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ACTION !!

CORONA "J"
FLIGHT DATA
BOOK
1034-2

Declassified and Released by the NRC

In Accordance with E. O. 12958

on NOV 26 1997

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4 PAGES
(NOT INCLUDING PEST)

CORONA J-FLIGHT DATA BOOK

SYSTEM NO. J-31

VEHICLE NO. 1626

MISSION NO. 1834-2

CAMERA NOS. 186/187

DATE 7-01-66

PAGE 1

~~SECRET~~

~~SECRET~~

SYSTEM NO. J-31
VEHICLE NO. 1626
MISSION NO. 1834-2
CAMERA NOS. 186/187

TABLE OF CONTENTS

PAGE NO.

GENERAL FLIGHT DATA

3

CYCLE PERIOD DATA

4

PERFORMANCE ESTIMATE

5- UP

PAGE 2

~~SECRET~~

~~SECRET~~

SYSTEM NO. J-31
VEHICLE NO. 1626
MISSION NO. 1034-2
CAMERA NOS. 186/187

GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 186

SLAVE CAMERA SERIAL NO. 187

S/Y -1 SERIAL NO. D85/189/76

S/Y -2 SERIAL NO. D87/187/185

LAUNCH DATE 6-21-66

REACTIVATION DATE N/A

REACTIVATION ORBIT N/A

ORBITAL PARAMETERS (REV. 136)

PERIOD 90.828 MIN

ECCENTRICITY 0.81278

PERIGEE 176.591 NM

PERIGEE LAT. 38.178

APOGEE 186.412 NM

INCL. ANGLE 88.184

RECOVERY ORBIT NO. 161

RECOVERY DATE 7-31-66

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SYSTEM NO. J-31
VEHICLE NO. 1626
MISSION NO. 1034-2
CAMERA NOS. 186/187

CYCLE PERIOD DATA

V/F	RAMP SETTINGS		TIME UP RAMP-SEC	---CALIBRATED---		---IN-FLIGHT---		ORE NO.
	LEVEL	AMPLITUDE		MASTER	SLAVE	MASTER	SLAVE	
3		11	2740	2.434	2.434	2.451	2.430	95
3		11	2740	2.434	2.434	2.465	2.453	111
2		11	2740	2.347	2.347	2.380	2.380	127
2		11	2740	2.347	2.347	2.390	2.370	143
2		11	2740	2.347	2.347	2.369	2.367	155

NOTE

AN * OR -3 INDICATES NO DATA AVAILABLE.

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A. 1034-2

B. DRY

C. PERFORMANCE ESTIMATE PART ONE

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OPERATIONS SUMMARY

FWD PAN CAMERA NUMBER 186

OPN NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM
80	2 1	11 ON	3 23 18	128 28W	743032	770227	1	22	0	57	1327	79257
		OFF	3 25 28	128 1W	753041	780616	1	22	1	29	1329	79289
81	2 2	3 ON	2 61 2	168 24W	730601	757327	1	23	9	57	1156	83397
		OFF	2 59 33	167 23W	724884	751393	1	23	10	21	12 0	83421
82	5 1	14 ON	2 76 26	142 6E	801330	830745	2	0	35	36	10 4	2136
		OFF	2 74 12	157 9E	788512	817439	2	0	36	21	1036	2181
82	5 2	39 ON	2 69 53	159 26E	767143	795256	2	0	37	38	1115	2258
		OFF	2 61 58	160 14E	733328	760157	2	0	39	48	1152	2388
84	5 1	53 ON	2 51 27	128 40E	694551	719913	2	3	42	42	1217	13362
		OFF	2 41 57	131 41E	668627	693010	2	3	45	6	1231	13506
85	6 1	32 ON	2 26 18	112 5E	644085	667545	2	5	19	6	1247	19146
		OFF	2 21 2	112 53E	641812	665186	2	5	20	24	1251	19224
85	6 2	14 ON	2 7 27	114 34E	650553	674256	2	5	23	47	13 2	19427
		OFF	2 5 3	114 51E	654313	678157	2	5	24	23	13 3	19463
87	4 1	52 ON	2 50 31	56 34E	719586	745895	2	8	10	53	1157	29453
		OFF	2 45 7	52 40E	674621	699231	2	8	14	34	1225	29674
88	2 2	16 ON	1 30 45	115 40E	1041627	1080309	2	9	21	10	137	33670
		OFF	1 41 43	115 6E	1030383	1068626	2	9	21	56	141	33716
88	2 1	21 ON	2 70 27	22 26E	763574	791551	2	9	38	1	11 7	34681
		OFF	2 67 5	27 16E	748638	776048	2	9	38	58	1128	34738
86	2 2	19 ON	2 57 51	34 54E	712796	738048	2	9	41	24	12 1	34804
		OFF	2 54 31	36 38E	701429	727030	2	9	42	16	12 8	34936
88	2 3	13 ON	2 40 22	33 45E	685538	710559	2	9	43	35	1218	35015
		OFF	2 40 57	39 34E	678790	703557	2	9	44	12	1222	35052
88	2 4	73 ON	2 10 25	45 20E	642350	665745	2	9	51	49	1253	35509
		OFF	2 3 3	47 3E	658698	682707	2	9	55	8	13 3	35708
90	3 1	54 ON	2 20 16	1 44E	645376	668884	2	12	48	47	1241	46127
		OFF	2 20 32	0 25E	641303	664659	2	12	50	57	1249	46257
91	8 1	37 ON	2 70 20	73 12W	804396	833928	2	14	5	36	912	50736
		OFF	2 73 10	51 8W	773621	801981	2	14	7	27	1042	50847
91	5 2	12 ON	2 67 21	41 4E	747139	774493	2	14	9	7	1124	50947
		OFF	2 60 1	30 37W	737480	764467	2	14	9	45	1135	50985
92	9 1	42 ON	3 4 24	42 40E	678675	703437	2	15	57	18	13 6	57438
		OFF	3 11 47	41 56E	702936	728613	2	15	59	8	1311	57548
95	2 1	19 ON	2 37 11	116 36E	655357	679241	2	20	17	12	1230	73032
		OFF	2 33 50	115 55E	650392	674089	2	20	18	2	1234	73082
97	4 1	22 ON	2 67 25	177 11E	742934	770128	2	23	9	34	1120	63374
		OFF	2 60 31	170 9E	727539	754149	2	23	10	37	1137	63437
98	5 1	35 ON	2 60 27	162 20E	734233	761096	3	0	40	10	1129	2410
		OFF	2 59 4	167 27E	710720	736694	3	0	41	51	1151	2511
100	5 1	62 ON	2 53 3	125 14E	690235	715434	3	3	43	33	12 4	13413
		OFF	2 41 34	129 1E	661685	686015	3	3	46	27	1222	13587
101	7 1	51 ON	3 19 14	114 56E	739115	766161	3	5	31	38	1311	19898

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		OFF	3	28	54	116	22E	785863	814686	3	5	34	3	1319	28843			
102	5	1	16	ON	2	74	35	55	29E	778918	799167	3	6	37	49	1819	23869	
		OFF	2	72	18	61	27E	759815	787658	3	6	38	32	1844	23912			
102	5	2	65	ON	2	36	23	84	26E	655523	679413	3	6	47	23	1225	24443	
		OFF	2	27	6	86	32E	643468	666896	3	6	58	12	1236	24612			
103	4	1	72	ON	2	45	55	59	29E	672374	696899	3	8	15	19	1213	29719	
		OFF	2	34	59	62	28E	650326	674821	3	8	18	19	1228	29899			
104	8	1	26	ON	2	37	15	39	28E	653249	677854	3	9	47	48	1225	35268	
		OFF	2	32	56	48	12E	647745	671343	3	9	48	53	1229	35333			
104	8	2	45	ON	2	18	23	43	27E	651359	675892	3	9	54	29	1248	35669	
		OFF	2	3	4	44	17E	664829	689869	3	9	56	18	1253	35778			
105	5	1	11	ON	2	32	51	17	33E	647585	671894	3	11	18	58	1229	48738	
		OFF	2	38	58	17	53E	645747	669278	3	11	19	26	1231	48766			
105	5	2	58	ON	2	23	27	19	5E	642463	665862	3	11	21	18	1237	48878	
		OFF	2	14	7	28	28E	647836	678687	3	11	23	37	1244	41817			
107	5	1	20	ON	2	75	33	61	7W	771248	799518	3	14	7	48	18	5	58868
		OFF	2	72	19	51	55W	755454	783123	3	14	8	58	1841	58938			
108	5	1	56	ON	3	2	13	45	46W	688312	785135	3	15	57	58	1254	57478	
		OFF	3	14	44	44	48W	788691	734585	3	15	59	57	13	8	57597		
109	4	1	23	ON	2	11	37	78	1W	651167	674892	3	17	24	28	1244	62668	
		OFF	2	8	8	69	37W	656689	688539	3	17	25	28	1246	62728			
109	4	2	24	ON	3	15	33	66	53W	728576	755223	3	17	31	12	13	3	63872
		OFF	3	19	44	66	28W	747839	774386	3	17	32	15	13	6	63135		
111	4	1	13	ON	2	37	53	119	28W	652968	676763	3	20	18	2	1228	73882	
		OFF	2	35	29	118	57W	649854	673531	3	20	18	38	1222	73118			
114	7	1	35	ON	2	68	23	156	18E	733416	768248	4	8	48	19	11	5	2419
		OFF	2	62	1	162	42E	718355	736314	4	8	42	2	1132	2522			
115	7	2	18	ON	3	5	52	156	4E	698913	724437	4	2	29	21	1253	8961	
		OFF	3	10	21	156	28E	711555	737557	4	2	38	13	1256	9813			
115	7	1	13	ON	2	52	54	122	36E	681676	786552	4	3	44	29	1154	13469	
		OFF	2	58	33	123	33E	675788	788359	4	3	45	5	1159	13585			
116	7	2	23	ON	3	1	26	132	47E	681951	786846	4	3	58	3	1249	14283	
		OFF	3	5	56	133	17E	695841	721258	4	3	59	9	1252	14349			
116	7	3	21	ON	3	14	47	133	51E	713758	739844	4	4	8	22	1255	14422	
		OFF	3	14	49	134	21E	732148	756846	4	4	1	22	1258	14482			
117	5	1	53	ON	2	43	28	123	18E	668137	684282	4	5	16	56	12	9	19816
		OFF	2	34	8	185	18E	647278	678858	4	5	19	16	1228	19156			
117	5	2	55	ON	2	25	38	186	37E	643186	666612	4	5	21	18	1227	19278	
		OFF	2	17	11	187	56E	646616	678178	4	5	23	28	1235	19488			
118	5	1	18	ON	2	74	31	53	3E	755853	783537	4	6	38	42	1818	23922	
		OFF	2	78	16	58	58E	745698	772988	4	6	39	24	1834	23964			
118	6	2	57	ON	2	41	47	81	56E	656839	688779	4	6	47	24	1211	24444	
		OFF	2	32	58	82	51E	646858	669592	4	6	49	36	1221	24576			
119	4	1	154	ON	2	69	31	41	12E	733465	768299	4	8	18	14	1855	29414	
		OFF	2	43	5	57	56E	658656	682665	4	8	17	7	12	8	29827		
120	9	1	14	ON	2	43	23	34	37E	662457	686889	4	9	46	34	12	5	35194
		OFF	2	43	2	35	17E	658186	682177	4	9	47	9	12	8	35229		
120	9	2	19	ON	2	11	28	48	39E	654884	677928	4	9	55	1	1237	35781	
		OFF	2	8	4	41	3E	668877	684138	4	9	55	52	1248	35752			
120	9	3	28	ON	2	5	38	41	21E	665434	689697	4	9	56	38	1241	35798	
		OFF	2	2	1	41	44E	673911	698492	4	9	57	22	1244	35842			

