1194	0.3784	0.03193	2.377	57.06	-0.2	-1.4
					OFF	144	0.4120	0.03477	2.509	62.13	-0.2	1.2
57	9	1	81	6	3 ON	1381	0.4212	0.03554	2.646	63.51	-0.2	1.7

			OFF	187	0.4499	0.83796	2.827	67.84	-0.2	2.8		
57	9	4	27	6	3 ON	1798	0.4532	0.83824	2.848	68.35	-0.2	-2.8
			OFF	61	0.4535	0.83827	2.858	68.39	-0.2	-2.5		
57	9	6	71	6	3 ON	2381	0.4318	0.83644	2.713	65.12	-0.2	2.6
			OFF	173	0.3948	0.83325	2.476	59.42	-0.2	1.5		
58	2	3	55	6	3 ON	1864	0.4536	0.83827	2.858	68.39	-0.2	-2.5
			OFF	122	0.4534	0.83826	2.849	68.37	-0.2	-2.4		
59	1	2	25	6	3 ON	1912	0.4536	0.83827	2.858	68.48	-0.2	-2.6
			OFF	56	0.4535	0.83826	2.849	68.39	-0.2	-2.5		
63	4	8	18	6	3 ON	1786	0.4532	0.83824	2.847	68.34	-0.2	-1.9
			OFF	23	0.4533	0.83825	2.848	68.36	-0.2	-2.1		
68	5	3	14	6	3 ON	1353	0.4153	0.83584	2.689	62.62	-0.2	1.1
			OFF	35	0.4228	0.83567	2.656	63.75	-0.2	1.6		
69	7	3	18	6	3 ON	1525	0.4487	0.83786	2.819	67.66	-0.2	2.9
			OFF	25	0.4495	0.83792	2.824	67.78	-0.2	2.3		
69	7	4	25	6	3 ON	1636	0.4513	0.83888	2.836	68.85	-0.2	0.5
			OFF	56	0.4522	0.83816	2.841	68.19	-0.2	-0.6		
69	7	7	34	6	3 ON	2676	0.3647	0.83877	2.291	54.99	-0.2	-0.3
			OFF	97	0.3435	0.82899	2.159	51.81	-0.2	-1.8		
78	7	1	21	6	3 ON	1465	0.4388	0.83696	2.752	66.85	-0.2	2.4
			OFF	49	0.4468	0.83778	2.888	67.38	-0.2	2.8		
71	8	3	27	6	3 ON	1313	0.4847	0.83414	2.543	61.82	-0.7	-1.1
			OFF	68	0.4195	0.83548	2.636	63.26	-0.7	0.8		
71	8	5	59	6	3 ON	1618	0.4488	0.83787	2.828	67.67	-0.7	-0.2
			OFF	132	0.4587	0.83883	2.832	67.97	-0.7	-2.2		
71	8	7	35	6	3 ON	1839	0.4514	0.83889	2.836	68.87	-0.7	-3.8
			OFF	78	0.4516	0.83818	2.837	68.89	-0.7	-3.1		
72	3	1	95	6	3 ON	1247	0.3893	0.83285	2.446	58.71	-0.7	-1.2
			OFF	238	0.4383	0.83698	2.754	66.89	-0.7	2.2		
72	3	5	36	6	3 ON	1523	0.4463	0.83766	2.884	67.38	-0.7	2.5
			OFF	82	0.4487	0.83786	2.819	67.66	-0.7	0.7		
73	4	3	33	6	3 ON	1546	0.4473	0.83774	2.811	67.45	-0.7	2.8
			OFF	75	0.4498	0.83789	2.821	67.71	-0.7	0.3		
74	6	3	17	6	3 ON	1835	0.4514	0.83889	2.836	68.87	-0.7	-2.7
			OFF	38	0.4515	0.83818	2.837	68.89	-0.7	-3.8		
74	6	4	29	6	3 ON	1915	0.4516	0.83818	2.837	68.89	-0.7	-3.1
			OFF	65	0.4514	0.83889	2.836	68.87	-0.7	-3.8		
77	2	3	94	6	3 ON	2391	0.4288	0.83611	2.689	64.54	-0.7	1.6
			OFF	232	0.3759	0.83172	2.362	56.68	-0.7	-0.5		
79	3	8	18	6	3 ON	1714	0.4584	0.83881	2.838	67.92	-0.7	-1.2
			OFF	23	0.4587	0.83883	2.832	67.96	-0.7	-1.6		
84	4	3	79	6	3 ON	1343	0.4113	0.83478	2.584	62.82	-0.7	0.4
			OFF	187	0.4469	0.83771	2.888	67.39	-0.7	2.4		
85	3	3	34	6	3 ON	1546	0.4473	0.83774	2.811	67.45	-0.7	2.8
			OFF	77	0.4498	0.83789	2.821	67.71	-0.7	0.4		
86	3	5	32	6	3 ON	1538	0.4471	0.83773	2.889	67.42	-0.7	2.2
			OFF	73	0.4488	0.83787	2.828	67.68	-0.7	0.6		
86	3	7	33	6	3 ON	1686	0.4581	0.83798	2.828	67.87	-0.7	-0.8
			OFF	75	0.4589	0.83885	2.833	68.88	-0.7	-1.9		
87	3	1	65	6	3 ON	1387	0.4831	0.83481	2.533	68.79	-0.7	-0.3
			OFF	157	0.4358	0.83677	2.738	65.72	-0.7	1.9		

87	3	4	36	6	3	ON	1565	0.4478	0.03778	2.813	67.52	-0.7	1.6
						OFF	82	0.4495	0.03792	2.824	67.78	-0.7	-0.1
87	3	7	14	6	3	ON	1703	0.4503	0.03799	2.829	67.90	-0.7	-1.0
						OFF	33	0.4507	0.03803	2.832	67.96	-0.7	-1.5

