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 SATELLITE SYSTEMS


14 00040830

CORONA "J"
FLIGHT DATA
BOOK - 1039-1

Declassified and Released by the NRO

In Accordance with E. O. 12958

on NOV 26 1997

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12 PAGES
(NOT INCLUDING PEST)

CORONA J FLIGHT DATA BOOK

SYSTEM NO. J-39

VEHICLE NO. 1635

MISSION NO. 1039-1

CAMERA NOS. 206/207

DATE 2-27-67

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SYSTEM NO. J-39
VEHICLE NO. 1635
MISSION NO. 1039-1
CAMERA NOS. 286/207

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SYSTEM NO. J-39
VEHICLE NO. 1635
MISSION NO. 1839-1
CAMERA NOS. 286/287

GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 286

SLAVE CAMERA SERIAL NO. 287

S/I -1 SERIAL NO. D183/131/132

S/I -2 SERIAL NO. D188/125/125

LAUNCH DATE 02-22-67

LAUNCH TIME 22-02-00 GMT

REACTIVATION DATE N/A

REACTIVATION ORBIT NO. N/A

ORBITAL PARAMETERS (REV. 42)

PERIOD 98.869 MIN. ECCENTRICITY 0.01535

PERIGEE 97.027 NM PERIGEE LAT. 38.231 DEG. N

APOGEE 287.338 NM INCL. ANGLE 88.021 DEG.

RECOVERY ORBIT NO. 81

RECOVERY DATE 2-27-67

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SYSTEM NO. J-39
 VEHICLE NO. 1635
 MISSION NO. 1039-1
 CAMERA NOS. 206/207

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FLIGHT LENS SETTINGS AND FILM TYPES

LENS SETTINGS

PANORAMIC CAMERA SETTINGS	CAMERA NO. 206	CAMERA NO. 207
PANORAMIC OPTICS SLIT WIDTH	.225 IN	.175
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 SUPP
HORIZON OPTICS APERTURE	F8.0 TAKE-UP	F6.3 TAKE-
HORIZON OPTICS FILTER TYPE	WRATTEN 25	WRATTEN 25

STELLAR INDEX CAMERA SETTINGS

	D103/131/132 STELLAR INDEX		D100/125/125 STELLAR INDEX	
EXPOSURE TIME	2.0 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. 206	CAMERA NO. 207
TYPE	7J-40	7J-40
LENGTH	16000 FT.	16000 FT.
SPLICES	4	4
EMUL. DATA	273-2-12-6	272-1/26-12-6
LG. BETWEEN	2000-3439-5006-	2715-3777-3778-
SPLICE TO CORE	5011-0544-	3884-1846-
	- - -	- - -
	- - -	- - -
	- - -	- - -

STELLAR/INDEX CAMERAS

	D103/131/132 STELLAR INDEX		D100/125/125 STELLAR INDEX	
TYPE	3J-34	7J-33	3J-34	7J-33
EMUL. DATA	169-49-7-6	116-8-5-6	169-49-7-6	116-8-5-6

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SYSTEM NO. J-39
VEHICLE NO. 1635
MISSION NO. 1339-1
CAMERA NOS. 206/207

LENS DATA SUMMARY MASTER CAMERA NO. 206

LENS SERIAL NO. 1992435
EQUIVALENT OPERATIONAL FOCAL LENGTH 689.628 MM

RESOLUTION

STATIC		LINES/MM	FILM TYPE	TARGET CONTR
BENCH TEST		247	3484	HIGH
		153	3484	LOW
DYNAMIC				
		200	3484	HIGH
		116	3484	LOW
	AP	178	3484	HIGH
		119	3484	LOW

NOTE [REDACTED] RESOLUTION OF 200 LINES/MM REPORTED IN [REDACTED]

DISTORTION - POSITIVE (PINCUSHION)

ANGLE OFF AXIS-DEG.	3	2	1	0	359	358	357
MILLIMETERS	1.002	0.0	0.0	0.0	0.0	0.001	0.003

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SYSTEM NO. J-39
VEHICLE NO. 1635
MISSION NO. 1839-1
CAMERA NOS. 286/287

LENS DATA SUMMARY (HORIZON CAMERAS FOR MASTER CAMERA NO. 286)

	TAKE-UP	SUPPLY
LENS SERIAL NO.	12890	19106
OPERATIONAL FOCAL LENGTH	55.00 MM	54.85 MM
RADIAL DISTORTION		
1° DEG. OFF AXIS	0.030 MM	0.010 MM
2° DEG. OFF AXIS	0.100 MM	0.040 MM
TANGENTIAL DISTORTION (MAXIMUM VECTOR)	0.040 MM	0.025 MM

RESOLUTION

ANGLE OFF AXIS-DEG.	0	5	10	15	20	25	27.5	30
TAKE-UP (RADIAL)	209	208	184	181	156	150	0	51
(TANGENTIAL)	209	164	161	155	130	96	0	62
SUPPLY (RADIAL)	209	208	206	202	139	150	0	72
(TANGENTIAL)	209	185	181	155	58	86	0	62

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 3404 FILM AND HIGH CONTRAST TARGET.

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SYSTEM NO. J-39
VEHICLE NO. 1635
MISSION NO. 1839-1
CAMERA NOS. 286/287

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LENS DATA SUMMARY SLAVE CAMERA NO. 287

LENS SERIAL NO. 2282435
EQUIVALENT OPERATIONAL FOCAL LENGTH 689.628 MM

RESOLUTION

STATIC	BENCH TEST	LINES/MM	FILM TYPE	TARGET CONT
		257	3484	HIGH
		158	3484	LOW
DYNAMIC		228	3484	HIGH
		124	3484	LOW
	AP	183	3484	HIGH
		125	3484	LOW

NOTE [REDACTED] SOLUTION OF 228 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

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SYSTEM NO. J-39
 VEHICLE NO. 1635
 MISSION NO. 1039-1
 CAMERA NOS. 206/207

LENS DATA SUMMARY (HORIZON CAMERAS FOR SLAVE CAMERA NO. 207)

	TAKE-UP	SUPPLY
LENS SERIAL NO.	12885	12896
OPERATIONAL FOCAL LENGTH	54.90 MM	55.00 MM
RADIAL DISTORTION		
10 DEG. OFF AXIS	0.020 MM	0.020 MM
20 DEG. OFF AXIS	0.050 MM	0.060 MM
TANGENTIAL DISTORTION (MAXIMUM VECTOR)	0.030 MM	0.030 MM

RESOLUTION

ANGLE OFF AXIS-DEG.	0	5	10	15	20	25	27.5	30
TAKE-UP (RADIAL)	209	208	184	160	139	150	0	64
(TANGENTIAL)	209	164	161	78	103	96	0	70
SUPPLY (RADIAL)	209	208	206	181	156	164	0	81
(TANGENTIAL)	187	185	161	138	116	96	0	70

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 3404 FILM AND HIGH CONTRAST TARGET.

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SYSTEM NO. J-39
VEHICLE NO. 1635
MISSION NO. 1839-1
CAMERA NOS. 286/287

FORMAT DIMENSIONS AND CALIBRATIONS

Calibration Date
7/11/66

CAMERA NO. 286

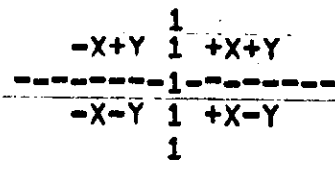
CAMERA NO. 287

A 76.288
 B 354.768
 C 789.988
 D 56.513
 E 56.588
 XT -0.546
 YT -0.219
 XS -0.651
 YS -0.121
 XVO 0.335
 YVO 1.484
 DTX -0.543
 DTY 1.781
 DSX -0.537
 DSY -2.121
 DMX 0.275
 DMY 21.484
 HEIGHT 54.882
 WIDTH 756.438
 DIRECTION
 FLIGHT -Y
 SCAN +X

Date checked
27/11/66
ReB
286-667

75.959
 354.978
 789.868
 56.455
 56.399
 0.594
 -0.127
 -0.489
 -0.021
 0.038
 1.527
 0.588
 1.873
 -0.487
 -2.021
 0.097
 21.527
 55.685
 753.358
 +Y
 +X

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



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SYSTEM NO. J-39
VEHICLE NO. 1635
MISSION NO. 1039-1
CAMERA NOS. 206/207

LENS DATA SUMMARY STELLAR INDEX D103/131/132 -1 MISSION

	STELLAR	INDEX
LENS SERIAL NO.	11352	820196
RESEAU SERIAL NO.	132	131
FILTER TYPE	NONE	WRATTEN 21
APERTURE	F1.8	F4.5
EXPOSURE TIME	2.0 SEC.	1/500 SEC.
EQUIVALENT FOCAL LENGTH	85 NOM	MM 38.48 MM

RESOLUTION (INDEX)

ANGLE OFF AXIS	0	10	20	30	35
HIGH CONTRAST-R/T (3400 FILM)	071/63	073/69	096/79	104/57	087/3

AWAR 760 LINES/MM
READ FROM 4400 FILM.

DISTORTION

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

ALIGNMENT

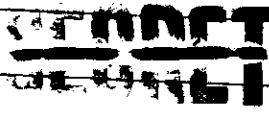
STELLAR

INDEX

-0.0003 INCHES/.937 INCHES -0.0005 INCHES/2.25 INC

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SYSTEM NO. J-39
VEHICLE NO. 1635
MISSION NO. 1839-1
CAMERA NOS. 286/287



LENS DATA SUMMARY STELLAR INDEX D100/125/125 -2 MISSION

	STELLAR	INDEX
LENS SERIAL NO.	18741	821120
RESEAU SERIAL NO.	125	125
FILTER TYPE	NONE	WRATTEN 21
APERTURE	F1.8	F4.5
EXPOSURE TIME	1.8 SEC.	1/500 SEC.
EQUIVALENT FOCAL LENGTH	85 NOM	MM 38.47 MM

RESOLUTION (INDEX)

ANGLE OFF AXIS	0	10	20	30	35
HIGH CONTRAST-R/T (3400 FILM)	063/63	070/74	099/82	092/44	085

AWAR 710 LINES/MM
READ FROM 4400 FILM.

DISTORTION

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

ALIGNMENT

STELLAR

INDEX

-0.0007 INCHES/.937 INCHES -0.0010 INCHES/2.25 I



SYSTEM NO. J-39
VEHICLE NO. 1635
MISSION NO. 1839-1
CAMERA NOS. 2867287

CYCLE PERIOD DATA

V/H RAMP LEVEL	SETTING AMPLITUDE	TIME UP RAMP-SEC	---CALIBRATED---		---IN-FLIGHT---		OF NO
			MASTER	SLAVE	MASTER	SLAVE	
6	5	118	3.824	3.818	3.838	3.798	
6	4	1728	2.217	2.238	2.288	2.275	
6	4	1817	2.214	2.235	2.278	2.275	
6	4	1764	2.216	2.237	2.265	2.288	

NOTE

A 0 OR * INDICATE NO DATA AVAILABLE.

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- A. 1039-1
- B. DRY
- C. PERFORMANCE ESTIMATE - PART ONE

OPERATIONS SUMMARY

FWD PAN CAMERA NUMBER		206																
CPN NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM						
PRE-FLT 120																		
1	3	0	14	ON	2	55	59	150	6W	694144	719504	22	23	30	32	1330	84632	
				OFF	2	53	21	148	50W	681984	706896	22	23	31	13	1335	84673	
2	3	3	12	ON	2	66	55	178	37E	749800	777200	23	0	57	51	1252	3471	
				OFF	2	64	46	179	2W	737600	764688	23	0	58	26	13	2	3506
5	5	2	27	ON	2	71	56	102	37E	773936	802320	23	5	26	56	1217	19616	
				OFF	2	67	21	110	1E	746528	773872	23	5	28	15	1248	19695	
5	5	6	31	ON	2	52	17	120	50E	672040	696576	23	5	32	12	1335	19932	
				OFF	2	47	7	122	44E	651360	675120	23	5	33	31	1344	20011	
6	3	4	14	ON	2	42	44	101	20E	634896	658032	23	7	4	47	1350	25487	
				OFF	2	40	23	101	56E	627520	650368	23	7	5	22	1353	25522	
6	3	8	28	ON	2	21	3	105	27E	591312	612816	23	7	10	10	1412	25810	
				OFF	2	16	36	106	4E	589728	611168	23	7	11	16	1415	25876	
7	3	1	7	ON	1	27	22	79	56W	1159004	1203232	23	8	7	47	248	29267	
				OFF	1	29	10	79	38W	1152672	1195712	23	8	8	16	249	29296	
7	3	5	10	ON	2	59	13	71	52E	700400	726000	23	8	30	44	1318	30644	
				OFF	2	57	22	72	59E	691744	717000	23	8	31	13	1323	30673	
7	3	6	20	ON	2	52	32	75	21E	670368	694832	23	8	32	27	1333	30747	
				OFF	2	49	5	76	41E	656384	680320	23	8	33	20	1340	30800	
8	7	5	8	ON	2	48	56	54	3E	654624	678496	23	10	3	30	1339	36210	
				OFF	2	47	30	54	33E	649216	672800	23	10	3	52	1342	36232	
9	7	0	11	ON	1	30	51	123	8W	1105000	1146272	23	11	11	2	258	40262	
				OFF	1	41	44	122	26W	1091800	1132560	23	11	11	48	3	2	40300
9	6	5	39	ON	2	3	39	39	33E	600752	622600	23	11	44	52	1423	42292	
				OFF	3	2	32	40	15E	614336	636688	23	11	46	24	1427	42304	
10	2	1	17	ON	2	29	16	13	26E	599152	620944	23	13	8	41	14	2	47321
				OFF	2	26	28	13	54E	595200	616832	23	13	9	23	14	4	47363
11	5	1	27	ON	2	30	41	9	29W	601376	623248	23	14	38	28	14	0	52700
				OFF	2	26	22	8	46W	594992	616624	23	14	39	32	14	4	52772
13	6	1	18	ON	2	67	3	71	6W	732000	759616	23	17	29	27	1245	62967	
				OFF	2	64	1	67	53W	716960	743104	23	17	30	16	1258	63016	
14	8	5	37	ON	3	31	8	69	19W	741728	768800	23	19	24	10	1446	69850	
				OFF	3	37	53	67	59W	782592	811312	23	19	25	51	1453	69951	
15	8	0	15	ON	2	33	15	123	24W	604464	626448	23	22	8	31	1354	79711	
				OFF	2	30	47	122	57W	600000	621904	23	22	9	8	1357	79740	
20	7	2	50	ON	2	53	49	130	51E	663936	688160	24	4	3	49	1323	14629	
				OFF	2	45	57	142	47E	635456	658600	24	4	5	49	1337	14749	
20	7	7	20	ON	3	8	30	151	23E	638320	661568	24	4	19	18	1424	15558	
				OFF	3	11	48	151	47E	650704	674432	24	4	20	7	1427	15607	
21	7	1	22	ON	2	52	11	117	52E	656688	680640	24	5	34	21	1325	20061	
				OFF	2	48	32	119	16E	643400	666864	24	5	35	17	1332	20117	
22	1	3	13	ON	2	57	30	92	36E	677392	702112	24	7	3	6	1313	25306	
				OFF	2	55	14	93	49E	667072	692240	24	7	3	41	1318	25421	

22	1	5	15	ON	2	42	20	98	27E	623248	645936	24	7	6	57	1340	25617	
				OFF	2	39	59	99	2E	616912	639360	24	7	7	32	1343	25652	
22	1	7	131	ON	2	28	31	101	19E	595152	616784	24	7	10	24	1355	25824	
				OFF	2	8	15	104	5E	596944	618656	24	7	15	24	1411	26124	
22	1	8	82	ON	2	5	3	104	28E	602224	624128	24	7	16	11	1414	26171	
				OFF	3	7	39	105	55E	636352	659536	24	7	19	19	1423	26359	
23	1	1	7	ON	1	27	32	82	54W	1130032	1172192	24	8	9	55	238	29395	
				OFF	1	29	19	82	37W	1122592	1164448	24	8	10	23	239	29423	
23	5	4	36	ON	2	66	16	62	57E	717344	743584	24	8	30	54	1242	30654	
				OFF	2	60	17	68	10E	688704	713856	24	8	32	29	13	5	30749
23	5	7	64	ON	2	47	44	74	10E	639264	662560	24	8	35	43	1332	30943	
				OFF	2	37	52	76	50E	611296	633552	24	8	38	11	1345	31091	
24	2	2	43	ON	2	59	42	45	54E	685072	710096	24	10	2	46	13	6	36166
				OFF	2	52	33	49	40E	655664	679584	24	10	4	37	1323	36277	
25	6	4	38	ON	2	10	43	35	45E	594256	615856	24	11	45	7	14	8	42307
				OFF	2	5	0	36	25E	603088	625024	24	11	46	32	1412	42392	
26	2	1	22	ON	2	32	8	9	58E	599040	620832	24	13	9	56	1349	47396	
				OFF	2	28	40	10	34E	594352	615968	24	13	10	48	1353	47448	
26	2	3	16	ON	2	21	22	11	41E	589360	610784	24	13	12	35	1359	47555	
				OFF	2	18	51	12	3E	589216	610640	24	13	13	12	14	1	47592
27	1	2	9	ON	2	28	43	12	6W	594256	615856	24	14	40	53	1352	52853	
				OFF	2	27	13	11	51W	592672	614224	24	14	41	15	1353	52875	
27	1	7	23	ON	2	11	23	9	42W	593936	615520	24	14	45	9	14	6	53109
				OFF	2	7	45	9	14W	598896	620672	24	14	46	3	14	9	53163
30	6	1	12	ON	2	28	50	80	10W	593808	615392	24	19	11	8	1350	69068	
				OFF	2	27	1	79	52W	592048	613568	24	19	11	35	1352	69095	
30	6	6	46	ON	3	35	1	71	30W	779120	807696	24	19	26	57	1440	70017	
				OFF	3	44	2	69	22W	837712	868528	24	19	29	14	1451	70154	
36	3	4	26	ON	2	50	14	138	28E	638576	661840	25	4	6	19	1320	14779	
				OFF	2	46	6	139	52E	625936	648720	25	4	7	21	1326	14841	
37	7	1	38	ON	2	54	3	114	12E	651104	674832	25	5	35	25	1312	20125	
				OFF	2	48	2	116	35E	630960	653936	25	5	36	57	1323	20217	
37	7	4	9	ON	2	2	27	124	35E	612992	635296	25	5	48	15	14	6	20895
				OFF	2	0	58	124	45E	616816	639264	25	5	48	37	14	7	20917
37	7	5	32	ON	3	24	23	127	55E	722384	748816	25	5	54	53	1426	21293	
				OFF	3	30	11	128	51E	755568	783248	25	5	56	20	1431	21380	
38	8	3	65	ON	2	60	58	87	32E	677408	702144	25	7	3	42	1253	25422	
				OFF	2	50	44	92	55E	638896	662176	25	7	6	20	1318	25580	
38	8	4	15	ON	2	45	23	94	44E	622720	645392	25	7	7	41	1326	25661	
				OFF	2	43	2	95	25E	616480	638928	25	7	8	16	1329	25696	
38	8	5	309	ON	2	41	3	95	56E	611744	634000	25	7	8	47	1332	25727	
				OFF	3	6	2	102	53E	639104	662384	25	7	20	26	1411	26426	
39	8	1	7	ON	1	27	26	85	46W	1104656	1145808	25	8	11	24	228	29484	
				OFF	1	29	10	85	30W	1097232	1138112	25	8	11	51	229	29511	
39	5	2	12	ON	2	73	38	47	24E	738912	765968	25	8	30	15	1139	30615	
				OFF	2	71	45	51	50E	728128	754768	25	8	30	50	1158	30650	
39	5	6	87	ON	2	58	28	66	30E	666288	690608	25	8	34	26	13	0	30866
				OFF	2	45	4	72	10E	621280	643904	25	8	37	51	1326	31071	
40	2	3	34	ON	2	53	23	46	20E	646448	670016	25	10	5	49	1311	36349	
				OFF	2	48	7	48	32E	629328	652240	25	10	7	9	1321	36429	
41	8	5	57	ON	2	11	5	32	53E	596912	618624	25	11	46	24	1358	42384	