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121	7	1	65	ON	2	14	25	17	38E	658869	673754	4	11	24	19	1234	41859	
				OFF	2	3	5	18	57E	671523	696814	4	11	27	8	1243	41228	
121	7	2	29	ON	3	13	43	28	53E	728458	755892	4	11	31	19	1254	41479	
				OFF	3	18	51	21	32E	751139	778641	4	11	32	36	1258	41556	
122	3	1	88	ON	2	25	27	6	31W	642824	666237	4	12	51	37	1225	46297	
				OFF	2	12	35	4	47W	652776	676562	4	12	54	49	1235	46489	
124	7	1	46	ON	3	15	14	46	54W	737888	763966	4	16	1	47	1254	57787	
				OFF	3	23	53	45	44W	777775	886298	4	16	3	57	13	1	57837
125	2	1	16	ON	2	11	2	72	35W	656458	688374	4	17	25	18	1234	62718	
				OFF	2	8	7	72	15W	661889	686818	4	17	26	1	1236	62761	
125	2	2	32	ON	3	15	5	69	35W	737896	764866	4	17	31	48	1253	63188	
				OFF	3	22	47	68	58W	763218	791179	4	17	33	13	1257	63193	
127	4	2	15	ON	2	33	49	121	15W	646897	669633	4	28	19	42	1214	73182	
				OFF	2	31	19	125	48W	644639	668128	4	28	28	19	1217	73219	
132	2	1	35	ON	2	67	57	154	8E	719751	746866	5	8	41	2	1857	2462	
				OFF	2	62	5	162	3E	768293	725872	5	8	42	37	1122	2557	
133	2	1	14	ON	2	41	54	108	59E	653681	677428	5	5	17	58	12	1	19878
				OFF	2	39	31	101	34E	658622	674328	5	5	18	26	12	4	19186
133	2	2	57	ON	2	26	22	184	3E	644854	667513	5	5	21	43	1217	19383	
				OFF	2	17	6	185	22E	658234	673925	5	5	24	1	1225	19441	
134	4	1	15	ON	2	74	35	58	16E	742481	769574	5	6	39	11	18	8	23951
				OFF	2	72	21	56	6E	732944	759759	5	6	39	53	1824	23993	
134	4	2	43	ON	2	65	33	66	17E	788458	734337	5	6	41	47	11	6	24187
				OFF	2	58	11	72	2E	686499	711557	5	6	43	44	1131	24224	
134	4	3	13	ON	2	52	1	75	3E	671396	695885	5	6	45	18	1145	24318	
				OFF	2	49	35	76	8E	666227	698521	5	6	45	55	1149	24355	
135	7	1	47	ON	2	42	22	55	33E	653623	677442	5	8	17	46	12	8	29866
				OFF	2	34	29	57	19E	645881	669326	5	8	19	44	12	9	29984
136	9	1	48	ON	2	51	27	29	58E	669287	693613	5	9	45	29	1145	35129	
				OFF	2	43	38	32	33E	655156	679833	5	9	47	28	1157	35248	
136	9	2	35	ON	2	36	51	34	11E	647362	678946	5	9	49	18	12	5	35358
				OFF	2	31	1	35	18E	644193	667658	5	9	58	37	1211	35437	
136	9	3	52	ON	2	6	38	39	42E	669895	694325	5	9	56	42	1231	35882	
				OFF	3	1	47	39	36E	693218	718519	5	9	58	46	1237	35926	
137	8	1	23	ON	2	8	36	15	47E	686222	711267	5	11	28	18	1234	41298	
				OFF	3	3	58	17	18E	788523	726212	5	11	29	16	1237	41356	
137	8	2	52	ON	3	16	9	18	37E	758278	777748	5	11	32	28	1246	41548	
				OFF	3	25	58	19	57E	798874	827362	5	11	34	46	1254	41686	
137	8	3	23	ON	3	31	6	27	49E	826555	856931	5	11	36	5	1259	41765	
				OFF	3	34	51	21	31E	847768	878947	5	11	37	2	13	3	41822
140	4	1	59	ON	2	8	35	51	17W	687723	712825	5	15	58	13	1233	57493	
				OFF	3	9	46	58	6W	724726	751286	5	16	8	48	1248	57648	
141	6	1	53	ON	3	9	18	72	49W	723424	749875	5	17	38	41	1239	63841	
				OFF	3	15	53	71	38W	765988	794846	5	17	33	5	1246	63185	
143	7	4	14	ON	2	33	38	123	45W	644887	668294	5	28	28	3	12	5	73283
				OFF	2	31	14	123	18W	644165	667629	5	28	28	39	12	7	73239
144	1	2	11	ON	3	21	36	139	14W	781512	818169	5	22	3	47	1246	79427	
				OFF	3	23	51	136	55W	793855	822151	5	22	4	21	1248	79461	
145	2	1	58	ON	2	63	27	156	24E	694284	719636	6	8	42	29	11	8	2549
				OFF	2	55	2	161	51E	672835	697378	6	8	44	48	1132	2688	
149	6	1	18	ON	2	74	27	78	57E	729497	756181	6	5	9	22	952	18562	

	OFF	2	71	44	77	32E	719816	745383	6	5	18	12	1828	18612			
149	6	2	38	ON	2	58	17	95	54E	662254	686398	6	5	15	53	1139	18953
	OFF	2	44	59	97	39E	653972	677885	6	5	17	13	1147	19833			
149	6	3	12	ON	2	41	42	98	32E	658867	673752	6	5	18	2	1152	19882
	OFF	2	39	26	99	5E	647948	671545	6	5	18	36	1154	19116			
150	4	1	16	ON	2	74	38	47	36E	729495	756188	6	6	39	19	949	23959
	OFF	2	72	24	53	29E	728743	747896	6	6	48	8	1813	24888			
150	4	2	14	ON	2	51	31	72	46E	664188	688485	6	6	45	34	1136	24334
	OFF	2	49	8	73	48E	659964	684822	6	6	46	18	1148	24378			
150	4	3	77	ON	2	46	29	74	32E	655836	679739	6	6	46	58	1145	24418
	OFF	2	33	3	77	46E	644572	668858	6	6	58	12	12	1	24612		
151	8	1	14	ON	2	78	29	34	34E	713185	739252	6	8	18	33	1828	29433
	OFF	2	68	12	38	1E	785644	731425	6	8	11	11	1843	29471			
151	8	2	34	ON	2	52	23	49	46E	665484	689758	6	8	15	28	1134	29728
	OFF	2	46	31	51	52E	655653	679549	6	8	16	49	1144	29889			
152	8	1	184	ON	2	65	26	22	48E	682974	787899	6	9	43	16	1114	34996
	OFF	2	43	33	38	5E	651615	675358	6	9	47	34	1147	35254			
153	8	1	52	ON	3	25	16	17	24E	887359	837881	6	11	34	41	1244	41681
	OFF	3	35	59	19	16E	867259	899194	6	11	37	23	1254	41843			
156	7	1	62	ON	2	8	4	53	41W	697718	723198	6	15	58	28	1223	57588
	OFF	3	16	54	52	26W	739778	766849	6	16	1	4	1231	57664			
159	7	1	26	ON	2	76	27	146	35W	787591	733446	6	28	18	29	1824	72629
	OFF	2	66	8	148	48W	694485	719762	6	28	11	41	1848	72781			
159	7	2	15	ON	2	33	38	126	12W	644878	668368	6	28	19	58	1155	73198
	OFF	2	31	9	125	44W	644942	668434	6	28	28	35	1157	73235			
160	2	1	11	ON	3	17	14	142	16W	771852	888142	6	22	2	36	1233	79356
	OFF	3	19	27	141	58W	782787	811492	6	22	3	9	1235	79389			