RATE ESTIMATE

AFT PAN CAMERA NUMBER 205

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG-VEL	SCAN R/SEC	RATE I/SEC	PCT CALIB	RATE REQD		
1	4	0	14	6	5 ON	1343	0.3902	0.03293	2.452	58.85	-1.4	0.7
					OFF	38	0.3964	0.03345	2.491	59.77	-1.4	0.5
4	3	3	32	6	5 ON	1159	0.3507	0.03027	2.254	54.09	-1.4	-0.2
					OFF	88	0.3744	0.03159	2.352	56.45	-1.4	-0.0
5	3	7	21	6	4 ON	1306	0.3903	0.03293	2.452	58.86	-1.4	-0.8
					OFF	55	0.4010	0.03383	2.519	60.46	-1.4	-0.5
6	6	1	14	6	4 ON	1505	0.4252	0.03588	2.672	64.12	-1.4	-0.3
					OFF	35	0.4304	0.03632	2.704	64.90	-1.4	-0.3
6	6	2	99	6	4 ON	1781	0.4455	0.03759	2.799	67.18	-1.4	-2.0
					OFF	222	0.4459	0.03762	2.802	67.24	-1.4	-3.3
7	7	4	41	6	4 ON	1374	0.4032	0.03402	2.534	60.81	-1.4	-1.0
					OFF	99	0.4204	0.03547	2.641	63.40	-1.4	-0.7
8	5	3	46	6	4 ON	1172	0.3632	0.03065	2.282	54.77	-1.4	-2.7
					OFF	125	0.3887	0.03200	2.442	58.62	-1.4	-1.5
9	6	0	11	6	4 ON	66	0.2377	0.02006	1.493	35.84	-1.4	-0.6
					OFF	47	0.2385	0.02013	1.499	35.97	-1.4	-1.5
9	6	2	8	6	4 ON	1264	0.3821	0.03224	2.401	57.62	-1.4	-1.0
					OFF	23	0.3869	0.03265	2.431	58.34	-1.4	-0.8
9	6	3	10	6	4 ON	1342	0.3973	0.03352	2.496	59.91	-1.4	-0.6
					OFF	26	0.4022	0.03393	2.527	60.65	-1.4	-0.4
9	6	5	60	6	4 ON	1624	0.4411	0.03722	2.771	66.52	-1.4	-0.6
					OFF	138	0.4453	0.03758	2.798	67.16	-1.4	-2.9
9	6	7	32	6	4 ON	2132	0.4447	0.03753	2.794	67.06	-1.4	-2.3
					OFF	74	0.4422	0.03732	2.779	66.69	-1.4	-1.1
10	1	3	12	6	4 ON	1707	0.4447	0.03752	2.794	67.06	-1.4	-2.6
					OFF	27	0.4451	0.03755	2.796	67.11	-1.4	-3.0
11	9	1	9	6	4 ON	1726	0.4450	0.03754	2.796	67.10	-1.4	-3.2
					OFF	22	0.4452	0.03757	2.797	67.14	-1.4	-3.5
13	7	1	99	6	3 ON	2187	0.4440	0.03747	2.790	66.96	-1.9	-0.8
					OFF	226	0.4204	0.03547	2.642	63.40	-1.9	2.3
14	1	1	27	6	3 ON	1504	0.4427	0.03735	2.781	66.75	-1.9	-0.3
					OFF	62	0.4439	0.03746	2.789	66.94	-1.9	-1.7
16	1	1	8	6	3 ON	1017	0.3313	0.02795	2.001	49.95	-1.9	-5.7
					OFF	27	0.3362	0.02836	2.112	50.69	-1.9	-5.5
16	3	0	11	6	3 ON	1508	0.4428	0.03736	2.782	66.77	-1.9	-0.4
					OFF	28	0.4434	0.03741	2.786	66.86	-1.9	-1.0
21	3	8	49	6	3 ON	1525	0.4385	0.03700	2.755	66.13	-1.9	0.6
					OFF	111	0.4438	0.03744	2.788	66.92	-1.9	-1.5
22	6	2	24	6	3 ON	1031	0.4460	0.03763	2.802	67.26	-1.9	-4.4
					OFF	56	0.4462	0.03765	2.804	67.29	-1.9	-4.6
23	3	3	30	6	3 ON	1263	0.3851	0.03249	2.420	58.07	-1.9	-2.1

