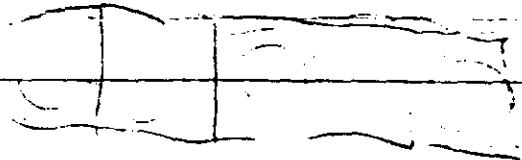


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J - FLIGHT I
BOOK
1030-1

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12 PAGES
(NOT INCLUDING PEST)

CORONA J FLIGHT DATA BOOK

SYSTEM NO. J-29

VEHICLE NO. 1622

MISSION NO. 1838-1

CAMERA NOS. 182/183

DATE 3-14-66

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SYSTEM NO. J-29
VEHICLE NO. 1622
MISSION NO. 1030-1
CAMERA NOS. 182/183

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SYSTEM NO. J-29
VEHICLE NO. 1622
MISSION NO. 1832-1
CAMERA NOS. 182/183

GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 182

SLAVE CAMERA SERIAL NO. 183

S/I -1 SERIAL NO. D94/100/107

S/I -2 SERIAL NO. D82/195/102

LAUNCH DATE 3-9-66

REACTIVATION DATE N/A

REACTIVATION ORBIT NO. N/A

ORBITAL PARAMETERS (REV. 42)

PERIOD 98.621 MIN. ECCENTRICITY 0.01899

PERIGEE 97.568 NM PERIGEE LAT. 24.254 DEG. N

APOGEE 234.610 NM INCL. ANGLE 75.034 DEG.

RECOVERY ORBIT NO. 81

RECOVERY DATE 3-14-66

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SYSTEM NO. J-29
VEHICLE NO. 1622
MISSION NO. 1030-1
CAMERA NOS. 182/183

FLIGHT LENS SETTINGS AND FILM TYPES

LENS SETTINGS

PANORAMIC CAMERA SETTINGS	CAMERA NO. 182	CAMERA NO.
PANORAMIC OPTICS SLIT WIDTH	.275	IN .175
PANORAMIC OPTICS FILTER TYPE	WRATTEN 25	WRATTEN 25
HORIZON OPTICS EXP. TIME	1/100	SEC. 1/100
HORIZON OPTICS APERTURE	F6.3	SUPPLY F8.0
HORIZON OPTICS APERTURE	F8.0	TAKE-UP F6.3
HORIZON OPTICS FILTER TYPE	WRATTEN 25	WRATTEN 25

STELLAR INDEX CAMERA SETTINGS

	D94/100/107		D82/195/107	
	STELLAR	INDEX	STELLAR	INDEX
EXPOSURE TIME	2.0	SEC 1/500	SEC 2.0	SEC 1/100
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. 182	CAMERA NO. 183
TYPE	7J-40	7J-40
LENGTH	16000 FT.	16000 FT.
SPLICES	4	4
EMUL. DATA	235-12/1-12-5	235-12/1-12-5

STELLAR/INDEX CAMERAS

	D94/100/107		D82/195/107	
	STELLAR	INDEX	STELLAR	INDEX
TYPE	3J-34	7J-33	3J-34	7J-33
EMUL. DATA	124-35-10-5	106-14-0-5	124-35-10-5	106-14-0-5

SYSTEM NO. J-29
VEHICLE NO. 1622
MISSION NO. 1838-1
CAMERA NOS. 182/183

LENS DATA SUMMARY MASTER CAMERA NO. 182

LENS SERIAL NO. 1982435
EQUIVALENT OPERATIONAL FOCAL LENGTH 689.682 MM

RESOLUTION

STATIC		LINES/MM	FILM TYPE	TARGET CONT
BENCH TEST		282	3484	HIGH
		164	3484	LOW
DYNAMIC				
BOSTON		198	3484	HIGH
		138	3484	LOW
AP		183	3484	HIGH
		118	3484	LOW

NOTE BOSTON RESOLUTION OF 198 LINES/MM REPORTED IN [REDACTED]

DISTORTION - POSITIVE (PINCUSHION)

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

SYSTEM NO. J-29
VEHICLE NO. 1622
MISSION NO. 1838-1
CAMERA NOS. 182/183

LENS DATA SUMMARY (HORIZON CAMERAS FOR MASTER CAMERA NO. 182)

	TAKE-UP	SUPPLY
LENS SERIAL NO.	12876	12864
OPERATIONAL FOCAL LENGTH	55.88 MM	55.88 MM
RADIAL DISTORTION:		
18 DEG. OFF AXIS	0.818 MM	0.828 MM
28 DEG. OFF AXIS	0.858 MM	0.878 MM
TANGENTIAL DISTORTION (MAXIMUM VECTOR)	0.828 MM	0.825 MM

RESOLUTION

ANGLE OFF AXIS-DEG.	0	5	10	15	20	25	27.5	30
TAKE-UP (RADIAL)	209	208	206	162	132	142	-0	48
(TANGENTIAL)	289	185	171	138	110	183	-0	70
SUPPLY (RADIAL)	187	197	185	171	137	150	-0	55
(TANGENTIAL)	187	185	153	131	117	96	-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 3484 FILM AND HIGH CONTRAST TARGET.

SYSTEM NO. J-29
VEHICLE NO. 1622
MISSION NO. 1830-1
CAMERA NOS. 182/183

LENS DATA SUMMARY SLAVE CAMERA NO. 183

LENS SERIAL NO. 1882435
EQUIVALENT OPERATIONAL FOCAL LENGTH 629.602 MM

RESOLUTION

STATIC	BENCH TEST	LINES/MM	FILM TYPE	TARGET CON'
		257	3484	HIGH
		143	3484	LOW
DYNAMIC				
	BOSTON	200	3484	HIGH
		124	3484	LOW
	AP	178	3484	HIGH
		188	3484	LOW

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

DISTORTION - POSITIVE (PINCUSHION)

ANGLE OFF AXIS-DEG.	3	2	1	0	359	358	357
MILLIMETERS	0.062	0.001	0.000	0.000	0.002	0.061	0.004

SYSTEM NO. J-29
VEHICLE NO. 1622
MISSION NO. 1030-1
CAMERA NOS. 182/183

LENS DATA SUMMARY (HORIZON CAMERAS FOR SLAVE CAMERA NO. 183)

	TAKE-UP	SUPPLY
LENS SERIAL NO.	12844	12845
OPERATIONAL FOCAL LENGTH	55.00 MM	49.92 MM
RADIAL DISTORTION		
10 DEG. OFF AXIS	0.040 MM	0.010 MM
20 DEG. OFF AXIS	0.080 MM	0.030 MM
TANGENTIAL DISTORTION (MAXIMUM VECTOR)	0.025 MM	0.036 MM

RESOLUTION

ANGLE OFF AXIS-DEG.	0	5	10	15	20	25	27.5	30
TAKE-UP (RADIAL)	187	197	165	120	125	144	-0	57
(TANGENTIAL)	187	166	153	70	79	86	-0	70
SUPPLY (RADIAL)	187	166	184	181	166	140	-0	51
(TANGENTIAL)	187	175	152	146	103	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.

SYSTEM NO. J-29
 VEHICLE NO. 1622
 MISSION NO. 1238-1
 CAMERA NOS. 182/183

FORMAT DIMENSIONS AND CALIBRATIONS

CAMERA NO. 182

CAMERA NO. 183

A	76.133	76.873
B	354.983	354.956
C	729.953	729.872
D	56.585	56.482
E	56.526	56.486
XT	0.577	0.186
YT	0.145	-0.185
XS	-1.222	-0.286
YS	-0.157	-0.187
XVO	0.485	-0.155
YVO	0.902	1.663
DTX	0.574	0.185
DTY	1.855	1.895
DSX	-1.217	-0.289
DSY	-2.157	-2.187
DMX	0.424	-0.133
DMY	20.902	21.663
HEIGHT	55.151	55.564
WIDTH	756.292	755.938
DIRECTION		
FLIGHT	-Y	+Y
SCAN	+X	+X

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

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

SYSTEM NO. J-29
VEHICLE NO. 1622
MISSION NO. 1830-1
CAMERA NOS. 182/183

LENS DATA SUMMARY STELLAR INDEX 094/100/107 -1 MISSION

	STELLAR	INDEX
LENS SERIAL NO.	11793	819959
RESEAU SERIAL NO.	107	120
FILTER TYPE	NONE	WRATTEN 21
APERTURE	F1.8	F4.5
EXPOSURE TIME	2.0 SEC.	1/500 SEC.
EQUIVALENT FOCAL LENGTH	84 NOM	MM 32.54 MM

RESOLUTION (INDEX)

ANGLE OFF AXIS	0	10	20	30
HIGH CONTRAST-R/T (3402 FILM)	063/71	075/78	099/77	093/39 98

AWAR 70 LINES/MM
READ FROM 4400 FILM.

DISTORTION

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

ALIGNMENT	STELLAR	INDEX
	0.0014 INCHES/.937 INCHES	-0.0006 INCHES/2.25

SYSTEM NO. J-29
VEHICLE NO. 1622
MISSION NO. 1030-1
CAMERA NOS. 182/183

LENS DATA SUMMARY STELLAR INDEX 082/195/102 -2 MISSION

	STELLAR	INDEX
LENS SERIAL NO.	10545	819187
RESEAU SERIAL NO.	102	195
FILTER TYPE	NONE	WRATTEN 21
APERTURE	F1.8	F4.5
EXPOSURE TIME	2.0 SEC.	1/500 SEC.
EQUIVALENT FOCAL LENGTH	84 NOM	MM 38.50

RESOLUTION (INDEX)

ANGLE OFF AXIS	0	10	20	30
HIGH CONTRAST-R/T (3400 FILM)	071/71	081/86	098/79	098/42 08

AWAR 70 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	-0.0003 INCHES/2.25

SYSTEM NO. J-29
VEHICLE NO. 1622
MISSION NO. 1238-1
CAMERA NOS. 182/183

CYCLE PERIOD DATA

V/H RAMP LEVEL	SETTING AMPLITUDE	TIME UP RAMP-SEC	---CALIBRATED---		---IN-FLIGHT---	
			MASTER	SLAVE	MASTER	SLAVE
8	3	120	5.138	5.126	5.255	5.245
8	3	1695	2.266	2.266	2.280	2.260
7	3	1869	2.216	2.216	2.215	2.229
7	3	1642	2.224	2.224	2.242	2.223
7	3	1700	2.221	2.220	2.228	2.232
7	3	1660	2.223	-0.200	2.230	-0.200

NOTE

A -B OR * INDICATE NO DATA AVAILABLE.

- A. 1030-1
- B. DRY
- C. FINAL PERFORMANCE ESTIMATE, PART ONE

OPERATIONS SUMMARY

FWD PAN CAMERA NUMBER 182

OPN NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM
--------	-----	---	-----	------	--------	-------	----	---	---	---	------	-------