OPERATIONS SUMMARY
AFT PAN CAMERA NUMBER 187

OPN NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM						
80	2	1	12	ON	3	23	3	123	25W	746793	774131	1	22	1	9	1327	79269	
	OFF	3	25	12	128	7E	756938	784661	1	22	1	41	1328	79381				
81	8	2	3	ON	2	61	15	168	37W	727582	754194	1	23	18	9	1155	83489	
	OFF	2	59	45	167	35W	721932	748329	1	23	18	33	1159	83433				
82	5	1	14	ON	2	76	48	148	57E	797827	827189	2	8	35	48	959	2148	
	OFF	2	74	27	149	27E	785861	813856	2	8	36	33	1833	2193				
82	5	2	40	ON	2	72	8	152	57E	763818	791796	2	8	37	58	1113	2278	
	OFF	2	52	11	157	59E	738283	756997	2	8	48	8	1151	2488				
84	5	1	54	ON	2	51	38	128	32E	692264	717332	2	3	42	54	1216	13374	
	OFF	2	42	5	131	36E	666767	691888	2	3	45	18	1231	13518				
85	6	1	32	ON	2	26	24	112	2E	643525	666964	2	5	19	18	1247	19158	
	OFF	2	21	8	112	48E	641736	665188	2	5	28	36	1251	19236				
85	6	2	14	ON	2	7	34	114	38E	651778	675526	2	5	23	59	13	19439	
	OFF	2	5	12	114	45E	655767	679666	2	5	24	35	13	3	19475			
87	4	1	83	ON	2	59	43	56	22E	716716	742916	2	8	11	5	1156	29465	
	OFF	2	45	16	62	41E	672585	697118	2	8	14	46	1225	29686				
88	2	2	17	ON	1	38	3	116	3W	1838652	1877218	2	9	21	22	136	33682	
	OFF	1	41	2	115	22W	1227347	1865472	2	9	22	8	148	33728				
88	2	1	21	ON	2	71	42	21	55E	768298	788142	2	9	38	13	11	5	34693



			OFF 2	67	19	26	55E	745467	772757	2	9	39	18	1126	34758
88	2	2	19 ON	2	58	3	34 43E	718819	735966	2	9	41	36	12	8 34896
			OFF 2	54	42	36	29E	698886	724329	2	9	42	28	12	8 34948
88	2	3	13 ON	2	49	32	38 38E	663237	788172	2	9	43	47	1218	35827
			OFF 2	47	6	39	27E	676646	781332	2	9	44	24	1222	35864
88	2	4	74 ON	2	16	31	45 24E	642762	666172	2	9	52	1	1253	35521
			OFF 2	3	11	46	58E	668398	684462	2	9	55	28	13	3 35728
98	3	1	54 ON	2	29	23	1 48W	644636	668117	2	12	48	59	1241	46139
			OFF 2	28	38	8	29W	641358	664715	2	12	51	9	1248	46269
91	8	1	35 ON	2	78	31	74 45W	888932	838332	2	14	5	48	9	6 58748
			OFF 2	73	24	51	49W	778292	798525	2	14	7	39	1848	58859
91	8	2	13 ON	2	67	35	41 26W	743996	771238	2	14	9	19	1123	58959
			OFF 2	65	15	38	48W	734425	761296	2	14	9	57	1134	58997
92	9	1	43 ON	3	4	15	42 53W	681185	785958	2	15	57	38	13	5 57458
			OFF 3	11	36	42	2W	785993	731785	2	15	59	28	1318	57568
95	2	1	28 ON	2	37	18	116 41W	654835	677869	2	28	17	24	1238	73844
			OFF 2	33	57	116	8W	649339	672997	2	28	18	14	1234	73894
97	4	1	22 ON	2	67	38	177 32W	739873	766951	2	23	9	46	1119	83386
			OFF 2	63	44	173	24W	724631	751131	2	23	18	49	1136	83449
95	5	1	36 ON	2	65	48	162 2E	731268	758811	3	8	48	22	1128	2422
			OFF 2	59	16	167	15E	788838	733921	3	8	42	3	1158	2523
100	5	1	62 ON	2	53	13	125 6E	657897	713887	3	3	43	45	12	3 13425
			OFF 2	41	42	128	55E	668387	684377	3	3	46	39	1222	13599
101	7	1	52 ON	3	18	59	114 58E	742884	769998	3	5	31	58	1318	19918
			OFF 3	24	35	116	14E	792119	819184	3	5	34	15	1319	28855
102	5	1	16 ON	2	74	49	54 42E	767577	795818	3	6	38	1	1816	23881
			OFF 2	72	32	67	51E	756651	784365	3	6	38	44	1842	23924
102	5	2	65 ON	2	38	38	84 28E	654217	678859	3	6	47	35	1224	24455
			OFF 2	27	12	86	28E	643897	666528	3	6	58	24	1236	24624
103	4	1	72 ON	2	47	3	59 23E	678465	694918	3	8	15	31	1212	29731
			OFF 2	35	6	62	24E	649387	672963	3	8	18	31	1227	29911
104	8	1	27 ON	2	37	22	39 15E	652862	675822	3	9	48	8	1224	35288
			OFF 2	33	3	48	7E	646911	678477	3	9	49	5	1229	35345
104	2	2	46 ON	2	14	38	43 22E	652575	676354	3	9	54	41	1248	35681
			OFF 2	3	12	44	13E	666729	691848	3	9	56	38	1253	35798
105	5	1	11 ON	2	32	58	17 28E	646693	678251	3	11	19	18	1228	48758
			OFF 2	31	5	17	48E	645895	668593	3	11	19	38	1238	48778
105	5	2	52 ON	2	23	33	17 1E	642476	665876	3	11	21	38	1237	48898
			OFF 2	14	14	20	15E	647915	671519	3	11	23	49	1244	41829
107	5	1	21 ON	2	75	46	62 1E	768238	796185	3	14	8	8	959	58888
			OFF 2	72	33	52	29W	752351	779983	3	14	9	2	1838	58942
105	5	1	51 ON	3	2	4	45 51W	682737	787651	3	15	58	2	1254	57482
			OFF 3	18	32	44	53W	711824	737837	3	16	8	9	13	8 57689
109	4	1	28 ON	2	11	44	73 6W	652337	676187	3	17	24	48	1244	62688
			OFF 2	8	16	69	41W	653184	682891	3	17	25	32	1246	62732
109	4	2	25 ON	3	15	19	66 58W	732878	758858	3	17	31	24	13	3 63884
			OFF 3	19	29	66	26W	758826	778317	3	17	32	27	13	6 63147
111	4	1	14 ON	2	38	8	119 33W	651844	675596	3	28	18	14	1219	73894
			OFF 2	35	35	119	2W	648921	672563	3	28	18	58	1222	73138
114	7	1	37 ON	2	58	36	155 48E	732548	757272	4	8	48	31	11	3 2431
			OFF 2	62	13	162	29E	787756	733617	4	8	42	14	1131	2534