				OFF	77	0.4026	0.03397	2.530	60.72	-1.9	-0.9	
23	3	6	43	6	3 ON	1473	0.4293	0.03622	2.697	64.74	-1.9	0.3
					OFF	100	0.4424	0.03733	2.780	66.71	-1.9	-0.0
24	8	5	16	6	3 ON	1243	0.3806	0.03211	2.391	57.39	-1.9	-2.4
					OFF	44	0.3908	0.03297	2.455	58.93	-1.9	-1.6
25	9	1	51	6	3 ON	1284	0.3899	0.03290	2.450	58.80	-1.9	-1.7
					OFF	127	0.4174	0.03522	2.623	62.94	-1.9	-0.1
25	9	5	68	6	3 ON	1700	0.4449	0.03754	2.795	67.09	-1.9	-2.8
					OFF	152	0.4461	0.03764	2.803	67.28	-1.9	-4.5
26	2	4	17	6	3 ON	1872	0.4462	0.03765	2.803	67.28	-1.9	-4.5
					OFF	39	0.4462	0.03765	2.804	67.29	-1.9	-4.6
29	2	5	42	6	3 ON	2335	0.4351	0.03671	2.734	65.61	-1.9	1.9
					OFF	102	0.4157	0.03500	2.612	62.69	-1.9	1.0
30	7	2	13	6	3 ON	1687	0.4446	0.03751	2.793	67.04	-1.9	-2.5
					OFF	31	0.4450	0.03755	2.796	67.11	-1.9	-3.0
30	7	9	39	6	3 ON	2822	0.3314	0.02796	2.082	49.97	-1.9	-0.5
					OFF	123	0.3095	0.02611	1.945	46.67	-1.9	-0.6
36	7	5	43	6	3 ON	1450	0.4250	0.03586	2.670	64.09	-1.9	1.4
					OFF	102	0.4419	0.03729	2.777	66.64	-1.9	1.6
37	3	4	30	6	3 ON	1240	0.3828	0.03230	2.405	57.72	-1.1	-2.6
					OFF	79	0.4011	0.03385	2.520	60.49	-1.1	-1.2
37	3	5	48	6	3 ON	1345	0.4067	0.03432	2.555	61.33	-1.1	-0.9
					OFF	117	0.4300	0.03635	2.707	64.97	-1.1	0.5
37	3	6	44	6	3 ON	1544	0.4450	0.03755	2.796	67.10	-1.1	1.0
					OFF	101	0.4473	0.03775	2.811	67.46	-1.1	-1.2
38	3	3	30	6	3 ON	1227	0.3790	0.03204	2.306	57.27	-1.1	-2.9
					OFF	78	0.3900	0.03358	2.501	60.02	-1.1	-1.5
39	9	5	126	6	3 ON	1449	0.4200	0.03612	2.690	64.55	-1.1	0.0
					OFF	284	0.4486	0.03786	2.819	67.65	-1.1	-2.4
40	8	5	30	6	3 ON	1296	0.3957	0.03339	2.487	59.60	-1.1	0.0
					OFF	76	0.4126	0.03482	2.593	62.22	-1.1	1.1
41	6	2	35	6	3 ON	1749	0.4400	0.03787	2.820	67.60	-1.1	-2.6
					OFF	00	0.4494	0.03792	2.824	67.77	-1.1	-3.5
45	2	3	106	6	3 ON	2329	0.4395	0.03709	2.762	66.20	-1.1	2.4
					OFF	259	0.3856	0.03253	2.423	58.14	-1.1	1.3
48	3	0	16	6	3 ON	1761	0.4409	0.03780	2.821	67.70	-1.1	-2.7
					OFF	37	0.4493	0.03791	2.823	67.75	-1.1	-3.1
52	7	4	11	6	3 ON	1319	0.4009	0.03383	2.519	60.45	-1.1	-0.0
					OFF	28	0.4072	0.03436	2.550	61.40	-1.1	-0.3
53	7	2	41	6	3 ON	1468	0.4318	0.03643	2.713	65.11	-1.1	1.1
					OFF	95	0.4456	0.03760	2.800	67.20	-1.1	1.2
53	7	3	15	6	3 ON	1650	0.4474	0.03775	2.811	67.47	-1.1	-0.7
					OFF	36	0.4400	0.03700	2.815	67.56	-1.1	-1.4
53	7	6	40	6	3 ON	2620	0.3779	0.03109	2.375	56.99	-1.1	0.0
					OFF	113	0.3506	0.02950	2.203	52.06	-1.1	-0.6
55	9	2	43	6	3 ON	1274	0.3850	0.03255	2.424	58.17	-2.3	-2.0
					OFF	107	0.4093	0.03454	2.572	61.72	-2.3	-1.1
55	9	5	95	6	3 ON	1597	0.4400	0.03719	2.770	66.47	-2.3	-0.0
					OFF	213	0.4437	0.03744	2.700	66.91	-2.3	-4.4
56	9	1	56	6	3 ON	1207	0.3702	0.03124	2.326	55.02	-2.3	-4.2
					OFF	144	0.4029	0.03400	2.532	60.76	-2.3	-1.5

57	9	1	88	6	3 ON	1394	0.4118	0.03475	2.587	62.10	-2.3	-1.0
					OFF	187	0.4404	0.03716	2.767	66.42	-2.3	-0.5
57	9	4	27	6	3 ON	1811	0.4437	0.03744	2.788	66.91	-2.3	-4.3
					OFF	61	0.4440	0.03746	2.792	66.95	-2.3	-4.7
57	9	6	70	6	3 ON	2394	0.4222	0.03562	2.653	63.66	-2.3	0.9
					OFF	173	0.3854	0.03252	2.422	58.12	-2.3	-0.1
58	2	3	54	6	3 ON	1877	0.4440	0.03746	2.790	66.96	-2.3	-4.8
					OFF	122	0.4439	0.03745	2.789	66.94	-2.3	-4.5
59	1	2	24	6	3 ON	1925	0.4441	0.03747	2.790	66.96	-2.3	-4.8
					OFF	56	0.4440	0.03746	2.789	66.95	-2.3	-4.7
63	4	0	10	6	3 ON	1799	0.4436	0.03743	2.787	66.90	-2.3	-4.2
					OFF	23	0.4438	0.03745	2.788	66.92	-2.3	-4.4
68	5	3	13	6	3 ON	1366	0.4061	0.03426	2.551	61.23	-2.3	-1.6
					OFF	35	0.4134	0.03408	2.597	62.33	-2.3	-1.1
69	7	3	10	6	3 ON	1538	0.4385	0.03700	2.755	66.13	-2.3	0.2
					OFF	25	0.4400	0.03713	2.765	66.35	-2.3	-0.1
69	7	4	24	6	3 ON	1649	0.4418	0.03728	2.776	66.62	-2.3	-2.0
					OFF	56	0.4427	0.03735	2.781	66.76	-2.3	-3.0
69	7	7	33	6	3 ON	2689	0.3569	0.03011	2.242	53.82	-2.3	-1.0
					OFF	97	0.3363	0.02838	2.113	50.72	-2.3	-2.5
70	7	1	20	6	3 ON	1478	0.4282	0.03613	2.690	64.57	-2.3	-0.2
					OFF	49	0.4368	0.03685	2.744	65.86	-2.3	0.2
71	8	3	27	6	3 ON	1326	0.4018	0.03390	2.524	60.59	-1.3	-2.3
					OFF	68	0.4164	0.03514	2.617	62.00	-1.3	-1.2
71	8	5	59	6	3 ON	1623	0.4460	0.03764	2.803	67.26	-1.3	-1.1
					OFF	132	0.4400	0.03700	2.815	67.56	-1.3	-3.0
71	8	7	34	6	3 ON	1852	0.4407	0.03706	2.819	67.66	-1.3	-3.7
					OFF	78	0.4400	0.03707	2.820	67.68	-1.3	-3.7
72	3	1	95	6	3 ON	1260	0.3067	0.03263	2.429	58.31	-1.3	-2.4
					OFF	230	0.4350	0.03670	2.733	65.59	-1.3	1.0
72	3	5	36	6	3 ON	1536	0.4429	0.03737	2.783	66.79	-1.3	1.3
					OFF	82	0.4460	0.03763	2.802	67.25	-1.3	-0.2
73	4	3	33	6	3 ON	1559	0.4446	0.03751	2.794	67.04	-1.3	1.0
					OFF	75	0.4463	0.03765	2.804	67.29	-1.3	-0.6
74	6	3	16	6	3 ON	1840	0.4407	0.03706	2.819	67.66	-1.3	-3.5
					OFF	38	0.4400	0.03707	2.820	67.67	-1.3	-3.6
74	6	4	20	6	3 ON	1928	0.4400	0.03707	2.820	67.68	-1.3	-3.7
					OFF	65	0.4407	0.03706	2.819	67.65	-1.3	-3.5
77	2	3	91	6	3 ON	2404	0.4240	0.03504	2.669	64.06	-1.3	1.4
					OFF	232	0.3734	0.03151	2.346	56.31	-1.3	-0.4
79	3	0	10	6	3 ON	1727	0.4477	0.03777	2.813	67.51	-1.3	-2.1
					OFF	23	0.4479	0.03700	2.815	67.55	-1.3	-2.4
84	4	3	79	6	3 ON	1356	0.4000	0.03445	2.566	61.57	-1.3	-0.8
					OFF	187	0.4440	0.03747	2.790	66.96	-1.3	1.4
85	3	3	34	6	3 ON	1559	0.4446	0.03752	2.794	67.05	-1.3	1.1
					OFF	77	0.4463	0.03766	2.804	67.30	-1.3	-0.5
86	3	5	32	6	3 ON	1551	0.4444	0.03750	2.792	67.02	-1.3	1.2
					OFF	73	0.4461	0.03764	2.803	67.27	-1.3	-0.3
86	3	7	33	6	3 ON	1699	0.4473	0.03774	2.811	67.45	-1.3	-1.7
					OFF	75	0.4400	0.03707	2.816	67.58	-1.3	-2.7
87	3	1	65	6	3 ON	1320	0.4000	0.03377	2.515	60.36	-1.3	-1.6