PRE-FLT 182

1	4	1	23	ON	2	72	33	171	14E	878928	911314	9	23	25	13	1250	84313	
				OFF	2	69	48	177	19W	847181	878349	9	23	26	23	1137	84383	
4	2	1	61	ON	2	54	27	137	30E	725552	752886	10	4	3	8	1313	14588	
				OFF	2	44	32	143	33E	671624	696121	10	4	5	47	1340	14747	
5	4	1	52	ON	2	73	27	74	4E	884883	916667	10	5	27	30	1023	19650	
				OFF	2	66	34	99	23E	810190	839943	10	5	30	16	12	7	19816
5	4	2	51	ON	2	54	45	114	23E	725823	752367	10	5	33	44	1311	20024	
				OFF	2	46	25	119	45E	679382	704171	10	5	35	59	1335	20159	
5	4	3	21	ON	2	40	16	122	34E	651326	675059	10	5	37	35	1347	20255	
				OFF	2	36	56	123	50E	638316	661560	10	5	38	27	1353	20307	
6	4	1	19	ON	2	73	51	47	59E	888744	921507	10	6	57	56	10	9	25076
				OFF	2	71	55	60	9E	860688	892373	10	6	58	58	1059	25138	
6	4	2	52	ON	2	58	43	87	56E	749489	776931	10	7	3	19	1255	25399	
				OFF	2	52	18	94	40E	698312	723816	10	7	5	38	1324	25538	
6	4	3	21	ON	2	42	41	90	40E	660417	684492	10	7	7	38	1342	25650	
				OFF	2	39	28	100	4E	646327	669872	10	7	8	30	1348	25710	
6	4	4	60	ON	2	26	39	104	12E	607724	629820	10	7	11	45	14	8	25905
				OFF	2	16	27	106	44E	594800	616412	10	7	14	20	1421	26060	
7	6	1	120	ON	2	63	38	50	53E	782765	811472	10	8	32	32	1228	30752	
				OFF	2	44	16	75	4E	666336	690634	10	8	37	53	1338	31073	
8	5	1	50	ON	2	69	12	24	21E	827714	858137	10	10	1	23	1130	36093	
				OFF	2	59	41	41	9E	752597	780157	10	10	4	22	1240	36262	
8	5	2	19	ON	2	53	20	46	52E	712464	738503	10	10	6	9	1313	36369	
				OFF	2	50	9	49	1E	694536	719897	10	10	7	1	1323	36421	
9	5	0	9	ON	1	30	57	117	10W	1245695	1292410	10	11	15	49	327	40549	
				OFF	1	41	53	115	59W	1228224	1274246	10	11	16	38	332	40598	
14	8	1	19	ON	2	40	29	83	10W	644787	668274	10	19	13	32	1340	69212	
				OFF	2	37	21	82	5W	633212	656264	10	19	14	20	1345	69260	
14	8	2	27	ON	3	15	39	69	23W	669506	694004	10	19	27	43	1450	70063	
				OFF	3	20	29	68	16W	694673	720038	10	19	28	56	1455	70136	
16	8	0	15	ON	2	33	57	126	30W	621656	644274	10	22	16	32	1349	80192	
				OFF	2	31	29	125	51W	614841	637204	10	22	17	10	1353	80230	
20	5	1	75	ON	2	66	31	116	32E	789629	818590	11	4	10	14	1156	15014	
				OFF	2	54	21	131	44E	707600	733455	11	4	13	48	13	0	15228
20	5	2	23	ON	2	49	30	135	3E	681541	706412	11	4	15	6	1315	15306	
				OFF	2	46	21	136	48E	666306	690603	11	4	15	56	1323	15356	
21	7	1	100	ON	2	45	33	114	21E	661975	686109	11	5	46	48	1324	20000	
				OFF	2	29	28	120	26E	608417	630539	11	5	50	57	1352	21057	
23	4	1	86	ON	2	69	1	41	57E	807405	837052	11	8	41	20	1129	31200	
				OFF	2	55	27	62	15E	711254	737247	11	8	45	26	1254	31526	

23	4	2	48	ON	2	42	36	72	1E	648862	671672	11	8	48	52	1328	31732	
				OFF	2	35	28	72	48E	623332	645702	11	8	50	42	1341	31842	
24	8	1	51	ON	2	61	47	32	48E	750172	777648	11	10	14	17	1225	36857	
				OFF	2	53	33	42	54E	699543	725891	11	10	16	36	13	8	36996
25	5	1	72	ON	2	53	43	17	54E	699645	725199	11	11	47	12	1258	42432	
				OFF	2	42	36	24	18E	646798	678368	11	11	50	9	1327	42689	
30	6	1	24	ON	2	14	12	80	35W	597913	619641	11	19	31	35	14	9	78295
				OFF	2	6	34	79	52W	603194	625827	11	19	32	30	1413	70356	
30	6	2	41	ON	3	9	9	76	35W	649853	673529	11	19	36	27	1430	73587	
				OFF	3	15	54	75	7W	681486	706270	11	19	38	9	1437	79689	
31	4	1	26	ON	2	33	37	109	26W	614987	637355	11	20	56	18	1338	75378	
				OFF	2	29	35	108	11W	685951	627981	11	20	57	20	1344	75440	
33	3	1	46	ON	2	70	38	168	38E	889862	839603	11	23	47	10	11	1	85630
				OFF	2	63	37	175	29W	753949	781561	11	23	49	29	12	7	85769
35	4	1	51	ON	1	75	1	85	6E	884684	917291	12	2	45	27	825	9927	
				OFF	2	70	55	121	23E	811696	841507	12	2	48	17	1053	10897	
36	4	1	75	ON	2	74	15	78	6E	855887	886558	12	4	17	9	929	15429	
				OFF	2	64	39	114	16E	758217	785991	12	4	21	3	1158	15663	
36	4	2	19	ON	2	52	39	127	15E	685488	710507	12	4	24	29	1253	15869	
				OFF	2	49	34	129	15E	670402	694853	12	4	25	19	13	2	15919
36	4	3	27	ON	2	45	38	131	25E	652984	676779	12	4	26	21	1312	15981	
				OFF	2	41	31	133	19E	637151	660351	12	4	27	25	1320	16045	
37	6	1	77	ON	2	73	23	62	59E	838638	869479	12	5	40	22	10	8	20902
				OFF	2	62	34	94	36E	742763	769947	12	5	52	19	1210	21139	
37	6	2	69	ON	2	36	37	114	21E	626540	628592	12	6	0	51	1330	21651	
				OFF	2	20	37	117	2E	594756	616367	12	6	3	23	1351	21803	
39	4	1	33	ON	2	70	29	31	35E	802663	832129	12	8	50	57	1057	31857	
				OFF	2	65	36	44	8E	762859	789979	12	8	52	38	1148	31950	
39	4	2	56	ON	2	50	33	60	5E	672939	697485	12	8	56	55	1257	32215	
				OFF	2	48	28	65	12E	631936	654941	12	8	59	34	1320	32374	
47	4	1	20	ON	2	38	2	116	40W	620997	643591	12	21	5	3	1318	75908	
				OFF	2	34	55	115	33W	612940	635231	12	21	5	56	1323	75956	
49	8	1	25	ON	2	65	28	175	42E	750973	778472	12	23	58	50	1141	86330	
				OFF	2	61	28	179	10W	724390	750801	12	24	0	4	12	7	86404
50	7	1	59	ON	2	68	29	146	17E	772729	801855	13	1	28	27	1113	5307	
				OFF	2	59	29	161	18E	711530	737534	13	1	31	13	1216	5473	
52	7	1	52	ON	2	73	21	80	25E	819914	850038	13	4	27	37	949	16057	
				OFF	2	66	43	104	43E	756935	784660	13	4	30	15	1129	16215	
52	7	2	61	ON	2	47	35	124	45E	651459	675197	13	4	35	40	1254	16540	
				OFF	2	38	28	120	54E	620323	642892	13	4	38	3	1313	16683	
53	6	1	18	ON	2	74	15	49	41E	833627	864276	13	5	57	37	916	21457	
				OFF	2	72	39	61	59E	809623	839354	13	5	58	35	10	6	21515
53	6	2	105	ON	2	70	31	71	31E	787159	816034	13	5	59	31	1045	21571	
				OFF	2	54	34	97	19E	682445	707358	13	6	4	25	1233	21865	
53	6	3	69	ON	2	26	34	109	52E	597737	619459	13	6	11	41	1331	22301	
				OFF	2	16	37	112	20E	595833	617484	13	6	14	12	1343	22452	
54	7	1	19	ON	2	52	6	76	17E	669830	694259	13	7	35	40	1240	27340	
				OFF	2	49	3	79	13E	656308	680228	13	7	36	29	1249	27389	
54	7	2	38	ON	2	40	33	82	23E	625549	648313	13	7	38	43	13	8	27523
				OFF	2	27	32	86	45E	598610	620365	13	7	42	3	1329	27723	
55	3	1	68	ON	2	70	29	25	55E	784659	813439	13	9	0	43	1044	32443	

		OFF	2	68	33	45	58E	713471	739549	13	9	3	55	12	7	32635			
56	9	1	63	ON	2	11	18	45	8E	682897	623982	13	18	47	22	1347	38842		
		OFF	2	1	38	46	59E	623892	646588	13	18	49	46	1357	38986				
58	4	1	81	ON	2	25	35	4	6W	596441	618115	13	13	44	55	1328	49495		
		OFF	2	13	33	1	12W	599287	621867	13	13	47	57	1343	49677				
61	3	1	33	ON	2	12	36	69	32W	681184	622952	13	18	19	57	1341	65997		
		OFF	2	7	29	68	27W	618295	632487	13	18	21	14	1347	66874				
61	3	2	25	ON	3	16	7	63	30W	784181	729985	13	18	27	11	1413	66431		
		OFF	3	28	31	62	28W	738117	756823	13	18	28	18	1418	66498				
63	3	1	19	ON	2	36	7	121	33W	618852	633866	13	21	15	11	13	8	76511	
		OFF	2	33	5	122	32W	684936	626928	13	21	15	57	1313	76557				
66	1	1	188	ON	2	75	8	97	17E	843645	874678	14	1	34	15	8	3	5655	
		OFF	2	51	26	162	34E	659886	683111	14	1	42	55	1233	6175				
68	7	1	25	ON	2	75	8	51	48E	848634	871551	14	4	35	25	8	2	16525	
		OFF	2	73	52	72	46E	888645	838339	14	4	36	44	919	16684				
68	7	2	52	ON	2	72	21	88	57E	788797	817735	14	4	37	33	18	1	16653	
		OFF	2	65	37	181	21E	733378	768289	14	4	48	1	1125	16881				
68	7	3	55	ON	2	54	28	114	42E	671236	695721	14	4	43	15	1222	16995		
		OFF	2	46	24	119	58E	638264	661586	14	4	45	24	1244	17124				
69	7	1	19	ON	2	74	13	44	22E	813736	843625	14	6	7	2	9	4	22822	
		OFF	2	72	37	55	36E	798678	819678	14	6	8	8	954	22888				
69	7	2	57	ON	2	72	26	66	15E	768924	797185	14	6	6	55	1834	22136		
		OFF	2	63	32	81	59E	719883	745373	14	6	11	14	1139	22274				
69	7	3	73	ON	2	25	38	184	28E	596468	618134	14	6	21	5	1318	22865		
		OFF	2	15	27	186	58E	598191	619938	14	6	23	37	1338	23817				
78	1	1	26	ON	2	35	2	183	48W	684888	626795	14	19	53	59	1258	71639		
		OFF	2	31	8	182	38W	599249	621828	14	19	55	1	13	5	71781			
79	5	8	15	ON	2	48	29	128	48W	615646	638839	14	21	23	8	1248	76988		
		OFF	2	38	1	127	42W	618864	632248	14	21	23	46	1252	77826				

OPERATIONS SUMMARY

AFT PAN CAMERA NUMBER 183

OPN	NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM
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PRE-FLT 117

1	4	1	28	ON	2	73	11	167	22E	878923	911314	9	23	25	13	1834	84313			
				OFF	2	72	36	188	8W	847181	878349	9	23	26	23	1125	84383			
4	2	1	61	ON	2	55	24	136	48E	725552	752886	18	4	3	8	13	9	14588		
				OFF	2	45	28	143	2E	671624	696121	18	4	5	47	1337	14747			
5	4	1	51	ON	2	73	57	69	47E	884883	916667	18	5	27	38	18	6	19658		
				OFF	2	67	28	97	21E	818198	839943	18	5	38	16	1159	19816			
5	4	2	51	ON	2	55	43	113	32E	725823	752367	18	5	33	44	13	7	28824		
				OFF	2	47	28	119	11E	679382	784171	18	5	35	59	1332	28159			
5	4	3	21	ON	2	41	18	122	8E	651326	675859	18	5	37	35	1346	28255			
				OFF	2	37	58	123	27E	638316	661568	18	5	38	27	1352	28387			
6	4	1	18	ON	2	74	17	43	29E	888744	921587	18	6	57	56	951	25876			
				OFF	2	72	35	56	37E	868688	892373	18	6	58	58	1845	25138			
6	4	2	51	ON	2	59	48	86	58E	749489	776931	18	7	3	19	1258	25399			
				OFF	2	51	14	94	8E	698312	723816	18	7	5	38	1321	25538			