SECRET

115	7	2	19	ON	3	6	41	155	59E	701888	727442	4	2	29	33	1253	8973	
				OFF	3	10	8	156	23E	714726	740849	4	2	30	25	1255	9025	
116	7	1	13	ON	2	53	4	122	28E	679598	704388	4	3	44	41	1154	13481	
				OFF	2	56	42	123	26E	673767	698344	4	3	45	17	1158	13517	
116	7	2	24	ON	3	1	16	132	42E	684411	709388	4	3	58	15	1248	14295	
				OFF	3	5	39	133	12E	698663	724178	4	3	59	21	1251	14361	
116	7	3	22	ON	3	10	34	133	46E	716974	743181	4	4	0	34	1255	14434	
				OFF	3	14	35	134	15E	733654	760494	4	4	1	34	1258	14494	
117	5	1	58	ON	2	43	35	103	4E	658688	682698	4	5	17	8	12	9	19028
				OFF	2	34	14	105	13E	646550	670103	4	5	19	28	1220	19168	
117	5	2	58	ON	2	26	36	106	33E	643110	666533	4	5	21	22	1227	19282	
				OFF	2	17	18	107	52E	647382	670966	4	5	23	40	1234	19428	
118	6	1	16	ON	2	74	43	52	19E	752816	780385	4	6	38	54	10	8	23934
				OFF	2	72	29	58	17E	742729	769915	4	6	39	36	1032	23976	
118	6	2	51	ON	2	41	54	82	51E	655527	679418	4	6	47	36	1210	24456	
				OFF	2	33	4	82	47E	645442	668953	4	6	49	48	1220	24588	
119	4	1	154	ON	2	69	44	40	48E	730616	757343	4	8	10	26	1053	29426	
				OFF	2	43	12	57	50E	657266	681222	4	8	17	19	12	8	29839
120	9	1	14	ON	2	45	31	34	31E	660919	685012	4	9	46	46	12	4	35206
				OFF	2	43	16	35	11E	656015	680754	4	9	47	21	12	7	35241
120	9	2	20	ON	2	11	35	40	35E	655425	679310	4	9	55	13	1237	35713	
				OFF	2	8	12	40	59E	661730	685853	4	9	56	4	1239	35764	
120	9	3	21	ON	2	5	39	41	16E	667326	691653	4	9	56	42	1241	35802	
				OFF	2	2	16	41	48E	676109	700774	4	9	57	34	1244	35854	
121	7	1	65	ON	2	14	32	17	33E	651151	674877	4	11	24	31	1234	41071	
				OFF	2	3	14	18	53E	673639	698211	4	11	27	20	1242	41240	
121	7	2	29	ON	3	13	29	20	47E	731937	758711	4	11	31	31	1254	41491	
				OFF	3	16	35	21	26E	754971	782619	4	11	32	48	1258	41560	
122	3	1	02	ON	2	25	34	6	35W	642910	666334	4	12	51	49	1225	46309	
				OFF	2	12	42	4	52W	654042	677876	4	12	55	1	1235	46501	
124	7	1	46	ON	3	14	59	47	00	740617	767721	4	16	1	59	1253	57719	
				OFF	3	23	35	45	51W	781921	810593	4	16	4	9	13	0	57849
125	2	1	14	ON	2	11	9	72	40W	657895	681874	4	17	25	38	1234	62730	
				OFF	2	6	15	72	19W	663602	687795	4	17	26	13	1236	62773	
125	2	2	33	ON	3	14	51	69	40W	740711	767817	4	17	32	0	1253	63120	
				OFF	3	20	29	60	57W	767193	795306	4	17	33	25	1257	63205	
127	4	P	15	ON	2	33	56	121	20W	645540	669063	4	20	19	54	1214	73194	
				OFF	2	31	26	120	52W	644298	667766	4	20	20	31	1216	73231	
130	2	1	35	ON	2	66	9	153	48E	717118	743333	5	0	41	14	1056	2474	
				OFF	2	62	15	159	50E	697922	723412	5	0	42	49	1122	2569	
133	2	1	15	ON	2	42	1	100	54E	652518	676295	5	5	18	2	12	1	19082
				OFF	2	39	38	101	29E	649716	673388	5	5	18	38	12	4	19118
133	2	2	58	ON	2	26	28	103	59E	644232	667697	5	5	21	55	1217	19315	
				OFF	2	17	13	105	17E	651237	674966	5	5	24	13	1225	19453	
134	4	1	15	ON	2	74	46	49	35E	739566	766633	5	6	39	23	957	23963	
				OFF	2	72	32	55	35E	730192	756903	5	6	40	5	1022	24005	
134	4	2	43	ON	2	65	44	66	2E	705976	731770	5	6	41	59	11	5	24119
				OFF	2	58	21	71	53E	684307	709365	5	6	43	56	1131	24236	
134	4	3	13	ON	2	52	10	74	56E	669641	694063	5	6	45	38	1145	24330	
				OFF	2	49	43	75	53E	664627	688860	5	6	46	7	1149	24367	
135	7	1	47	ON	2	42	27	55	20E	652539	676318	5	8	17	58	1159	29878	

		OFF	2	34	35	57	15E	645325	668832	5	8	19	56	12	8	29996		
136	9	1	48	ON	2	51	35	29	51E	667518	691861	5	9	45	41	1144	35141	
		OFF	2	43	45	32	27E	653994	677827	5	9	47	48	1157	35268			
136	9	2	35	ON	2	36	57	34	6E	646713	678272	5	9	49	22	12	5	35362
		OFF	2	31	7	35	14E	644828	667478	5	9	58	49	1211	35449			
136	9	3	58	ON	2	6	39	38	35E	671893	696399	5	9	56	54	1231	35814	
		OFF	3	1	36	39	31E	695918	721338	5	9	58	58	1236	35938			
137	8	1	23	ON	2	8	46	16	35E	688742	713883	5	11	28	22	1234	41382	
		OFF	3	3	39	17	5E	723518	729288	5	11	29	28	1237	41368			
137	8	2	52	ON	3	15	53	16	31E	754868	781673	5	11	32	32	1246	41552	
		OFF	3	25	29	19	58E	882398	831842	5	11	34	58	1254	41698			
137	8	3	28	ON	3	38	43	28	41E	831887	861636	5	11	36	17	1258	41777	
		OFF	3	34	26	21	22E	852488	883774	5	11	37	14	13	2	41834		
140	4	1	68	ON	2	8	46	51	22W	698278	715477	5	15	58	25	1232	57585	
		OFF	3	9	32	56	12W	728876	754784	5	16	1	8	1239	57668			
141	6	1	53	ON	3	9	4	72	55W	726769	753347	5	17	38	53	1239	63853	
		OFF	3	18	36	71	45W	769958	798176	5	17	33	17	1246	63197			
143	7	8	14	ON	2	33	45	123	58W	644523	668888	5	28	28	15	12	4	73215
		OFF	2	31	28	123	23W	644888	667548	5	28	28	51	12	7	73251		
144	1	2	12	ON	3	21	17	139	21W	785658	814473	5	22	3	59	1246	79439	
		OFF	3	23	31	139	2W	797314	826573	5	22	4	33	1248	79473			
146	2	1	51	ON	2	63	37	156	12E	692888	717349	6	8	42	41	11	7	2561
		OFF	2	55	18	161	43E	671881	695558	6	8	44	52	1131	2692			
149	6	1	19	ON	2	74	38	78	13E	726862	753445	6	5	9	34	958	18574	
		OFF	2	71	55	77	6E	716467	742679	6	5	18	24	1818	18624			
149	6	2	31	ON	2	58	25	95	47E	668837	684928	6	5	16	5	1139	18965	
		OFF	2	45	6	97	33E	652914	676786	6	5	17	25	1147	19845			
149	6	3	13	ON	2	41	49	95	27E	649245	672988	6	5	18	14	1151	19894	
		OFF	2	39	32	99	8E	647288	678869	6	5	18	48	1154	19128			
152	4	1	16	ON	2	74	49	46	58E	726865	753458	6	6	39	31	947	23971	
		OFF	2	72	35	53	8E	718281	744458	6	6	48	12	1812	24812			
152	4	2	14	ON	2	51	39	72	39E	662787	686869	6	6	45	46	1136	24346	
		OFF	2	49	16	73	33E	658638	682646	6	6	46	22	1140	24382			
152	4	3	73	ON	2	48	36	74	27E	65458E	678547	6	6	47	2	1144	24422	
		OFF	2	33	18	77	41E	644439	667912	6	6	58	24	12	8	24624		
151	8	1	15	ON	2	78	47	34	11E	718734	736788	6	8	18	45	1827	29445	
		OFF	2	68	23	37	43E	723291	728984	6	8	11	23	1842	29483			
151	8	2	34	ON	2	52	31	49	38E	663965	688174	6	8	15	32	1133	29732	
		OFF	2	45	39	51	47E	654518	678371	6	8	17	1	1143	29821			
152	8	1	174	ON	2	68	36	22	38E	631889	785868	6	9	43	28	1113	35888	
		OFF	2	43	48	38	8E	658783	674412	6	9	47	46	1147	35266			
153	8	1	53	ON	3	24	55	17	16E	811725	841534	6	11	34	53	1243	41693	
		OFF	3	35	32	19	6E	871967	964882	6	11	37	35	1253	41855			
156	7	1	61	ON	3	1	16	53	46W	788484	726868	6	15	58	32	1223	57512	
		OFF	3	18	38	52	32W	743358	778565	6	16	1	16	1238	57676			
159	7	1	15	ON	2	33	44	125	16W	644827	668315	6	28	28	18	1154	73218	
		OFF	2	31	15	125	49W	645188	668598	6	28	28	47	1157	73247			