				OFF	157	0.4325	0.83649	2.718	65.22	-1.3	0.8
87	3	4	36	3 ON	1578	0.4451	0.83755	2.796	67.11	-1.3	0.6
				OFF	82	0.4467	0.83769	2.887	67.36	-1.3	-1.8
87	3	7	14	3 ON	1716	0.4475	0.83776	2.812	67.49	-1.3	-1.9
				OFF	33	0.4479	0.83788	2.814	67.55	-1.3	-2.4

RAMP PROFILE

R= 6 A= 3 PERIOD= 3825
R= 0.3468 A= 0.1110

TUR	PER	CPS	ANG-V
0	4.474	0.2235	0.82822
100	4.445	0.2250	0.82835
200	4.366	0.2291	0.82872
300	4.243	0.2357	0.82132
400	4.086	0.2447	0.82214
500	3.986	0.2560	0.82315
600	3.713	0.2693	0.82436
700	3.517	0.2843	0.82571
800	3.325	0.3008	0.82720
900	3.141	0.3183	0.82879
1000	2.971	0.3366	0.83045
1100	2.810	0.3559	0.83219
1200	2.628	0.3806	0.83442
1300	2.474	0.4042	0.83656
1400	2.347	0.4261	0.83854
1500	2.246	0.4453	0.84027
1600	2.214	0.4516	0.84085
1700	2.206	0.4533	0.84100
1800	2.201	0.4543	0.84109
1900	2.200	0.4546	0.84112
2000	2.201	0.4544	0.84110
2100	2.205	0.4535	0.84102
2200	2.213	0.4519	0.84087
2300	2.233	0.4479	0.84051
2400	2.330	0.4291	0.83881
2500	2.453	0.4077	0.83687
2600	2.603	0.3842	0.83475
2700	2.780	0.3597	0.83253
2800	2.946	0.3394	0.83070
2900	3.115	0.3210	0.82904
3000	3.297	0.3033	0.82744
3100	3.488	0.2867	0.82593
3200	3.684	0.2714	0.82455
3300	3.878	0.2579	0.82332
3400	4.060	0.2463	0.82228
3500	4.221	0.2369	0.82143
3600	4.358	0.2299	0.82079
3700	4.436	0.2254	0.82039
3800	4.473	0.2236	0.82022

RAMP PROFILE

R= 6 A= 4 PERIOD= 3825

R= 0.3468 A= 0.0986

TUR	PER	CPS	ANG-V
0	4.166	0.2400	0.02171
100	4.144	0.2413	0.02182
200	4.084	0.2449	0.02215
300	3.989	0.2507	0.02267
400	3.868	0.2586	0.02339
500	3.726	0.2684	0.02428
600	3.571	0.2800	0.02532
700	3.412	0.2931	0.02651
800	3.252	0.3075	0.02781
900	3.098	0.3228	0.02919
1000	2.952	0.3387	0.03064
1100	2.812	0.3556	0.03216
1200	2.653	0.3769	0.03409
1300	2.516	0.3974	0.03594
1400	2.402	0.4163	0.03765
1500	2.310	0.4329	0.03915
1600	2.239	0.4466	0.04039
1700	2.217	0.4510	0.04079
1800	2.213	0.4519	0.04088
1900	2.211	0.4523	0.04091
2000	2.212	0.4520	0.04088
2100	2.217	0.4512	0.04088
2200	2.230	0.4484	0.04055
2300	2.298	0.4352	0.03936
2400	2.387	0.4190	0.03789
2500	2.498	0.4004	0.03621
2600	2.631	0.3801	0.03437
2700	2.787	0.3588	0.03245
2800	2.931	0.3412	0.03086
2900	3.076	0.3251	0.02941
3000	3.229	0.3097	0.02801
3100	3.388	0.2952	0.02670
3200	3.548	0.2819	0.02549
3300	3.703	0.2700	0.02442
3400	3.847	0.2599	0.02351
3500	3.973	0.2517	0.02277
3600	4.072	0.2456	0.02221
3700	4.137	0.2417	0.02186
3800	4.165	0.2401	0.02171