	OFF	2	2	15	33	55E	614736	637184	25	11	48	35	14	4	42515			
42	7	3	18	ON	2	31	44	7	13E	594272	615872	25	13	11	22	1348	47482	
	OFF	2	28	57	7	43E	591688	613184	25	13	12	4	1342	47524				
43	9	1	23	ON	2	11	34	12	29W	596864	618568	25	14	46	25	1356	53185	
	OFF	2	7	52	12	3W	683824	624968	25	14	47	28	1359	53248				
46	1	4	11	ON	2	17	16	88	21W	599952	621776	25	19	16	55	1355	69415	
	OFF	2	8	25	88	9W	683232	625184	25	19	17	22	1356	69442				
48	1	1	11	ON	2	67	57	145	57W	699216	724768	25	22	2	28	1218	79348	
	OFF	2	66	18	143	47W	698976	716224	25	22	2	57	1227	79377				
48	2	8	16	ON	2	33	11	129	2W	595288	616848	25	22	11	22	1335	79882	
	OFF	2	38	41	128	35W	592672	614224	25	22	11	59	1337	79919				
51	7	4	25	ON	3	38	48	173	11E	822496	852736	26	2	59	21	1432	18761	
	OFF	3	43	56	174	29E	856816	888368	26	3	8	39	1438	18839				
52	7	2	43	ON	2	51	23	135	18E	632328	655344	26	4	6	59	13	8	14819
	OFF	2	44	41	137	35E	614384	636656	26	4	8	41	1319	14921				
53	3	3	28	ON	2	62	18	186	35E	669392	693824	26	5	34	15	1248	28855	
	OFF	2	57	42	189	36E	652448	676248	26	5	35	25	1253	28125				
53	3	5	42	ON	2	56	3	118	31E	646688	678256	26	5	35	58	1257	28158	
	OFF	2	49	33	113	28E	626352	649168	26	5	37	29	1318	28249				
54	4	2	37	ON	2	59	56	85	33E	659928	683984	26	7	4	52	1247	25492	
	OFF	2	54	14	88	45E	639888	663288	26	7	6	28	13	1	25588			
54	4	3	175	ON	2	35	59	94	23E	597424	619152	26	7	18	55	1328	25855	
	OFF	2	9	22	98	25E	684288	626192	26	7	17	38	1351	26258				
54	4	8	42	ON	2	2	37	99	12E	628888	642656	26	7	19	18	1355	26358	
	OFF	3	3	58	99	57E	641888	664448	26	7	28	48	14	8	26448			
55	8	3	41	ON	2	68	47	62	18E	662384	686464	26	8	34	41	1243	38881	
	OFF	2	34	23	66	8E	639776	663888	26	8	36	28	13	8	38988			
56	2	3	35	ON	2	52	58	44	9E	634624	657744	26	18	6	43	13	2	36483
	OFF	2	47	35	46	2E	619472	642832	26	18	8	5	1312	36485				
57	9	2	64	ON	2	58	12	22	28E	625872	648672	26	11	37	28	13	7	41848
	OFF	2	48	28	25	26E	683488	625368	26	11	39	56	1321	41996				
58	2	6	15	ON	2	19	48	6	27E	591648	613152	26	13	15	3	1348	47783	
	OFF	2	17	23	6	46E	593664	615248	26	13	15	39	1342	47739				
61	2	1	14	ON	2	68	8	88	49W	687472	712576	26	17	32	52	12	9	63172
	OFF	2	65	52	78	5W	677712	782448	26	17	33	29	1221	63289				
64	2	1	17	ON	2	68	25	149	11W	686888	711856	26	22	2	58	12	6	79378
	OFF	2	65	41	145	53W	674448	699856	26	22	3	35	1228	79415				
64	3	8	19	ON	2	48	15	133	9W	681584	623376	26	22	18	5	1317	79885	
	OFF	2	37	15	132	28W	597288	618912	26	22	18	58	1328	79858				
62	7	3	55	ON	2	58	56	132	55E	622336	644992	27	4	7	26	1259	14846	
	OFF	2	42	31	135	38E	683968	625936	27	4	9	33	1312	14973				
68	3	4	23	ON	2	52	32	189	37E	626832	648832	27	5	37	2	1255	28222	
	OFF	2	48	55	111	1E	616768	639216	27	5	37	57	13	2	28277			
69	3	6	64	ON	2	31	41	115	28E	591232	612728	27	5	42	15	1323	28535	
	OFF	2	21	45	116	56E	591888	613488	27	5	44	42	1332	28682				
78	9	4	15	ON	2	42	21	98	21E	682944	624888	27	7	9	35	1311	25775	
	OFF	2	39	58	92	58E	599288	628992	27	7	18	11	1314	25811				
78	9	6	65	ON	2	29	51	93	1E	598384	611848	27	7	12	42	1324	25962	
	OFF	2	19	48	94	33E	593528	615184	27	7	15	11	1333	26111				
71	9	2	61	ON	2	59	24	68	42E	645552	669888	27	8	35	15	1238	38915	
	OFF	2	58	4	65	17E	618528	641856	27	8	37	38	1258	31858				

71	9	7	37	ON	2	29	49	70	22E	590256	611712	27	8	42	42	1324	31362	
				OFF	2	24	1	71	18E	590736	612208	27	8	44	8	1329	31448	
72	7	4	25	ON	2	58	44	38	29E	642624	666048	27	10	5	25	1239	36325	
				OFF	2	54	52	40	36E	630768	653744	27	10	6	25	1248	36385	
72	7	7	38	ON	2	42	33	45	1E	602560	624480	27	10	9	31	13	9	36571
				OFF	2	37	54	46	8E	595936	617600	27	10	10	41	1315	36641	
72	7	8	18	ON	2	32	38	47	13E	591344	612848	27	10	11	59	1320	36719	
				OFF	2	29	49	47	43E	590176	611632	27	10	12	41	1323	36761	
73	1	3	38	ON	2	6	39	28	14E	617456	639936	27	11	48	24	1341	42504	
				OFF	2	0	36	28	56E	635400	658560	27	11	49	54	1345	42594	
73	1	5	36	ON	3	5	27	29	38E	657680	681664	27	11	51	23	1349	42683	
				OFF	3	11	20	30	20E	683824	708800	27	11	52	52	1354	42772	
74	2	8	17	ON	2	15	50	4	28E	598912	620688	27	13	16	7	1334	47767	
				OFF	2	13	7	4	49E	603408	625360	27	13	16	47	1336	47807	
76	8	5	13	ON	3	7	38	38	3W	668560	692960	27	16	21	53	1349	58913	
				OFF	3	9	56	37	47W	678688	703456	27	16	22	27	1351	58947	
77	4	2	14	ON	2	9	26	62	41W	612000	634272	27	17	47	39	1336	64059	
				OFF	2	7	6	62	24W	617824	640320	27	17	48	14	1338	64094	
79	8	1	40	ON	2	37	13	112	15W	593424	614992	27	20	40	45	1311	74445	
				OFF	2	31	3	111	3W	589776	611216	27	20	42	17	1318	74537	
79	8	2	7	ON	2	24	19	109	56W	590848	612320	27	20	43	56	1324	74636	
				OFF	2	23	15	109	47W	591504	613000	27	20	44	12	1325	74652	

OPERATIONS SUMMARY

AFT	PAN	CAMERA	NUMBER															
OPN NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM						
PRE-FLT	110																	
1	3	8	14	ON	2	56	6	150	13W	690000	715296	22	23	30	45	1329	84645	
				OFF	2	53	26	148	56W	678160	702912	22	23	31	26	1335	84686	
2	3	3	12	ON	2	67	6	178	20E	745168	772464	23	0	58	4	1251	3484	
				OFF	2	64	55	179	16W	733168	760000	23	0	58	39	13	1	3519
5	5	2	27	ON	2	72	8	102	8E	769200	797400	23	5	27	9	1215	19629	
				OFF	2	67	32	109	43E	741936	769104	23	5	28	20	1247	19700	
5	5	6	31	ON	2	52	21	120	45E	668400	692784	23	5	32	25	1335	19945	
				OFF	2	47	9	122	40E	648112	671744	23	5	33	44	1344	20024	
6	3	4	14	ON	2	42	46	101	16E	632032	655056	23	7	5	0	1349	25500	
				OFF	2	40	24	101	52E	624896	647648	23	7	5	35	1352	25535	
6	3	8	26	ON	2	21	1	105	24E	590800	612272	23	7	10	23	1411	25823	
				OFF	2	16	33	106	0E	589760	611200	23	7	11	29	1415	25809	
7	3	1	7	ON	1	26	32	80	10W	1156544	1199744	23	8	8	0	247	29200	
				OFF	1	28	22	79	52W	1149216	1192128	23	8	8	29	248	29309	
7	3	5	18	ON	2	59	20	71	44E	696432	721872	23	8	30	57	1317	30657	
				OFF	2	57	20	72	52E	687800	712928	23	8	31	26	1322	30686	
7	3	6	20	ON	2	52	36	75	15E	666720	691040	23	8	32	40	1333	30760	
				OFF	2	49	8	76	36E	653072	676800	23	8	33	33	1339	30813	
8	7	5	8	ON	2	49	0	53	58E	651312	675056	23	10	3	43	1339	36223	
				OFF	2	47	33	54	28E	646316	669568	23	10	4	5	1341	36245	
9	7	0	11	ON	1	38	7	123	24W	1101264	1142288	23	11	11	15	257	40275	
				OFF	1	41	2	122	43W	1087952	1128464	23	11	12	1	3	0	40321
9	6	5	39	ON	2	3	38	39	30E	602400	624304	23	11	45	5	1422	42305	

		OFF	3	2	32	42	12E	616752	639200	23	11	46	37	1427	42397			
10	2	1	17	ON	2	29	14	13	23E	597776	619520	23	13	8	54	14	2	47334
		OFF	2	26	26	13	51E	594128	615728	23	13	9	36	14	4	4	47376	
11	5	1	27	ON	2	30	39	9	32W	599872	621696	23	14	38	41	14	0	52721
		OFF	2	26	28	8	49W	594000	615600	23	14	39	45	14	4	4	52785	
13	6	1	18	ON	2	67	13	71	21W	728464	755120	23	17	29	40	1244	62980	
		OFF	2	64	10	68	6W	712768	738832	23	17	30	29	1257	63029			
14	8	5	36	ON	3	30	57	69	25W	746928	774288	23	19	24	23	1446	69863	
		OFF	3	37	37	68	6W	788176	817104	23	19	26	4	1453	69964			
16	8	0	15	ON	2	33	13	123	27W	602784	624704	23	22	8	44	1354	79724	
		OFF	2	30	45	122	59W	598656	620432	23	22	9	21	1357	79761			
20	7	2	50	ON	2	53	53	139	46E	660496	684592	24	4	4	2	1322	14642	
		OFF	2	45	59	142	43E	632656	655696	24	4	6	2	1336	14762			
20	7	7	28	ON	3	8	27	151	19E	641568	664944	24	4	19	31	1424	15571	
		OFF	3	11	44	151	42E	654304	678160	24	4	20	20	1426	15620			
21	7	1	22	ON	2	52	14	117	48E	653408	677232	24	5	34	34	1325	20074	
		OFF	2	48	34	119	11E	640400	663744	24	5	35	30	1332	20130			
22	1	3	13	ON	2	57	35	92	30E	673760	698352	24	7	3	19	1313	25399	
		OFF	2	55	18	93	43E	664384	688624	24	7	3	54	1318	25434			
22	1	5	15	ON	2	42	21	98	23E	620784	643392	24	7	7	10	1340	25630	
		OFF	2	39	59	98	59E	614704	637072	24	7	7	45	1343	25665			
22	1	7	131	ON	2	28	29	101	16E	594112	615712	24	7	10	37	1355	25837	
		OFF	2	8	14	104	2E	598320	620000	24	7	15	37	1411	26137			
22	1	8	82	ON	2	5	2	104	24E	603952	625920	24	7	16	24	1413	26184	
		OFF	3	7	37	105	51E	639552	662848	24	7	19	32	1422	26372			
23	1	1	7	ON	1	26	45	83	8W	1126512	1168528	24	8	10	8	237	29400	
		OFF	1	28	33	82	51W	1119000	1160720	24	8	10	36	238	29436			
23	5	4	36	ON	2	65	24	62	44E	713232	739312	24	8	31	7	1241	30667	
		OFF	2	60	23	68	3E	684928	709936	24	8	32	42	13	4	30762		
23	5	7	64	ON	2	47	46	74	6E	636352	659536	24	8	35	56	1332	30956	
		OFF	2	37	52	76	47E	609328	631504	24	8	38	24	1345	31104			
24	2	2	45	ON	2	59	47	45	47E	681328	706208	24	10	2	59	13	5	36179
		OFF	2	52	36	49	36E	652384	676176	24	10	4	50	1323	36290			
25	6	4	36	ON	2	10	41	35	42E	595376	617024	24	11	45	20	14	7	42320
		OFF	2	4	58	36	22E	604800	626800	24	11	46	45	1412	42405			
26	2	1	22	ON	2	32	6	9	55E	597696	619424	24	13	10	9	1349	47409	
		OFF	2	28	38	10	31E	593376	614944	24	13	11	1	1352	47461			
26	2	3	16	ON	2	21	20	11	38E	589216	610624	24	13	12	48	1359	47568	
		OFF	2	18	48	11	59E	589392	610816	24	13	13	25	14	1	47605		
27	1	2	9	ON	2	28	41	12	9W	593248	614816	24	14	41	6	1352	52866	
		OFF	2	27	10	11	54W	591800	613400	24	14	41	28	1353	52888			
27	1	7	23	ON	2	11	21	9	44W	595024	616656	24	14	45	22	14	6	53122
		OFF	2	7	43	9	10W	600368	622208	24	14	46	16	14	8	53176		
30	6	1	11	ON	2	28	48	80	12W	592800	614432	24	19	11	21	1350	69001	
		OFF	2	26	59	79	54W	591344	612848	24	19	11	48	1351	69100			
30	6	6	47	ON	3	34	46	71	37W	784656	813440	24	19	27	10	1440	70030	
		OFF	3	43	41	69	32W	843600	874656	24	19	29	27	1451	70167			
36	3	4	26	ON	2	53	15	138	24E	635776	658944	25	4	6	32	1319	14792	
		OFF	2	46	7	139	40E	623424	646112	25	4	7	34	1326	14854			
37	7	1	30	ON	2	54	6	114	7E	647968	671584	25	5	35	38	1311	20130	
		OFF	2	48	3	116	31E	628336	651216	25	5	37	10	1323	20200			