6 4 3	21	ON	2	43	35	98	12E	663417	684492	18	7	7	38	1348	25658
		OFF	2	48	14	99	39E	646327	669872	18	7	8	38	1347	25718
6 4 4	69	ON	2	27	38	183	54E	687724	629828	18	7	11	45	14	7
		OFF	2	17	17	186	29E	594838	616412	18	7	14	28	1428	26868
7 6 1	121	ON	2	64	34	57	19E	782765	811472	18	8	32	32	1221	38752
		OFF	2	45	11	74	34E	666336	698634	18	8	37	53	1336	31873
8 5 1	68	ON	2	78	1	21	45E	827714	858137	18	18	1	23	1128	36883
		OFF	2	68	38	39	59E	752597	788157	18	18	4	22	1244	36262
8 5 2	19	ON	2	54	17	46	5E	712464	738583	18	18	6	9	1318	36369
		OFF	2	51	5	48	21E	694536	719897	18	18	7	1	1328	36421
9 5 8	18	ON	1	37	13	117	56W	1245695	1292418	18	11	15	49	324	48549
		OFF	1	48	11	116	48W	1228224	1274246	18	11	16	38	329	48598
14 8 1	19	ON	2	41	22	83	44W	644787	668274	18	19	13	32	1338	69212
		OFF	2	38	14	82	28W	633212	656264	18	19	14	28	1344	69268
14 8 2	28	ON	3	14	42	69	48W	669586	694884	18	19	27	43	1449	78863
		OFF	3	19	38	68	34W	694673	728838	18	19	28	56	1454	78136
16 8 8	16	ON	2	34	58	126	59W	621656	644274	18	22	16	32	1348	88192
		OFF	2	32	21	126	18W	614841	637284	18	22	17	18	1352	88238
28 5 1	77	ON	2	67	23	114	34E	789629	818598	11	4	18	14	1148	15814
		OFF	2	55	17	132	55E	787688	733455	11	4	13	48	1257	15228
28 5 2	28	ON	2	58	25	134	25E	681541	786412	11	4	15	6	1312	15386
		OFF	2	47	15	136	16E	666386	698683	11	4	15	56	1321	15356
21 7 1	128	ON	2	46	27	113	49E	661975	686189	11	5	46	48	1322	28888
		OFF	2	38	28	122	7E	688417	638539	11	5	58	57	1351	21857
23 4 1	86	ON	2	69	49	39	27E	887425	837852	11	8	41	28	1119	31288
		OFF	2	56	23	61	24E	711254	737247	11	8	45	26	1251	31526
23 4 2	48	ON	2	43	29	69	33E	648862	671672	11	8	48	52	1327	31732
		OFF	2	36	28	72	26E	623832	645782	11	8	58	42	1348	31842
24 8 1	52	ON	2	62	42	31	29E	758172	777648	11	18	14	17	1228	36857
		OFF	2	54	28	48	3E	699548	725891	11	18	16	36	1257	36996
25 5 1	72	ON	2	54	39	17	8E	699645	725199	11	11	47	12	1255	42432
		OFF	2	43	29	23	58E	646798	678358	11	11	58	9	1325	42689
38 6 1	24	ON	2	11	3	88	49W	597913	619641	11	19	31	35	14	8
		OFF	2	7	26	88	4W	683184	625827	11	19	32	38	1412	78358
38 6 2	42	ON	3	8	14	76	58W	649853	673529	11	19	36	27	1429	78587
		OFF	3	14	57	75	24W	681486	786278	11	19	38	9	1436	78689
31 4 1	27	ON	2	34	29	189	47W	614987	637355	11	28	56	18	1337	75378
		OFF	2	38	26	188	29W	685951	627981	11	28	57	28	1343	75448
33 3 1	47	ON	2	71	14	165	46E	889862	839683	11	23	47	18	1858	85638
		OFF	2	64	38	176	59W	753949	781561	11	23	49	29	12	1
35 4 1	52	ON	1	75	1	88	3E	884684	917291	12	2	45	27	8	5
		OFF	2	71	38	118	22E	811696	841587	12	2	48	17	1841	18897
36 4 1	76	ON	2	74	35	73	35E	855887	886558	12	4	17	9	911	15429
		OFF	2	65	32	112	38E	758217	785991	12	4	21	3	1151	15663
36 4 2	28	ON	2	53	33	126	32E	685488	718587	12	4	24	29	1258	15869
		OFF	2	58	28	128	38E	678482	694853	12	4	25	19	1259	15919
36 4 3	27	ON	2	46	31	138	54E	652984	676779	12	4	26	21	1318	15981
		OFF	2	42	24	132	53E	637151	668351	12	4	27	25	1318	16845
37 6 1	79	ON	2	73	52	58	58E	838638	869479	12	5	48	22	944	28982
		OFF	2	63	28	93	13E	742768	769947	12	5	52	19	12	5
37 6 2	69	ON	2	31	28	114	2E	686548	628592	12	6	8	51	1337	21651

		OFF	2	21	27	116	47E	594756	616367	12	6	3	23	1350	21803			
39	4	1	34	ON	2	71	13	28	44E	842663	832129	12	8	50	57	1845	31857	
		OFF	2	66	28	42	14E	762859	789979	12	8	52	38	1141	31958			
39	4	2	67	ON	2	51	28	59	26E	672939	697485	12	8	56	55	1254	32215	
		OFF	2	41	20	64	46E	631936	654941	12	8	59	34	1318	32374			
47	4	1	29	ON	2	38	53	117	3W	628997	643591	12	21	5	8	1316	75928	
		OFF	2	35	47	115	54W	612948	635231	12	21	5	56	1322	75956			
49	8	1	26	ON	2	66	20	173	59E	758973	778472	12	23	58	58	1134	86330	
		OFF	2	62	22	179	25W	724398	758881	12	24	0	4	12	2	86484		
50	7	1	68	ON	2	69	16	144	1E	772729	801855	13	1	28	27	11	4	5307
		OFF	2	60	23	160	13E	711538	737534	13	1	31	13	1212	5473			
52	7	1	53	ON	2	73	50	76	38E	819914	858038	13	4	27	37	933	16057	
		OFF	2	67	33	182	48E	756935	784660	13	4	30	15	1121	16215			
52	7	2	62	ON	2	48	28	124	12E	651459	675197	13	4	35	48	1252	16540	
		OFF	2	39	19	128	31E	620323	642892	13	4	38	3	1312	16683			
53	6	1	13	ON	2	74	35	45	17E	833627	864276	13	5	57	37	850	21457	
		OFF	2	73	13	58	23E	809623	839354	13	5	58	35	952	21515			
53	6	2	76	ON	2	71	14	68	43E	787159	816034	13	5	59	31	1034	21571	
		OFF	2	55	28	96	31E	682445	707350	13	6	4	25	1230	21865			
53	6	3	52	ON	2	27	25	109	35E	597737	619459	13	6	11	41	1330	22301	
		OFF	2	17	28	112	5E	595833	617484	13	6	14	12	1342	22452			
54	7	1	29	ON	2	53	0	75	35E	669830	694259	13	7	35	40	1238	27340	
		OFF	2	49	56	77	37E	656308	680228	13	7	36	29	1247	27389			
54	7	2	134	ON	2	41	25	81	58E	625549	648313	13	7	38	43	13	6	27523
		OFF	2	28	23	86	27E	598610	620365	13	7	42	3	1327	27723			
55	3	1	68	ON	2	71	12	23	9E	784659	813439	13	9	0	43	1033	32443	
		OFF	2	61	27	44	40E	713471	739549	13	9	3	55	12	2	32635		
56	9	1	64	ON	2	12	1	44	45E	682097	623982	13	10	47	22	1346	38842	
		OFF	2	2	31	46	45E	623802	646500	13	10	49	46	1356	38986			
58	4	1	82	ON	2	26	25	4	23W	596441	618115	13	13	44	55	1327	49495	
		OFF	2	14	24	1	27W	599287	621867	13	13	47	57	1342	49677			
61	3	1	34	ON	2	13	27	69	46W	601104	622952	13	18	19	57	1340	65997	
		OFF	2	8	21	69	41W	610295	632487	13	18	21	14	1346	66074			
61	3	2	26	ON	3	15	8	63	47W	704181	729905	13	18	27	11	1412	66431	
		OFF	3	19	29	62	47W	730117	756823	13	18	28	18	1417	66498			
63	3	1	27	ON	2	36	58	121	54W	618852	633866	13	21	15	11	13	7	76511
		OFF	2	33	56	120	51W	684936	626928	13	21	15	57	1312	76557			
66	1	1	188	ON	2	75	1	92	28E	843645	874678	14	1	34	15	744	5655	
		OFF	2	52	19	161	54E	659086	683111	14	1	42	55	1230	6175			
68	7	1	26	ON	2	75	1	47	0E	840634	871551	14	4	35	25	743	16525	
		OFF	2	74	16	66	41E	888645	838339	14	4	36	44	9	3	16604		
68	7	2	53	ON	2	72	55	77	34E	788797	817735	14	4	37	33	947	16653	
		OFF	2	66	27	99	39E	733378	760209	14	4	40	1	1118	16801			
68	7	3	56	ON	2	55	21	113	55E	671238	695721	14	4	43	15	1218	16995	
		OFF	2	47	16	119	19E	638264	661506	14	4	45	24	1242	17124			
69	7	1	19	ON	2	74	33	40	4E	813736	843625	14	6	7	2	847	22022	
		OFF	2	73	10	53	9E	790670	819670	14	6	8	0	940	22000			
69	7	2	51	ON	2	71	8	63	33E	768924	797105	14	6	8	56	1023	22136	
		OFF	2	64	24	80	34E	719083	745373	14	6	11	14	1133	22274			
69	7	3	68	ON	2	27	20	104	3E	596457	618131	14	6	21	5	1317	22865	
		OFF	2	18	5	106	24E	597487	619200	14	6	23	25	1329	23005			

PHOTOGRAPHIC SUMMARY

FWD PAN CAMERA NO 182 B.2750 SLIT W/25 FILTER 3404 FILM

OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI
PRE-FLT	182	269.8							
1 4 1	20	52.9	ON 158	12.0	41.0	11.16	11.27	10.67	10.07
			OFF 165	15.6	41.2	11.22	11.53	10.93	10.33
4 2 1	51	161.3	ON 230	29.0	44.9	11.49	11.97	11.37	10.77
			OFF 217	37.2	50.0	11.62	12.05	11.45	10.85
5 4 1	50	132.3	ON 156	10.5	40.1	11.14	11.14	10.54	9.94
			OFF 172	19.1	40.9	11.28	11.71	11.11	10.51
5 4 2	51	134.9	ON 200	29.6	44.6	11.50	11.97	11.37	10.77
			OFF 215	35.9	40.7	11.60	12.04	11.44	10.84
5 4 3	21	55.5	ON 225	40.1	52.6	11.67	12.07	11.47	10.87
			OFF 229	42.2	55.0	11.69	12.08	11.48	10.88
6 4 1	18	47.6	ON 155	9.7	39.9	11.13	11.06	10.46	9.86
			OFF 161	13.0	39.9	11.18	11.35	10.75	10.15
6 4 2	50	132.3	ON 192	26.4	42.8	11.44	11.92	11.32	10.72
			OFF 208	33.2	46.4	11.56	12.01	11.41	10.81
6 4 3	21	55.5	ON 222	38.6	52.7	11.64	12.06	11.46	10.86
			OFF 226	40.8	53.0	11.67	12.07	11.47	10.87
6 4 4	60	179.9	ON 239	47.9	64.1	11.75	12.10	11.50	10.90
			OFF 243	51.6	75.9	11.70	12.10	11.50	10.90
7 6 1	120	317.4	ON 180	22.0	41.1	11.35	11.81	11.21	10.61
			OFF 219	37.6	49.5	11.63	12.05	11.45	10.85
8 5 1	59	156.1	ON 166	16.4	39.8	11.23	11.57	10.97	10.37
			OFF 139	25.6	42.1	11.41	11.90	11.30	10.70
8 5 2	19	50.3	ON 201	30.9	44.5	11.51	11.99	11.39	10.79
			OFF 207	33.4	46.0	11.55	12.01	11.41	10.81
9 5 0	9	23.8	ON 182	-33.5	45.9	10.54	0.00	0.00	0.00
			OFF 103	-31.3	44.5	10.55	0.00	0.00	0.00
14 8 1	19	50.3	ON 224	40.9	50.4	11.66	12.07	11.47	10.87
			OFF 228	43.0	52.7	11.69	12.08	11.48	10.88
14 8 2	27	71.4	ON 214	49.0	117.7	11.59	12.10	11.50	10.90
			OFF 266	46.5	122.4	11.54	12.10	11.50	10.90
16 3 0	15	39.7	ON 232	45.3	55.0	11.71	12.09	11.49	10.89
			OFF 234	46.8	57.3	11.73	12.10	11.50	10.90
20 5 1	75	198.4	ON 177	19.5	37.7	11.32	11.72	11.12	10.52
			OFF 204	30.8	41.4	11.52	11.99	11.39	10.79
20 5 2	20	52.9	ON 214	34.7	43.7	11.59	12.03	11.43	10.83
			OFF 219	37.2	45.3	11.63	12.05	11.45	10.85
21 7 1	108	285.7	ON 221	37.9	45.6	11.64	12.05	11.45	10.85
			OFF 242	48.6	58.1	11.77	12.10	11.50	10.90
23 4 1	06	227.5	ON 173	16.8	36.7	11.29	11.60	11.00	10.40
			OFF 202	30.0	40.3	11.51	11.97	11.37	10.77
23 4 2	48	127.0	ON 226	40.2	46.9	11.68	12.07	11.47	10.87
			OFF 236	45.2	52.2	11.74	12.09	11.49	10.89
24 8 1	51	134.9	ON 189	24.3	38.0	11.42	11.87	11.27	10.67