RAMP PROFILE

R= 6 A= 5 PERIOD= 3825

R= 0.3468 A= 0.0857

TUR	PER	CPS	ANG-V
0	3.896	0.2567	0.02322
100	3.879	0.2578	0.02331
200	3.834	0.2608	0.02359

30	3.763	0.2658	0.02484
30	3.678	0.2725	0.02465
30	3.568	0.2889	0.02541
00	3.439	0.2988	0.02638
00	3.312	0.3028	0.02731
00	3.182	0.3142	0.02842
00	3.055	0.3273	0.02968
00	2.933	0.3409	0.03083
00	2.815	0.3552	0.03213
00	2.678	0.3735	0.03378
00	2.558	0.3918	0.03536
00	2.456	0.4071	0.03682
00	2.374	0.4213	0.03818
00	2.318	0.4329	0.03916
00	2.264	0.4417	0.03995
00	2.236	0.4472	0.04045
00	2.226	0.4492	0.04063
00	2.234	0.4477	0.04049
00	2.259	0.4427	0.04084
00	2.302	0.4344	0.03929
00	2.363	0.4232	0.03827
00	2.443	0.4094	0.03782
00	2.541	0.3935	0.03559
00	2.659	0.3761	0.03482
00	2.793	0.3588	0.03238
00	2.916	0.3438	0.03182
00	3.037	0.3293	0.02978
00	3.163	0.3161	0.02859
00	3.292	0.3037	0.02747
00	3.428	0.2924	0.02645
00	3.542	0.2823	0.02553
00	3.654	0.2737	0.02475
00	3.758	0.2667	0.02412
00	3.825	0.2614	0.02365
00	3.874	0.2581	0.02334
00	3.895	0.2567	0.02322

LOCK CORRELATION SUMMARY
ORDER FIT ONE

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.33848756D 05	0.478276367D 06	0.338487484D 05	0.0076	8	
0.77886913D 05	0.515122526D 06	0.778869188D 05	-0.0050	16	
0.33881793D 05	0.197664818D 05	0.338817947D 05	-0.0017	24	
0.77871346D 05	0.646368258D 05	0.778713492D 05	-0.0032	32	
0.32948565D 05	0.186185231D 06	0.329485649D 05	0.0081	40	
0.77823615D 05	0.150988278D 06	0.778236144D 05	0.0086	48	
0.32853472D 05	0.192418117D 06	0.328534711D 05	0.0089	56	
0.72375518D 05	0.231948148D 06	0.723755114D 05	-0.0014	63	
0.38654483D 05	0.284619826D 06	0.386544817D 05	0.0013	73	
0.72226118D 05	0.318198727D 06	0.722261186D 05	-0.0086	74	

0.32765988D 05 0.365130512D 06 0.327659866D 05 0.0014 08
A0=-0.4372357287D 06 A1= 0.100000023428D 01
SIGMA=0.00291 NO. POINTS= 11
RATIO OF CLOCK TIME TO SYS TIME= 0.999999765721D 00

ORDER FIT TWO

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.33040756D 05	0.470276367D 06	0.330407505D 05	0.0055	8	
0.77886913D 05	0.515122526D 06	0.778869180D 05	-0.0058	16	
0.33001793D 05	0.197664810D 05	0.330017945D 05	-0.0015	24	
0.77871346D 05	0.646360250D 05	0.778713483D 05	-0.0023	32	
0.32940565D 05	0.106105231D 06	0.329405637D 05	0.0013	40	
0.77823615D 05	0.150988270D 06	0.778236130D 05	0.0020	48	
0.32853472D 05	0.192418117D 06	0.328534699D 05	0.0021	56	
0.72375510D 05	0.231940148D 06	0.723755105D 05	-0.0005	63	
0.38654403D 05	0.284619026D 06	0.386544017D 05	0.0013	73	
0.72226110D 05	0.318190727D 06	0.722261113D 05	-0.0013	74	
0.32765988D 05	0.365130512D 06	0.327659887D 05	-0.0007	88	

A0=-0.4372356950D 06 A1= 0.100000013181D 01
A2= 0.7466891496662D-13
SIGMA=0.00266 NO. POINTS= 11

CLOCK OPERATIONS

FWD PAN CAMERA NUMBER 204

OPN NO	FR	H	M	S	DEC	BINARY EQUIVALENT	
1 4 0	14	ON	23	4	32	433907	11001110111001110010100111000
		OFF	23	5	10	433945	11001110111010111100110101000
4 3 3	32	ON	3	31	42	449937	11010110100010111111001101000
		OFF	3	33	10	450025	11010110100101101011000101000
5 3 7	21	ON	5	4	53	455528	11011001001101100111001000000
		OFF	5	5	48	455583	11011001001111010010100011000
6 6 1	15	ON	6	38	7	461123	11011011111000010110110111000
		OFF	6	38	42	461158	11011011111001011011001110000
6 6 2	99	ON	6	42	44	461399	11011100000000110001111011000
		OFF	6	46	26	461621	11011100000111100011100001000
7 7 4	41	ON	8	6	1	466397	11011110011001010011101001000
		OFF	8	7	40	466496	11011110011100010101000000000
8 5 3	47	ON	9	32	38	471594	11100000110111111010000010000
		OFF	9	34	43	471719	11100000111011101110001011000
9 6 0	11	ON	10	43	42	475857	11100010111010000000001101000
		OFF	10	44	29	475904	11100010111011011100000000000
9 6 2	8	ON	11	3	46	477061	11100011011110101111110001000
		OFF	11	4	9	477084	11100011011110111001011000000
9 6 3	10	ON	11	5	3	477139	111000111000010010000000111000
		OFF	11	5	29	477165	11100011100001111010111001000
9 6 5	60	ON	11	9	45	477421	11100011101001101110111001000
		OFF	11	12	3	477559	111000111011011111100011011000
9 6 7	32	ON	11	18	13	477929	11100011111001001111000101000
		OFF	11	19	27	478003	11100011111011011111100111000
10 1 3	11	ON	12	41	29	482925	11100110010001101100111001000