PHOTOGRAPHIC SUMMARY

FND PAN CAMERA NO 156 2.2788 SLIT W/23A FILTER 3484 FILM

OFFICE
 100-100000

2-JUL-8

OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI
80 2 1	11	29.1	ON 268	39.3	165.5	11.88	12.38	11.78	11.18
			OFF 268	37.2	165.9	11.88	12.37	11.77	11.17
81 0 0	3	7.9	ON 238	52.0	18.5	11.75	12.42	11.82	11.22
			OFF 238	53.5	19.1	11.75	12.42	11.82	11.22
82 5 1	14	37.0	ON 238	34.6	15.2	11.75	12.35	11.75	11.15
			OFF 238	37.6	15.2	11.75	12.37	11.77	11.17
82 5 2	39	103.2	ON 238	42.7	15.7	11.75	12.40	11.80	11.20
			OFF 238	51.1	17.9	11.75	12.42	11.82	11.22
84 5 1	53	148.2	ON 293	61.5	22.9	12.05	12.42	11.82	11.22
			OFF 293	70.2	33.8	12.05	12.42	11.82	11.22
85 6 1	32	84.6	ON 293	79.5	85.6	12.05	12.42	11.82	11.22
			OFF 293	78.6	113.2	12.05	12.42	11.82	11.22
85 6 2	14	37.0	ON 293	69.0	149.6	12.05	12.42	11.82	11.22
			OFF 293	66.9	152.5	12.05	12.42	11.82	11.22
87 4 1	82	216.9	ON 260	53.5	17.7	11.88	12.42	11.82	11.22
			OFF 260	67.5	27.7	11.88	12.42	11.82	11.22
88 2 0	15	42.3	ON 260	-24.3	11.2	11.88	0.00	0.00	0.00
			OFF 260	-21.4	11.0	11.88	0.00	0.00	0.00
88 2 1	21	55.5	ON 260	41.9	14.4	11.88	12.40	11.80	11.20
			OFF 260	45.6	15.1	11.88	12.41	11.81	11.21
88 2 2	19	50.3	ON 260	55.2	18.1	11.88	12.42	11.82	11.22
			OFF 260	58.5	19.8	11.88	12.42	11.82	11.22
88 2 3	13	34.4	ON 260	63.5	23.2	11.88	12.42	11.82	11.22
			OFF 260	65.8	25.4	11.88	12.42	11.82	11.22
88 2 4	73	193.1	ON 260	76.5	131.0	11.88	12.42	11.82	11.22
			OFF 260	65.3	155.3	11.88	12.42	11.82	11.22
90 3 1	54	142.0	ON 293	79.4	67.6	12.05	12.42	11.82	11.22
			OFF 293	79.1	116.0	12.05	12.42	11.82	11.22
91 0 1	37	97.9	ON 238	31.3	13.9	11.75	12.31	11.71	11.11
			OFF 238	38.7	13.6	11.75	12.38	11.78	11.18
91 0 2	12	31.7	ON 238	45.3	14.4	11.75	12.41	11.81	11.21
			OFF 238	47.8	15.9	11.75	12.42	11.82	11.22
92 9 1	42	111.1	ON 288	58.6	161.6	12.02	12.42	11.82	11.22
			OFF 288	51.4	164.7	12.02	12.42	11.82	11.22
95 2 1	19	50.3	ON 300	74.7	36.8	12.08	12.42	11.82	11.22
			OFF 300	77.3	45.8	12.08	12.42	11.82	11.22
97 4 1	22	58.2	ON 265	45.1	13.2	11.90	12.41	11.81	11.21
			OFF 265	49.3	14.0	11.90	12.42	11.82	11.22
98 5 1	55	92.5	ON 265	47.2	13.4	11.90	12.42	11.82	11.22
			OFF 265	53.9	15.2	11.90	12.42	11.82	11.22
107 5 1	62	164.0	ON 265	63.0	17.2	11.90	12.42	11.82	11.22
			OFF 265	71.0	26.8	11.90	12.42	11.82	11.22
101 7 1	51	134.9	ON 265	44.6	168.3	11.90	12.41	11.81	11.21
			OFF 265	35.0	169.9	11.90	12.35	11.75	11.15
102 5 1	10	42.3	ON 288	36.6	11.6	12.02	12.36	11.76	11.16
			OFF 288	39.4	11.6	12.02	12.38	11.78	11.18
107 5 2	55	171.9	ON 268	73.9	30.8	12.02	12.42	11.82	11.22
			OFF 268	81.6	73.9	12.02	12.42	11.82	11.22
103 4 1	72	197.4	ON 300	66.0	20.1	12.08	12.42	11.82	11.22
			OFF 300	76.9	37.7	12.08	12.42	11.82	11.22

REPORT ONLY

104	8	1	26	68.8	ON	311	75.8	31.9	12.13	12.42	11.82	11.22
					OFF	311	78.5	43.3	12.13	12.42	11.82	11.22
104	8	2	45	119.8	ON	311	73.5	151.3	12.13	12.42	11.82	11.22
					OFF	311	66.7	159.9	12.13	12.42	11.82	11.22
105	5	1	11	29.1	ON	311	78.6	43.8	12.13	12.42	11.82	11.22
					OFF	311	88.8	58.4	12.13	12.42	11.82	11.22
105	5	2	58	153.4	ON	311	82.2	99.1	12.13	12.42	11.82	11.22
					OFF	311	76.8	144.8	12.13	12.42	11.82	11.22
107	5	1	28	52.9	ON	249	35.2	18.7	11.81	12.35	11.75	11.15
					OFF	249	39.3	18.7	11.81	12.38	11.78	11.18
108	5	1	58	132.3	ON	296	61.9	164.4	12.86	12.42	11.82	11.22
					OFF	296	53.5	167.7	12.86	12.42	11.82	11.22
109	4	1	28	52.9	ON	296	75.1	151.1	12.86	12.42	11.82	11.22
					OFF	296	71.9	156.4	12.86	12.42	11.82	11.22
109	4	2	24	63.5	ON	296	48.8	169.1	12.86	12.42	11.82	11.22
					OFF	296	44.6	169.9	12.86	12.41	11.81	11.21
111	4	1	13	34.4	ON	296	74.7	27.8	12.86	12.42	11.82	11.22
					OFF	296	76.8	31.7	12.86	12.42	11.82	11.22
114	7	1	36	95.2	ON	261	43.7	9.6	11.88	12.41	11.81	11.21
					OFF	261	58.5	18.6	11.88	12.42	11.82	11.22
115	7	2	18	47.6	ON	273	57.8	168.1	11.94	12.42	11.82	11.22
					OFF	273	54.3	169.1	11.94	12.42	11.82	11.22
116	7	1	13	34.4	ON	273	68.8	12.6	11.94	12.42	11.82	11.22
					OFF	273	62.4	13.6	11.94	12.42	11.82	11.22
116	7	2	23	68.5	ON	273	63.3	166.2	11.94	12.42	11.82	11.22
					OFF	273	58.9	169.8	11.94	12.42	11.82	11.22
116	7	3	21	55.5	ON	273	54.8	169.5	11.94	12.42	11.82	11.22
					OFF	273	49.9	178.4	11.94	12.42	11.82	11.22
117	5	1	50	153.4	ON	387	69.4	17.5	12.11	12.42	11.82	11.22
					OFF	387	78.2	31.8	12.11	12.42	11.82	11.22
117	5	2	58	153.4	ON	387	83.5	68.8	12.11	12.42	11.82	11.22
					OFF	387	88.7	139.6	12.11	12.42	11.82	11.22
118	6	1	16	42.3	ON	284	36.3	8.7	12.88	12.36	11.76	11.16
					OFF	284	39.1	8.6	12.88	12.38	11.78	11.18
118	6	2	50	132.3	ON	284	71.1	18.6	12.88	12.42	11.82	11.22
					OFF	284	79.3	33.5	12.88	12.42	11.82	11.22
119	4	1	154	487.3	ON	276	42.2	8.6	11.96	12.48	11.88	11.28
					OFF	276	69.6	17.8	11.96	12.42	11.82	11.22
120	9	1	14	37.8	ON	388	67.5	15.8	12.88	12.42	11.82	11.22
					OFF	388	69.8	16.6	12.88	12.42	11.82	11.22
120	9	2	19	58.3	ON	388	76.8	156.2	12.88	12.42	11.82	11.22
					OFF	388	72.8	168.7	12.88	12.42	11.82	11.22
120	9	3	22	52.9	ON	388	78.4	163.1	12.88	12.42	11.82	11.22
					OFF	388	66.9	165.6	12.88	12.42	11.82	11.22
121	7	1	65	171.9	ON	288	78.8	158.6	12.82	12.42	11.82	11.22
					OFF	288	68.1	165.3	12.82	12.42	11.82	11.22
121	7	2	29	76.7	ON	288	51.3	171.2	12.82	12.42	11.82	11.22
					OFF	288	46.2	172.1	12.82	12.42	11.82	11.22
122	3	1	82	211.6	ON	311	84.5	74.5	12.13	12.42	11.82	11.22
					OFF	311	77.2	155.2	12.13	12.42	11.82	11.22
124	7	1	40	121.7	ON	264	49.9	172.1	11.98	12.42	11.82	11.22