				OFF 237	31.7	48.9	11.55	12.00	11.40	10.80	
25	5	1	72	198.4	ON 228	31.6	48.6	11.55	11.99	11.39	10.79
				OFF 228	48.4	46.5	11.68	12.07	11.47	10.87	
30	6	1	24	63.5	ON 250	57.2	81.7	11.82	12.10	11.50	10.90
				OFF 249	57.6	87.5	11.81	12.10	11.50	10.90	
30	6	2	41	108.4	ON 235	54.8	111.8	11.73	12.10	11.50	10.90
				OFF 226	51.7	120.2	11.67	12.10	11.50	10.90	
31	4	1	26	68.8	ON 241	47.3	51.9	11.76	12.10	11.50	10.90
				OFF 244	49.8	55.7	11.79	12.10	11.50	10.90	
33	3	1	46	121.7	ON 173	15.0	34.5	11.29	11.49	10.89	10.29
				OFF 188	22.8	35.6	11.41	11.83	11.23	10.63	
35	4	1	51	134.9	ON 156	4.9	34.1	11.14	10.44	9.84	9.24
				OFF 172	14.5	34.1	11.28	11.46	10.86	10.26	
36	4	1	75	196.4	ON 162	8.5	33.9	11.20	10.93	10.33	9.73
				OFF 186	21.8	34.8	11.40	11.80	11.20	10.60	
36	4	2	19	50.3	ON 213	33.1	38.6	11.59	12.01	11.41	10.81
				OFF 218	35.7	40.0	11.62	12.04	11.44	10.84	
36	4	3	27	71.4	ON 225	38.9	42.0	11.67	12.06	11.46	10.86
				OFF 231	42.1	44.6	11.71	12.08	11.48	10.88	
37	6	1	77	203.7	ON 166	10.5	33.6	11.23	11.14	10.54	9.94
				OFF 192	23.9	35.0	11.44	11.86	11.26	10.66	
37	6	2	59	182.5	ON 244	49.9	53.3	11.79	12.10	11.50	10.90
				OFF 253	55.3	65.0	11.82	12.10	11.50	10.90	
39	4	1	33	87.3	ON 174	15.1	33.3	11.30	11.50	10.90	10.30
				OFF 185	20.8	33.9	11.39	11.77	11.17	10.57	
39	4	2	56	174.6	ON 218	35.0	38.8	11.62	12.03	11.43	10.83
				OFF 234	43.2	44.6	11.72	12.09	11.49	10.89	
47	4	1	20	52.9	ON 239	45.8	44.3	11.75	12.10	11.50	10.90
				OFF 242	48.1	46.8	11.77	12.10	11.50	10.90	
49	8	1	25	66.1	ON 189	21.1	31.8	11.41	11.70	11.10	10.50
				OFF 193	24.9	32.6	11.48	11.89	11.29	10.69	
56	7	1	59	156.1	ON 181	17.7	31.2	11.36	11.64	11.04	10.44
				OFF 203	27.3	33.0	11.52	11.93	11.33	10.73	
52	7	1	52	137.5	ON 170	10.5	30.6	11.26	11.13	10.53	9.93
				OFF 186	19.8	31.0	11.40	11.73	11.13	10.53	
52	7	2	51	161.3	ON 226	38.3	37.2	11.68	12.06	11.46	10.86
				OFF 239	45.9	42.7	11.75	12.10	11.50	10.90	
53	6	1	18	47.6	ON 166	8.4	30.4	11.23	10.91	10.31	9.71
				OFF 172	11.8	30.4	11.28	11.25	10.65	10.05	
53	6	2	105	277.7	ON 177	15.1	30.4	11.33	11.50	10.90	10.30
				OFF 214	32.1	34.0	11.59	12.00	11.40	10.80	
53	6	3	59	182.5	ON 249	54.4	53.6	11.81	12.10	11.50	10.90
				OFF 251	59.5	67.5	11.83	12.10	11.50	10.90	
54	7	1	19	50.3	ON 221	34.4	34.7	11.64	12.02	11.42	10.82
				OFF 227	37.2	36.0	11.68	12.05	11.45	10.85	
54	7	2	38	232.8	ON 239	44.4	40.8	11.76	12.09	11.49	10.89
				OFF 251	53.9	52.2	11.83	12.10	11.50	10.90	
55	3	1	68	179.9	ON 180	15.1	30.0	11.34	11.50	10.90	10.30
				OFF 204	26.4	31.6	11.53	11.92	11.32	10.72	
56	9	1	63	166.6	ON 252	61.8	76.5	11.83	12.10	11.50	10.90
				OFF 246	62.5	95.2	11.79	12.10	11.50	10.90	

58	4	1	81	214.2	ON 253	55.6	53.5	11.83	12.10	11.50	10.90
					OFF 253	61.5	71.7	11.84	12.10	11.50	10.90
61	3	1	33	87.3	ON 253	62.3	72.9	11.83	12.10	11.50	10.90
					OFF 250	63.4	83.0	11.82	12.10	11.50	10.90
61	3	2	25	66.1	ON 222	56.8	125.8	11.64	12.10	11.50	10.90
					OFF 213	54.0	131.0	11.59	12.10	11.50	10.90
63	3	1	19	50.3	ON 246	48.6	41.7	11.79	12.10	11.50	10.90
					OFF 248	51.0	44.2	11.81	12.10	11.50	10.90
66	1	1	188	497.3	ON 165	4.4	27.9	11.22	10.37	9.77	9.17
					OFF 225	35.5	32.1	11.67	12.03	11.43	10.83
68	7	1	25	66.1	ON 165	4.4	27.5	11.22	10.37	9.77	9.17
					OFF 173	9.2	27.4	11.29	11.00	10.40	9.80
68	7	2	52	137.5	ON 178	12.2	27.3	11.33	11.29	10.69	10.09
					OFF 196	21.2	27.8	11.47	11.78	11.18	10.58
68	7	3	55	145.5	ON 222	32.7	38.5	11.64	12.01	11.41	10.81
					OFF 234	40.3	33.9	11.72	12.07	11.47	10.87
69	7	1	19	50.3	ON 172	8.2	27.2	11.28	10.89	10.29	9.69
					OFF 177	11.7	27.1	11.32	11.25	10.65	10.05
69	7	2	50	132.3	ON 183	15.2	27.1	11.37	11.50	10.90	10.30
					OFF 201	23.5	27.9	11.51	11.85	11.25	10.65
69	7	3	73	193.1	ON 253	56.3	49.3	11.83	12.10	11.50	10.90
					OFF 253	62.2	64.0	11.84	12.10	11.50	10.90
78	1	1	26	68.8	ON 249	50.7	38.4	11.81	12.10	11.50	10.90
					OFF 251	54.0	41.9	11.83	12.10	11.50	10.90
79	5	0	15	39.7	ON 244	46.1	34.3	11.78	12.10	11.50	10.90
					OFF 246	48.3	35.9	11.80	12.10	11.50	10.90

PHOTOGRAPHIC SUMMARY

AFT PAN CAMERA NO 183 0.1750 SLIT W/21 FILTER 3404 FILM
 OPN NO FRA FEET ET S-EL S-DIR EV FULL INT PRI

PRE-FLT 110 291.0

1	4	1	20	52.9	ON 253	11.0	37.0	11.84	11.83	11.23	10.63
					OFF 264	14.6	38.2	11.90	12.12	11.52	10.92
4	2	1	51	161.3	ON 317	29.0	43.7	12.16	12.61	12.01	11.41
					OFF 345	36.6	49.0	12.28	12.69	12.09	11.49
5	4	1	51	134.9	ON 250	9.5	35.8	11.82	11.68	11.08	10.48
					OFF 275	18.2	38.7	11.96	12.32	11.72	11.12
5	4	2	51	134.9	ON 318	28.9	43.4	12.16	12.61	12.01	11.41
					OFF 341	35.3	47.7	12.27	12.68	12.08	11.48
5	4	3	21	55.5	ON 356	39.6	51.6	12.33	12.71	12.11	11.51
					OFF 363	41.7	54.0	12.35	12.73	12.13	11.53
6	4	1	18	47.6	ON 248	8.7	35.4	11.81	11.59	10.99	10.39
					OFF 257	12.0	36.3	11.86	11.92	11.32	10.72
6	4	2	51	134.9	ON 335	25.6	41.5	12.10	12.55	11.95	11.35
					OFF 331	32.5	45.3	12.22	12.65	12.05	11.45
6	4	3	21	55.5	ON 351	38.0	49.7	12.31	12.70	12.10	11.50
					OFF 358	40.3	52.0	12.34	12.72	12.12	11.52
6	4	4	68	179.9	ON 378	47.5	63.0	12.42	12.75	12.15	11.55

				OFF 334	51.4	74.7	12.44	12.75	12.15	11.55
7 6 1	121	328.8		ON 287	21.2	39.3	12.82	12.43	11.83	11.23
				OFF 347	37.8	48.5	12.29	12.78	12.18	11.58
8 5 1	68	158.7		ON 273	15.4	37.1	11.94	12.17	11.57	18.97
				OFF 387	24.8	48.6	12.11	12.53	11.93	11.33
8 5 2	19	58.3		ON 328	38.2	43.4	12.21	12.63	12.83	11.43
				OFF 337	32.7	44.9	12.25	12.66	12.86	11.46
9 5 8	18	26.5		ON 172	-34.8	46.2	11.28	8.88	8.88	8.88
				OFF 173	-32.6	44.7	11.29	8.88	8.88	8.88
14 8 1	19	58.3		ON 365	48.3	49.4	12.36	12.72	12.12	11.52
				OFF 372	42.4	51.7	12.38	12.73	12.13	11.53
14 8 2	28	74.1		ON 347	49.5	116.8	12.29	12.75	12.15	11.55
				OFF 335	47.1	121.7	12.24	12.75	12.15	11.55
16 8 8	16	42.3		ON 377	44.8	54.8	12.41	12.74	12.14	11.54
				OFF 388	46.3	56.2	12.42	12.75	12.15	11.55
28 5 1	77	283.7		ON 284	18.6	35.6	12.88	12.33	11.73	11.13
				OFF 326	38.8	48.3	12.28	12.63	12.83	11.43
28 5 2	28	52.9		ON 341	34.8	42.6	12.27	12.67	12.87	11.47
				OFF 358	36.5	44.4	12.38	12.69	12.89	11.49
21 7 1	188	295.7		ON 353	37.2	44.6	12.32	12.78	12.18	11.58
				OFF 386	48.1	57.8	12.45	12.75	12.15	11.55
23 4 1	38	227.5		ON 277	15.8	34.1	11.97	12.19	11.59	18.99
				OFF 323	29.2	39.2	12.19	12.61	12.81	11.41
23 4 2	48	127.8		ON 361	39.6	46.8	12.35	12.71	12.11	11.51
				OFF 376	44.6	51.2	12.41	12.74	12.14	11.54
24 8 1	52	137.5		ON 383	23.4	36.5	12.89	12.58	11.98	11.38
				OFF 338	38.9	39.8	12.22	12.64	12.84	11.44
25 5 1	72	198.4		ON 332	38.8	39.5	12.23	12.64	12.84	11.44
				OFF 353	39.8	45.5	12.36	12.72	12.12	11.52
38 6 1	24	63.5		ON 399	57.1	88.3	12.49	12.75	12.15	11.55
				OFF 397	57.6	86.1	12.49	12.75	12.15	11.55
38 6 2	42	111.1		ON 375	55.2	118.6	12.48	12.75	12.15	11.55
				OFF 368	52.2	119.2	12.34	12.75	12.15	11.55
31 4 1	27	71.4		ON 384	46.7	58.9	12.44	12.75	12.15	11.55
				OFF 398	49.3	54.7	12.46	12.75	12.15	11.55
33 3 1	47	124.3		ON 277	14.8	31.5	11.96	12.88	11.48	18.88
				OFF 381	21.9	33.9	12.89	12.46	11.86	11.26
35 4 1	52	137.5		ON 258	3.7	29.1	11.82	18.91	18.31	9.71
				OFF 275	13.5	31.8	11.96	12.84	11.44	18.84
36 4 1	76	281.8		ON 268	7.4	29.3	11.87	11.45	18.85	18.25
				OFF 298	28.9	33.8	12.87	12.42	11.82	11.22
36 4 2	28	52.9		ON 348	32.3	37.5	12.26	12.65	12.85	11.45
				OFF 349	35.8	39.8	12.38	12.68	12.88	11.48
36 4 3	27	71.4		ON 368	38.2	41.1	12.34	12.71	12.11	11.51
				OFF 378	41.5	43.6	12.38	12.73	12.13	11.53
37 5 1	79	289.8		ON 256	9.5	29.6	11.91	11.68	11.88	18.48
				OFF 387	23.8	33.5	12.11	12.49	11.89	11.29
37 6 2	69	182.5		ON 398	49.4	52.2	12.46	12.75	12.15	11.55
				OFF 399	55.8	63.7	12.49	12.75	12.15	11.55
39 4 1	34	89.9		ON 282	14.1	38.4	11.99	12.88	11.48	18.88
				OFF 299	19.9	32.8	12.88	12.39	11.79	11.19