11	9	1	9	OFF	12	41	56	482952	11100110010010100001101000000
				ON	14	11	46	488342	11101000110111000000111110000
				OFF	14	12	8	488364	11101000110111101011111100000
13	7	1	100	ON	17	19	23	499598	11101110001110100001010110000
				OFF	17	23	9	499824	11101110010101011010110000000
14	1	1	27	ON	18	39	17	504392	11110000100000110100101000000
				OFF	18	40	19	504454	11110000100010101101101110000
16	1	1	8	ON	21	29	43	514618	11110101011000111001010010000
				OFF	21	30	10	514645	11110101011001101110000001000
16	3	0	12	ON	21	39	14	515189	11110101101010010100100001000
				OFF	21	39	42	515217	11110101101011001011001101000
21	3	0	49	ON	5	7	58	5243	000000101000000000000001111000
				OFF	5	9	49	5354	00000010100011011001000010000
22	6	2	25	ON	6	43	8	10944	00000101001101111111000000000
				OFF	6	43	56	11000	00000101001111101100011000000
23	3	3	30	ON	8	3	27	15772	00000111100001010100101100000
				OFF	8	4	44	15849	00000111100011101011000101000
23	3	6	44	ON	8	6	57	15982	00000111100111101110110110000
				OFF	8	8	37	16002	00000111101010110010001010000
24	8	5	15	ON	9	33	3	21148	00001010000101011000101100000
				OFF	9	33	47	21192	00001010000110101110101000000
25	9	1	51	ON	11	3	40	26584	00001100101011010001111000000
				OFF	11	5	47	26711	00001100101111001001111011000
25	9	5	68	ON	11	10	44	27000	00001100111000001110000000000
				OFF	11	13	16	27160	00001100111100110110111000000
26	2	4	17	ON	12	43	23	32567	00001111100001110111011011000
				OFF	12	44	2	32606	00001111100011000011100110000
29	2	5	43	ON	17	20	52	49217	000101110111011111110111101000
				OFF	17	22	34	49319	00010111100001000110001011000
30	7	2	13	ON	18	40	0	53964	000110011011101101100111100000
				OFF	18	40	31	53995	00011001101111110010111111000
30	7	9	40	ON	18	58	55	55100	00011010010001100001001100000
				OFF	19	0	58	55223	00011010010101010001011011000
36	7	5	44	ON	3	34	59	86063	00101001000010011011110011000
				OFF	3	36	41	86165	00101001000101100011000001000
37	3	4	31	ON	5	2	13	91298	00101011100010001100011010000
				OFF	5	3	32	91377	00101011100100100110101101000
37	3	5	49	ON	5	3	58	91403	00101011100101011001011111000
				OFF	5	5	55	91520	00101011101000111110000000000
37	3	6	45	ON	5	7	17	91601	00101011101011011100001101000
				OFF	5	8	58	91702	00101011101110100001011110000
38	3	3	30	ON	6	31	56	96600	00101110000110011100001000000
				OFF	6	33	14	96750	001011100001000110100011110000
39	9	5	127	ON	8	5	17	102202	00110000110001011001100010000
				OFF	8	10	1	102566	00110000111010000100001110000
40	8	5	30	ON	9	32	13	107490	00110011010000100101000010000
				OFF	9	33	29	107574	00110011010010111001011110000
41	6	2	35	ON	11	10	4	113360	00110110000011101011110000000
				OFF	11	11	24	113440	00110110000110001010001000000
45	2	3	100	ON	17	19	21	135525	01000000100111111001010001000
				OFF	17	23	40	135704	01000000101111110011001000000

48	3	0	16	ON	21	39	34	151138	01001000000100010111011010000
				OFF	21	40	11	151175	01001000000101011111101011000
52	7	4	11	ON	3	31	42	172267	01010010001001001010111111000
				OFF	3	32	10	172295	01010010001010000001101011000
53	7	2	42	ON	5	4	4	177809	01010100110010010011001101000
				OFF	5	5	39	177904	01010100110101001100110000000
53	7	3	16	ON	5	7	6	177990	01010100110111110100101110000
				OFF	5	7	42	178026	01010100111000111011000010000
53	7	6	41	ON	5	23	16	178961	01010101010101011101001101000
				OFF	5	25	9	179074	01010101011000111001111010000
55	9	2	43	ON	8	0	35	188400	01011001110101100000110000000
				OFF	8	2	22	188507	010110011110001100011011111000
55	9	5	96	ON	8	5	58	188723	010110011111110101111001111000
				OFF	8	9	31	188936	01011010000101110111101000000
56	9	1	56	ON	9	29	21	193725	01011100011000000001001001000
				OFF	9	31	45	193869	01011100011100011010011001000
57	9	1	81	ON	11	2	20	199305	01011111000010010011100101000
				OFF	11	5	27	199492	01011111001000000001101000000
57	9	4	27	ON	11	9	17	199721	01011111001111000000001010000
				OFF	11	10	18	199782	01011111010000110111001110000
57	9	6	71	ON	11	19	0	200305	01011111100000110100101101000
				OFF	11	21	53	200478	01011111100110000110100110000
58	2	3	55	ON	12	40	16	205100	01100001110101100110001100000
				OFF	12	42	18	205302	01100001111001010100011110000
59	1	2	25	ON	14	10	55	210620	01100100011011100111001100000
				OFF	14	11	51	210676	01100100011101010100100100000
63	4	0	10	ON	20	8	15	232060	01101110101001111010001100000
				OFF	20	8	38	232083	01101110101010100111000111000
68	5	3	14	ON	3	30	10	258583	01111011010011010100111011000
				OFF	3	30	53	258618	01111011010100011001010010000
69	7	3	10	ON	5	3	1	264146	01111101111101000110001010000
				OFF	5	3	26	264171	011111011111011011011011111000
69	7	4	25	ON	5	4	52	264257	01111110000000011110111101000
				OFF	5	5	48	264313	01111110000010001100010101000
69	7	7	34	ON	5	22	12	265296	01111110100000001100010000000
				OFF	5	23	49	265393	01111110100011001001101101000
70	7	1	21	ON	6	31	51	269476	10000000011111100000101000000
				OFF	6	32	40	269525	1000000010000101000000001000
71	8	3	27	ON	7	59	39	274744	10000011000000100001011000000
				OFF	8	0	47	274812	10000011000010100110001100000
71	8	5	59	ON	8	4	36	275041	10000011001001100101011101000
				OFF	8	6	48	275173	10000011001101100111010001000
71	8	7	35	ON	8	8	25	275270	10000011010000100100101110000
				OFF	8	9	43	275348	10000011010010111101000100000
72	3	1	95	ON	9	27	52	280036	10000101100010000001010100000
				OFF	9	31	42	280266	10000101101001000010100010000
72	3	5	36	ON	9	32	28	280313	10000101101010011110010101000
				OFF	9	33	50	280395	10000101101100111110011111000
73	4	3	33	ON	11	2	43	285728	10001000001111011101000000000
				OFF	11	3	58	285803	1000100001001000000011111000
74	6	3	17	ON	12	37	21	291406	10001010111101000000010110000