37	7	4	9	ON	2	2	26	124	31E	615280	637680	25	5	48	28	14	6	28988
				OFF	2	0	58	124	41E	619248	641792	25	5	48	50	14	7	28930
37	7	5	31	ON	3	24	13	127	49E	727296	753904	25	5	55	6	1426		21306
				OFF	3	29	58	128	45E	760880	788768	25	5	56	33	1431		21393
38	8	3	65	ON	2	61	3	87	25E	673872	698464	25	7	3	55	1253		25435
				OFF	2	50	46	92	51E	636064	659232	25	7	6	33	1317		25593
38	8	4	15	ON	2	45	23	94	41E	620320	642896	25	7	7	54	1326		25674
				OFF	2	43	2	95	21E	614336	636688	25	7	8	29	1329		25709
38	8	5	308	ON	2	41	2	95	53E	609744	631936	25	7	9	0	1332		25740
				OFF	3	6	0	102	49E	642352	665760	25	7	20	39	1411		26439
39	8	1	7	ON	1	25	42	86	0W	1100992	1142000	25	8	11	37	227		29497
				OFF	1	28	26	85	43W	1093520	1134240	25	8	12	4	228		29524
39	5	2	12	ON	2	73	47	46	55E	734752	761648	25	8	30	28	1137		30628
				OFF	2	71	53	51	29E	724000	750400	25	8	31	3	1156		30663
39	5	6	86	ON	2	53	33	66	25E	662896	687072	25	8	34	39	13	0	30879
				OFF	2	45	4	72	6E	618960	641488	25	8	38	4	1326		31084
40	2	3	34	ON	2	53	25	46	25E	643440	666896	25	10	6	2	1311		36362
				OFF	2	48	8	48	28E	626752	649568	25	10	7	22	1321		36442
41	8	5	57	ON	2	11	3	32	50E	598256	620000	25	11	46	37	1357		42397
				OFF	2	2	15	33	52E	617136	639600	25	11	48	48	14	4	42528
42	7	3	17	ON	2	31	42	7	11E	593344	614928	25	13	11	35	1340		47495
				OFF	2	28	54	7	40E	590896	612384	25	13	12	17	1342		47537
43	9	1	23	ON	2	11	32	12	33W	598208	619968	25	14	46	38	1356		53198
				OFF	2	7	51	12	7W	604800	626800	25	14	47	33	1358		53253
46	1	4	11	ON	2	10	15	80	24W	621488	623360	25	19	17	8	1355		69428
				OFF	2	8	24	80	11W	604960	626960	25	19	17	35	1356		69455
48	1	1	11	ON	2	68	3	146	9W	695456	720864	25	22	2	41	1217		79361
				OFF	2	66	16	143	50W	687280	712384	25	22	3	10	1227		79390
48	2	0	15	ON	2	33	9	129	5W	594208	615808	25	22	11	35	1335		79895
				OFF	2	30	39	128	30W	591920	613440	25	22	12	12	1337		79932
51	7	4	25	ON	3	38	29	173	2E	828288	858736	26	2	59	34	1431		10774
				OFF	3	43	34	174	19E	862736	894512	26	3	0	52	1437		10852
52	7	2	43	ON	2	51	25	135	14E	629712	652640	26	4	7	12	13	7	14832
				OFF	2	44	40	137	32E	612256	634544	26	4	8	54	1318		14934
53	3	3	28	ON	2	62	15	106	20E	666048	690352	26	5	34	28	1240		20068
				OFF	2	57	45	109	32E	649408	673088	26	5	35	38	1253		20138
53	3	5	42	ON	2	56	6	110	26E	643744	667200	26	5	36	3	1257		20163
				OFF	2	49	34	113	16E	623920	646640	26	5	37	42	1310		20262
54	4	2	37	ON	2	60	0	85	27E	656736	680688	26	7	5	5	1246		25505
				OFF	2	54	15	88	40E	637136	660352	26	7	6	33	13	1	25593
54	4	3	174	ON	2	35	58	94	20E	596272	617952	26	7	11	8	1328		25868
				OFF	2	9	21	98	21E	605984	628032	26	7	17	43	1350		26263
54	4	8	42	ON	2	2	38	99	8E	622640	645312	26	7	19	23	1355		26363
				OFF	3	3	56	99	53E	644304	667792	26	7	21	1	14	0	26461
55	8	3	41	ON	2	60	51	62	12E	659120	683168	26	8	34	54	1243		30894
				OFF	2	54	25	65	56E	636976	660176	26	8	36	33	13	0	30993
56	2	3	35	ON	2	52	59	43	56E	632016	655040	26	10	6	56	13	2	36416
				OFF	2	47	35	45	59E	617264	639728	26	10	8	18	1312		36498
57	9	2	64	ON	2	50	11	22	24E	623504	646200	26	11	37	41	13	7	41861
				OFF	2	40	18	25	23E	601888	623776	26	11	40	9	1321		42009
58	2	6	15	ON	2	19	46	6	24E	592288	613824	26	13	15	16	1340		47716

61	2	1	14	ON	2	69	13	81	8W	594568	616176	26	13	15	52	1342	47752	
				OFF	2	65	57	78	14W	683984	788888	26	17	33	5	12	8	63185
64	2	1	17	ON	2	68	38	149	22W	674288	698912	26	17	33	42	1228	63222	
				OFF	2	65	46	146	2W	682528	787456	26	22	3	3	12	5	79383
64	3	8	19	ON	2	48	14	133	12W	671128	695616	26	22	3	48	1219	79428	
				OFF	2	37	13	132	31W	688144	621968	26	22	18	18	1317	79818	
68	7	3	54	ON	2	58	56	132	52E	596144	617824	26	22	11	3	1328	79863	
				OFF	2	42	38	135	34E	628896	642672	27	4	7	39	1258	14859	
69	3	4	23	ON	2	52	32	189	33E	622448	624368	27	4	9	46	1311	14986	
				OFF	2	48	54	118	58E	623664	646368	27	5	37	15	1255	28235	
69	3	6	64	ON	2	31	38	115	18E	614784	637872	27	5	38	18	13	1	28298
				OFF	2	21	43	116	53E	598888	612272	27	5	42	28	1323	28548	
70	9	4	15	ON	2	42	28	98	19E	592528	614864	27	5	44	55	1332	28695	
				OFF	2	39	57	98	55E	681472	623344	27	7	9	48	1318	25788	
70	9	6	65	ON	2	29	49	92	58E	597952	619696	27	7	18	24	1313	25824	
				OFF	2	19	46	94	38E	598144	611688	27	7	12	55	1324	25975	
71	9	2	61	ON	2	59	26	68	38E	594368	615984	27	7	15	24	1333	26124	
				OFF	2	59	4	65	14E	642784	666128	27	8	35	28	1237	38928	
71	9	7	37	ON	2	29	46	78	19E	616432	638864	27	8	37	51	1258	31871	
				OFF	2	23	59	71	15E	598864	611584	27	8	42	55	1324	31375	
72	7	4	24	ON	2	58	46	38	25E	591168	612656	27	8	44	21	1329	31461	
				OFF	2	54	53	48	32E	639872	663288	27	18	5	38	1239	36338	
72	7	7	29	ON	2	42	32	44	57E	628384	651184	27	18	6	38	1248	36398	
				OFF	2	37	52	46	6E	681128	622976	27	18	9	44	13	9	36584
72	7	8	17	ON	2	32	36	47	18E	594968	616592	27	18	18	54	1315	36654	
				OFF	2	29	47	47	48E	598864	612352	27	18	12	12	1328	36732	
73	1	3	38	ON	2	6	39	28	11E	598816	611456	27	18	12	54	1323	36774	
				OFF	2	8	37	28	52E	619824	642384	27	11	48	37	1341	42517	
73	1	5	36	ON	3	5	23	29	33E	638448	661712	27	11	58	7	1345	42687	
				OFF	3	11	22	38	15E	661296	685424	27	11	51	36	1349	42696	
74	2	8	17	ON	2	15	49	4	25E	688816	713136	27	11	53	5	1353	42785	
				OFF	2	13	6	4	45E	688384	622128	27	13	16	28	1333	47788	
76	8	5	13	ON	3	7	33	38	8W	685128	627136	27	13	17	8	1335	47828	
				OFF	3	9	58	37	52W	672448	696992	27	16	22	6	1349	58926	
77	4	2	14	ON	2	9	26	62	44W	682784	787712	27	16	22	48	1358	58968	
				OFF	2	7	6	62	28W	614168	636512	27	17	47	52	1336	64872	
79	8	1	39	ON	2	37	11	112	18W	628176	642752	27	17	48	27	1338	64187	
				OFF	2	31	8	111	5W	592624	614176	27	28	48	58	1311	74458	
79	8	2	6	ON	2	24	17	189	59W	589616	611856	27	28	42	38	1317	74558	
				OFF	2	23	13	189	58W	591488	612896	27	28	44	9	1323	74649	
										592288	613744	27	28	44	25	1324	74665	

PHOTOGRAPHIC SUMMARY

FWD PAN CAMERA NO	286	E.2258	SLIT W/23A	FILTER	3484	FILM						
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI			
PRE-FLT	128	317.4										
1	3	8	14	37.8	ON	257	21.9	38.8	11.86	12.13	11.53	18.93
					OFF	262	24.1	39.5	11.89	12.19	11.59	18.99
2	3	3	12	31.7	ON	235	12.6	36.8	11.73	11.64	11.84	18.44
					OFF	248	14.5	37.8	11.76	11.78	11.18	18.58

5 5 2	27	71.4 ON	228	8.8	36.1	11.68	11.18	18.58	9.98
		OFF	235	12.3	36.2	11.73	11.61	11.81	18.41
5 5 6	31	82.8 ON	264	25.2	39.1	11.98	12.21	11.61	11.81
		OFF	272	29.3	48.9	11.94	12.29	11.69	11.89
6 3 4	14	37.8 ON	279	32.8	42.5	11.98	12.33	11.73	11.13
		OFF	283	34.5	43.6	11.99	12.35	11.75	11.15
6 3 8	28	74.1 ON	293	47.4	56.8	12.85	12.42	11.82	11.22
		OFF	293	49.7	61.2	12.85	12.42	11.82	11.22
7 3 1	7	18.5 ON	169	-49.7	61.8	11.26	8.8	8.8	8.8
		OFF	169	-48.8	59.1	11.26	8.8	8.8	8.8
7 3 5	18	26.4 ON	253	19.5	37.1	11.83	12.84	11.44	18.84
		OFF	256	21.1	37.5	11.85	12.18	11.58	18.98
7 3 6	28	52.9 ON	265	25.1	38.8	11.98	12.21	11.61	11.81
		OFF	278	27.9	39.9	11.93	12.26	11.66	11.86
8 7 5	8	21.2 ON	271	28.8	39.7	11.93	12.27	11.67	11.87
		OFF	273	29.2	48.3	11.95	12.28	11.68	11.88
9 7 8	11	29.1 ON	169	-43.2	58.5	11.26	8.8	8.8	8.8
		OFF	178	-41.3	48.5	11.26	8.8	8.8	8.8
9 6 5	39	183.2 ON	292	54.9	76.8	12.84	12.42	11.82	11.22
		OFF	291	55.9	85.9	12.84	12.42	11.82	11.22
18 2 1	17	45.8 ON	292	42.8	49.5	12.84	12.48	11.88	11.28
		OFF	292	44.6	51.6	12.84	12.41	11.81	11.21
11 5 1	27	71.4 ON	292	41.9	48.3	12.84	12.48	11.88	11.28
		OFF	292	44.7	51.5	12.84	12.41	11.81	11.21
13 6 1	18	47.6 ON	248	12.8	35.8	11.76	11.66	11.86	18.46
		OFF	247	15.6	35.4	11.88	11.85	11.25	18.65
14 8 5	37	97.9 ON	249	48.5	124.8	11.81	12.42	11.82	11.22
		OFF	235	44.4	129.8	11.73	12.41	11.81	11.21
16 8 8	15	39.7 ON	293	48.6	45.9	12.85	12.39	11.79	11.19
		OFF	293	42.3	47.5	12.85	12.48	11.88	11.28
28 7 2	58	132.2 ON	271	24.7	36.4	11.94	12.28	11.68	11.88
		OFF	285	31.2	38.9	12.81	12.31	11.71	11.11
28 7 7	28	52.9 ON	289	57.5	95.3	12.83	12.42	11.82	11.22
		OFF	284	57.8	188.4	12.88	12.42	11.82	11.22
21 7 1	22	58.2 ON	275	26.2	36.7	11.95	12.23	11.63	11.83
		OFF	281	29.2	37.8	11.99	12.28	11.68	11.88
22 1 3	13	34.4 ON	266	21.7	35.1	11.91	12.12	11.52	18.92
		OFF	271	23.6	35.7	11.93	12.18	11.58	18.98
22 1 5	15	39.7 ON	293	34.2	48.1	12.85	12.34	11.74	11.14
		OFF	294	36.1	41.2	12.85	12.36	11.76	11.16
22 1 7	131	346.5 ON	295	44.5	48.1	12.86	12.41	11.81	11.21
		OFF	295	55.4	69.4	12.86	12.42	11.82	11.22
22 1 8	82	216.9 ON	295	56.5	74.8	12.86	12.42	11.82	11.22
		OFF	292	57.9	94.8	12.84	12.42	11.82	11.22
23 1 1	7	18.5 ON	158	-51.4	58.3	11.15	8.8	8.8	8.8
		OFF	158	-58.5	56.4	11.15	8.8	8.8	8.8
23 5 4	36	95.2 ON	247	13.9	33.6	11.88	11.74	11.14	18.54
		OFF	261	19.3	34.4	11.88	12.83	11.43	18.83
23 5 7	64	169.3 ON	285	38.8	37.8	12.81	12.29	11.69	11.89
		OFF	294	37.8	42.1	12.85	12.37	11.77	11.17
24 2 2	43	113.7 ON	263	19.8	34.4	11.89	12.86	11.46	18.86

			OFF	277	26.8	36.1	11.97	12.23	11.63	11.83		
25	6	4	38	188.5	ON	295	54.9	65.8	12.86	12.42	11.82	11.22
					OFF	295	56.9	73.8	12.86	12.42	11.82	11.22
26	2	1	22	59.2	ON	295	42.3	45.8	12.86	12.41	11.81	11.21
					OFF	295	44.8	47.4	12.86	12.41	11.81	11.21
26	2	3	16	42.3	ON	295	49.5	53.5	12.86	12.42	11.82	11.22
					OFF	295	51.8	56.8	12.86	12.42	11.82	11.22
27	1	2	9	23.8	ON	295	44.8	47.2	12.86	12.41	11.81	11.21
					OFF	295	45.9	48.3	12.86	12.42	11.82	11.22
27	1	7	23	68.8	ON	295	54.9	64.6	12.86	12.42	11.82	11.22
					OFF	295	56.3	69.6	12.86	12.42	11.82	11.22
38	5	1	12	31.7	ON	295	45.8	46.6	12.86	12.41	11.81	11.21
					OFF	295	46.3	48.8	12.86	12.42	11.82	11.22
38	5	6	46	121.7	ON	236	47.7	138.3	11.73	12.42	11.82	11.22
					OFF	228	41.3	136.8	11.64	12.41	11.81	11.21
36	3	4	26	68.8	ON	285	28.6	34.8	12.81	12.28	11.68	11.88
					OFF	292	32.1	36.3	12.84	12.32	11.72	11.12
37	7	1	38	188.5	ON	279	25.4	33.6	11.98	12.22	11.62	11.02
					OFF	289	38.6	35.4	12.83	12.38	11.78	11.18
37	7	4	9	23.8	ON	294	59.4	77.8	12.85	12.42	11.82	11.22
					OFF	294	59.7	79.5	12.85	12.42	11.82	11.22
37	7	5	32	84.6	ON	255	54.8	128.4	11.85	12.42	11.82	11.22
					OFF	243	51.5	127.8	11.78	12.42	11.82	11.22
38	3	3	65	171.9	ON	266	19.2	32.8	11.91	12.83	11.43	18.83
					OFF	285	28.3	34.4	12.81	12.27	11.67	11.87
38	3	4	15	39.7	ON	294	32.8	36.2	12.85	12.33	11.73	11.13
					OFF	294	34.8	37.2	12.85	12.35	11.75	11.15
38	3	5	389	817.3	ON	294	36.4	38.8	12.85	12.36	11.76	11.16
					OFF	289	68.4	91.8	12.83	12.42	11.82	11.22
39	3	1	7	18.5	ON	158	-53.3	55.8	11.16	8.8	8.8	8.8
					OFF	158	-52.3	53.9	11.16	8.8	8.8	8.8
39	5	2	12	31.7	ON	236	6.9	31.8	11.74	11.85	18.45	9.85
					OFF	241	8.9	38.9	11.77	11.29	18.69	18.89
39	5	6	87	238.1	ON	271	21.5	32.3	11.94	12.12	11.52	18.92
					OFF	294	33.2	36.2	12.85	12.33	11.73	11.13
48	2	3	34	89.9	ON	281	26.1	33.3	11.99	12.23	11.63	11.83
					OFF	298	38.7	34.9	12.83	12.38	11.78	11.18
41	3	5	57	158.8	ON	295	56.9	63.3	12.86	12.42	11.82	11.22
					OFF	294	68.8	77.1	12.85	12.42	11.82	11.22
42	7	3	18	47.6	ON	295	44.8	42.5	12.86	12.41	11.81	11.21
					OFF	296	46.1	44.5	12.86	12.42	11.82	11.22
43	3	1	23	68.8	ON	295	56.9	62.3	12.86	12.42	11.82	11.22
					OFF	295	58.5	67.7	12.86	12.42	11.82	11.22
46	1	4	11	29.1	ON	295	57.9	63.8	12.86	12.42	11.82	11.22
					OFF	295	58.7	66.5	12.86	12.42	11.82	11.22
48	1	1	11	29.1	ON	255	12.9	29.6	11.85	11.67	11.87	18.47
					OFF	259	14.7	29.7	11.87	11.79	11.19	18.59
48	2	8	16	42.3	ON	295	43.4	48.5	12.86	12.41	11.81	11.21
					OFF	296	45.3	42.2	12.86	12.41	11.81	11.21
51	7	4	25	66.1	ON	222	46.9	137.1	11.65	12.42	11.82	11.22
					OFF	213	42.9	148.5	11.59	12.48	11.88	11.28