39	4	2	67	177.2	ON 352	34.3	37.8	12.31	12.67	12.07	11.47
					OFF 377	42.6	43.6	12.41	12.73	12.13	11.53
47	4	1	22	52.9	ON 385	45.1	43.4	12.44	12.74	12.14	11.54
					OFF 392	47.5	45.8	12.46	12.75	12.15	11.55
49	8	1	26	68.8	ON 325	22.2	30.2	12.11	12.40	11.80	11.20
					OFF 329	24.0	31.2	12.17	12.52	11.92	11.32
50	7	1	60	158.7	ON 293	16.7	28.8	12.05	12.24	11.64	11.04
					OFF 328	26.4	31.7	12.21	12.57	11.97	11.37
52	7	1	53	148.2	ON 275	9.4	26.7	11.95	11.67	11.07	10.47
					OFF 322	18.8	29.0	12.09	12.34	11.74	11.14
52	7	2	62	164.2	ON 366	37.6	36.3	12.37	12.70	12.10	11.50
					OFF 386	45.2	41.8	12.44	12.74	12.14	11.54
53	6	1	13	34.4	ON 269	7.3	26.0	11.93	11.42	10.82	10.22
					OFF 273	18.7	26.7	11.97	11.81	11.21	10.61
53	6	2	76	201.0	ON 287	14.0	27.5	12.02	12.08	11.40	10.80
					OFF 345	31.3	32.9	12.28	12.64	12.04	11.44
53	6	3	50	132.3	ON 422	53.9	52.4	12.50	12.75	12.15	11.55
					OFF 425	59.2	66.0	12.51	12.75	12.15	11.55
54	7	1	29	76.7	ON 354	33.6	33.7	12.32	12.67	12.07	11.47
					OFF 362	36.4	35.1	12.35	12.69	12.09	11.49
54	7	2	134	354.4	ON 363	43.7	39.9	12.43	12.74	12.14	11.54
					OFF 422	53.4	51.1	12.50	12.75	12.15	11.55
55	3	1	60	179.9	ON 288	14.1	27.1	12.02	12.08	11.40	10.80
					OFF 327	25.5	30.3	12.20	12.55	11.95	11.35
56	9	1	64	169.3	ON 493	61.6	74.8	12.51	12.75	12.15	11.55
					OFF 393	62.7	93.5	12.47	12.75	12.15	11.55
58	4	1	32	216.9	ON 424	55.1	52.3	12.51	12.75	12.15	11.55
					OFF 424	61.2	70.1	12.51	12.75	12.15	11.55
61	3	1	34	89.9	ON 424	62.1	71.2	12.51	12.75	12.15	11.55
					OFF 422	63.3	81.1	12.49	12.75	12.15	11.55
61	3	2	26	68.8	ON 352	57.4	124.6	12.31	12.75	12.15	11.55
					OFF 348	54.7	130.0	12.26	12.75	12.15	11.55
63	3	1	22	52.9	ON 393	48.0	48.7	12.47	12.75	12.15	11.55
					OFF 397	56.3	43.2	12.48	12.75	12.15	11.55
66	1	1	188	497.3	ON 264	3.3	23.1	11.90	10.83	10.23	9.63
					OFF 360	34.7	31.2	12.34	12.68	12.08	11.48
68	7	1	26	68.8	ON 265	3.3	22.8	11.90	10.83	10.23	9.63
					OFF 277	8.1	23.3	11.97	11.53	10.93	10.33
68	7	2	53	140.2	ON 236	11.2	23.9	12.01	11.85	11.25	10.65
					OFF 314	20.2	26.0	12.15	12.40	11.80	11.20
68	7	3	56	148.1	ON 353	31.9	29.5	12.31	12.65	12.05	11.45
					OFF 374	39.5	33.0	12.40	12.71	12.11	11.51
69	7	1	19	50.3	ON 275	7.1	22.9	11.96	11.40	10.80	10.20
					OFF 284	10.7	23.6	12.00	11.80	11.20	10.60
69	7	2	51	134.9	ON 294	14.1	24.4	12.05	12.08	11.48	10.88
					OFF 322	22.6	26.4	12.18	12.48	11.88	11.28
69	7	3	68	179.9	ON 424	55.8	48.1	12.51	12.75	12.15	11.55
					OFF 405	61.4	61.1	12.51	12.75	12.15	11.55

STELLAR-INDEX SUMMARY

CAMERA DATA	ET	FILM	FILTER	GRID	ASSEMBLY NO	D94
STELLAR	2.0	4481	NONE	100		
INDEX	1/500	4400	#/21	107		

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	14	1.39	2.77												
1	4	1	3	8.30	0.59	23	25	13	2	72	171E	2	69	177W	70
4	2	1	9	0.89	1.78	4	3	8	2	54	137E	2	44	143E	159
5	4	1	7	0.69	1.39	5	27	30	2	73	74E	2	66	99E	166
5	4	2	7	0.69	1.39	5	33	44	2	54	114E	2	46	119E	135
5	4	3	3	0.30	0.59	5	37	35	2	40	122E	2	36	123E	52
6	4	1	3	0.30	0.59	6	57	56	2	73	47E	2	71	68E	62
6	4	2	7	0.69	1.39	7	3	19	2	58	87E	2	50	94E	139
6	4	3	3	0.30	0.59	7	7	38	2	42	98E	2	39	100E	52
6	4	4	10	0.99	1.98	7	11	45	2	26	104E	2	16	106E	155
7	6	1	17	1.68	3.37	8	32	32	2	63	58E	2	44	75E	321
8	5	1	8	0.79	1.58	10	1	23	2	69	24E	2	59	41E	179
8	5	2	3	0.30	0.59	10	6	9	2	53	46E	2	50	49E	52
9	5	0	1	0.10	0.20	11	15	49	1	38	117W	1	41	115W	49
14	8	1	3	0.30	0.59	19	13	32	2	40	83W	2	37	82W	40
14	8	2	4	0.40	0.79	19	27	43	3	15	69W	3	20	68W	73
16	8	0	2	0.20	0.40	22	16	32	2	33	126W	2	31	125W	30
20	5	1	11	1.09	2.18	4	10	14	2	66	116E	2	54	131E	214
20	5	2	2	0.20	0.40	4	15	6	2	49	135E	2	46	136E	50
21	7	1	16	1.58	3.17	5	46	48	2	45	114E	2	29	120E	249
23	4	1	12	1.19	2.38	9	41	20	2	69	41E	2	55	62E	246
23	4	2	7	0.69	1.39	8	48	52	2	42	70E	2	35	72E	110
24	8	1	7	0.69	1.39	10	14	17	2	61	32E	2	53	40E	139
25	5	1	11	1.09	2.18	11	47	12	2	53	17E	2	42	24E	177
30	6	1	3	0.30	0.59	19	31	35	2	10	80W	2	6	79W	55
30	6	2	6	0.59	1.19	19	36	27	3	9	76W	3	15	75W	102
31	4	1	4	0.40	0.79	20	56	18	2	33	109W	2	29	100W	62
33	3	1	6	0.59	1.19	23	47	10	2	70	160E	2	63	175W	139
35	4	1	7	0.69	1.39	2	45	27	1	75	85E	2	70	121E	170
36	4	1	11	1.09	2.18	4	17	9	2	74	70E	2	64	114E	234
36	4	2	3	0.30	0.59	4	24	29	2	52	127E	2	49	129E	50
36	4	3	4	0.40	0.79	4	26	21	2	45	131E	2	41	133E	64
37	6	1	11	1.09	2.18	5	48	22	2	73	62E	2	62	94E	237
37	6	2	10	0.99	1.98	6	0	51	2	30	114E	2	20	117E	152
39	4	1	4	0.40	0.79	8	50	57	2	70	31E	2	65	44E	101
39	4	2	10	0.99	1.98	8	56	55	2	50	60E	2	40	65E	159
47	4	1	3	0.30	0.59	21	5	8	2	38	116W	2	34	115W	48
49	8	1	3	0.30	0.59	23	58	50	2	65	175E	2	61	170W	74
50	7	1	9	0.89	1.78	1	28	27	2	60	146E	2	59	161E	166
52	7	1	7	0.69	1.39	4	27	37	2	73	00E	2	66	104E	150
52	7	2	9	0.89	1.78	4	35	40	2	47	124E	2	38	120E	143
53	6	1	2	0.20	0.40	5	57	37	2	74	49E	2	72	61E	50

53	6	2	15	1.48	2.97	5	59	31	2	78	71E	2	54	97E	294
53	6	3	14	0.99	1.98	6	11	41	2	26	109E	2	16	112E	151
54	7	1	3	0.38	0.59	7	35	48	2	52	76E	2	49	78E	49
54	7	2	12	1.19	2.38	7	36	43	2	48	82E	2	27	86E	208
55	3	1	18	3.99	1.98	9	8	43	2	78	25E	2	68	45E	192
56	9	1	9	0.89	1.78	18	47	22	2	11	45E	2	1	46E	144
58	4	1	12	1.19	2.38	13	44	55	2	25	4W	2	13	1W	182
61	3	1	4	0.48	0.79	18	19	57	2	12	69W	2	7	68W	77
61	3	2	4	0.48	0.79	13	27	11	3	16	63W	3	28	62W	67
63	3	1	3	0.38	0.59	21	15	11	2	36	121W	2	33	120W	46
66	1	1	27	2.67	5.35	1	34	15	2	75	97E	2	51	162E	528
68	7	1	3	0.38	0.59	4	35	25	2	75	51E	2	73	78E	79
68	7	2	8	0.79	1.55	4	37	33	2	72	88E	2	65	181E	148
68	7	3	7	0.69	1.39	4	43	15	2	54	114E	2	46	119E	129
69	7	1	3	0.38	0.59	6	7	2	2	74	44E	2	72	56E	58
69	7	2	7	0.69	1.39	6	8	56	2	78	66E	2	63	81E	138
69	7	3	11	1.09	2.18	6	21	5	2	26	104E	2	16	186E	152
78	1	1	3	0.38	0.59	19	53	59	2	35	183W	2	31	182W	62
79	5	8	3	0.38	0.59	21	23	8	2	48	128W	2	38	127W	38

NOTE - TM DATA INDICATE NORMAL SYSTEM PERFORMANCE WITH ONE ANOMALY NOTED. BOTH CAMERAS PASSED EXTRA FRAMES BETWEEN ACQUISITIONS AT 67 S [REDACTED] AND 78 N [REDACTED]. THE FWD CAMERA HAD 11 FRAMES (4.2 PCT) AND THE AFT HAD 14 FRAMES (5.3 PCT) ADDITIONAL. THE SOURCE OF THE PROBLEM IS NOT KNOWN AT PRESENT. AMONG THE POTENTIAL EXPLANATIONS -

- A. MISSING THE OFF BRUSH OF OPN 68-7-1 OR 69-7-1, CAUSING AN UNINTENTIONAL MERGE OF THE FIRST TWO OPNS. (ADDITIONAL 58 SEC)
- B. MISSING THE OFF BRUSH OF 69-7-3, CAUSING THE CAMERAS TO BE TURNED OFF BY THE REDUNDANT COMMAND, 18 SEC LATER.
- C. MALFUNCTION OF THE FMC DELAY SELECTOR, CAUSING EARLY START OF THE FMC PROGRAMMER ON REV 68 OR 69.

THESE ADDITIONAL FRAMES HAVE BEEN DISTRIBUTED BY THE COMPUTER AMONG THE SIX INPUT OPERATIONS BETWEEN THOSE ACQUISITIONS. WHEN THESE EXTRA FRAMES HAVE BEEN IDENTIFIED, THE ABOVE DATA AND THE CACTUS INPUTS SHALL BE AMMENDED ASAP.