~~SECRET~~

74	6	4	29	OFF	12	37	59	291444	10001010111110001010100100000
				ON	12	38	40	291485	1000101011111011010101001000
				OFF	12	39	45	291550	10001011000001011001100110000
77	2	3	94	ON	17	16	6	300131	10010010111011011010010111000
				OFF	17	19	58	300363	10010011000010011111011111000
79	3	0	10	ON	20	4	26	310231	10010111101111101000111011000
				OFF	20	4	49	310254	10010111110000010101110110000
84	4	3	79	ON	3	27	22	344006	10100100011010101001001110000
				OFF	3	30	29	344993	10100100100000010110011101000
85	3	3	34	ON	5	0	34	350399	10100111000101010101000011000
				OFF	5	1	51	350476	10100111000111101011011100000
86	3	5	32	ON	6	30	15	355700	10101001101001100010110100000
				OFF	6	31	28	355853	10101001101011110001011001000
86	3	7	33	ON	6	32	43	355920	10101001101110000011111000000
				OFF	6	33	50	356003	10101001110000010110010111000
87	3	1	65	ON	7	56	12	360937	10101100000110111011000101000
				OFF	7	58	49	361094	10101100001011101101101110000
87	3	4	36	ON	8	0	30	361195	10101100001110110010111111000
				OFF	8	1	52	361277	10101100010001010011001001000
87	3	7	14	ON	8	2	49	361333	10101100010011000000100001000
				OFF	8	3	22	361366	10101100010100000000111110000

CLOCK OPERATIONS

AFT PAN CAMERA NUMBER 225									
OPN NO	FR			H	M	S	DEC	BINARY EQUIVALENT	
1	4	0	14	ON	23	4	45	433921	1100111011101000110111101000
				OFF	23	5	23	433959	11001110111011011000001011000
4	3	3	32	ON	3	31	55	449950	11010110100011011000100110000
				OFF	3	33	23	450038	11010110100110000100011110000
5	3	7	21	ON	5	5	6	455542	11011001001110000010011110000
				OFF	5	6	1	455597	11011001001111101101111001000
6	6	1	14	ON	6	38	20	461136	11011011111000110000010000000
				OFF	6	38	55	461171	11011011111001110100100111000
6	6	2	99	ON	6	42	57	461413	11011100000001001101010001000
				OFF	6	46	39	461635	11011100000111111110110111000
7	7	4	41	ON	8	6	14	466410	11011110011001101101000010000
				OFF	8	7	53	466509	11011110011100101110011001000
8	5	3	46	ON	9	32	51	471607	11100000111000010011011011000
				OFF	9	34	56	471732	11100000111100000111100100000
9	6	0	11	ON	10	43	55	475070	11100010111010011001100110000
				OFF	10	44	42	475917	11100010111011110101011001000
9	6	2	8	ON	11	3	59	477075	11100011011111001011000111000
				OFF	11	4	22	477098	11100011011111111000000100000
9	6	3	10	ON	11	5	16	477152	11100011100001100001100000000
				OFF	11	5	42	477170	11100011100010010100010010000
9	6	5	60	ON	11	9	50	477434	11100011101010001000010010000
				OFF	11	12	16	477572	11100011101110010101110100000
9	6	7	32	ON	11	18	26	477942	11100011111001101000011110000
				OFF	11	19	40	478016	11100011111011111001000000000
10	1	3	12	ON	12	41	42	482938	11100110010010000110010010000

	OFF	12	42	9	482965	11100110010010111011000001000
11 9 1	ON	14	11	59	488355	11101000110111011010010111000
	OFF	14	12	21	488377	11101000111000000101010101000
13 7 1	ON	17	19	36	499611	11101110001110111010101111000
	OFF	17	23	22	499837	11101110010101110100001001000
14 1 1	ON	18	39	30	504485	11110000100001001110000001000
	OFF	18	40	32	504467	11110000100011000111000111000
16 1 1	ON	21	29	56	514632	11110101011001010100101000000
	OFF	21	30	23	514659	11110101011010001001010111000
16 3 0	ON	21	39	27	515203	1111010110101010111110111000
	OFF	21	39	55	515231	11110101101011100110100011000
21 3 0	ON	5	8	11	5256	00000010100000011001101000000
	OFF	5	10	2	5367	00000010100011110010011011000
22 6 2	ON	6	43	13	10958	00000101001110011010010110000
	OFF	6	44	9	11014	00000101010000000111101110000
23 3 3	ON	8	3	40	15785	00000111100001101110000101000
	OFF	8	4	57	15862	00000111100100000100011110000
23 3 6	ON	8	7	10	15995	00000111101000001000001111000
	OFF	8	8	50	16095	00000111101011001011100011000
24 8 5	ON	9	33	16	21161	00001010000101110010000101000
	OFF	9	34	0	21205	00001010000110010000000001000
25 9 1	ON	11	3	53	26598	00001100101011101101001110000
	OFF	11	6	0	26725	00001100101111100101010001000
25 9 5	ON	11	10	57	27022	00001100111000101001010110000
	OFF	11	13	29	27174	00001100111101010010001110000
26 2 4	ON	12	43	36	32581	00001111100010010010110001000
	OFF	12	44	15	32620	00001111100011011110111100000
29 2 5	ON	17	21	5	49230	00010111011110011000010110000
	OFF	17	22	47	49332	00010111100001011111100100000
30 7 2	ON	18	40	13	53978	00011001101111010001110010000
	OFF	18	40	44	54009	00011001110000001110010101000
30 7 9	ON	18	59	8	55113	00011010010001111010100101000
	OFF	19	1	11	55236	00011010010101101010110100000
36 7 5	ON	3	35	12	86077	00101001000010110111001001000
	OFF	3	36	54	86179	00101001000101111110010111000
37 3 4	ON	5	2	26	91311	00101011100010100101110011000
	OFF	5	3	45	91390	00101011100101000000000110000
37 3 5	ON	5	4	11	91416	00101011100101110010111000000
	OFF	5	6	8	91533	00101011101001010111011001000
37 3 6	ON	5	7	30	91615	00101011101011110111100011000
	OFF	5	9	11	91716	00101011101110111100110100000
38 3 3	ON	6	32	9	96694	00101110000110110111011110000
	OFF	6	33	27	96772	00101110001001001111110100000
39 9 5	ON	8	5	30	102295	00110000110001110010111011000
	OFF	8	10	14	102579	00110000111010011101100111000
40 8 5	ON	9	32	26	107511	00110011010000111110011011000
	OFF	9	33	42	107587	00110011010011010010110111000
41 6 2	ON	11	10	17	113381	00110110000100000111010001000
	OFF	11	11	37	113461	00110110000110100011100001000
45 2 3	ON	17	19	34	135539	0100000101000010100100111000
	OFF	17	23	53	135798	0100000011000000110011110000