52	7	2	43	113.7	ON	289	28.4	31.9	12.03	12.27	11.67	11.07
					OFF	294	34.3	34.1	12.05	12.34	11.74	11.14
53	3	3	28	74.1	ON	269	18.6	29.4	11.93	12.01	11.41	10.81
					OFF	278	22.8	30.2	11.97	12.15	11.55	10.95
53	3	5	42	111.1	ON	281	24.3	30.5	11.99	12.19	11.59	10.99
					OFF	292	30.1	32.3	12.04	12.30	11.70	11.10
54	4	2	37	97.9	ON	273	20.8	29.6	11.95	12.09	11.49	10.89
					OFF	284	26.0	30.8	12.00	12.23	11.63	11.03
54	4	3	175	462.9	ON	294	41.7	37.8	12.05	12.40	11.80	11.20
					OFF	294	59.4	64.0	12.05	12.42	11.82	11.22
54	4	8	42	111.1	ON	293	61.8	75.5	12.05	12.42	11.82	11.22
					OFF	286	62.8	88.1	12.01	12.42	11.82	11.22
55	6	3	41	108.4	ON	272	20.0	29.3	11.94	12.06	11.46	10.86
					OFF	284	25.0	30.6	12.00	12.23	11.63	11.03
56	2	3	35	92.6	ON	286	27.2	30.8	12.01	12.25	11.65	11.05
					OFF	293	32.0	32.4	12.05	12.32	11.72	11.12
57	9	2	64	169.3	ON	291	29.8	31.4	12.04	12.29	11.69	11.09
					OFF	294	38.3	35.1	12.05	12.38	11.78	11.18
58	2	6	15	39.7	ON	295	54.1	49.8	12.05	12.42	11.82	11.22
					OFF	294	55.6	52.5	12.05	12.42	11.82	11.22
61	2	1	14	37.0	ON	256	13.1	27.6	11.87	11.68	11.08	10.48
					OFF	264	15.3	27.7	11.90	11.83	11.23	10.63
64	2	1	17	45.0	ON	259	12.9	27.1	11.87	11.66	11.06	10.46
					OFF	265	15.6	27.3	11.90	11.85	11.25	10.65
64	3	0	19	50.3	ON	294	38.8	33.9	12.05	12.38	11.78	11.18
					OFF	294	41.3	35.4	12.05	12.40	11.80	11.20
68	7	3	55	145.5	ON	293	29.6	29.4	12.05	12.29	11.69	11.09
					OFF	294	37.1	32.2	12.05	12.37	11.77	11.17
69	3	4	23	60.8	ON	291	28.2	28.8	12.04	12.27	11.67	11.07
					OFF	293	31.5	29.8	12.05	12.31	11.71	11.11
69	3	6	64	169.3	ON	295	46.3	37.7	12.05	12.42	11.82	11.22
					OFF	295	53.9	45.7	12.05	12.42	11.82	11.22
70	9	4	15	39.7	ON	294	37.4	31.9	12.05	12.37	11.77	11.17
					OFF	294	39.4	33.0	12.05	12.38	11.78	11.18
70	9	6	65	171.9	ON	295	47.8	36.7	12.06	12.42	11.82	11.22
					OFF	294	55.4	47.5	12.05	12.42	11.82	11.22
71	9	2	61	161.3	ON	280	21.9	27.0	11.98	12.13	11.53	10.93
					OFF	293	30.5	29.1	12.05	12.30	11.70	11.10
71	9	7	37	97.9	ON	295	48.0	38.5	12.06	12.42	11.82	11.22
					OFF	295	52.4	43.2	12.06	12.42	11.82	11.22
72	7	4	25	66.1	ON	282	22.5	26.9	11.99	12.15	11.55	10.95
					OFF	288	26.1	27.7	12.02	12.23	11.63	11.03
72	7	7	30	79.3	ON	294	37.3	31.5	12.05	12.37	11.77	11.17
					OFF	294	41.3	33.6	12.05	12.40	11.80	11.20
72	7	8	18	47.6	ON	295	45.7	36.5	12.05	12.42	11.82	11.22
					OFF	295	48.0	38.3	12.06	12.42	11.82	11.22
73	1	3	38	100.5	ON	293	63.2	65.9	12.05	12.42	11.82	11.22
					OFF	288	65.1	78.0	12.02	12.42	11.82	11.22
73	1	5	36	95.2	ON	278	65.7	91.4	11.97	12.42	11.82	11.22
					OFF	266	64.8	104.6	11.91	12.42	11.82	11.22
74	2	8	17	45.0	ON	294	58.4	51.5	12.05	12.42	11.82	11.22

			OFF	294	68.1	55.2	12.85	12.42	11.82	11.22
76	8 5	13	34.4 ON	273	66.0	96.5	11.94	12.42	11.82	11.22
			OFF	268	65.6	181.6	11.92	12.42	11.82	11.22
77	4 2	14	37.8 ON	293	62.5	68.4	12.85	12.42	11.82	11.22
			OFF	293	63.6	64.5	12.85	12.42	11.82	11.22
79	8 1	48	185.8 ON	294	42.4	32.6	12.85	12.48	11.88	11.28
			OFF	295	47.6	36.1	12.86	12.42	11.82	11.22
79	8 2	7	18.5 ON	295	52.9	41.3	12.85	12.42	11.82	11.22
			OFF	295	53.8	42.3	12.85	12.42	11.82	11.22

PHOTOGRAPHIC SUMMARY

AFT PAN CAMERA NO 287 0.1750 SLIT W/21			FILTER 3404 FILM							
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI	
PRE-FLT	118	298.9								
1	3 8	14	37.8 ON	331	21.9	38.2	12.22	12.46	11.86	11.26
			OFF	337	24.8	39.8	12.25	12.52	11.92	11.32
2	3 3	12	31.7 ON	383	12.4	35.5	12.09	11.96	11.36	10.76
			OFF	389	14.4	35.9	12.12	12.18	11.58	10.98
5	5 2	27	71.4 ON	293	7.8	34.8	12.85	11.49	10.89	10.29
			OFF	383	12.1	35.8	12.18	11.93	11.33	10.73
5	5 6	31	82.8 ON	339	25.1	38.7	12.26	12.54	11.94	11.34
			OFF	358	29.3	48.5	12.38	12.62	12.82	11.42
6	3 4	14	37.8 ON	359	32.8	42.2	12.34	12.66	12.86	11.46
			OFF	363	34.5	43.3	12.36	12.68	12.88	11.48
6	3 8	28	74.1 ON	374	47.4	56.7	12.48	12.75	12.15	11.55
			OFF	375	49.8	61.1	12.48	12.75	12.15	11.55
7	3 1	7	18.5 ON	219	-58.2	61.6	11.63	8.8	8.8	8.8
			OFF	219	-49.2	59.7	11.63	8.8	8.8	8.8
7	3 5	18	26.4 ON	325	19.4	36.4	12.28	12.37	11.77	11.17
			OFF	329	21.8	36.9	12.22	12.43	11.83	11.23
7	3 6	28	52.9 ON	348	25.8	38.3	12.26	12.54	11.94	11.34
			OFF	347	27.8	39.5	12.29	12.59	11.99	11.39
8	7 5	6	21.2 ON	348	28.8	39.4	12.38	12.68	12.88	11.48
			OFF	351	29.2	39.9	12.31	12.61	12.81	11.41
9	7 8	11	29.1 ON	219	-43.8	58.7	11.63	8.8	8.8	8.8
			OFF	228	-41.8	48.5	11.63	8.8	8.8	8.8
9	5 5	39	183.2 ON	374	55.8	76.8	12.48	12.75	12.15	11.55
			OFF	373	55.9	85.9	12.48	12.75	12.15	11.55
12	2 1	17	45.8 ON	374	42.8	49.4	12.48	12.73	12.13	11.53
			OFF	374	44.6	51.5	12.48	12.74	12.14	11.54
11	5 1	27	71.4 ON	374	41.9	48.2	12.48	12.73	12.13	11.53
			OFF	374	44.8	51.4	12.48	12.74	12.14	11.54
13	6 1	18	47.6 ON	389	12.7	33.8	12.12	11.98	11.38	10.78
			OFF	318	15.5	34.4	12.17	12.17	11.57	10.97
14	8 5	36	95.2 ON	321	48.7	124.8	12.18	12.75	12.15	11.55
			OFF	382	44.6	129.8	12.89	12.74	12.14	11.54
16	8 8	15	39.7 ON	375	48.6	45.7	12.48	12.72	12.12	11.52
			OFF	375	42.4	47.3	12.48	12.73	12.13	11.53
28	7 2	58	132.2 ON	348	24.7	35.9	12.38	12.53	11.93	11.33
			OFF	366	31.2	38.6	12.37	12.64	12.84	11.44

20	7	7	20	52.9	ON	371	57.5	95.2	12.39	12.75	12.15	11.55
					OFF	365	57.1	100.4	12.36	12.75	12.15	11.55
21	7	1	22	58.2	ON	353	26.1	36.2	12.31	12.56	11.96	11.36
					OFF	361	29.2	37.5	12.35	12.61	12.01	11.41
22	1	3	13	34.4	ON	342	21.6	34.6	12.27	12.45	11.85	11.25
					OFF	348	23.6	35.2	12.29	12.50	11.90	11.30
22	1	5	15	39.7	ON	375	34.2	39.8	12.40	12.67	12.07	11.47
					OFF	376	36.1	40.9	12.41	12.69	12.09	11.49
22	1	7	131	346.5	ON	378	44.5	48.0	12.41	12.74	12.14	11.54
					OFF	378	55.5	69.3	12.41	12.75	12.15	11.55
22	1	8	82	216.9	ON	377	56.5	73.9	12.41	12.75	12.15	11.55
					OFF	374	57.9	94.0	12.40	12.75	12.15	11.55
23	1	1	7	18.5	ON	204	-51.9	58.9	11.53	0.0	0.0	0.0
					OFF	204	-51.0	57.0	11.53	0.0	0.0	0.0
23	5	4	36	95.2	ON	318	13.7	32.4	12.17	12.06	11.46	10.86
					OFF	335	19.2	33.7	12.24	12.36	11.76	11.16
23	5	7	64	169.3	ON	366	29.9	37.4	12.37	12.62	12.02	11.42
					OFF	376	37.8	41.9	12.41	12.70	12.10	11.50
24	2	2	45	119.0	ON	337	19.8	33.7	12.25	12.38	11.78	11.18
					OFF	356	26.0	35.6	12.33	12.56	11.96	11.36
25	6	4	36	95.2	ON	378	55.0	65.7	12.41	12.75	12.15	11.55
					OFF	377	57.0	73.8	12.41	12.75	12.15	11.55
26	2	1	22	58.2	ON	377	42.3	44.8	12.41	12.73	12.13	11.53
					OFF	378	44.8	47.2	12.41	12.74	12.14	11.54
26	2	3	16	42.3	ON	378	49.6	53.4	12.42	12.75	12.15	11.55
					OFF	378	51.1	56.0	12.42	12.75	12.15	11.55
27	1	2	9	23.8	ON	378	44.9	47.0	12.41	12.74	12.14	11.54
					OFF	378	45.9	48.2	12.41	12.75	12.15	11.55
27	1	7	23	60.8	ON	378	55.0	64.6	12.41	12.75	12.15	11.55
					OFF	378	56.4	69.6	12.41	12.75	12.15	11.55
30	6	1	11	29.1	ON	378	45.1	46.5	12.41	12.74	12.14	11.54
					OFF	378	46.3	47.9	12.41	12.75	12.15	11.55
30	6	6	47	124.3	ON	303	47.9	130.3	12.10	12.75	12.15	11.55
					OFF	284	41.6	136.9	12.00	12.73	12.13	11.53
36	3	4	26	68.8	ON	366	28.6	34.5	12.37	12.61	12.01	11.41
					OFF	375	32.1	35.9	12.40	12.65	12.05	11.45
37	7	1	38	100.5	ON	358	25.3	33.1	12.34	12.55	11.95	11.35
					OFF	371	30.5	35.1	12.39	12.63	12.03	11.43
37	7	4	9	23.8	ON	377	59.4	76.9	12.41	12.75	12.15	11.55
					OFF	376	59.7	79.4	12.41	12.75	12.15	11.55
37	7	5	31	82.0	ON	328	55.0	120.4	12.21	12.75	12.15	11.55
					OFF	312	51.7	126.9	12.14	12.75	12.15	11.55
38	8	3	65	171.9	ON	339	19.2	31.2	12.26	12.36	11.76	11.16
					OFF	364	28.3	34.0	12.36	12.60	12.00	11.40
38	8	4	15	39.7	ON	373	32.8	35.9	12.40	12.66	12.06	11.46
					OFF	374	34.8	36.9	12.40	12.68	12.08	11.48
38	8	5	308	814.7	ON	374	35.4	37.8	12.40	12.69	12.09	11.49
					OFF	368	60.4	91.7	12.38	12.75	12.15	11.55
39	9	1	7	18.5	ON	203	-53.8	56.4	11.52	0.0	0.0	0.0
					OFF	203	-52.8	54.4	11.52	0.0	0.0	0.0
39	5	2	12	31.7	ON	302	6.7	28.6	12.09	11.35	10.75	10.15

			OFF	388	8.8	29.8	12.12	11.68	11.88	18.48	
39	5	6	86	227.5 ON	346	21.5	31.7	12.29	12.44	11.84	11.24
				OFF	373	33.2	35.9	12.48	12.66	12.86	11.46
48	2	3	34	89.9 ON	359	26.1	32.9	12.34	12.56	11.96	11.36
				OFF	378	38.7	34.5	12.38	12.63	12.83	11.43
41	8	5	57	158.8 ON	375	57.8	63.2	12.48	12.75	12.15	11.55
				OFF	374	68.8	77.8	12.48	12.75	12.15	11.55
42	7	3	17	45.8 ON	375	44.1	42.4	12.48	12.74	12.14	11.54
				OFF	376	46.1	44.3	12.41	12.75	12.15	11.55
43	9	1	23	68.8 ON	375	57.8	62.3	12.48	12.75	12.15	11.55
				OFF	375	58.6	67.7	12.48	12.75	12.15	11.55
46	1	4	11	29.1 ON	375	58.8	63.7	12.48	12.75	12.15	11.55
				OFF	375	58.8	66.5	12.48	12.75	12.15	11.55
48	1	1	11	29.1 ON	325	12.8	28.3	12.28	11.99	11.39	18.79
				OFF	331	14.6	28.6	12.22	12.12	11.52	18.92
48	2	8	15	39.7 ON	375	43.5	48.4	12.48	12.74	12.14	11.54
				OFF	376	45.4	42.8	12.41	12.74	12.14	11.54
51	7	4	25	66.1 ON	284	47.2	137.2	12.88	12.75	12.15	11.55
				OFF	273	43.2	148.7	11.95	12.74	12.14	11.54
52	7	2	43	113.7 ON	368	28.4	31.5	12.38	12.68	12.88	11.48
				OFF	374	34.3	33.9	12.48	12.67	12.87	11.47
53	3	3	28	74.1 ON	344	18.6	28.6	12.28	12.33	11.73	11.13
				OFF	355	22.8	29.6	12.32	12.48	11.88	11.28
53	3	5	42	111.1 ON	359	24.3	38.8	12.34	12.52	11.92	11.32
				OFF	372	38.1	31.9	12.39	12.63	12.83	11.43
54	4	2	37	97.9 ON	352	28.7	29.8	12.31	12.42	11.82	11.22
				OFF	365	26.8	38.4	12.36	12.56	11.96	11.36
54	4	3	174	468.2 ON	377	41.7	37.6	12.41	12.73	12.13	11.53
				OFF	377	59.5	64.8	12.41	12.75	12.15	11.55
54	4	8	42	111.1 ON	376	61.9	75.4	12.41	12.75	12.15	11.55
				OFF	368	62.8	88.8	12.38	12.75	12.15	11.55
55	6	3	41	128.4 ON	358	28.8	28.6	12.38	12.39	11.79	11.19
				OFF	365	25.9	38.2	12.36	12.56	11.96	11.36
56	2	3	35	92.6 ON	366	27.2	38.4	12.38	12.58	11.98	11.38
				OFF	375	32.8	32.1	12.48	12.65	12.85	11.45
57	9	2	64	169.3 ON	374	29.6	31.1	12.48	12.62	12.82	11.42
				OFF	377	38.3	34.9	12.41	12.71	12.11	11.51
58	2	6	15	39.7 ON	378	54.1	49.7	12.41	12.75	12.15	11.55
				OFF	378	55.7	52.4	12.41	12.75	12.15	11.55
61	2	1	14	37.8 ON	333	13.8	26.3	12.23	12.88	11.48	18.88
				OFF	339	15.3	26.7	12.26	12.16	11.56	18.96
64	2	1	17	45.8 ON	334	12.8	25.8	12.23	11.98	11.38	18.78
				OFF	341	15.5	26.3	12.27	12.17	11.57	18.97
64	3	8	19	58.3 ON	377	38.8	33.7	12.41	12.71	12.11	11.51
				OFF	377	41.4	35.2	12.41	12.73	12.13	11.53
68	7	3	54	142.8 ON	375	29.6	29.8	12.48	12.62	12.82	11.42
				OFF	377	37.1	32.8	12.41	12.78	12.18	11.58
69	3	4	23	68.8 ON	374	28.2	28.4	12.48	12.68	12.88	11.48
				OFF	376	31.5	29.5	12.41	12.64	12.84	11.44
69	3	6	64	169.3 ON	378	46.4	37.5	12.41	12.75	12.15	11.55
				OFF	378	53.9	45.6	12.41	12.75	12.15	11.55