- A. 1030-1
- B. DRY
- C. FINAL PERFORMANCE ESTIMATE, PART TWO

RATE ESTIMATE

FWD PAN CAMERA NUMBER 182

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG VEL	SCAN R/SEC	RATE I/SEC	PCT CALIB	RATE REQD	
1 4 1	20	8	3	ON	946	0.2895	0.02443	1.819	43.65	-1.6	-4.3
				OFF	70	0.3016	0.02545	1.895	45.48	-1.6	-4.2
4 2 1	61	8	3	ON	1298	0.3649	0.03079	2.292	55.02	-1.6	-1.7
				OFF	159	0.3975	0.03354	2.497	59.93	-1.6	-1.4
5 4 1	50	8	3	ON	925	0.2850	0.02411	1.795	43.09	-1.6	-5.0
				OFF	166	0.3152	0.02660	1.981	47.54	-1.6	-4.6
5 4 2	51	8	3	ON	1299	0.3652	0.03082	2.295	55.08	-1.6	-1.6
				OFF	135	0.3931	0.03317	2.470	59.28	-1.6	-1.3
5 4 3	21	8	3	ON	1530	0.4110	0.03468	2.582	61.98	-1.6	-1.3
				OFF	52	0.4186	0.03532	2.630	63.12	-1.6	-1.6
6 4 1	18	8	3	ON	912	0.2834	0.02391	1.780	42.73	-1.6	-5.2
				OFF	62	0.2939	0.02480	1.847	44.32	-1.6	-5.1
6 4 2	50	8	3	ON	1235	0.3503	0.02956	2.201	52.82	-1.6	-2.3
				OFF	139	0.3808	0.03213	2.393	57.42	-1.6	-1.5
6 4 3	21	8	3	ON	1494	0.4049	0.03416	2.544	61.05	-1.6	-1.3
				OFF	52	0.4131	0.03486	2.596	62.29	-1.6	-1.6
6 4 4	60	8	3	ON	1741	0.4371	0.03688	2.746	65.91	-1.6	-2.5
				OFF	155	0.4439	0.03746	2.789	66.94	-1.6	-3.2
7 6 1	120	8	3	ON	1148	0.3296	0.02781	2.071	49.70	-1.6	-3.0
				OFF	321	0.3996	0.03374	2.512	60.29	-1.6	-1.6
8 5 1	59	8	3	ON	1041	0.3042	0.02567	1.911	45.87	-2.4	-5.9
				OFF	179	0.3434	0.02898	2.150	51.79	-2.4	-3.9
8 5 2	19	8	3	ON	1326	0.3684	0.03188	2.315	55.55	-2.4	-2.7
				OFF	52	0.3707	0.03196	2.380	57.11	-2.4	-2.7
9 5 0	9	8	3	ON	73	0.1870	0.01585	1.180	28.32	-2.4	-9.3
				OFF	49	0.1890	0.01595	1.187	28.50	-2.4	-10.4
14 0 1	19	8	3	ON	1546	0.4103	0.03462	2.578	61.87	-2.4	-2.6
				OFF	48	0.4170	0.03519	2.620	62.88	-2.4	-2.8
14 3 2	27	8	3	ON	2397	0.3903	0.03293	2.452	58.86	-2.4	-3.5
				OFF	73	0.3761	0.03173	2.363	56.71	-2.4	-3.3
16 0 0	15	8	3	ON	1650	0.4246	0.03583	2.668	64.03	-2.4	-3.0
				OFF	38	0.4285	0.03615	2.692	64.61	-2.4	-3.3
20 5 1	75	7	3	ON	1064	0.3242	0.02735	2.037	48.88	-2.4	-4.5
				OFF	214	0.3725	0.03143	2.341	56.17	-2.4	-2.3
20 5 2	20	7	3	ON	1356	0.3905	0.03295	2.454	58.89	-2.4	-1.6
				OFF	50	0.4003	0.03370	2.515	60.36	-2.4	-1.5
21 7 1	100	7	3	ON	1421	0.4039	0.03400	2.538	60.91	-2.4	-1.3
				OFF	249	0.4424	0.03733	2.780	66.71	-2.4	-1.1
23 4 1	65	7	3	ON	1020	0.3162	0.02668	1.987	47.69	-2.4	-4.6
				OFF	246	0.3700	0.03122	2.325	55.79	-2.4	-2.5

23	4	2	45	7	3	ON	1472	0.4136	0.03490	2.598	62.36	-2.4	-1.2
						OFF	110	0.4312	0.03638	2.709	65.02	-2.4	-1.2
24	8	1	51	7	3	ON	1162	0.3462	0.02921	2.175	52.21	-2.4	-3.4
						OFF	139	0.3787	0.03190	2.375	57.91	-2.4	-2.1
25	5	1	72	7	3	ON	1301	0.3803	0.03209	2.389	57.34	-2.0	-1.4
						OFF	177	0.4160	0.03510	2.614	62.73	-2.0	-0.8
30	6	1	24	7	3	ON	1983	0.4572	0.03858	2.873	68.95	-2.0	0.4
						OFF	55	0.4550	0.03839	2.859	68.61	-2.0	0.0
30	6	2	41	7	3	ON	2275	0.4293	0.03622	2.697	64.73	-2.0	2.9
						OFF	102	0.4123	0.03479	2.590	62.17	-2.0	3.0
31	4	1	26	7	3	ON	1630	0.4399	0.03712	2.764	66.34	-2.0	-0.5
						OFF	62	0.4466	0.03769	2.806	67.35	-2.0	-0.6
33	3	1	46	7	3	ON	1011	0.3159	0.02666	1.985	47.64	-2.0	-4.4
						OFF	139	0.3438	0.02901	2.160	51.85	-2.0	-3.6
35	4	1	51	7	3	ON	837	0.2852	0.02406	1.792	43.01	-2.0	-5.1
						OFF	170	0.3146	0.02654	1.977	47.44	-2.0	-4.6
36	4	1	75	7	3	ON	903	0.2966	0.02503	1.864	44.73	-2.0	-4.8
						OFF	234	0.3498	0.02876	2.142	51.40	-2.0	-3.9
36	4	2	19	7	3	ON	1342	0.3694	0.03285	2.446	58.72	-2.0	-1.3
						OFF	50	0.3992	0.03368	2.508	60.19	-2.0	-1.1
36	4	3	27	7	3	ON	1455	0.4121	0.03477	2.589	62.15	-2.0	-0.7
						OFF	64	0.4230	0.03569	2.658	63.79	-2.0	-0.7
37	6	1	77	7	3	ON	940	0.3033	0.02559	1.905	45.73	-2.0	-4.7
						OFF	237	0.3505	0.02958	2.203	52.86	-2.0	-3.2
37	6	2	69	7	3	ON	1689	0.4467	0.03769	2.806	67.35	-2.0	-0.5
						OFF	152	0.4569	0.03856	2.871	68.91	-2.0	-0.3
39	4	1	33	7	3	ON	1223	0.3186	0.02609	2.002	48.05	-1.8	-4.5
						OFF	101	0.3382	0.02054	2.125	51.00	-1.8	-4.1
39	4	2	66	7	3	ON	1381	0.3982	0.03360	2.502	60.04	-1.8	-1.0
						OFF	159	0.4272	0.03604	2.684	64.42	-1.8	-0.6
47	4	1	20	7	3	ON	1597	0.4361	0.03600	2.740	65.76	-1.8	-0.4
						OFF	46	0.4419	0.03729	2.777	66.64	-1.8	-0.4
49	8	1	25	7	3	ON	1149	0.3450	0.02911	2.160	52.03	-1.8	-3.7
						OFF	74	0.3617	0.03052	2.273	54.55	-1.8	-2.0
50	7	1	59	7	3	ON	1092	0.3313	0.02795	2.001	49.95	-1.8	-4.7
						OFF	166	0.3704	0.03125	2.327	55.85	-1.8	-2.3
52	7	1	52	7	3	ON	976	0.3101	0.02616	1.948	46.76	-1.8	-4.9
						OFF	158	0.3406	0.02674	2.140	51.36	-1.8	-4.1
52	7	2	61	7	3	ON	1460	0.4137	0.03490	2.599	62.30	-1.8	-0.6
						OFF	143	0.4364	0.03683	2.742	65.01	-1.8	-0.4
53	6	1	10	7	3	ON	942	0.3040	0.02565	1.910	45.85	-1.8	-5.1
						OFF	50	0.3139	0.02649	1.972	47.34	-1.8	-5.1
53	6	2	105	7	3	ON	1056	0.3246	0.02739	2.040	48.95	-1.8	-4.7
						OFF	294	0.3907	0.03297	2.455	58.92	-1.8	-1.4
53	6	3	69	7	3	ON	1767	0.4551	0.03840	2.860	68.53	-1.8	-0.1
						OFF	151	0.4589	0.03872	2.883	69.19	-1.8	0.4
54	7	1	19	7	3	ON	1392	0.4048	0.03415	2.543	61.04	-0.8	0.2
						OFF	49	0.4140	0.03493	2.601	62.43	-0.8	0.3
54	7	2	88	7	3	ON	1575	0.4376	0.03693	2.750	65.99	-0.8	0.7
						OFF	200	0.4591	0.03874	2.885	69.23	-0.8	0.9
55	3	1	68	7	3	ON	1060	0.3209	0.02775	2.067	49.60	-0.8	-3.7

					OFF	192	0.3729	0.03146	2.343	56.23	-0.8	-1.3
56	9	1	63	7	3 ON	2226	0.4699	0.03889	2.896	69.51	-0.8	1.9
					OFF	144	0.4491	0.03792	2.822	67.73	-0.8	3.1
58	4	1	81	7	3 ON	1613	0.4615	0.03994	2.899	69.58	-0.8	1.0
					OFF	182	0.4625	0.03922	2.986	69.74	-0.8	1.6
61	3	1	33	7	3 ON	2014	0.4615	0.03894	2.988	69.62	-0.8	1.9
					OFF	77	0.4569	0.03855	2.878	68.89	-0.8	2.5
61	3	2	25	7	3 ON	2447	0.4825	0.03396	2.529	68.69	-0.8	4.9
					OFF	67	0.3887	0.03279	2.442	58.61	-0.8	5.3
63	3	1	19	7	3 ON	1663	0.4493	0.03791	2.823	67.75	-0.8	0.9
					OFF	46	0.4538	0.03329	2.851	68.43	-0.8	0.8
66	1	1	188	7	3 ON	988	0.3011	0.02541	1.892	45.41	-0.8	-4.8
					OFF	528	0.4114	0.03471	2.585	62.83	-0.8	0.1
68	7	1	25	7	3 ON	914	0.3822	0.02558	1.899	45.57	-0.8	-4.8
					OFF	79	0.3159	0.02265	1.985	47.63	-0.8	-4.5
68	7	2	52	7	3 ON	1243	0.3256	0.02747	2.046	49.18	-0.8	-4.2
					OFF	148	0.3581	0.03221	2.253	54.28	-0.8	-2.4
68	7	3	55	7	3 ON	1384	0.4832	0.03422	2.532	68.77	-0.8	-8.8
					OFF	129	0.4272	0.03685	2.684	64.42	-0.8	0.5
69	7	1	12	7	3 ON	975	0.3133	0.02648	1.972	47.32	-0.8	-4.5
					OFF	58	0.3239	0.02733	2.635	48.84	-0.8	-4.5
69	7	2	68	7	3 ON	1393	0.3349	0.02825	2.164	58.49	-0.8	-4.1
					OFF	138	0.3677	0.03182	2.318	55.44	-0.8	-1.9
69	7	3	73	7	3 ON	1822	0.4618	0.03897	2.982	69.64	-0.8	1.1
					OFF	152	0.4631	0.03988	2.918	69.84	-0.8	1.7
78	1	1	26	7	3 ON	1714	0.4545	0.03835	2.856	68.54	-0.8	1.8
					OFF	62	0.4592	0.03974	2.885	69.24	-0.8	1.0
79	5	0	15	7	3 ON	1632	0.4455	0.03759	2.799	67.18	-0.8	0.8
					OFF	38	0.4497	0.03795	2.826	57.81	-0.8	0.8