48	3	8	16	ON	21	39	47	151151	01001000000010001100001100011000
				OFF	21	40	24	151188	010010000000101111001000100000
52	7	4	11	ON	3	31	55	172280	010100100010011001000110000000
				OFF	3	32	23	172308	010100100010100110110001000000
53	7	2	41	ON	5	4	17	177822	010101001100101011001001100000
				OFF	5	5	52	177917	010101001101011001100010010000
53	7	3	15	ON	5	7	19	178004	010101001110000100000000100000
				OFF	5	7	55	178040	010101001110010101100110000000
53	7	6	40	ON	5	23	29	178974	010101010101011101101001100000
				OFF	5	25	22	179087	010101010110010100110100110000
55	9	2	43	ON	8	8	48	188413	010110011101011110100010010000
				OFF	8	2	35	188520	010110011110010010110010000000
55	9	5	95	ON	8	6	11	188736	010110011111111110001000000000
				OFF	8	9	44	188949	010110100001100100010000010000
56	9	1	56	ON	9	29	34	193739	010111000110000111000111110000
				OFF	9	31	58	193883	010111000111001010101011110000
57	9	1	80	ON	11	2	33	199318	010111110000101011001111100000
				OFF	11	5	40	199505	010111110010000110100011010000
57	9	4	27	ON	11	9	30	199735	010111110011110110110110110000
				OFF	11	10	31	199796	010111110100010100101001000000
57	9	6	70	ON	11	19	13	200318	010111111000010011100001100000
				OFF	11	22	6	200491	010111111001100111111111111000
58	2	3	54	ON	12	40	29	205194	011000011101100000011000100000
				OFF	12	42	31	205316	011000011110011011111110100000
59	1	2	24	ON	14	11	8	210633	011001000111000000001001010000
				OFF	14	12	4	210689	011001000111011011011111010000
63	4	6	10	ON	20	8	28	232073	01101101010100100100111001010000
				OFF	20	8	51	232096	0110110101011000000100000000
68	5	3	13	ON	3	30	31	258596	011101101001110111001010000000
				OFF	3	31	6	258631	011101101010011001010101100000
69	7	3	10	ON	5	3	14	264159	0111101111101011111000110000
				OFF	5	3	39	264184	0111101111100100000110000000
69	7	4	24	ON	5	5	5	264270	011111100000001110000101100000
				OFF	5	6	1	264326	011111100000101001011011100000
69	7	7	33	ON	5	22	25	265310	011111101000001001111100110000
				OFF	5	24	2	265407	011111101000111001010000110000
70	7	1	20	ON	6	32	4	269489	100000001000000010011011010000
				OFF	6	32	53	269538	100000001000011010010110100000
71	8	3	27	ON	7	59	52	274757	100000110000001110101100010000
				OFF	8	1	0	274825	100000110000101111111001010000
71	8	5	59	ON	8	4	49	275054	1000001100100111111011010000
				OFF	8	7	1	275106	100000110011100000001010100000
71	8	7	34	ON	8	8	38	275283	100000110100001111110000111000
				OFF	8	9	56	275361	100000110100110101100111010000
72	3	1	95	ON	9	28	5	280050	100001011000100111001010100000
				OFF	9	31	55	280200	100001011010010111011110000000
72	3	5	36	ON	9	32	41	280326	100001011010101011011101110000
				OFF	9	34	3	280408	100001011011010101111110000000
73	4	3	33	ON	11	2	56	285741	100010000100000001111110010000
				OFF	11	4	11	285816	100010000100100110100110000000
74	6	3	16	ON	12	37	34	291419	100010101111010110011011110000

			OFF	12	38	12	291457	10001010111110100011111101000	
74	6	4	28	ON	12	38	53	291498	10001010111111110100000010000
			OFF	12	39	58	291563	10001011000001110010111111000	
77	2	3	91	ON	17	16	19	308144	10010010111011110011110000000
			OFF	17	20	11	308376	10010011000010111000111000000	
79	3	0	10	ON	20	4	39	318244	10010111110000000010010100000
			OFF	20	5	2	318267	10010111110000101111001111000	
84	4	3	79	ON	3	27	35	344820	10100100011011000100100100000
			OFF	3	30	42	345007	10100100100000110001110011000	
85	3	3	34	ON	5	0	47	350412	10100111000101101110011100000
			OFF	5	2	4	350489	10100111001000000100110101000	
86	3	5	32	ON	6	30	28	355793	10101001101001111100001101000
			OFF	6	31	41	355866	10101001101100001010110010000	
86	3	7	33	ON	6	32	56	355941	10101001101110011101010001000
			OFF	6	34	11	356016	10101001110000101111100000000	
87	3	1	65	ON	7	56	25	360950	10101100000111010100011110000
			OFF	7	59	2	361107	10101100001100000111000111000	
87	3	4	36	ON	8	0	43	361200	10101100001111001100011000000
			OFF	8	2	5	361290	10101100010001101100100010000	
87	3	7	14	ON	8	3	2	361347	101011000100110110111110111000
			OFF	8	3	35	361300	10101100010100011100010100000	

NOTE - OPERATION 4-3-3 DID NOT COVER THE EXACT LATITUDE RANGE AS PROGRAMMED PRE-FLIGHT DUE TO A SLIGHT DISCREPANCY BETWEEN THE H-TIMER PERIOD AND THE ORBIT PERIOD

NOTE - OPERATION 5-3-7 DID NOT COVER THE EXACT LATITUDE RANGE AS PROGRAMMED PRE-FLIGHT DUE TO A STATION COMMANDING ERROR WHICH RESULTED IN THE H-TIMER BEING BIASED

NOTE - OPERATION 87-3-7 ACTUALLY CONSISTED OF 5 MORE FRAMES FOR THE FWD PAN CAMERA AND 6 MORE FOR THE AFT PAN CAMERA THAN WAS REPORTED. THESE FRAMES WILL BE INCLUDED IN THE B MISSION RECOVERY BUCKET.

NOTE - T/M DATA INDICATED NORMAL CAMERA SYSTEM PERFORMANCE DURING THE ENTIRE A MISSION.