78 9 4	15	39.7 ON	377	37.4	31.7	12.41	12.78	12.18	11.58
		OFF	377	39.5	32.7	12.41	12.71	12.11	11.51
78 9 6	65	171.9 ON	378	47.9	38.6	12.41	12.75	12.15	11.55
		OFF	378	55.4	47.4	12.41	12.75	12.15	11.55
71 9 2	61	161.3 ON	368	21.8	26.4	12.35	12.45	11.85	11.25
		OFF	375	38.5	28.8	12.48	12.63	12.03	11.43
71 9 7	37	97.9 ON	378	48.8	38.4	12.41	12.75	12.15	11.55
		OFF	378	52.5	43.9	12.41	12.75	12.15	11.55
72 7 4	24	63.5 ON	362	22.5	26.4	12.35	12.47	11.87	11.27
		OFF	371	26.1	27.3	12.39	12.56	11.96	11.36
72 7 7	29	76.7 ON	377	37.3	31.3	12.41	12.78	12.18	11.58
		OFF	377	41.4	33.4	12.41	12.73	12.13	11.53
72 7 8	17	45.8 ON	378	45.8	36.3	12.41	12.75	12.15	11.55
		OFF	378	48.1	38.2	12.41	12.75	12.15	11.55
73 1 3	38	188.5 ON	376	63.2	65.8	12.41	12.75	12.15	11.55
		OFF	378	65.2	77.9	12.38	12.75	12.15	11.55
73 1 5	36	95.2 ON	357	65.7	91.3	12.33	12.75	12.15	11.55
		OFF	343	64.9	104.5	12.27	12.75	12.15	11.55
74 2 8	17	45.8 ON	377	58.5	51.4	12.41	12.75	12.15	11.55
		OFF	377	68.1	55.1	12.41	12.75	12.15	11.55
76 8 5	13	34.4 ON	351	66.8	96.3	12.31	12.75	12.15	11.55
		OFF	345	65.7	101.4	12.28	12.75	12.15	11.55
77 4 2	14	37.8 ON	376	62.5	68.3	12.41	12.75	12.15	11.55
		OFF	376	63.6	64.4	12.41	12.75	12.15	11.55
79 8 1	39	183.2 ON	378	42.4	32.4	12.41	12.73	12.13	11.53
		OFF	378	47.6	36.8	12.41	12.75	12.15	11.55
79 8 2	6	15.9 ON	378	53.8	41.2	12.41	12.75	12.15	11.55
		OFF	378	53.8	42.2	12.41	12.75	12.15	11.55

STELLAR-INDEX SUMMARY

CAMERA DATA	ET	FILM	FILTER	GRID	ASSEMBLY NO	D183
STELLAR	2.8	3481	NONE	131		
INDEX	18508	3488	W/21	132		

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	17	1.68	3.37										
1 3 8	3	0.38	0.59	23	38	32	2	55	158W	2	53	148W	54
2 3 3	2	0.28	0.48	8	57	51	2	66	178E	2	64	179W	48
5 5 2	4	0.48	0.79	5	26	56	2	71	182E	2	67	118E	92
5 5 6	5	0.49	0.99	5	32	12	2	52	128E	2	47	122E	92
6 3 4	3	0.38	0.59	7	4	47	2	42	181E	2	48	181E	48
6 3 8	5	0.49	0.99	7	18	18	2	21	185E	2	16	186E	79
7 3 1	1	0.18	0.28	8	7	47	1	27	79W	1	29	79W	42
7 3 5	2	0.28	0.48	8	38	44	2	59	71E	2	57	72E	42
7 3 6	4	0.48	0.79	8	32	27	2	52	75E	2	49	76E	66
8 7 5	2	0.28	0.48	18	3	38	2	48	54E	2	47	54E	35
9 7 8	2	0.28	0.48	11	11	2	1	38	123W	1	41	122W	59
9 6 5	6	0.59	1.19	11	44	52	2	3	39E	3	2	48E	185
18 2 1	3	0.38	0.59	13	8	41	2	29	13E	2	26	13E	55

11	5	1	5	0.49	0.99	14	38	28	2	38	9W	2	26	8W	77
13	6	1	3	0.30	0.59	17	29	27	2	67	71W	2	64	67W	62
14	8	5	6	0.59	1.19	19	24	18	3	31	69W	3	37	67W	114
16	8	8	3	0.30	0.59	22	8	31	2	33	123W	2	38	122W	58
20	7	2	8	0.79	1.58	4	3	49	2	53	139E	2	45	142E	133
20	7	7	4	0.40	0.79	4	19	18	3	8	151E	3	11	151E	62
21	7	1	4	0.40	0.79	5	34	21	2	52	117E	2	48	119E	69
22	1	3	3	0.30	0.59	7	3	6	2	57	92E	2	55	93E	48
22	1	5	3	0.30	0.59	7	6	57	2	42	98E	2	39	99E	48
22	1	7	20	1.98	3.96	7	18	24	2	28	101E	2	8	104E	313
22	1	8	13	1.29	2.57	7	16	11	2	5	104E	3	7	105E	201
23	1	1	1	0.10	0.20	8	9	55	1	27	82W	1	29	82W	41
23	5	4	6	0.59	1.19	8	30	54	2	66	62E	2	60	68E	108
23	5	7	10	0.99	1.98	8	35	43	2	47	74E	2	37	76E	161
24	2	2	7	0.69	1.39	10	2	46	2	59	45E	2	52	49E	124
25	6	4	6	0.59	1.19	11	45	7	2	10	35E	2	5	36E	98
26	2	1	4	0.40	0.79	13	9	56	2	32	9E	2	28	10E	65
26	2	3	3	0.30	0.59	13	12	35	2	21	11E	2	18	12E	50
27	1	2	2	0.20	0.40	14	40	53	2	28	12W	2	27	11W	35
27	1	7	4	0.40	0.79	14	45	9	2	11	9W	2	7	9W	67
30	6	1	3	0.30	0.59	19	11	8	2	28	80W	2	27	79W	40
30	6	6	7	0.69	1.39	19	26	57	3	35	71W	3	44	69W	150
30	3	4	4	0.40	0.79	4	6	19	2	50	138E	2	46	139E	75
37	7	1	6	0.59	1.19	5	35	25	2	54	114E	2	48	116E	105
37	7	4	2	0.20	0.40	5	48	15	2	2	124E	2	0	124E	35
37	7	5	5	0.49	0.99	5	54	53	3	24	127E	3	30	128E	100
38	8	3	10	0.99	1.98	7	3	42	2	60	87E	2	50	92E	171
38	8	4	3	0.30	0.59	7	7	41	2	45	94E	2	43	95E	40
38	8	5	45	4.45	8.91	7	8	47	2	41	95E	3	6	102E	712
39	8	1	1	0.10	0.20	8	11	24	1	27	85W	1	29	85W	40
39	5	2	2	0.20	0.40	8	30	15	2	73	47E	2	71	51E	48
39	5	6	13	1.29	2.57	0	34	26	2	58	66E	2	45	72E	218
40	2	3	6	0.59	1.19	10	5	49	2	53	46E	2	48	48E	93
41	0	5	9	0.89	1.78	11	46	24	2	11	32E	2	2	33E	144
42	7	3	3	0.30	0.59	13	11	22	2	31	7E	2	28	7E	55
43	9	1	4	0.40	0.79	14	46	25	2	11	12W	2	7	12W	68
46	1	4	2	0.20	0.40	19	16	55	2	10	80W	2	8	80W	40
40	1	1	2	0.20	0.40	22	2	28	2	67	145W	2	66	143W	42
48	2	0	3	0.30	0.59	22	11	22	2	33	129W	2	30	128W	50
51	7	4	4	0.40	0.79	2	59	21	3	38	173E	3	43	174E	91
52	7	2	7	0.69	1.39	4	6	59	2	51	135E	2	44	137E	115
53	3	3	5	0.49	0.99	5	34	15	2	62	106E	2	57	109E	83
53	3	5	7	0.69	1.39	5	35	50	2	56	110E	2	49	113E	112
54	4	2	6	0.59	1.19	7	4	52	2	59	85E	2	54	88E	101
54	4	3	26	2.57	5.15	7	10	55	2	35	94E	2	9	98E	408
54	4	8	7	0.69	1.39	7	19	10	2	2	99E	3	3	99E	111
55	0	3	7	0.69	1.39	8	34	41	2	60	62E	2	54	66E	112
56	2	3	6	0.59	1.19	10	6	43	2	52	44E	2	47	46E	95
57	9	2	14	0.99	1.98	11	37	28	2	50	22E	2	40	25E	161
58	2	6	3	0.30	0.59	13	15	3	2	19	6E	2	17	6E	49
61	2	1	3	0.30	0.59	17	32	52	2	68	80W	2	65	78W	50

64	2	1	3	0.30	0.59	22	2	50	2	68	149W	2	65	145W	58
64	3	0	3	0.30	0.59	22	10	5	2	40	133W	2	37	132W	58
68	7	3	9	0.89	1.78	4	7	26	2	50	132E	2	42	135E	140
69	3	4	4	0.40	0.79	5	37	2	2	52	109E	2	48	111E	68
69	3	6	10	0.99	1.98	5	42	15	2	31	115E	2	21	116E	160
70	9	4	3	0.30	0.59	7	9	35	2	42	90E	2	39	90E	49
70	9	6	10	0.99	1.98	7	12	42	2	29	93E	2	19	94E	162
71	9	2	10	0.99	1.98	8	35	15	2	59	60E	2	50	65E	156
71	9	7	6	0.59	1.19	8	42	42	2	29	70E	2	24	71E	99
72	7	4	4	0.40	0.79	10	5	25	2	58	38E	2	54	40E	73
72	7	7	5	0.49	0.99	10	9	31	2	42	45E	2	37	46E	83
72	7	8	3	0.30	0.59	10	11	59	2	32	47E	2	29	47E	55
73	1	3	6	0.59	1.19	11	48	24	2	6	28E	2	0	28E	103
73	1	5	6	0.59	1.19	11	51	23	3	5	29E	3	11	30E	102
74	2	8	3	0.30	0.59	13	16	7	2	15	4E	2	13	4E	53
76	8	5	3	0.30	0.59	16	21	53	3	7	38W	3	9	37W	47
77	4	2	3	0.30	0.59	17	47	39	2	9	62W	2	7	62W	48
79	8	1	7	0.69	1.39	20	40	45	2	37	112W	2	31	111W	105
79	8	2	2	0.20	0.40	20	43	56	2	24	109W	2	23	109W	29

NOTE - OPERATION 79-R-2 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 - TLM DATA INDICATED NORMAL SYSTEM PERFORMANCE DURING THE ENTIRE A MISSION.

- A. 1039-1
- B. DRY
- C. PERFORMANCE ESTIMATE - PART TWO

RATE ESTIMATE

FWD PAN CAMERA NUMBER 206

OPN NO	FR	R	A	TUR/	INST	INST	SCAN	RATE	PCT	RATE
				DUR	CPS	ANG-VEL	R/SEC	I/SEC	CALIB	REQD
1	3	0	14	6	5 ON 1332	0.3845	0.03244	2.416	57.98	-2.9 -1.5
					OFF 41	0.3916	0.03305	2.461	59.06	-2.9 -1.6
2	3	3	12	6	5 ON 1122	0.3515	0.02966	2.209	53.01	-2.9 -2.3
					OFF 35	0.3582	0.03023	2.251	54.02	-2.9 -2.1
5	5	2	27	6	5 ON 1045	0.3403	0.02872	2.138	51.32	-2.9 -2.1
					OFF 79	0.3520	0.02970	2.212	53.08	-2.9 -2.6
5	5	6	31	6	5 ON 1362	0.3947	0.03338	2.480	59.51	-2.9 -2.4
					OFF 79	0.4073	0.03437	2.559	61.42	-2.9 -2.6
6	3	4	14	6	5 ON 1513	0.4176	0.03524	2.624	62.98	-2.9 -2.8
					OFF 35	0.4223	0.03563	2.653	63.68	-2.9 -2.9
6	3	8	28	6	5 ON 1837	0.4373	0.03690	2.748	65.95	-2.9 -5.8
					OFF 66	0.4375	0.03691	2.749	65.97	-2.9 -6.0
7	3	1	7	6	5 ON -112	0.2531	0.02136	1.590	38.17	-2.9 11.9
					OFF 29	0.2531	0.02136	1.590	38.17	-2.9 11.3
7	3	5	10	6	5 ON 1264	0.3776	0.03186	2.373	56.94	-2.9 -2.4
					OFF 29	0.3828	0.03230	2.405	57.73	-2.9 -2.4
7	3	6	20	6	5 ON 1367	0.3955	0.03337	2.485	59.64	-2.9 -2.4
					OFF 53	0.4041	0.03410	2.539	60.93	-2.9 -2.5
8	7	5	9	6	5 ON 1425	0.4049	0.03416	2.544	61.05	-2.9 -2.6
					OFF 22	0.4083	0.03445	2.565	61.57	-2.9 -2.7
9	7	0	11	6	5 ON 72	0.2323	0.01960	1.460	35.03	-2.9 -1.3
					OFF 46	0.2323	0.01960	1.460	35.03	-2.9 -2.7
9	6	5	39	6	5 ON 2181	0.4369	0.03686	2.745	65.88	-2.9 -4.1
					OFF 92	0.4344	0.03665	2.729	65.50	-2.9 -2.2
10	2	1	17	6	5 ON 1725	0.4367	0.03685	2.744	65.85	-2.9 -4.5
					OFF 42	0.4370	0.03687	2.746	65.89	-2.9 -5.1
11	5	1	27	6	5 ON 1706	0.4365	0.03683	2.743	65.82	-2.9 -4.1
					OFF 64	0.4370	0.03687	2.746	65.90	-2.9 -5.2
13	6	1	18	6	4 ON 1154	0.3587	0.03027	2.254	54.10	-2.9 -2.7
					OFF 49	0.3694	0.03117	2.321	55.71	-2.9 -2.1
14	8	5	37	6	4 ON 2632	0.3727	0.03145	2.342	56.20	-2.9 2.5
					OFF 101	0.3509	0.02961	2.205	52.91	-2.9 2.2
16	8	0	15	6	4 ON 1684	0.4370	0.03694	2.751	66.02	-2.9 -3.2
					OFF 37	0.4381	0.03697	2.753	66.07	-2.9 -3.9
20	7	2	50	6	4 ON 1382	0.4053	0.03420	2.547	61.12	-2.9 -1.0
					OFF 120	0.4263	0.03597	2.679	64.29	-2.9 -0.6
20	7	7	20	6	4 ON 2310	0.4324	0.03649	2.717	65.20	-2.9 1.4
					OFF 49	0.4240	0.03584	2.669	64.05	-2.9 1.7
21	7	1	22	6	4 ON 1400	0.4105	0.03464	2.579	61.90	-2.9 -0.9
					OFF 56	0.4203	0.03547	2.641	63.39	-2.9 -0.7
22	1	3	13	6	4 ON 1330	0.3978	0.03356	2.499	59.98	-2.3 -0.7
					OFF 35	0.4048	0.03415	2.543	61.04	-2.3 -0.5

22	1	5	15	6	4	ON	1561	0.4378	0.03694	2.751	66.02	-2.3	0.8
						OFF	35	0.4393	0.03707	2.760	66.24	-2.3	-0.7
22	1	7	131	6	4	ON	1768	0.4411	0.03722	2.771	66.51	-2.3	-4.2
						OFF	300	0.4412	0.03723	2.772	66.53	-2.3	-3.8
22	1	8	82	6	4	ON	2115	0.4409	0.03720	2.770	66.48	-2.3	-2.9
						OFF	188	0.4359	0.03678	2.739	65.73	-2.3	1.9
23	1	1	7	6	4	ON	-62	0.2359	0.01991	1.482	35.58	-2.3	2.7
						OFF	28	0.2359	0.01991	1.482	35.58	-2.3	2.0
23	5	4	36	6	4	ON	1196	0.3698	0.03120	2.324	55.77	-2.3	-1.9
						OFF	95	0.3900	0.03291	2.450	58.81	-2.3	-0.9
23	5	7	64	6	4	ON	1484	0.4260	0.03594	2.677	64.24	-2.3	-0.0
						OFF	148	0.4398	0.03711	2.763	66.32	-2.3	-1.6
24	2	2	43	6	4	ON	1304	0.3924	0.03311	2.466	59.18	-2.3	-0.9
						OFF	111	0.4139	0.03493	2.601	62.42	-2.3	-0.2
25	6	4	38	6	4	ON	2043	0.4413	0.03724	2.773	66.55	-2.3	-4.2
						OFF	85	0.4407	0.03719	2.769	66.46	-2.3	-2.7
26	2	1	22	6	4	ON	1729	0.4408	0.03719	2.770	66.47	-2.3	-3.5
						OFF	52	0.4412	0.03723	2.772	66.53	-2.3	-4.3
26	2	3	16	6	4	ON	1889	0.4416	0.03726	2.775	66.59	-2.3	-5.1
						OFF	37	0.4416	0.03726	2.775	66.59	-2.3	-5.1
27	1	2	9	6	4	ON	1782	0.4412	0.03723	2.772	66.53	-2.3	-4.3
						OFF	22	0.4413	0.03724	2.773	66.55	-2.3	-4.6
27	1	7	23	6	4	ON	2039	0.4413	0.03724	2.773	66.55	-2.3	-4.3
						OFF	54	0.4410	0.03721	2.771	66.50	-2.3	-3.4
30	6	1	12	6	4	ON	1789	0.4412	0.03723	2.772	66.53	-2.3	-4.4
						OFF	27	0.4414	0.03724	2.773	66.56	-2.3	-4.7
30	6	6	46	6	4	ON	2737	0.3523	0.02973	2.214	53.13	-2.3	2.2
						OFF	137	0.3293	0.02778	2.069	49.65	-2.3	3.2
36	3	4	26	6	4	ON	1489	0.4267	0.03600	2.681	64.34	-2.3	0.0
						OFF	62	0.4364	0.03682	2.742	65.81	-2.3	0.2
37	7	1	38	6	4	ON	1433	0.4171	0.03520	2.621	62.90	-2.3	-0.2
						OFF	92	0.4325	0.03649	2.717	65.21	-2.3	0.1
37	7	4	9	6	4	ON	2203	0.4400	0.03712	2.764	66.35	-2.3	-1.1
						OFF	22	0.4397	0.03710	2.763	66.30	-2.3	-0.5
37	7	5	32	6	4	ON	2601	0.3815	0.03219	2.397	57.53	-2.3	2.1
						OFF	87	0.3629	0.03062	2.280	54.72	-2.3	1.9
38	8	3	65	6	4	ON	1328	0.3975	0.03354	2.498	59.94	-2.2	-0.0
						OFF	158	0.4266	0.03599	2.680	64.32	-2.2	0.1
38	8	4	15	6	4	ON	1567	0.4389	0.03703	2.758	66.18	-2.2	0.2
						OFF	35	0.4396	0.03710	2.762	66.30	-2.2	-0.7
36	8	5	309	6	4	ON	1632	0.4401	0.03713	2.765	66.36	-2.2	-1.4
						OFF	699	0.4321	0.03646	2.715	65.16	-2.2	1.5
39	8	1	7	6	4	ON	-12	0.2361	0.01992	1.483	35.60	-2.2	0.3
						OFF	27	0.2361	0.01992	1.483	35.60	-2.2	-0.4
39	5	2	12	6	4	ON	1118	0.3532	0.02981	2.219	53.27	-2.2	-3.4
						OFF	35	0.3600	0.03045	2.267	54.41	-2.2	-2.0
39	5	6	87	6	4	ON	1359	0.4056	0.03422	2.548	61.16	-2.2	-0.5
						OFF	225	0.4392	0.03706	2.760	66.23	-2.2	0.0
40	2	3	34	6	4	ON	1451	0.4206	0.03549	2.643	63.42	-2.2	-0.1
						OFF	00	0.4337	0.03660	2.725	65.40	-2.2	0.1
41	8	5	57	6	4	ON	2084	0.4414	0.03724	2.773	66.56	-2.2	-3.7