RATE ESTIMATE

AFT PAN CAMERA NUMBER 183

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG VEL	SCAN RATE R/SEC	RATE I/SEC	PCT CALIB	RATE REQD		
1	4	1	22	8	3 ON	946	0.2947	0.02487	1.852	44.44	-0.8	-2.4
					OFF	78	0.3866	0.02587	1.926	46.23	-0.8	-2.5
4	2	1	61	8	3 ON	1298	0.3687	0.03111	2.317	55.62	-0.8	-0.7
					OFF	159	0.4087	0.03381	2.518	60.42	-0.8	-0.6
5	4	1	51	8	3 ON	925	0.2910	0.02456	1.829	43.89	-0.8	-3.1
					OFF	166	0.3288	0.02788	2.011	48.25	-0.8	-3.0
5	4	2	51	8	3 ON	1299	0.3691	0.03114	2.319	55.65	-0.8	-0.5
					OFF	135	0.3964	0.03345	2.491	59.78	-0.8	-0.4
5	4	3	21	8	3 ON	1538	0.4142	0.03493	2.681	62.43	-0.8	-0.5
					OFF	52	0.4214	0.03556	2.648	63.55	-0.8	-0.9
6	4	1	18	8	3 ON	912	0.2887	0.02436	1.814	43.53	-0.8	-3.3
					OFF	62	0.2998	0.02523	1.879	45.89	-0.8	-3.3
6	4	2	51	8	3 ON	1235	0.3544	0.02998	2.227	53.44	-0.8	-1.1
					OFF	139	0.3843	0.03243	2.415	57.95	-0.8	-0.6

6	4	3	21	8	3	ON	1494	2.4088	2.83442	2.563	61.52	-0.8	-0.5
						OFF	52	2.4161	2.83511	2.614	62.74	-0.8	-0.9
6	4	4	69	8	3	ON	1741	2.4396	2.83789	2.762	66.29	-0.8	-1.9
						OFF	155	2.4463	2.83766	2.804	67.30	-0.8	-2.7
7	6	1	121	8	3	ON	1148	2.3346	2.82819	2.899	58.37	-0.8	-2.4
						OFF	321	2.4832	2.83481	2.532	60.78	-0.8	-0.8
8	5	1	68	8	3	ON	1941	2.3169	2.82674	1.991	47.78	1.7	-1.7
						OFF	179	2.3564	2.83887	2.239	53.74	1.7	-0.1
8	5	2	19	8	3	ON	1326	2.3815	2.83219	2.397	57.53	1.7	0.8
						OFF	52	2.3919	2.83387	2.462	59.10	1.7	0.8
9	5	0	12	8	3	ON	73	2.1998	2.81685	1.255	38.12	1.7	-2.8
						OFF	49	2.2839	2.81695	1.262	38.38	1.7	-3.8
14	8	1	19	8	3	ON	1546	2.4236	2.83575	2.662	63.88	1.7	0.7
						OFF	48	2.4384	2.83632	2.785	64.91	1.7	0.4
14	8	2	26	8	3	ON	2397	2.4236	2.83485	2.536	60.86	1.7	-0.1
						OFF	73	2.3892	2.83284	2.446	58.78	1.7	0.2
16	8	2	15	8	3	ON	1658	2.4381	2.83697	2.753	66.36	1.7	0.2
						OFF	38	2.4428	2.83729	2.777	66.65	1.7	-0.1
20	5	1	77	7	3	ON	1864	2.3298	2.82783	2.872	49.73	1.7	-2.8
						OFF	214	2.3785	2.83193	2.378	57.87	1.7	-0.7
20	5	2	23	7	3	ON	1356	2.3966	2.83347	2.492	59.81	1.7	-0.6
						OFF	58	2.4864	2.83429	2.554	61.29	1.7	0.8
21	7	1	128	7	3	ON	1421	2.4181	2.83461	2.577	61.84	1.7	0.2
						OFF	249	2.4488	2.83787	2.828	67.68	1.7	0.3
23	4	1	86	7	3	ON	1728	2.3218	2.82715	2.822	48.53	1.7	-2.8
						OFF	246	2.3759	2.83172	2.362	56.68	1.7	-0.8
23	4	2	48	7	3	ON	1472	2.4198	2.83542	2.638	63.38	1.7	0.3
						OFF	112	2.4375	2.83692	2.749	65.97	1.7	0.3
24	8	1	52	7	3	ON	1162	2.3528	2.82978	2.212	53.88	1.7	-1.7
						OFF	139	2.3648	2.83241	2.413	57.91	1.7	-0.5
25	5	1	72	7	3	ON	1381	2.3864	2.83261	2.428	58.27	2.2	0.2
						OFF	177	2.4224	2.83564	2.654	63.69	2.2	0.7
30	6	1	24	7	3	ON	1983	2.4639	2.83914	2.915	69.95	2.2	1.8
						OFF	55	2.4616	2.83895	2.988	69.61	2.2	2.2
30	6	2	42	7	3	ON	2275	2.4357	2.83677	2.738	65.71	2.2	4.3
						OFF	182	2.4186	2.83532	2.638	63.13	2.2	5.3
31	4	1	27	7	3	ON	1638	2.4465	2.83767	2.885	67.33	2.2	0.9
						OFF	62	2.4532	2.83824	2.848	68.35	2.2	0.9
33	3	1	47	7	3	ON	1311	2.3216	2.82714	2.821	48.58	2.2	-2.5
						OFF	139	2.3497	2.82951	2.197	52.74	2.2	-1.8
35	4	1	52	7	3	ON	837	2.2987	2.82453	1.826	43.83	2.2	-3.1
						OFF	178	2.3283	2.82782	2.812	48.29	2.2	-2.7
36	4	1	75	7	3	ON	983	2.3822	2.82558	1.899	45.57	2.2	-2.9
						OFF	234	2.3467	2.82925	2.178	52.28	2.2	-2.1
36	4	2	28	7	3	ON	1342	2.3956	2.83338	2.485	59.65	2.2	0.3
						OFF	58	2.4255	2.83421	2.548	61.14	2.2	0.4
36	4	3	27	7	3	ON	1455	2.4185	2.83531	2.629	63.11	2.2	0.8
						OFF	64	2.4294	2.83624	2.698	64.76	2.2	0.8
37	6	1	79	7	3	ON	948	2.3889	2.82686	1.941	46.58	2.2	-2.8
						OFF	237	2.3565	2.83888	2.248	53.76	2.2	-1.5
37	6	2	69	7	3	ON	1689	2.4533	2.83824	2.848	68.35	2.2	1.8

				OFF	152	0.4636	0.03912	2.913	69.91	2.2	1.2
39	4	1	34	7	3 ON	1023	0.3281	0.02768	2.061	49.47	3.5 -1.5
				OFF	101	0.3480	0.02937	2.187	52.48	3.5	-1.2
39	4	2	57	7	3 ON	1381	0.4091	0.03452	2.570	61.69	3.5 1.7
				OFF	159	0.4386	0.03701	2.756	66.14	3.5	2.0
47	4	1	20	7	3 ON	1597	0.4477	0.03778	2.813	67.51	3.5 2.2
				OFF	48	0.4536	0.03828	2.850	68.41	3.5	2.2
49	8	1	26	7	3 ON	1149	0.3549	0.02995	2.230	53.52	3.5 -0.6
				OFF	74	0.3720	0.03139	2.337	56.29	3.5	0.1
50	7	1	60	7	3 ON	1092	0.3409	0.02877	2.142	51.41	3.5 -1.7
				OFF	166	0.3800	0.03213	2.393	57.42	3.5	0.5
52	7	1	53	7	3 ON	976	0.3194	0.02695	2.007	48.16	3.5 -1.9
				OFF	158	0.3505	0.02957	2.202	52.85	3.5	-1.2
52	7	2	62	7	3 ON	1460	0.4249	0.03585	2.669	64.07	3.5 2.1
				OFF	143	0.4461	0.03781	2.815	67.56	3.5	2.2
53	6	1	13	7	3 ON	942	0.3132	0.02643	1.960	47.23	3.5 -2.0
				OFF	50	0.3233	0.02720	2.031	48.75	3.5	-2.0
53	6	2	76	7	3 ON	1256	0.3342	0.02820	2.100	50.39	3.5 -1.7
				OFF	294	0.4015	0.03300	2.523	60.55	3.5	1.3
53	6	3	53	7	3 ON	1787	0.4671	0.03941	2.935	70.44	3.5 2.4
				OFF	151	0.4709	0.03973	2.959	71.01	3.5	2.9
54	7	1	29	7	3 ON	1392	0.4117	0.03474	2.587	62.09	3.6 1.9
				OFF	49	0.4211	0.03553	2.646	63.49	3.6	1.9
54	7	2	134	7	3 ON	1575	0.4449	0.03754	2.795	67.09	3.6 2.4
				OFF	200	0.4665	0.03936	2.931	70.35	3.6	2.5
55	3	1	68	7	3 ON	1060	0.3352	0.02829	2.106	50.55	3.6 -1.8
				OFF	192	0.3796	0.03203	2.305	57.24	3.6	0.5
56	9	1	64	7	3 ON	2026	0.4684	0.03952	2.943	70.63	3.6 3.5
				OFF	144	0.4565	0.03852	2.868	68.84	3.6	4.6
58	4	1	02	7	3 ON	1813	0.4689	0.03957	2.946	70.71	3.6 2.6
				OFF	182	0.4700	0.03965	2.953	70.07	3.6	3.3
61	3	1	34	7	3 ON	2014	0.4690	0.03957	2.947	70.73	3.6 3.4
				OFF	77	0.4643	0.03910	2.917	70.01	3.6	4.0
61	3	2	26	7	3 ON	2447	0.4095	0.03455	2.573	61.74	3.6 6.5
				OFF	67	0.3955	0.03337	2.465	59.64	3.6	6.9
63	3	1	20	7	3 ON	1663	0.4566	0.03853	2.869	68.06	3.6 2.5
				OFF	46	0.4612	0.03891	2.898	69.55	3.6	2.4
66	1	1	100	7	3 ON	900	0.3073	0.02593	1.931	46.33	3.6 -2.7
				OFF	520	0.4184	0.03531	2.629	63.10	3.6	1.8
68	7	1	26	7	3 ON	914	0.3083	0.02601	1.937	46.49	3.6 -2.7
				OFF	79	0.3221	0.02710	2.024	48.57	3.6	-2.5
68	7	2	53	7	3 ON	1043	0.3319	0.02801	2.086	50.05	3.6 -2.2
				OFF	148	0.3647	0.03077	2.291	54.99	3.6	-0.6
68	7	3	56	7	3 ON	1384	0.4100	0.03459	2.576	61.82	3.6 1.7
				OFF	129	0.4344	0.03665	2.729	65.50	3.6	2.1
69	7	1	19	7	3 ON	978	0.3200	0.02700	2.011	48.26	3.6 -2.5
				OFF	58	0.3302	0.02700	2.075	49.79	3.6	-2.5
69	7	2	51	7	3 ON	1093	0.3413	0.02879	2.144	51.46	3.6 -2.2
				OFF	138	0.3743	0.03159	2.352	56.45	3.6	-0.1
69	7	3	68	7	3 ON	1822	0.4693	0.03960	2.949	70.77	3.6 2.7
				OFF	140	0.4709	0.03973	2.959	71.01	3.6	3.2

RAMP PROFILES

R= 8 A= 3 PERIOD= 3830

R= 6.3215 A= 0.1299

TUR PER CPS ANG V

-0	5.216	0.1917	0.01734
100	5.180	0.1930	0.01746
200	5.076	0.1970	0.01732
300	4.913	0.2036	0.01841
400	4.706	0.2125	0.01922
500	4.470	0.2237	0.02023
600	4.220	0.2369	0.02143
700	3.970	0.2519	0.02278
800	3.727	0.2683	0.02425
900	3.499	0.2858	0.02585
1000	3.290	0.3042	0.02749
1100	3.097	0.3229	0.02921
1200	2.877	0.3476	0.03144
1300	2.693	0.3713	0.03353
1400	2.543	0.3932	0.03556
1500	2.424	0.4125	0.03731
1600	2.334	0.4284	0.03875
1700	2.270	0.4405	0.03984
1800	2.231	0.4482	0.04053
1900	2.216	0.4512	0.04081
2000	2.224	0.4496	0.04066
2100	2.256	0.4432	0.04009
2200	2.312	0.4325	0.03911
2300	2.394	0.4176	0.03777
2400	2.505	0.3993	0.03611
2500	2.645	0.3781	0.03420
2600	2.810	0.3542	0.03209
2700	3.027	0.3284	0.02988
2800	3.231	0.3095	0.02800
2900	3.434	0.2912	0.02634
3000	3.657	0.2734	0.02473
3100	3.896	0.2567	0.02322
3200	4.145	0.2413	0.02192
3300	4.396	0.2275	0.02058
3400	4.637	0.2157	0.01950
3500	4.855	0.2060	0.01863
3600	5.032	0.1987	0.01797
3700	5.156	0.1940	0.01754
3800	5.213	0.1918	0.01735