25 9 1	14 ON	2 35 53 31 31E	688661	785498	23 11 9 12 1315 48152
	OFF	2 33 32 31 58E	674228	698814	23 11 9 47 1317 48187
25 9 2	47 ON	3 18 12 37 41E	667822	692174	23 11 28 39 1351 48839
	OFF	3 18 7 38 48E	698793	716812	23 11 22 37 1357 48957
26 2 1	29 ON	3 3 49 14 16E	654723	678582	23 12 49 13 1346 46153
	OFF	3 8 41 14 49E	664528	688757	23 12 58 25 1349 46225
27 8 1	16 ON	2 69 55 32 52W	822477	852699	23 14 8 48 1149 58448
	OFF	2 66 58 28 49W	886798	836413	23 14 1 38 12 6 58498
29 8 1	78 ON	3 6 21 53 31W	668821	684918	23 17 28 19 1346 62419
	OFF	3 28 47 51 44W	782525	728186	23 17 23 54 1356 62634
38 5 1	77 ON	3 1 19 76 47W	652218	675975	23 18 49 15 1342 67755
	OFF	3 14 8 75 18W	681848	785891	23 18 52 26 1351 67946
32 7 8	14 ON	2 33 36 126 52W	672827	696538	23 21 48 53 1313 78853
	OFF	2 31 18 126 26W	666266	698568	23 21 41 29 1315 78889
34 5 1	38 ON	2 68 24 178 29E	887568	837213	24 8 32 12 1154 1932
	OFF	2 62 53 176 28E	788889	888612	24 8 33 42 1219 2822
35 5 1	44 ON	2 68 26 155 38E	767529	795657	24 2 4 38 1226 7478
	OFF	2 52 8 159 57E	731894	757838	24 2 6 41 1246 7681
36 7 1	69 ON	3 21 18 149 27E	788137	734818	24 3 55 6 1352 14188
	OFF	3 33 14 151 23E	768349	788282	24 3 58 7 14 3 14287
37 7 1	24 ON	2 5 3 123 38E	646141	669678	24 5 18 44 1333 19124
	OFF	2 8 48 124 7E	658844	674559	24 5 19 47 1336 19187
37 7 2	19 ON	3 6 46 124 58E	664686	688837	24 5 21 48 1341 19388
	OFF	3 18 8 125 22E	672884	697427	24 5 22 38 1343 19351
37 7 3	66 ON	3 13 18 125 43E	681428	786285	24 5 23 15 1346 19395
	OFF	3 24 38 127 15E	722377	748798	24 5 26 6 1355 19568
37 7 4	18 ON	3 29 34 128 2E	743888	771825	24 5 27 28 1359 19648
	OFF	3 32 41 128 35E	758356	786134	24 5 28 7 14 2 19687
38 3 1	14 ON	2 58 5 88 55E	754247	781869	24 6 35 35 1231 23735
	OFF	2 55 38 98 14E	743664	778885	24 6 36 13 1237 23773
38 3 2	53 ON	2 26 25 98 11E	654912	678779	24 6 43 35 1316 24215
	OFF	2 17 18 99 38E	644555	668832	24 6 45 53 1323 24355
38 3 3	51 ON	2 2 38 181 13E	648673	672385	24 6 49 29 1334 24568
	OFF	3 6 12 182 13E	663613	687887	24 6 51 48 1348 24781
39 6 1	13 ON	2 57 47 66 24E	752863	779682	24 8 5 48 1231 29148
	OFF	2 55 26 67 39E	742834	769193	24 8 6 24 1237 29184
39 6 2	13 ON	2 46 47 71 4E	788336	734219	24 8 8 38 1252 29318
	OFF	2 44 24 71 46E	788117	725689	24 8 9 14 1256 29354
39 6 3	32 ON	2 37 14 73 32E	678234	782979	24 8 11 2 13 5 29462
	OFF	2 31 24 74 48E	663984	688193	24 8 12 38 1311 29551
48 8 1	88 ON	2 55 58 44 45E	742873	778864	24 9 36 27 1235 34587
	OFF	2 41 53 49 45E	691328	716559	24 9 48 8 1259 34881
41 5 1	33 ON	2 46 57 25 37E	787584	733438	24 11 8 52 1251 48131
	OFF	2 41 1 27 17E	688842	713157	24 11 18 22 1259 48221
42 3 1	52 ON	2 21 29 8 18E	647281	678868	24 12 45 24 1318 45921
	OFF	2 13 6 9 15E	642876	666291	24 12 47 29 1324 46849
43 9 1	38 ON	2 78 27 36 58W	888984	838688	24 14 2 57 1135 58577
	OFF	2 65 31 38 17W	783956	812789	24 14 4 19 12 3 58659
43 9 2	28 ON	2 23 57 14 52W	649875	673552	24 14 14 55 1315 51295
	OFF	2 28 11 14 28W	645898	669418	24 14 15 51 1318 51355
44 4 1	35 ON	2 68 31 56 34W	797835	827117	24 15 33 38 1147 56818

			OFF 2 62	4	49	54W	766768	794859	24	15	35	23	1215	56123
47	2	1	28 ON 2 35	25	187	35W	669782	694126	24	20	12	37	13	2 72757
			OFF 2 32	1	186	56W	662893	686238	24	20	13	28	13	5 72888
50	4	1	55 ON 2 70	33	164	8E	882885	831445	25	8	33	53	1138	2833
			OFF 2 61	4	174	42E	756783	784419	25	8	36	29	1215	2189
58	4	2	18 ON 2 52	29	179	25E	721355	747738	25	8	38	42	1236	2322
			OFF 2 58	30	188	12E	713975	748871	25	8	39	12	1248	2352
53	3	1	51 ON 2 41	25	114	56E	682368	787261	25	5	11	54	1251	18714
			OFF 2 33	8	116	45E	661686	685888	25	5	14	1	13	1 18841
54	4	1	38 ON 2 57	29	86	14E	737862	764863	25	6	37	56	1222	23876
			OFF 2 51	7	89	13E	713198	739264	25	6	39	34	1236	23974
54	4	2	98 ON 2 45	24	91	18E	693719	719849	25	6	41	2	1245	24862
			OFF 2 28	32	94	51E	653247	677851	25	6	45	16	13	4 24316
55	4	1	11 ON 2 57	59	63	16E	739827	766872	25	8	7	56	1221	29276
			OFF 2 56	3	64	19E	731254	758885	25	8	8	26	1225	29386
55	4	2	85 ON 2 58	38	66	46E	718288	736237	25	8	9	52	1236	29392
			OFF 2 36	8	78	47E	667323	691658	25	8	13	32	1256	29612
56	5	1	62 ON 2 58	1	48	34E	738345	765364	25	9	38	3	1228	34683
			OFF 2 47	5	45	16E	697855	723342	25	9	48	51	1241	34851
57	4	1	31 ON 2 45	58	22	56E	693627	718953	25	11	11	16	1243	48276
			OFF 2 48	34	24	24E	677748	782475	25	11	12	38	1258	48358
59	2	1	24 ON 2 16	28	16	58W	642228	665689	25	14	18	52	1311	51532
			OFF 2 11	37	16	14W	643116	666539	25	14	28	4	1315	51684
64	2	1	28 ON 3 6	16	36	52W	678988	695468	25	15	54	37	1327	57277
			OFF 3 9	43	36	29W	688573	785486	25	15	55	28	1329	57328
61	8	1	56 ON 2 1	31	68	26W	654579	678433	25	17	22	49	1321	62569
			OFF 3 7	46	59	23W	675446	788885	25	17	25	7	1327	62787
63	9	1	38 ON 2 37	28	118	57W	667171	691588	25	28	14	9	1258	72849
			OFF 2 31	1	189	43W	654778	678632	25	28	15	44	1256	72944
66	6	1	37 ON 2 65	17	168	18E	768911	788787	26	8	37	18	1149	2238
			OFF 2 58	52	173	13E	733843	768692	26	8	39	8	1211	2348
68	6	1	47 ON 2 52	21	131	9E	788857	733929	26	3	48	54	1225	13254
			OFF 2 43	57	134	8E	681683	786559	26	3	43	2	1239	13382
69	4	1	65 ON 2 44	58	111	2E	683969	788932	26	5	12	53	1237	18773
			OFF 2 34	1	113	37E	658882	682868	26	5	15	38	1258	18938
69	4	2	26 ON 2 26	31	114	55E	647184	678768	26	5	17	38	1257	19858
			OFF 2 22	18	115	34E	643643	667887	26	5	18	35	13	8 19115
78	2	1	13 ON 2 57	59	83	2E	727235	753834	26	6	39	48	1211	23988
			OFF 2 55	32	84	21E	718825	744275	26	6	48	18	1217	24818
78	2	2	12 ON 2 41	49	89	13E	674986	699526	26	6	43	47	1248	24227
			OFF 2 39	29	89	47E	669172	693576	26	6	44	22	1243	24262
71	2	1	22 ON 2 78	3	48	38E	778398	886931	26	8	6	31	1121	29191
			OFF 2 66	5	53	56E	768881	787842	26	8	7	37	1143	29257
71	2	2	23 ON 2 63	29	56	27E	748785	776117	26	8	8	19	1154	29299
			OFF 2 59	5	59	41E	738758	757481	26	8	9	29	12	8 29369
72	5	1	17 ON 2 58	1	37	39E	725885	752432	26	9	39	52	1218	34792
			OFF 2 55	8	39	11E	715148	741288	26	9	48	37	1217	34837
72	5	2	85 ON 2 52	35	48	28E	786189	731988	26	9	41	16	1222	34876
			OFF 2 38	2	44	45E	664978	689225	26	9	44	56	1243	35896
73	2	1	31 ON 2 88	4	52	32W	848612	879835	26	11	2	37	732	39757
			OFF 2 78	2	22	43W	822129	852339	26	11	4	6	933	39846

73	2 2	31 ON	2 46 25	19 53E	685914	718958	26 11 12	56 1232	48376
		OFF	2 48 38	21 38E	678178	694611	26 11 14	26 1248	48466
74	9 1	34 ON	2 75 27	32 31W	883982	833499	26 12 35	18 1825	45318
		OFF	2 69 39	18 45W	773715	882878	26 12 36	56 1121	45416
75	2 1	25 ON	2 69 38	41 11W	771973	888278	26 14 7	5 1122	58825
		OFF	2 65 1	35 41W	751862	779394	26 14 8	19 1145	58899
79	6 1	19 ON	2 36 8	113 34W	658464	682465	26 28 16	7 1241	72967
		OFF	2 32 49	112 55W	652829	676618	26 28 16	57 1245	73817
88	2 1	6 ON	3 23 16	128 28W	742617	769796	26 22 8	58 1327	79258
		OFF	3 25 25	128 1W	752627	788186	26 22 1	38 1329	79298