42	7	3	18	6	OFF	131	0.4401	0.03714	2.765	66.37	-2.2	-0.8
					4 ON	1781	0.4415	0.03725	2.774	66.57	-2.2	-4.2
					OFF	42	0.4417	0.03727	2.775	66.60	-2.2	-4.7
43	9	1	23	6	4 ON	2082	0.4414	0.03724	2.773	66.56	-2.2	-3.7
					OFF	55	0.4418	0.03721	2.771	66.50	-2.2	-2.7
46	1	4	11	6	4 ON	2113	0.4412	0.03723	2.772	66.53	-2.2	-3.2
					OFF	27	0.4409	0.03720	2.770	66.49	-2.2	-2.6
48	1	1	11	6	4 ON	1247	0.3808	0.03213	2.393	57.43	-2.2	-1.7
					OFF	29	0.3871	0.03266	2.432	58.37	-2.2	-1.3
48	2	0	16	6	4 ON	1780	0.4415	0.03725	2.774	66.57	-2.2	-4.0
					OFF	37	0.4417	0.03727	2.775	66.60	-2.2	-4.5
51	7	4	25	6	4 ON	2859	0.3320	0.02801	2.086	50.06	-2.2	2.1
					OFF	78	0.3191	0.02693	2.005	48.12	-2.2	2.5
52	7	2	43	6	4 ON	1518	0.4317	0.03642	2.712	65.09	-2.2	0.2
					OFF	102	0.4399	0.03712	2.764	66.33	-2.2	-1.0
53	3	3	28	6	4 ON	1354	0.4027	0.03398	2.530	60.73	-2.2	-0.7
					OFF	70	0.4159	0.03510	2.613	62.72	-2.2	-0.2
53	3	5	42	6	4 ON	1449	0.4204	0.03547	2.641	63.39	-2.2	-0.1
					OFF	99	0.4364	0.03682	2.742	65.00	-2.2	0.2
54	4	2	37	6	4 ON	1391	0.4004	0.03446	2.566	61.58	-2.6	-0.9
					OFF	08	0.4241	0.03578	2.664	63.95	-2.6	-0.4
54	4	3	175	6	4 ON	1754	0.4397	0.03710	2.763	66.31	-2.6	-4.0
					OFF	395	0.4393	0.03707	2.760	66.24	-2.6	-2.8
54	4	8	42	6	4 ON	2249	0.4381	0.03697	2.753	66.07	-2.6	-0.3
					OFF	98	0.4280	0.03612	2.689	64.55	-2.6	0.9
55	8	3	41	6	4 ON	1379	0.4062	0.03427	2.552	61.25	-2.6	-1.0
					OFF	99	0.4239	0.03577	2.664	63.92	-2.6	-0.4
56	2	3	35	6	4 ON	1503	0.4278	0.03610	2.688	64.51	-2.6	-0.4
					OFF	82	0.4379	0.03694	2.751	66.03	-2.6	-0.6
57	9	2	64	6	4 ON	1549	0.4348	0.03668	2.732	65.56	-2.6	-0.2
					OFF	148	0.4393	0.03706	2.760	66.24	-2.6	-3.1
58	2	6	15	6	4 ON	2006	0.4402	0.03715	2.766	66.38	-2.6	-5.0
					OFF	36	0.4401	0.03713	2.765	66.36	-2.6	-4.6
61	2	1	14	6	4 ON	1280	0.3864	0.03261	2.428	58.27	-2.6	-2.1
					OFF	37	0.3941	0.03325	2.476	59.43	-2.6	-1.6
64	2	1	17	6	4 ON	1284	0.3873	0.03268	2.434	58.41	-2.6	-2.1
					OFF	45	0.3965	0.03345	2.491	59.78	-2.6	-1.5
64	3	0	19	6	4 ON	1720	0.4395	0.03708	2.761	66.27	-2.6	-3.4
					OFF	45	0.4398	0.03711	2.763	66.32	-2.6	-4.1
68	7	3	55	6	4 ON	1570	0.4376	0.03692	2.750	65.99	-2.6	-0.1
					OFF	127	0.4393	0.03706	2.760	66.24	-2.6	-3.0
69	3	4	23	6	4 ON	1548	0.4346	0.03667	2.731	65.54	-2.6	-0.2
					OFF	55	0.4381	0.03697	2.753	66.07	-2.6	-1.0
69	3	6	64	6	4 ON	1861	0.4403	0.03715	2.766	66.39	-2.6	-5.0
					OFF	147	0.4402	0.03714	2.766	66.38	-2.6	-4.9
70	9	4	15	6	4 ON	1705	0.4393	0.03707	2.760	66.25	-2.6	-3.1
					OFF	36	0.4396	0.03710	2.762	66.30	-2.6	-3.7
70	9	6	65	6	4 ON	1892	0.4403	0.03715	2.767	66.40	-2.6	-5.2
					OFF	149	0.4401	0.03713	2.765	66.36	-2.6	-4.6
71	0	2	61	6	4 ON	1449	0.4188	0.03534	2.632	63.16	-2.6	-0.7
					OFF	143	0.4380	0.03695	2.752	66.04	-2.6	-0.7

71	9	7	37	6	4	ON	1896	0.4403	0.03716	2.767	66.40	-2.6	-5.2
						OFF	86	0.4403	0.03715	2.766	66.40	-2.6	-5.1
72	7	4	25	6	4	ON	1462	0.4210	0.03553	2.645	63.49	-2.6	-8.6
						OFF	68	0.4308	0.03635	2.707	64.96	-2.6	-8.3
72	7	7	30	6	4	ON	1708	0.4394	0.03707	2.761	66.25	-2.6	-3.2
						OFF	70	0.4399	0.03712	2.764	66.34	-2.6	-4.3
72	7	8	18	6	4	ON	1856	0.4403	0.03715	2.766	66.39	-2.6	-5.0
						OFF	42	0.4403	0.03716	2.767	66.40	-2.6	-5.2
73	1	3	38	6	4	ON	2245	0.4382	0.03697	2.753	66.08	-2.6	-8.7
						OFF	90	0.4300	0.03628	2.702	64.84	-2.6	0.4
73	1	5	36	6	4	ON	2424	0.4151	0.03502	2.608	62.59	-2.6	0.5
						OFF	89	0.3981	0.03359	2.501	60.03	-2.6	0.5
74	2	8	17	6	4	ON	2110	0.4396	0.03710	2.762	66.30	-2.6	-3.7
						OFF	40	0.4393	0.03707	2.760	66.24	-2.6	-3.8
76	8	5	13	6	4	ON	2466	0.4075	0.03438	2.560	61.45	-2.6	0.5
						OFF	34	0.4008	0.03382	2.519	60.45	-2.6	0.4
77	4	2	14	6	4	ON	2215	0.4386	0.03701	2.756	66.13	-2.6	-1.6
						OFF	35	0.4381	0.03697	2.753	66.06	-2.6	-8.7
79	8	1	40	6	4	ON	1809	0.4401	0.03713	2.765	66.36	-2.6	-4.7
						OFF	92	0.4404	0.03716	2.767	66.40	-2.6	-5.3
79	8	2	7	6	4	ON	2001	0.4402	0.03715	2.766	66.39	-2.6	-5.1
						OFF	16	0.4402	0.03714	2.766	66.38	-2.6	-5.0

RATE ESTIMATE

AFT PAN CAMERA NUMBER 207

OPN	NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG-VEL	SCAN R/SEC	RATE I/SEC	PCT CALIB	RATE REQD	
1	3	0	14	6	5 ON	1315	0.3845	0.03244	2.416	57.98	-2.4	-2.2
					OFF	41	0.3915	0.03303	2.460	59.03	-2.4	-2.2
2	3	3	12	6	5 ON	1135	0.3520	0.02970	2.212	53.08	-2.4	-2.8
					OFF	35	0.3506	0.03026	2.253	54.07	-2.4	-2.7
5	5	2	27	6	5 ON	1058	0.3409	0.02877	2.142	51.41	-2.4	-2.6
					OFF	79	0.3524	0.02974	2.214	53.14	-2.4	-3.2
5	5	6	31	6	5 ON	1375	0.3945	0.03320	2.478	59.48	-2.4	-3.0
					OFF	79	0.4069	0.03433	2.557	61.36	-2.4	-3.2
6	3	4	14	6	5 ON	1526	0.4171	0.03519	2.620	62.09	-2.4	-3.4
					OFF	35	0.4216	0.03558	2.649	63.58	-2.4	-3.5
6	3	8	20	6	5 ON	1850	0.4351	0.03672	2.734	65.62	-2.4	-6.4
					OFF	66	0.4353	0.03673	2.735	65.64	-2.4	-6.5
7	3	1	7	6	5 ON	-99	0.2548	0.02150	1.601	38.42	-2.4	12.2
					OFF	29	0.2548	0.02150	1.601	38.42	-2.4	11.6
7	3	5	10	6	5 ON	1277	0.3777	0.03187	2.373	56.95	-2.4	-3.0
					OFF	29	0.3020	0.03230	2.405	57.73	-2.4	-3.0
7	3	6	20	6	5 ON	1300	0.3953	0.03336	2.484	59.61	-2.4	-3.1
					OFF	53	0.4037	0.03407	2.537	60.88	-2.4	-3.2
8	7	5	8	6	5 ON	1438	0.4045	0.03413	2.542	61.00	-2.4	-3.3
					OFF	22	0.4079	0.03442	2.563	61.51	-2.4	-3.3
9	7	0	11	6	5 ON	85	0.2334	0.01970	1.467	35.20	-2.4	-1.2
					OFF	46	0.2334	0.01970	1.467	35.20	-2.4	-2.6
9	6	5	39	6	5 ON	2114	0.4346	0.03667	2.731	65.54	-2.4	-4.3

				OFF	92	0.4335	0.03658	2.724	65.37	-2.4	-2.8	
10	2	1	17	6	5 ON	1738	0.4344	0.03665	2.729	65.50	-2.4	-5.3
				OFF	42	0.4347	0.03668	2.731	65.56	-2.4	-5.9	
11	5	1	27	6	5 ON	1719	0.4342	0.03663	2.728	65.47	-2.4	-4.9
				OFF	64	0.4348	0.03668	2.732	65.56	-2.4	-5.9	
13	6	1	18	6	4 ON	1167	0.3591	0.03030	2.256	54.15	-2.4	-3.3
				OFF	49	0.3696	0.03119	2.322	55.74	-2.4	-2.7	
14	8	5	36	6	4 ON	2645	0.3728	0.03146	2.343	56.22	-2.4	3.3
				OFF	101	0.3514	0.02965	2.208	52.98	-2.4	3.1	
16	8	0	15	6	4 ON	1697	0.4357	0.03676	2.730	65.70	-2.4	-4.0
				OFF	37	0.4361	0.03680	2.740	65.77	-2.4	-4.7	
20	7	2	50	6	4 ON	1395	0.4050	0.03417	2.544	61.07	-2.4	-1.6
				OFF	120	0.4256	0.03591	2.674	64.18	-2.4	-1.2	
20	7	7	20	6	4 ON	2323	0.4316	0.03641	2.712	65.00	-2.4	1.7
				OFF	49	0.4240	0.03578	2.664	63.94	-2.4	2.1	
21	7	1	22	6	4 ON	1422	0.4100	0.03460	2.576	61.83	-2.4	-1.5
				OFF	56	0.4197	0.03541	2.637	63.29	-2.4	-1.3	
22	1	3	13	6	4 ON	1343	0.3974	0.03353	2.497	59.93	-1.8	-1.4
				OFF	35	0.4043	0.03411	2.540	60.96	-1.8	-1.2	
22	1	5	15	6	4 ON	1574	0.4361	0.03680	2.740	65.76	-1.8	-0.8
				OFF	35	0.4360	0.03685	2.744	65.86	-1.8	-1.7	
22	1	7	131	6	4 ON	1781	0.4380	0.03704	2.758	66.19	-1.8	-4.9
				OFF	300	0.4391	0.03705	2.759	66.21	-1.8	-4.0	
22	1	8	82	6	4 ON	2120	0.4387	0.03701	2.756	66.15	-1.8	-3.1
				OFF	100	0.4348	0.03669	2.732	65.57	-1.8	2.2	
23	1	1	7	6	4 ON	-49	0.2377	0.02006	1.493	35.84	-1.8	3.1
				OFF	20	0.2377	0.02006	1.493	35.84	-1.8	2.4	
23	5	4	36	6	4 ON	1200	0.3699	0.03121	2.324	55.70	-1.8	-2.5
				OFF	95	0.3897	0.03288	2.449	58.77	-1.8	-1.6	
23	5	7	64	6	4 ON	1497	0.4251	0.03587	2.671	64.11	-1.8	-0.7
				OFF	148	0.4374	0.03690	2.740	65.95	-1.8	-2.5	
24	2	2	45	6	4 ON	1317	0.3921	0.03309	2.464	59.13	-1.8	-1.5
				OFF	111	0.4133	0.03487	2.597	62.32	-1.8	-0.9	
25	6	4	36	6	4 ON	2056	0.4392	0.03706	2.760	66.23	-1.8	-4.5
				OFF	85	0.4385	0.03700	2.755	66.13	-1.8	-2.9	
26	2	1	22	6	4 ON	1742	0.4386	0.03701	2.756	66.14	-1.8	-4.3
				OFF	52	0.4390	0.03705	2.759	66.21	-1.8	-5.0	
26	2	3	16	6	4 ON	1902	0.4395	0.03709	2.762	66.20	-1.8	-5.6
				OFF	37	0.4396	0.03709	2.762	66.20	-1.8	-5.6	
27	1	2	9	6	4 ON	1795	0.4391	0.03705	2.759	66.21	-1.8	-5.0
				OFF	22	0.4392	0.03706	2.760	66.23	-1.8	-5.2	
27	1	7	23	6	4 ON	2052	0.4392	0.03706	2.760	66.24	-1.8	-4.6
				OFF	54	0.4389	0.03703	2.757	66.18	-1.8	-3.7	
30	6	1	11	6	4 ON	1902	0.4391	0.03705	2.759	66.21	-1.8	-5.0
				OFF	27	0.4393	0.03706	2.760	66.24	-1.8	-5.3	
30	6	6	47	6	4 ON	2750	0.3526	0.02975	2.216	53.17	-1.8	3.0
				OFF	137	0.3299	0.02784	2.073	49.75	-1.8	4.1	
36	3	4	26	6	4 ON	1502	0.4250	0.03593	2.675	64.21	-1.8	-0.6
				OFF	62	0.4353	0.03673	2.735	65.65	-1.8	-0.5	
37	7	1	38	6	4 ON	1446	0.4164	0.03514	2.616	62.79	-1.8	-0.9
				OFF	92	0.4315	0.03641	2.711	65.06	-1.8	-0.6	