R= 7 A= 3 PERIOD= 3830

R= 8.3377 A= 0.1298

TUR PER CPS ANG V

-0	4.810	0.2079	0.01800
100	4.779	0.2092	0.01892
200	4.690	0.2132	0.01928
300	4.551	0.2190	0.01948
400	4.372	0.2287	0.02069
500	4.168	0.2399	0.02170
600	3.950	0.2531	0.02290
700	3.730	0.2681	0.02425
800	3.515	0.2845	0.02573
900	3.312	0.3020	0.02731
1000	3.123	0.3202	0.02896
1100	2.949	0.3391	0.03067
1200	2.749	0.3638	0.03290
1300	2.581	0.3875	0.03505
1400	2.443	0.4094	0.03703
1500	2.333	0.4287	0.03877
1600	2.249	0.4446	0.04021
1700	2.190	0.4567	0.04130
1800	2.153	0.4644	0.04200
1900	2.139	0.4674	0.04228
2000	2.147	0.4656	0.04213
2100	2.177	0.4594	0.04155
2200	2.229	0.4487	0.04053
2300	2.305	0.4330	0.03924
2400	2.407	0.4155	0.03758
2500	2.536	0.3943	0.03566
2600	2.695	0.3710	0.03356
2700	2.885	0.3466	0.03135
2800	3.070	0.3257	0.02946
2900	3.253	0.3074	0.02780
3000	3.453	0.2896	0.02620
3100	3.665	0.2729	0.02468
3200	3.884	0.2575	0.02329
3300	4.104	0.2437	0.02204
3400	4.313	0.2319	0.02097
3500	4.501	0.2222	0.02010
3600	4.653	0.2149	0.01944
3700	4.750	0.2102	0.01901
3800	4.807	0.2080	0.01881

CLOCK SUMMARY

SYS TIME I/P	ORDER FIT 1 CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.406261430 05	0.1420123150 06	0.4062614250 05	0.0005	9	
0.802628430 05	0.1824490260 06	0.8026283970 05	0.0033	16	
0.357728500 05	0.2243590510 06	0.3577285000 05	-0.0000	24	
0.754482800 05	0.2640344980 06	0.7544828320 05	-0.0032	31	
0.364021760 05	0.3113084040 06	0.3640217270 05	0.0033	40	

0.760117350 05	0.3509979830 06	0.7601173790 05	-0.0029	47
0.370035500 05	0.3983898210 06	0.3700355930 05	-0.0013	56
0.765995500 05	0.4379858320 06	0.7659955650 05	-0.0065	63
0.375304860 05	0.4853167770 06	0.3753048500 05	0.0010	72
0.771766500 05	0.5249629580 06	0.7717665220 05	0.0058	79

A0=-0.10218612270 06 A1= 0.9999996511520 00
SIGMA=0.00330 NO. POINTS= 10
RATIO OF CLOCK TIME TO SYS TIME= 0.1000000348850 01

SYS TIME I/P	ORDER FIT 2 CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.406261430 05	0.1428123150 06	0.4062614540 05	-0.0024	9	
0.802628430 05	0.1824490260 06	0.8026284070 05	0.0023	16	
0.357728500 05	0.2243590510 06	0.3577284960 05	0.0004	24	
0.754482600 05	0.2640344960 06	0.7544828180 05	-0.0018	31	
0.364021760 05	0.3113884040 06	0.3640217070 05	0.0053	40	
0.760117350 05	0.3509979830 06	0.7601173580 05	-0.0008	47	
0.370035500 05	0.3983898210 06	0.3700355780 05	0.0002	56	
0.765995500 05	0.4379858320 06	0.7659955590 05	-0.0059	63	
0.375304860 05	0.4853167770 06	0.3753048610 05	-0.0001	72	
0.771766500 05	0.5249629580 06	0.7717665510 05	0.0029	79	

A0=-0.10218610940 06 A1= 0.9999995586820 00
A2= 0.13850253987840-12
SIGMA=0.00281 NO. POINTS= 10

CLOCK OPERATIONS

OPN	NO	FR		H	M	S	DEC	BINARY
1	4	1	20	ON	23	25	13	100099 001011110110110001110111000
				OFF	23	26	23	100169 00101111110000111010100101000
4	2	1	61	ON	4	3	8	116774 00110111101011101010001110000
				OFF	4	5	47	116933 00110111110000100000110001000
5	4	1	50	ON	5	27	30	121836 00111010000110001000111100000
				OFF	5	30	16	122002 00111010001011001101001010000
5	4	2	51	ON	5	33	44	122210 00111010010001100011011010000
				OFF	5	35	59	122345 00111010010101101011000101000
5	4	3	21	ON	5	37	35	122441 001110100110001001101000101000
				OFF	5	38	27	122493 00111010011010001100001001001000
6	4	1	18	ON	6	57	56	127262 00111100101011101110100110000
				OFF	6	58	58	127324 00111100101101100111101100000
6	4	2	50	ON	7	3	19	127585 00111100110101100101011101000
				OFF	7	5	38	127724 00111100111001110101011100000
6	4	3	21	ON	7	7	38	127844 00111100111101011111010100000
				OFF	7	8	38	127896 00111100111111000100111000000
6	4	4	68	ON	7	11	45	128091 00111101000101000000101111000
				OFF	7	14	20	128246 001111010010011100000011110000

7 6 1 128	ON 8 32 32 132939	00111111011000111110011111000
	OFF 8 37 53 133260	00111111100010110001011100000
8 5 1 59	ON 10 1 23 138269	01000001111011101000101001000
	OFF 10 4 22 138448	01000010000001000110010000000
8 5 2 19	ON 10 6 9 138555	01000010000100010111001111000
	OFF 10 7 1 138607	01000010000101111100110011000
9 5 0 9	ON 11 15 49 142736	01000100000011111101010000000
	OFF 11 16 38 142785	010001000000101011100111101000
14 8 1 19	ON 19 13 32 171398	01010001101110101001011110000
	OFF 19 14 20 171446	010100011100000000111011110000
14 8 2 27	ON 19 27 43 172249	01010010001000100111110101000
	OFF 19 28 56 172322	01010010001010110110011010000
16 8 0 15	ON 22 16 32 182378	01010101111011011110000100000
	OFF 22 17 10 182416	01010101111101110010100000000
20 5 1 75	ON 4 10 14 203600	01100001000101011000010000000
	OFF 4 13 48 203614	01100001001011111010001110000
20 5 2 28	ON 4 15 6 203892	01100001001110010010100100000
	OFF 4 15 56 203942	01100001001111101000011100000
21 7 1 108	ON 5 46 48 209394	01100011110110001100101010000
	OFF 5 50 57 209643	01100011111011100101111110000
23 4 1 86	ON 8 41 20 219866	01101000110101110001110010000
	OFF 8 45 26 220112	01101000111101010010010000000
23 4 2 48	ON 8 48 52 220318	01101001000011100100100110000
	OFF 8 50 42 220428	01101001000110111011011100000
24 8 1 51	ON 10 14 17 225443	01101011011111111110010111000
	OFF 10 16 36 225582	01101011100100001101110110000
25 5 1 72	ON 11 47 12 231010	01101110001010000111000010000
	OFF 11 50 9 231195	01101110001111100000101111000
30 6 1 24	ON 19 31 35 258882	01111011011100011100111010000
	OFF 19 32 30 258937	01111011011110001000101010000
30 6 2 41	ON 19 36 27 259173	01111011100101010101010001000
	OFF 19 38 9 259275	01111011101000011100011111000
31 4 1 26	ON 20 56 18 263965	01111101110111100100101001000
	OFF 20 57 20 264027	01111101111001011011011110000
33 3 1 46	ON 23 47 10 274217	10000010110000011100000101000
	OFF 23 49 29 274356	10000010110100101011100100000
35 4 1 51	ON 2 45 27 284913	10000111110110110110101010000
	OFF 2 48 17 285083	10000111111000000101011110000
36 4 1 75	ON 4 17 9 290416	10001010011110110010110000000
	OFF 4 21 3 290650	10001010100101111011110010000
36 4 2 19	ON 4 24 29 290855	10001010101100001100001011000
	OFF 4 25 19 290905	10001010101101101101110101000
36 4 3 27	ON 4 26 21 290967	10001010101111001101110110000
	OFF 4 27 25 291031	10001010110001100011111011000
37 6 1 77	ON 5 48 22 295888	10001101000101110010010000000
	OFF 5 52 19 296125	10001101001101000001001001000
37 6 2 69	ON 6 8 51 296637	10001101011100101001001001000
	OFF 6 3 23 296789	10001101100001010010000001000
39 4 1 33	ON 8 50 57 306843	10010010010100000110101111000
	OFF 8 52 38 306944	10010010010110011000000000000
39 4 2 66	ON 8 56 55 307202	10010010011111000011111010000

47	4	1	28	OFF	8	59	34	387361	10010010100011111010011101000
				ON	21	5	8	358894	10100111010100011011110110000
				OFF	21	5	56	358942	101001110101011111001100110000
49	8	1	25	ON	23	58	50	361316	10101100010010011111010100000
				OFF	24	8	4	361398	10101100010100101111110110000
50	7	1	59	ON	1	28	27	366693	10101110110110100101010001000
				OFF	1	31	13	366859	10101110111011101001011111000
52	7	1	52	ON	4	27	37	377443	10110011111110101001010111000
				OFF	4	30	15	377601	10110100000011011101111101000
52	7	2	61	ON	4	35	40	377927	101101000011010110101011000
				OFF	4	38	3	378070	10110100010001110001111110000
53	6	1	18	ON	5	57	37	382843	10110110100011011100001111000
				OFF	5	58	35	382981	10110110100101001101100001000
53	6	2	105	ON	5	59	31	382957	10110110100110111010111001000
				OFF	6	4	25	383251	101101101011111111001000111000
53	6	3	69	ON	6	11	41	383687	10110110111101001100101011000
				OFF	6	14	12	383838	10110111000001110011100110000
54	7	1	19	ON	7	35	40	388726	10111001010110111110011110000
				OFF	7	36	29	388775	10111001011000011110001011000
54	7	2	88	ON	7	38	43	388909	10111001011100100011111001000
				OFF	7	42	3	389109	10111001100010101010100001000
55	3	1	68	ON	9	8	43	393829	10111011110010101101010001000
				OFF	9	3	55	394021	10111011111000100100010001000
56	9	1	63	ON	10	47	22	400228	10111101101011111111010100000
				OFF	10	49	46	400372	10111110111010011000100100000
58	4	1	81	ON	13	44	55	410081	11000011111011000101111101000
				OFF	13	47	57	411063	11000100000000101001011011000
61	3	1	33	ON	18	19	57	427383	11001011110010101100011011000
				OFF	18	21	14	427460	11001011110101000010110100000
61	3	2	25	ON	18	27	11	427817	110010111111111111100000101000
				OFF	18	28	18	427884	11001100000001111110111100000
63	3	1	19	ON	21	15	11	437897	11010000110011100011100101000
				OFF	21	15	57	437943	11010000110100111101011011000
66	1	1	188	ON	1	34	15	453441	11011000001101111010111101000
				OFF	1	42	55	453961	11011000011101110010100101000
68	7	1	25	ON	4	35	25	464311	11011101011001101001011011000
				OFF	4	36	44	464390	11011101011100000011011100000
68	7	2	52	ON	4	37	33	464439	11011101011101100011011011000
				OFF	4	40	1	464507	11011101100010000100011111000
68	7	3	55	ON	4	43	15	464781	11011101100111111111011001000
				OFF	4	45	24	464910	11011101101011111011010110000
69	7	1	19	ON	6	7	2	469808	11100000000010110011100000000
				OFF	6	8	8	469866	11100000000010010110000100000
69	7	2	50	ON	6	8	56	469922	11100000000100111000011010000
				OFF	6	11	14	470060	11100000001001000101111100000
69	7	3	73	ON	6	21	5	470651	11100000011011001000001111000
				OFF	6	23	37	470803	11100000011111110001000111000
78	1	1	26	ON	19	53	59	519425	11110111101011100101111101000
				OFF	19	55	1	519487	11110111101101011111000011000
79	5	0	15	ON	21	23	8	524774	11111010001110110101001110000
				OFF	21	23	46	524812	11111010001111111111011100000

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