OPERATIONS SUMMARY

AFT PAN CAMERA NUMBER 187										
OPN	NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H M S	LTIM S-TIM
PRE-FLT 185										
1	3 8	13 ON	2 51 39	148 16W	757251	784987	21 23 1	12 13 7	82872	
		OFF	2 49 18	147 28W	746241	773568	21 23 1	58 1312	82918	
2	3 1	36 ON	1 55 12	198 58E	789813	817958	22 8 26	46 13 9	1688	
		OFF	1 48 1	193 44E	753978	781598	22 8 28	36 1323	1716	
4	4 1	36 ON	2 72 2	125 11E	858255	889848	22 3 26	21 1146	1238	
		OFF	2 65 19	134 56E	828336	858476	22 3 28	14 1227	1249	
5	8 1	88 ON	3 16 2	131 32E	663669	687865	22 5 17	21 14 3	1984	
		OFF	3 25 36	133 35E	711886	737871	22 5 21	14 1415	1927	
6	4 1	131 ON	2 42 34	181 9E	712788	738747	22 6 34	28 1318	2366	
		OFF	2 17 8	185 42E	648917	672558	22 6 48	58 1343	2485	
8	6 1	14 ON	2 78 42	36 55E	842487	873392	22 9 27	29 1154	3484	
		OFF	2 68 13	48 45E	828368	858888	22 9 28	11 1211	3489	
8	6 2	68 ON	2 58 2	49 43E	776835	884486	22 9 38	54 1249	3425	
		OFF	2 46 32	54 36E	725243	751765	22 9 33	58 1312	3443	
9	3 8	15 ON	1 38 18	123 42W	1133376	1175651	22 18 48	41 225	3844	
		OFF	1 41 6	123 2W	1124893	1166884	22 18 41	27 229	3848	
9	3 1	31 ON	2 86 5	42 47W	921291	955388	22 18 53	38 8 2	3921	
		OFF	2 78 8	11 24W	898469	923299	22 18 55	11 18 9	3931	
9	3 2	12 ON	2 45 59	32 5E	721638	748815	22 11 4	9 1312	3984	
		OFF	2 43 32	32 48E	712214	738243	22 11 4	46 1315	3988	
18	3 1	39 ON	2 28 54	13 12E	666788	691819	22 12 38	36 1331	4551	
		OFF	2 21 18	14 22E	651891	675644	22 12 48	31 1337	4563	
11	4 1	32 ON	2 21 29	8 22W	651985	675742	22 14 18	37 1336	5183	
		OFF	2 15 18	7 32W	644812	668299	22 14 12	11 1341	5113	
13	8 1	43 ON	3 9 12	58 7W	663585	687695	22 17 18	35 1357	6231	
		OFF	3 17 35	49 6W	686422	711476	22 17 28	48 14 4	6244	
14	9 1	48 ON	3 25 8	78 45W	714149	748258	22 18 52	44 14 9	6796	
		OFF	3 34 38	69 9W	755385	783849	22 18 55	6 1418	6818	
16	9 2	13 ON	2 33 46	123 51W	676588	781272	22 21 38	27 1322	7798	
		OFF	2 31 17	123 23W	678161	694682	22 21 39	4 1325	7794	
19	8 1	33 ON	2 68 7	151 13E	815512	845469	23 2 8	8 12 4	728	
		OFF	2 62 7	157 18E	784822	813688	23 2 1	45 1238	738	
28	3 2	13 ON	3 3 48	158 22E	654928	678795	23 3 48	27 1349	1378	
		OFF	3 6 14	158 38E	659583	683542	23 3 49	3 1351	1374	
28	3 3	14 ON	3 24 6	152 54E	713651	739734	23 3 53	31 14 4	1481	

			OFF 3	26	37	153	17E	723993	758467	23	3	54	9	14	7	14849
22	5	1	61 ON	2	43	4	97 51E	782182	727748	23	6	37	9	13	8	23829
			OFF 2	32	39	108	18E	678891	695368	23	6	39	45	1328		23985
24	5	1	15 ON	2	78	54	33 26E	825324	855655	23	9	38	12	1143		34212
			OFF 2	68	27	37	17E	812831	841854	23	9	38	54	1159		34254
24	5	2	186 ON	2	57	49	46 42E	759917	787755	23	9	33	43	1248		34423
			OFF 2	39	13	53	25E	688211	713333	23	9	38	26	1311		34786
25	9	1	14 ON	2	36	2	31 25E	678348	783898	23	11	9	24	1314		48164
			OFF 2	33	41	31	53E	672892	696686	23	11	9	59	1317		48199
25	9	2	48 ON	3	18	4	37 36E	669895	694325	23	11	28	51	1351		48851
			OFF 3	17	57	38	35E	693575	718899	23	11	22	49	1356		48969
26	2	1	29 ON	3	3	42	14 11E	656196	688111	23	12	49	25	1346		46165
			OFF 3	8	32	14	44E	666473	698774	23	12	58	37	1349		46237
27	8	1	16 ON	2	78	14	33 29W	818549	848621	23	14	8	52	1146		58452
			OFF 2	67	17	29	17W	882923	832398	23	14	1	42	12	4	58582
29	8	1	78 ON	3	6	13	53 36W	662582	686737	23	17	28	31	1345		62431
			OFF 3	28	35	51	58W	785572	731349	23	17	24	6	1356		62646
38	5	1	78 ON	3	1	12	76 51W	653491	677384	23	18	49	27	1341		67767
			OFF 3	13	58	75	23W	683536	788488	23	18	52	38	1358		67958
32	7	8	14 ON	2	33	44	126 58W	678889	694444	23	21	41	5	1313		78865
			OFF 2	31	19	126	31W	664447	688673	23	21	41	41	1315		78181
34	5	1	31 ON	2	68	43	169 58E	883744	833251	24	8	32	24	1152		1944
			OFF 2	63	11	176	1E	776341	884884	24	8	33	54	1217		2834
35	5	1	45 ON	2	68	42	155 14E	763956	791948	24	2	4	42	1225		7482
			OFF 2	52	13	159	48E	727892	754515	24	2	6	53	1245		7613
36	7	1	78 ON	3	28	58	149 22E	711292	737285	24	3	55	18	1352		14118
			OFF 3	32	57	151	16E	764319	792323	24	3	58	19	14	3	14299
37	7	1	24 ON	2	5	18	123 34E	646887	678452	24	5	18	56	1333		19136
			OFF 2	8	55	124	3E	652814	675771	24	5	19	59	1335		19199
37	7	2	19 ON	3	6	37	124 54E	666514	698817	24	5	21	52	1341		19312
			OFF 3	9	59	125	17E	675189	699736	24	5	22	42	1343		19362
37	7	3	67 ON	3	13	8	125 39E	683918	788877	24	5	23	27	1345		19487
			OFF 3	24	25	127	9E	725883	752345	24	5	26	18	1354		19578
37	7	4	18 ON	3	29	19	127 56E	747561	774928	24	5	27	32	1359		19652
			OFF 3	32	24	128	28E	762385	798232	24	5	28	19	14	2	19699
38	3	1	15 ON	2	58	28	88 42E	758888	778292	24	6	35	47	1238		23747
			OFF 2	55	52	98	3E	748323	767417	24	6	36	25	1236		23785
38	3	2	53 ON	2	26	33	98 7E	653598	677416	24	6	43	47	1316		24227
			OFF 2	17	17	99	25E	644189	667578	24	6	46	5	1323		24365
38	3	3	51 ON	2	2	45	181 9E	649676	673345	24	6	49	41	1334		24581
			OFF 3	6	4	182	8E	665482	689746	24	6	51	52	1348		24712
39	6	1	14 ON	2	58	2	66 11E	748648	776858	24	8	6	8	1238		29168
			OFF 2	55	41	67	27E	738716	765749	24	8	6	36	1236		29196
39	6	2	14 ON	2	46	58	78 56E	785482	731256	24	8	8	58	1252		29338
			OFF 2	44	35	71	39E	697412	722882	24	8	9	26	1255		29366
39	6	3	34 ON	2	37	23	73 26E	676835	788698	24	8	11	14	13	4	29474
			OFF 2	31	32	74	35E	662254	686397	24	8	12	42	1318		29562
48	8	1	88 ON	2	56	5	44 34E	739547	766612	24	9	36	39	1234		34599
			OFF 2	42	4	49	39E	688798	713942	24	9	48	12	1258		34812
41	5	1	33 ON	2	47	9	25 38E	784746	738493	24	11	9	4	1258		48144
			OFF 2	41	11	27	11E	685595	718618	24	11	18	34	1259		48234