37	7	4	9	6	4	ON	2216	0.4376	0.03692	2.750	65.99	-1.8	-1.3
						OFF	22	0.4373	0.03690	2.747	65.94	-1.8	-0.7
37	7	5	31	6	4	ON	2614	0.3814	0.03218	2.396	57.51	-1.8	2.7
						OFF	87	0.3631	0.03064	2.281	54.75	-1.8	2.6
38	8	3	65	6	4	ON	1341	0.3944	0.03328	2.478	59.47	-2.5	-2.1
						OFF	158	0.4228	0.03567	2.656	63.75	-2.5	-1.3
38	8	4	15	6	4	ON	1580	0.4335	0.03658	2.724	65.37	-2.5	-1.5
						OFF	35	0.4342	0.03663	2.728	65.47	-2.5	-2.3
38	8	5	308	6	4	ON	1645	0.4346	0.03667	2.731	65.54	-2.5	-3.0
						OFF	699	0.4282	0.03613	2.690	64.57	-2.5	1.1
39	8	1	7	6	4	ON	1	0.2362	0.01993	1.484	35.62	-2.5	-0.0
						OFF	27	0.2362	0.01993	1.484	35.62	-2.5	-0.0
39	5	2	12	6	4	ON	1131	0.3511	0.02963	2.206	52.95	-2.5	-4.6
						OFF	35	0.3586	0.03026	2.253	54.87	-2.5	-4.1
39	5	6	86	6	4	ON	1382	0.4023	0.03394	2.528	60.66	-2.5	-1.9
						OFF	205	0.4336	0.03659	2.725	65.39	-2.5	-1.7
40	2	3	34	6	4	ON	1464	0.4169	0.03518	2.620	62.87	-2.5	-1.5
						OFF	00	0.4298	0.03626	2.700	64.81	-2.5	-1.2
41	8	5	57	6	4	ON	2097	0.4362	0.03681	2.741	65.78	-2.5	-4.7
						OFF	131	0.4347	0.03668	2.731	65.55	-2.5	-1.6
42	7	3	17	6	4	ON	1794	0.4363	0.03682	2.742	65.80	-2.5	-5.6
						OFF	42	0.4366	0.03684	2.743	65.84	-2.5	-6.0
43	9	1	23	6	4	ON	2095	0.4362	0.03681	2.741	65.78	-2.5	-4.7
						OFF	55	0.4357	0.03677	2.738	65.71	-2.5	-3.6
46	1	4	11	6	4	ON	2126	0.4360	0.03679	2.739	65.74	-2.5	-4.1
						OFF	27	0.4357	0.03676	2.738	65.70	-2.5	-3.6
48	1	1	11	6	4	ON	1260	0.3781	0.03190	2.376	57.02	-2.5	-3.0
						OFF	29	0.3842	0.03242	2.414	57.94	-2.5	-2.7
48	2	0	15	6	4	ON	1793	0.4363	0.03682	2.741	65.80	-2.5	-5.5
						OFF	37	0.4366	0.03684	2.743	65.83	-2.5	-5.8
51	7	4	25	6	4	ON	2872	0.3303	0.02787	2.076	49.81	-2.5	2.3
						OFF	78	0.3177	0.02681	1.996	47.91	-2.5	2.8
52	7	2	43	6	4	ON	1531	0.4278	0.03609	2.688	64.50	-2.5	-1.2
						OFF	102	0.4345	0.03666	2.730	65.51	-2.5	-2.6
53	3	3	28	6	4	ON	1367	0.3995	0.03371	2.510	60.24	-2.5	-2.1
						OFF	70	0.4124	0.03480	2.591	62.19	-2.5	-1.6
53	3	5	42	6	4	ON	1462	0.4167	0.03516	2.618	62.84	-2.5	-1.5
						OFF	99	0.4323	0.03648	2.716	65.19	-2.5	-1.1
54	4	2	37	6	4	ON	1404	0.4086	0.03448	2.567	61.61	-1.9	-1.3
						OFF	88	0.4241	0.03578	2.664	63.95	-1.9	-0.8
54	4	3	174	6	4	ON	1767	0.4385	0.03700	2.755	66.12	-1.9	-4.6
						OFF	395	0.4379	0.03695	2.752	66.04	-1.9	-2.8
54	4	8	42	6	4	ON	2262	0.4365	0.03683	2.743	65.82	-1.9	-0.3
						OFF	98	0.4290	0.03611	2.689	64.54	-1.9	1.4
55	6	3	41	6	4	ON	1392	0.4064	0.03429	2.554	61.29	-1.9	-1.5
						OFF	99	0.4239	0.03577	2.664	63.92	-1.9	-0.9
56	2	3	35	6	4	ON	1516	0.4277	0.03609	2.688	64.50	-1.9	-0.8
						OFF	82	0.4362	0.03680	2.741	65.78	-1.9	-1.3
57	9	2	64	6	4	ON	1562	0.4346	0.03667	2.731	65.53	-1.9	-0.6
						OFF	148	0.4379	0.03695	2.751	66.03	-1.9	-3.7
58	2	6	15	6	4	ON	2019	0.4390	0.03705	2.759	66.21	-1.9	-5.1

					OFF	36	0.4389	0.03703	2.757	66.18	-1.9	-4.7
61	2	1	14	6	4 ON	1293	0.3870	0.03265	2.432	58.36	-1.9	-2.5
					OFF	37	0.3946	0.03329	2.479	59.50	-1.9	-2.0
64	2	1	17	6	4 ON	1297	0.3879	0.03273	2.437	58.49	-1.9	-2.5
					OFF	45	0.3969	0.03349	2.494	59.85	-1.9	-1.9
64	3	0	19	6	4 ON	1733	0.4381	0.03697	2.753	66.07	-1.9	-3.9
					OFF	45	0.4386	0.03700	2.756	66.13	-1.9	-4.5
68	7	3	54	6	4 ON	1583	0.4359	0.03678	2.739	65.73	-1.9	-0.9
					OFF	127	0.4379	0.03695	2.751	66.03	-1.9	-3.6
69	3	4	23	6	4 ON	1561	0.4345	0.03666	2.730	65.51	-1.9	-0.6
					OFF	55	0.4365	0.03683	2.743	65.82	-1.9	-1.7
69	3	6	64	6	4 ON	1874	0.4391	0.03705	2.759	66.21	-1.9	-5.4
					OFF	147	0.4390	0.03704	2.759	66.20	-1.9	-5.1
70	9	4	15	6	4 ON	1718	0.4380	0.03696	2.752	66.05	-1.9	-3.7
					OFF	36	0.4384	0.03699	2.754	66.10	-1.9	-4.3
70	9	6	65	6	4 ON	1905	0.4392	0.03706	2.759	66.23	-1.9	-5.5
					OFF	149	0.4389	0.03703	2.758	66.18	-1.9	-4.8
71	9	2	61	6	4 ON	1462	0.4189	0.03535	2.632	63.17	-1.9	-1.1
					OFF	143	0.4363	0.03682	2.742	65.80	-1.9	-1.5
71	9	7	37	6	4 ON	1909	0.4392	0.03706	2.759	66.23	-1.9	-5.5
					OFF	86	0.4391	0.03705	2.759	66.22	-1.9	-5.3
72	7	4	24	6	4 ON	1475	0.4211	0.03553	2.646	63.50	-1.9	-1.1
					OFF	60	0.4307	0.03634	2.706	64.94	-1.9	-0.7
72	7	7	29	6	4 ON	1721	0.4380	0.03696	2.752	66.05	-1.9	-3.8
					OFF	70	0.4387	0.03701	2.756	66.15	-1.9	-4.7
72	7	8	17	6	4 ON	1869	0.4391	0.03705	2.759	66.21	-1.9	-5.4
					OFF	42	0.4392	0.03706	2.759	66.23	-1.9	-5.5
73	1	3	38	6	4 ON	2258	0.4366	0.03684	2.743	65.84	-1.9	-0.7
					OFF	90	0.4299	0.03628	2.701	64.83	-1.9	0.9
73	1	5	36	6	4 ON	2437	0.4152	0.03503	2.609	62.61	-1.9	1.2
					OFF	89	0.3985	0.03363	2.504	60.09	-1.9	1.3
74	2	8	17	6	4 ON	2123	0.4384	0.03699	2.754	66.10	-1.9	-3.8
					OFF	40	0.4379	0.03695	2.752	66.04	-1.9	-3.0
76	8	5	13	6	4 ON	2479	0.4077	0.03440	2.562	61.48	-1.9	1.1
					OFF	34	0.4012	0.03385	2.521	60.50	-1.9	1.1
77	4	2	14	6	4 ON	2228	0.4371	0.03688	2.746	65.91	-1.9	-1.6
					OFF	35	0.4365	0.03683	2.743	65.82	-1.9	-0.7
79	8	1	39	6	4 ON	1822	0.4389	0.03703	2.757	66.18	-1.9	-5.1
					OFF	92	0.4392	0.03706	2.759	66.23	-1.9	-5.6
79	8	2	6	6	4 ON	2014	0.4391	0.03705	2.759	66.21	-1.9	-5.3
					OFF	16	0.4390	0.03704	2.758	66.20	-1.9	-5.1

RAMP PROFILE

R= 6 A= 5 PERIOD= 3025

R= 0.3518 A= 0.0356

TUR	PER	CPS	ANG-V
0	3.838	2.2606	0.02357
100	3.829	2.2612	0.02362
200	3.792	0.2637	0.02385
300	3.727	2.2683	0.02427

400	3.648	0.2747	0.02485
500	3.534	0.2830	0.02559
600	3.415	0.2928	0.02648
700	3.289	0.3040	0.02750
800	3.160	0.3165	0.02862
900	3.032	0.3298	0.02983
1000	2.909	0.3438	0.03129
1100	2.792	0.3581	0.03239
1200	2.655	0.3767	0.03407
1300	2.530	0.3953	0.03575
1400	2.424	0.4126	0.03732
1500	2.336	0.4280	0.03871
1600	2.268	0.4409	0.03988
1700	2.226	0.4493	0.04064
1800	2.222	0.4500	0.04070
1900	2.221	0.4503	0.04073
2000	2.221	0.4502	0.04072
2100	2.224	0.4497	0.04068
2200	2.239	0.4465	0.04039
2300	2.298	0.4352	0.03936
2400	2.375	0.4210	0.03808
2500	2.471	0.4047	0.03660
2600	2.586	0.3867	0.03497
2700	2.720	0.3677	0.03326
2800	2.846	0.3514	0.03178
2900	2.966	0.3371	0.03049
3000	3.092	0.3234	0.02925
3100	3.221	0.3105	0.02808
3200	3.349	0.2986	0.02701
3300	3.472	0.2880	0.02605
3400	3.586	0.2789	0.02522
3500	3.683	0.2715	0.02455
3600	3.761	0.2659	0.02405
3700	3.813	0.2623	0.02372
3800	3.838	0.2606	0.02357

RAMP PROFILE

R= 6 A= 4 PERIOD= 3805

R= 0.3518 A= 0.0988

TUR	PER	CPS	ANG-V
0	4.142	0.2414	0.02184
100	4.130	0.2422	0.02190
200	4.078	0.2452	0.02218
300	3.990	0.2506	0.02267
400	3.871	0.2583	0.02337
500	3.729	0.2681	0.02425
600	3.573	0.2799	0.02531
700	3.410	0.2932	0.02652
800	3.246	0.3080	0.02786
900	3.087	0.3240	0.02930
1000	2.936	0.3406	0.03081

1100	2.795	0.3578	0.03236
1200	2.637	0.3793	0.03430
1300	2.496	0.4007	0.03624
1400	2.377	0.4207	0.03805
1500	2.281	0.4385	0.03966
1600	2.224	0.4496	0.04066
1700	2.218	0.4508	0.04077
1800	2.214	0.4516	0.04084
1900	2.213	0.4519	0.04087
2000	2.213	0.4518	0.04086
2100	2.216	0.4513	0.04082
2200	2.221	0.4503	0.04073
2300	2.238	0.4468	0.04041
2400	2.323	0.4304	0.03893
2500	2.430	0.4115	0.03722
2600	2.559	0.3908	0.03534
2700	2.711	0.3689	0.03337
2800	2.860	0.3497	0.03163
2900	3.005	0.3327	0.03009
3000	3.161	0.3164	0.02861
3100	3.323	0.3009	0.02722
3200	3.487	0.2868	0.02594
3300	3.648	0.2741	0.02479
3400	3.798	0.2633	0.02381
3500	3.930	0.2545	0.02301
3600	4.035	0.2478	0.02241
3700	4.107	0.2435	0.02202
3800	4.142	0.2414	0.02184

CLOCK CORRELATION SUMMARY

ORDER FIT ONE

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.346499700 05	0.545666700 05	0.3464996910 05	0.0009	8	
0.400192630 05	0.5993596700 05	0.4001926580 05	-0.0028	9	
0.795602770 05	0.9947698100 05	0.7956027780 05	-0.0008	16	
0.348044130 05	0.1411211160 06	0.3480441270 05	0.0003	24	
0.796631810 05	0.1859798890 06	0.7966318150 05	-0.0005	32	
0.348230580 05	0.2275397670 06	0.3482305740 05	0.0006	40	
0.743702480 05	0.2670869560 06	0.7437024440 05	0.0036	47	
0.348738640 05	0.3139905750 06	0.3487386110 05	0.0029	56	
0.797763380 05	0.3588930550 06	0.7977633880 05	-0.0008	64	
0.348877570 05	0.4004044760 06	0.3488775770 05	-0.0007	72	
0.743394080 05	0.4398561310 06	0.7433941070 05	-0.0027	79	

A2=-0.19916698190 05 A1= 0.9999999498010 00

SIGMA=0.00183 NO. POINTS= 11

RATIO OF CLOCK TIME TO SYS TIME= 0.1000000050200 01

ORDER FIT TWO

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.346499700 05	0.545666700 05	0.3464996750 05	0.0025	8	

0.40019263D 05	0.599359670D 05	0.400192644D 05	-0.0014	9
0.79560277D 05	0.994769810D 05	0.795602776D 05	-0.0006	16
0.34804413D 05	0.141121118D 06	0.348044134D 05	-0.0004	24
0.79663181D 05	0.185979889D 06	0.796631820D 05	-0.0018	32
0.34823058D 05	0.227539767D 06	0.348230589D 05	-0.0009	40
0.74370248D 05	0.267086956D 06	0.743702459D 05	0.0021	47
0.34873864D 05	0.313990575D 06	0.348738621D 05	0.0019	56
0.79776338D 05	0.358893055D 06	0.797763390D 05	-0.0010	64
0.34887757D 05	0.400404476D 06	0.348877569D 05	0.0001	72
0.74339408D 05	0.439856131D 06	0.743394086D 05	-0.0006	79

A0=-0.1991670193D 05 A1= 0.999999994191D 00

A2=-0.9285934852916D-13

SIGMA=0.00136 NO. POINTS= 11

CLOCK OPERATIONS

FWD PAN CAMERA NUMBER 206

OPN NO	FR		H	M	S	DEC	BINARY EQUIVALENT		
1	3	0	14	ON	23	30	32	18149	00001000101001110111010001000
				OFF	23	31	13	18190	000010001010110000111010110000
2	3	3	12	ON	0	57	51	23387	00001011001001101101101111000
				OFF	0	58	26	23422	00001011001010110010000110000
5	5	2	27	ON	5	26	56	39533	00010010110110011100111001000
				OFF	5	28	15	39612	00010010111000110111001100000
5	5	6	31	ON	5	32	12	39849	000100110000000000110000101000
				OFF	5	33	31	39920	000100110000101000000011000000
6	3	4	14	ON	7	4	47	45463	000101011010011000101101111000
				OFF	7	5	22	45430	0001010110101010101010000110000
6	3	8	28	ON	7	10	10	45727	00010101110011011110100011000
				OFF	7	11	16	45793	000101011101010111101110101000
7	3	1	7	ON	8	7	47	49184	00010111011100111110100000000
				OFF	8	8	16	49213	00010111011101110111001001000
7	3	5	10	ON	8	32	44	50560	00011000000110111110000000000
				OFF	8	31	13	50589	0001100000011110110101001000
7	3	6	20	ON	8	32	27	50664	00011000001010001001001000000
				OFF	8	33	20	50717	00011000001011110000101001000
8	7	5	8	ON	10	3	30	56127	00011010110000110111000011000
				OFF	10	3	52	56149	00011010110001100010000001000
9	7	0	11	ON	11	11	2	60179	00011100101100100001000111000
				OFF	11	11	48	60225	00011100101101111010111101000
9	6	5	39	ON	11	44	52	62208	00011101101010011100000000000
				OFF	11	46	24	62300	00011101101101001111101100000
10	2	1	17	ON	13	8	41	67238	0010000000001111100001110000
				OFF	13	9	23	67200	00100000000101001110010000000
11	5	1	27	ON	14	38	20	72625	00100010101000010101101101000
				OFF	14	39	32	72689	00100010101001001001010110100
13	6	1	10	ON	17	29	27	82884	00100111100001011010110100000
				OFF	17	30	16	82933	00100111100010111010100001000
14	8	5	37	ON	19	24	10	89767	00101010110011011110001011000
				OFF	19	25	51	89868	00101010110110100011011100000
16	8	0	15	ON	22	8	31	99627	00101111100000010111111111000

		OFF	22	9	8	99664	00101111100001100000010000000
20	7	2	50	ON	4	3 49 128946	00111001101010111119101010000
		OFF	4	5	49	121066	00111001101110101001000010000
20	7	7	20	ON	4	19 18 121875	00111010000111010101000111000
		OFF	4	20	7	121924	00111010001000110100110100000
21	7	1	22	ON	5	34 21 126378	0011100010000110000000010000
		OFF	5	35	17	126434	00111100010010011101011010000
22	1	3	13	ON	7	3 6 131703	001111011001101000001011000
		OFF	7	3	41	131738	00111110110100010100110010000
22	1	5	15	ON	7	6 57 131934	00111110111010010011100110000
		OFF	7	7	32	131969	0011111011101010111111101000
22	1	7	131	ON	7	17 24 132141	00111111000000100111111001000
		OFF	7	15	24	132441	00111111001001110001110101000
22	1	8	82	ON	7	16 11 132488	00111111001011001101101000000
		OFF	7	19	19	132676	00111111010000111100110100000
23	1	1	7	ON	8	9 55 135712	01000000101101100110100000000
		OFF	8	10	23	135740	01000000101110011101001100000
23	5	4	36	ON	8	30 54 136971	0100000101010000000101111000
		OFF	8	32	29	137066	01000001010110111011000010000
23	5	7	64	ON	8	35 43 137259	0100000101110011001111111000
		OFF	8	38	11	137407	01000001100001010101000011000
24	2	2	43	ON	10	2 46 142482	01000011111100001101001010000
		OFF	16	4	37	142593	01000011111111001011111010000
25	6	4	30	ON	11	45 7 148624	01000101101111010010100000000
		OFF	11	46	32	148709	01000101110100011110100010000
26	2	1	22	ON	13	9 56 153712	01001001010010111010110000000
		OFF	13	10	48	153764	010010010101001000000010100000
26	2	3	16	ON	13	12 35 153872	01001001010111110011010000000
		OFF	13	13	12	153909	01001001011000111011100001000
27	1	2	9	ON	14	40 53 159169	01001011111001011100111010000
		OFF	14	41	15	159191	01001011111010000111111011000
27	1	7	23	ON	14	45 9 159426	01001100000001010010111010000
		OFF	14	46	3	159480	01001100000010111100011000000
30	6	1	12	ON	19	11 8 175385	01010011101000010100110101000
		OFF	19	11	35	175412	01010011101001001001100100000
30	6	6	46	ON	19	26 57 176333	01010100000101010000011001000
		OFF	19	29	14	176470	01010100001001011011111110000
36	3	4	26	ON	4	6 19 207495	01100010111100001111101011000
		OFF	4	7	21	207557	01100010111110001000110001000
37	7	1	38	ON	5	35 25 212842	0110010101111011011000010000
		OFF	5	36	57	212934	01100101100010001110101110000
37	7	4	9	ON	5	48 15 213612	01100101110110111010111100000
		OFF	5	48	37	213634	01100101110111100101111010000
37	7	5	32	ON	5	54 53 214010	01100110000011000100010010000
		OFF	5	56	20	214097	01100110000101101110001101000
38	8	3	65	ON	7	3 42 218139	0110100000001000100101111000
		OFF	7	6	20	218297	01101000000101111001010101000
38	8	4	15	ON	7	7 41 218378	01101000001000010111100010000
		OFF	7	8	16	218413	01101000001001011011111001000
38	8	5	309	ON	7	0 47 218443	01101000001010010110011111000
		OFF	7	20	26	219142	01101000011111101011101110000

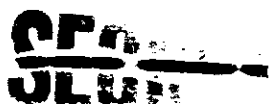
39	8	1	7	ON	8	11	24	222201	01101001111101000010010101000
				OFF	8	11	51	222228	011010011111011101110000100000
39	5	2	12	ON	8	30	15	223332	011010100111111000011010100000
				OFF	8	30	50	223367	011010101000001000111101011000
39	5	6	87	ON	8	34	26	223582	01121010100111001011100110000
				OFF	8	37	51	223787	01101010101101011011111111000
40	2	3	34	ON	10	5	49	229065	011011010011101000000100101000
				OFF	10	7	9	229145	0110110101000001111000110101000
41	9	5	57	ON	11	46	24	235101	011100000001101011011010001000
				OFF	11	46	35	235232	011100000001010101101100000000
42	7	3	18	ON	13	11	22	240199	01110010100010010010101011000
				OFF	13	12	4	240241	01110010100011100100101101000
43	9	1	23	ON	14	46	25	245902	01110101010000010101010110000
				OFF	14	47	20	245957	011101010100010000000110001000
46	1	4	11	ON	19	16	55	262132	011111001111110100001001000000
				OFF	19	17	22	262159	011111010000000011101010011000
48	1	1	11	ON	22	2	28	272064	10000001101110101111000000000
				OFF	22	2	57	272093	10000001101111100111101001000
48	2	0	16	ON	22	11	22	272598	10000001111111000001111110000
				OFF	22	11	59	272635	100000100000000001010001111000
51	7	4	25	ON	2	59	21	289877	10001010001110010110000001000
				OFF	3	0	39	289955	10001010010000101110010111000
52	7	2	43	ON	4	6	59	293936	10001100001010001101110000000
				OFF	4	0	41	294038	100011000011010101000111110000
53	3	3	28	ON	5	34	15	299171	10001110101001111110010111000
				OFF	5	35	25	299241	100011101011000000111000101000
53	3	5	42	ON	5	35	50	299267	10001110101100111001110111000
				OFF	5	37	29	299366	10001110101111111011001110000
54	4	2	37	ON	7	4	52	304600	10010001001111111001100000000
				OFF	7	6	20	304696	10010001010010100101011000000
54	4	3	175	ON	7	10	55	304972	10010001011011000000011100000
				OFF	7	17	30	305367	100100011001110000011111011000
54	4	6	42	ON	7	19	10	305466	10010001101010000101010010000
				OFF	7	20	40	305564	10010001101010000100101100000
55	8	3	41	ON	8	34	41	309997	10010011110100010110111001000
				OFF	8	36	20	310096	10010011110111011000010000000
56	2	3	35	ON	10	6	43	315520	10010110011100111010000000000
				OFF	10	8	5	315602	10010110011111011010001010000
57	9	2	64	ON	11	37	28	320964	10011001000011000010110100000
				OFF	11	39	56	321112	10011001000111100011111000000
58	2	6	15	ON	13	15	3	326819	10011011110101101110010111000
				OFF	13	15	39	326955	10011011110110110100101011000
61	2	1	14	ON	17	32	52	342289	10100011001101110101001101000
				OFF	17	33	29	342326	10100011001110111101011110000
64	2	1	17	ON	22	2	50	358487	10101010111100001001111011000
				OFF	22	3	35	358532	10101010111101100001110100000
64	3	0	19	ON	22	10	5	358922	10101011001001011011100010000
				OFF	22	10	50	358967	10101011001010110011011011000
68	7	3	55	ON	4	7	26	380362	10110101010111101110100010000
				OFF	4	9	33	380489	10110101011011100110100101000
69	3	4	23	ON	5	37	2	385738	10110111111011110010100010000

69	3	6	64	OFF	5	37	57	385793	10110111111101011101111101000
				ON	5	42	15	386051	10111000000101010101110111000
				OFF	5	44	42	386198	101110000001001110100111110000
70	9	4	15	ON	7	9	35	391292	1011101010001010100010001100000
				OFF	7	10	11	391328	1011101010001100110000100000000
70	9	6	65	ON	7	12	42	391478	10111010101010111101011110000
				OFF	7	15	11	391627	101110101011111000000011111000
71	9	2	61	ON	8	35	15	396432	10111101000010001001010000000
				OFF	8	37	38	396575	101111010000110100000100011000
71	9	7	37	ON	8	42	42	396878	101111010001111110000010110000
				OFF	8	44	8	396964	10111101010010011000010100000
72	7	4	25	ON	10	5	25	401942	10111111100111001111101010000
				OFF	10	6	25	401982	10111111101001000100110110000
72	7	7	30	ON	10	9	31	402087	10111111101110101110001011000
				OFF	10	17	41	402157	10111111110000110110111001000
72	7	8	18	ON	10	11	59	402236	10111111110011010001001100000
				OFF	10	12	41	402270	10111111110100100011001110000
73	1	3	38	ON	11	48	24	400020	11000010100011110010000100000
				OFF	11	49	54	400110	11000010100110100001110110000
73	1	5	36	ON	11	51	23	400200	11000010101001010001101000000
				OFF	11	52	52	400289	11000010101011111111011101000
74	2	8	17	ON	13	16	7	413284	11000101000100011011010100000
				OFF	13	16	47	413324	11000101000101101001011100000
76	8	5	13	ON	16	21	53	424430	11001010011000100100110110000
				OFF	16	22	27	424464	11001010011001100111010000000
77	4	2	14	ON	17	47	39	429576	11001100110101100111101000000
				OFF	17	48	14	429611	11001100110110101011111111000
79	8	1	40	ON	20	40	45	439961	11010001110010100010110101000
				OFF	20	42	17	440053	11010001110101010110100001000
79	8	2	7	ON	20	43	56	440153	11010001111000011001110101000
				OFF	20	44	12	440169	11010001111000111001000101000

CLOCK OPERATIONS

AFT PAN CAMERA NUMBER 287

OPN NO	FP		H	M	S	DEC	BINARY EQUIVALENT		
1	3	2	14	ON	23	30	45	18162	00001000101010010000101010000
				OFF	23	31	26	18203	00001000101011100000101111000
2	3	3	12	ON	0	58	4	23400	00001011001010000111001000000
				OFF	0	58	39	23435	00001011001011001011011111000
5	5	2	27	ON	5	27	9	39546	00010010110110110110010010000
				OFF	5	28	28	39625	00010010111001010000100101000
5	5	6	31	ON	5	32	25	39862	00010011000000011111011110000
				OFF	5	33	44	39941	00010011000010111001110001000
6	3	4	14	ON	7	5	0	45417	00010101101010000001000101000
				OFF	7	5	35	45452	00010101101011000101011100000
6	3	8	28	ON	7	10	23	45748	00010101110011110111111100000
				OFF	7	11	29	45806	00010101110101111000110110000
7	3	1	7	ON	8	0	0	49197	00010111011101010111111001000
				OFF	8	0	29	49226	00010111011110010000100010000
7	3	5	10	ON	8	30	57	50574	00011000000111011001010110000



7	3	6	20	OFF	8	31	26	52683	00011000001000010001111111000
				ON	8	32	40	52677	00011000001010100010100001000
				OFF	8	33	33	52730	00011000001100001010000010000
8	7	5	8	ON	10	3	43	56140	00011010110001010000011100000
				OFF	10	4	5	56162	00011010110001111011011010000
9	7	8	11	ON	11	11	15	60192	00011100101100111010100000000
				OFF	11	12	1	60238	00011100101110010100010110000
9	6	5	39	ON	11	45	5	62222	00011101101010110111010110000
				OFF	11	46	37	62314	000111011011011011011000010000
10	2	1	17	ON	13	8	54	67251	00100000000100010101100111000
				OFF	13	9	36	67293	00100000000101100111101001000
11	5	1	27	ON	14	38	41	72638	00100010101000101111000110000
				OFF	14	39	45	72702	00100010101010101100000110000
13	6	1	18	ON	17	29	40	82097	001001111000011101000001101000
				OFF	17	30	29	82946	00100111100011010011111010000
14	8	5	36	ON	19	24	23	89780	00101010110011110111100100000
				OFF	19	26	4	89881	00101010110110111100110101000
16	3	8	15	ON	22	8	44	99648	00101111100000110001011000000
				OFF	22	9	21	99677	00101111100001111001101001000
22	7	2	50	ON	4	4	2	120959	00111001101011011000000011000
				OFF	4	6	2	121079	00111001101111000010011011000
26	7	7	20	ON	4	19	31	121988	00111010000111101110100000000
				OFF	4	20	20	121937	00111010001001001110001010000
21	7	1	22	ON	5	34	34	126391	00111100010001001001011011000
				OFF	5	35	30	126447	00111100010010110110110011000
22	1	3	13	ON	7	3	19	131716	00111110110011101001110100000
				OFF	7	3	54	131751	00111110110100101110001011000
22	1	5	15	ON	7	7	10	131947	00111110111010101100111111000
				OFF	7	7	45	131982	00111110111011110001010110000
22	1	7	131	ON	7	10	37	132154	00111111000001000001010010000
				OFF	7	15	37	132454	00111111001010001011001110000
22	1	8	82	ON	7	16	24	132501	00111111001011001110000010000
				OFF	7	19	32	132689	00111111010001010110001101000
23	1	1	7	ON	8	10	8	135725	01000000101101111111111001000
				OFF	8	10	36	135753	01000000101110110110100101000
23	5	4	36	ON	8	31	7	136984	01000001010100011010111000000
				OFF	8	32	42	137779	01000001010111010100011011000
23	5	7	64	ON	8	35	56	137273	01000001011101001111010101000
				OFF	8	38	24	137421	01000001100001110000011001000
24	2	2	45	ON	10	2	59	142496	01000011111100101000100000000
				OFF	10	4	53	142607	010001000000000000001010011000
25	6	4	36	ON	11	45	20	148637	01000110111000000010101001000
				OFF	11	46	45	148722	01000110111010101000101010000
26	2	1	22	ON	13	10	9	153726	01001001010011010110000110000
				OFF	13	11	1	153778	01001001010100111011101010000
26	2	3	16	ON	13	12	48	153805	01001001011000001100101001000
				OFF	13	13	25	153922	01001001011001010100111010000
27	1	2	9	ON	14	41	6	159183	01001011111001111000010011000
				OFF	14	41	28	159205	01001011111010100011010001000
27	1	7	23	ON	14	45	22	159439	01001100000001101100010011000
				OFF	14	46	16	159493	01001100000011010101110001000

38	6	1	11	ON	19	11	21	175398	01010011101000101110001110000
				OFF	19	11	48	175425	01010011101001100010111101000
38	6	6	47	ON	19	27	10	176347	01010100000101101011101111000
				OFF	19	29	27	176484	01010100001001110111010100000
36	3	4	26	ON	4	6	32	207509	01100010111100101011000001000
				OFF	4	7	34	207571	01100010111110100100000111000
37	7	1	38	ON	5	35	38	212855	01100101011111110100010110000
				OFF	5	37	10	212947	01100101100010101000000111000
37	7	4	9	ON	5	48	28	213625	01100101110111010100010101000
				OFF	5	48	50	213647	01100101110111111111010011000
37	7	5	31	ON	5	55	6	214023	01100110000011011101101011000
				OFF	5	56	33	214110	01100110000110000111100110000
38	8	3	65	ON	7	3	55	218152	01101000000001011110001000000
				OFF	7	6	33	218310	01101000000110010010101110000
38	8	4	15	ON	7	7	54	218391	01101000001000110000111011000
				OFF	7	8	29	218426	01101000001001110101010010000
38	8	5	308	ON	7	9	0	218457	01101000001010110001110101000
				OFF	7	20	39	219156	01101000100000000111000100000
39	8	1	7	ON	8	11	37	222214	0110100111110101011011101110000
				OFF	8	12	4	222241	01101001111110010000011101000
39	5	2	12	ON	8	30	20	223345	01101010011111111100101101000
				OFF	8	31	3	223300	011010100001000001000100000
39	5	6	86	ON	8	34	39	223596	01101010001111001101111000000
				OFF	8	30	4	223001	01101010101101110111010101000
40	2	3	34	ON	10	6	2	229079	0110110100111011101111101110000
				OFF	10	7	22	229159	011011010100010110000010111000
41	8	5	57	ON	11	46	37	235114	01110000000111000111000010000
				OFF	11	48	48	235245	01110000001011000110110010000
42	7	3	17	ON	13	11	35	240212	01110010100010101100000100000
				OFF	13	12	17	240254	01110010100011111110000110000
43	9	1	23	ON	14	46	30	245915	01110101010000101110101111000
				OFF	14	47	33	245970	01110101010010011010001010000
45	1	4	11	ON	19	17	8	262145	01111101000000000001111101000
				OFF	19	17	35	262172	011111010000010110101100000
45	1	1	11	ON	22	2	41	272078	1000000110111001010010110000
				OFF	22	3	10	272107	1000000111000000001011111000
48	2	0	15	ON	22	11	35	272611	10000001111111011011010111000
				OFF	22	12	12	272648	10000010000000100011101000000
51	7	4	25	ON	2	59	34	289891	10001010001110110001010111000
				OFF	3	0	52	289969	10001010010001001001101101000
52	7	2	43	ON	4	7	12	293949	10001100001010100111001001000
				OFF	4	8	54	294051	10001100001101101110010111000
53	3	3	20	ON	5	34	28	299185	10001110101010011001101101000
				OFF	5	35	38	299255	10001110101100100010011011000
53	3	5	42	ON	5	36	3	299280	10001110101101010011010000000
				OFF	5	37	42	299379	10001110110000010100100111000
54	4	2	37	ON	7	5	5	304622	10010001010000010100110110000
				OFF	7	6	33	304710	10010001010011000000101100000
54	4	3	174	ON	7	11	8	304985	100100010110110110011110101000
				OFF	7	17	43	305300	10010001100111011101010100000
54	4	8	42	ON	7	19	23	305400	10010001101010100000101000000

55	8	3	41	OFF	7	21	1	325578	10010001101101100000000010000
				ON	8	34	54	312011	10010011110100110010001111000
				OFF	8	36	33	312110	100100111101111110011100110000
56	2	3	35	ON	10	6	56	315533	10010110011101010011011001000
				OFF	10	8	13	315615	100101100111111110011100011000
57	9	2	64	ON	11	37	41	320977	10011001000011011100001101000
				OFF	11	40	9	321125	10011001000111111101010001000
58	2	6	15	ON	13	15	16	326832	10011011110110000111110000000
				OFF	13	15	52	326868	10011011110111001110000100000
61	2	1	14	ON	17	33	5	342302	1010001100111000111000110001000
				OFF	17	33	42	342339	1010001100111101010110111000
64	2	1	17	ON	22	3	3	358500	10101010111100100011010100000
				OFF	22	3	48	358545	101010101111011110111001101000
64	3	0	19	ON	22	12	18	358935	10101011001001110100111011000
				OFF	22	11	3	358980	10101011001011001100110100000
68	7	3	54	ON	4	7	39	360376	101101010110000010011111000000
				OFF	4	9	46	360503	10110101011100000001111011000
69	3	4	23	ON	5	37	15	385752	10110111111100001101111000000
				OFF	5	33	10	385807	10110111111101111001010011000
69	3	6	64	ON	5	42	23	386065	10111000000101110001001101000
				OFF	5	44	55	386212	10111000001010010000010100000
72	9	4	15	ON	7	9	40	391305	10111010100101101011100101000
				OFF	7	10	24	391341	10111010100110110001111001000
70	9	6	65	ON	7	12	55	391491	10111010101011010110110111000
				OFF	7	15	24	391640	10111010101111111001111000000
71	9	2	61	ON	8	35	28	396445	10111101000010100010101001000
				OFF	8	37	51	396588	10111101000110111001111100000
71	9	7	37	ON	8	42	55	396892	10111101010000001011101100000
				OFF	8	44	21	396978	10111101010010110011101010000
72	7	4	24	ON	10	5	38	401855	101111111100111101001000011000
				OFF	10	6	30	401915	10111111101001011110001111000
72	7	7	29	ON	10	9	44	402101	10111111101111001001100001000
				OFF	10	10	54	402171	10111111110001010010001111000
72	7	8	17	ON	10	12	12	402249	10111111110011101010100101000
				OFF	10	12	54	402291	10111111110100111100100111000
73	1	3	38	ON	11	48	37	408034	11000010100100001101011010000
				OFF	11	50	7	408124	11000010100110111101001100000
73	1	5	36	ON	11	51	36	408213	1100001010001101011000001000
				OFF	11	53	5	408302	11000010101100011000110110000
74	2	8	17	ON	13	15	20	413297	11000101000100110100101101000
				OFF	13	17	0	413337	11000101000110000010110101000
76	3	5	13	ON	16	22	6	424443	11001010011000111110001111000
				OFF	16	22	40	424477	11001010011010000000101001000
77	4	2	14	ON	17	47	52	429589	11001100110110000001000001000
				OFF	17	48	27	429624	11001100110111000101011000000
79	3	1	39	ON	20	40	50	439075	11010001110010111110001011000
				OFF	20	42	30	440067	11010001110101110001110111000
79	3	2	6	ON	20	44	9	440166	11010001111000110011001110000
				OFF	20	44	25	440182	11010001111001010010011110000

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NOTE - OPERATION 79-8-2 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 - TLM DATA INDICATED NORMAL SYSTEM PERFORMANCE DURING THE ENTIRE A MISSION.

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