42	3	1	52	ON	2	21	36	8	5E	646483	678833	24	12	45	36	1317	45936	
				OFF	2	13	12	9	11E	642894	666388	24	12	47	41	1324	46861	
43	9	1	31	ON	2	78	45	37	27W	885131	834691	24	14	3	9	1133	58589	
				OFF	2	65	49	38	48W	788386	888928	24	14	4	31	12	1	58671
43	9	2	21	ON	2	24	4	14	56W	648865	672584	24	14	15	7	1315	51387	
				OFF	2	28	18	14	24W	645233	668735	24	14	16	3	1318	51363	
44	4	1	36	ON	2	68	49	57	3W	794116	823255	24	15	33	58	1145	56838	
				OFF	2	62	21	58	11W	763233	791197	24	15	35	35	1214	56135	
47	2	1	21	ON	2	35	34	187	48W	667767	692118	24	28	12	49	13	1	72769
				OFF	2	32	8	187	1W	668436	684511	24	28	13	48	13	5	72828
50	4	1	55	ON	2	78	51	163	32E	798382	827682	25	8	34	5	1128	2845	
				OFF	2	61	28	174	27E	753286	788872	25	8	36	41	1214	2281	
52	4	2	18	ON	2	52	41	179	16E	718338	744591	25	8	38	54	1235	2334	
				OFF	2	58	42	179	55W	711858	737844	25	8	39	24	1239	2364	
53	3	1	51	ON	2	41	35	114	58E	688865	784888	25	5	12	6	1251	18726	
				OFF	2	33	8	116	48E	668841	684181	25	5	14	13	13	8	18853
54	4	1	38	ON	2	57	43	86	2E	734644	761523	25	6	38	8	1222	23888	
				OFF	2	51	19	89	5E	718383	736268	25	6	39	46	1235	23986	
54	4	2	99	ON	2	45	34	91	3E	691178	716484	25	6	41	14	1245	24874	
				OFF	2	28	39	94	46E	652888	675758	25	6	45	28	13	4	24328
55	4	1	11	ON	2	58	13	63	4E	735799	762722	25	8	8	8	1228	29288	
				OFF	2	56	17	64	8E	728115	754747	25	8	8	38	1225	29318	
55	4	2	86	ON	2	58	42	66	38E	787432	733281	25	8	18	4	1236	29484	
				OFF	2	36	8	78	42E	665467	689732	25	8	13	44	1256	29624	
56	5	1	63	ON	2	58	15	48	21E	735138	762827	25	9	38	15	1219	34695	
				OFF	2	47	16	45	9E	695227	728615	25	9	41	3	1241	34863	
57	4	1	31	ON	2	46	9	22	49E	691883	716314	25	11	11	28	1242	48288	
				OFF	2	48	43	24	18E	675576	788222	25	11	12	58	1249	48378	
59	2	1	24	ON	2	16	34	16	54W	642176	665564	25	14	19	4	1311	51544	
				OFF	2	11	43	16	18W	643548	666987	25	14	28	16	1314	51616	
60	2	1	21	ON	3	6	8	36	57W	673168	697722	25	15	54	49	1326	57289	
				OFF	3	9	34	36	33W	683865	787991	25	15	55	48	1329	57348	
61	8	1	56	ON	2	1	38	68	31W	656833	679942	25	17	23	1	1328	62581	
				OFF	3	7	37	59	28W	677774	782581	25	17	25	19	1327	62719	
63	9	1	38	ON	2	37	28	111	2W	665339	689599	25	28	14	21	1249	72861	
				OFF	2	31	8	189	48W	653453	677266	25	28	15	56	1256	72956	
66	6	1	38	ON	2	65	32	167	58E	757543	785291	26	8	37	38	1148	2258	
				OFF	2	59	6	173	1E	738727	757457	26	8	39	12	1211	2352	
68	6	1	47	ON	2	52	33	131	1E	785292	731868	26	3	41	6	1224	13266	
				OFF	2	44	7	133	54E	679448	784231	26	3	43	14	1238	13394	
69	4	1	67	ON	2	45	7	118	56E	681672	786548	26	5	13	5	1236	18785	
				OFF	2	34	8	113	32E	656684	688535	26	5	15	58	1249	18958	
69	4	2	26	ON	2	26	37	114	51E	646352	669897	26	5	17	42	1256	19862	
				OFF	2	22	16	115	38E	643211	666638	26	5	18	47	13	8	19127
70	2	1	14	ON	2	58	12	82	58E	724288	758691	26	6	39	52	1211	23992	
				OFF	2	55	44	84	11E	715117	741256	26	6	48	38	1217	24838	
70	2	2	13	ON	2	41	58	89	7E	672841	697383	26	6	43	59	1248	24239	
				OFF	2	39	38	89	41E	667277	691618	26	6	44	34	1243	24274	
71	2	1	22	CN	2	78	19	48	7E	774926	883336	26	8	6	43	1119	29283	
				OFF	2	66	28	53	35E	756659	784373	26	8	7	49	1141	29269	
71	2	2	24	ON	2	63	43	56	18E	745456	772745	26	8	8	31	1153	29311	

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		OFF 2 59 18	59 29E	727683	754298	26 8 9 41 12 7	29381
72 5 1	17 ON 2 58 14	37 27E	722879	749312	26 9 40 4 12 9	34804	
	OFF 2 55 21	39 1E	712276	738388	26 9 40 49 1216	34849	
72 5 2	86 ON 2 52 46	40 12E	703383	729879	26 9 41 28 1222	34888	
	OFF 2 38 10	44 40E	663223	687403	26 9 45 8 1243	35108	
73 2 1	32 ON 2 80 5	55 1W	844952	876835	26 11 2 49 722	39769	
	OFF 2 78 14	24 18W	818506	848577	26 11 4 18 926	39858	
73 2 2	32 ON 2 46 35	19 46E	683575	708522	26 11 13 8 1232	40388	
	OFF 2 40 38	21 24E	668242	692611	26 11 14 38 1240	40478	
74 9 1	35 ON 2 75 43	33 33W	800416	829796	26 12 35 22 1020	45322	
	OFF 2 69 55	19 14W	770292	798525	26 12 37 8 1119	45428	
75 2 1	25 ON 2 69 45	41 40W	768567	796734	26 14 7 17 1120	50837	
	OFF 2 65 16	36 0W	748602	776011	26 14 8 31 1144	50911	
79 6 1	20 ON 2 36 15	113 39W	656966	680911	26 20 16 19 1241	72979	
	OFF 2 32 56	113 0W	651603	675346	26 20 17 9 1244	73029	
80 2 1	7 ON 3 23 0	128 27W	746378	773700	26 22 1 10 1327	79278	
	OFF 3 25 9	128 8W	756526	784233	26 22 1 42 1328	79302	

PHOTOGRAPHIC SUMMARY

FWD PAN CAMERA NO 186 0.2000 SLIT W/23 FILTER 3404 FILM

OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI
PRE-FLT	102	269.8							
1 3 0	12	31.7	ON 274	59.2	47.4	11.95	12.42	11.82	11.22
			OFF 277	60.9	50.7	11.97	12.42	11.82	11.22
2 3 1	36	95.2	ON 240	56.0	47.0	11.76	12.42	11.82	11.22
			OFF 252	60.7	56.3	11.83	12.42	11.82	11.22
4 4 1	36	95.2	ON 225	41.8	30.8	11.67	12.40	11.80	11.20
			OFF 235	48.2	34.2	11.73	12.42	11.82	11.22
5 8 1	80	211.6	ON 253	45.0	148.8	11.84	12.41	11.81	11.21
			OFF 253	31.0	154.6	11.84	12.31	11.71	11.11
6 4 1	131	346.5	ON 253	65.1	60.2	11.84	12.42	11.82	11.22
			OFF 253	65.2	119.9	11.84	12.42	11.82	11.22
8 6 1	14	37.0	ON 253	43.1	30.5	11.84	12.40	11.80	11.20
			OFF 253	45.5	31.7	11.84	12.41	11.81	11.21
8 6 2	60	158.7	ON 253	54.6	38.8	11.84	12.42	11.82	11.22
			OFF 253	63.0	52.7	11.84	12.42	11.82	11.22
9 3 0	15	39.7	ON 253	-18.9	22.4	11.84	0.00	0.00	0.00
			OFF 253	-16.1	22.1	11.84	0.00	0.00	0.00
9 3 1	31	82.0	ON 253	28.6	28.0	11.84	12.28	11.68	11.08
			OFF 253	34.2	28.3	11.84	12.34	11.74	11.14
9 3 2	12	31.7	ON 253	63.4	53.3	11.84	12.42	11.82	11.22
			OFF 253	64.9	57.6	11.84	12.42	11.82	11.22
10 3 1	39	103.2	ON 253	69.1	91.8	11.84	12.42	11.82	11.22
			OFF 253	67.6	111.3	11.84	12.42	11.82	11.22
11 4 1	32	84.6	ON 253	67.8	110.6	11.84	12.42	11.82	11.22
			OFF 253	64.9	123.6	11.84	12.42	11.82	11.22
13 8 1	42	111.1	ON 253	46.6	149.5	11.84	12.42	11.82	11.22
			OFF 253	39.1	153.3	11.84	12.38	11.78	11.18
14 9 1	48	127.0	ON 253	32.2	155.8	11.84	12.32	11.72	11.12
			OFF 253	23.3	157.7	11.84	12.17	11.57	10.97

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16	9	8	13	34.4	ON	277	69.5	77.6	11.97	12.42	11.82	11.22
					OFF	277	69.9	84.3	11.97	12.42	11.82	11.22
19	8	1	33	87.3	ON	253	45.6	29.5	11.84	12.41	11.81	11.21
					OFF	253	51.3	32.9	11.84	12.42	11.82	11.22
28	3	2	12	31.7	ON	277	52.8	147.2	11.97	12.42	11.82	11.22
					OFF	277	49.9	148.8	11.97	12.42	11.82	11.22
28	3	3	13	34.4	ON	277	33.6	156.3	11.97	12.34	11.74	11.14
					OFF	277	31.2	157.8	11.97	12.31	11.71	11.11
22	5	1	68	158.7	ON	289	66.1	54.5	12.83	12.42	11.82	11.22
					OFF	289	78.4	79.2	12.83	12.42	11.82	11.22
24	5	1	15	39.7	ON	277	42.8	27.3	11.97	12.48	11.88	11.28
					OFF	277	45.3	28.3	11.97	12.41	11.81	11.21
24	5	2	186	288.4	ON	277	55.1	35.8	11.97	12.42	11.82	11.22
					OFF	277	68.4	61.9	11.97	12.42	11.82	11.22
25	9	1	14	37.8	ON	381	69.8	69.3	12.88	12.42	11.82	11.22
					OFF	381	78.5	75.6	12.88	12.42	11.82	11.22
25	9	2	47	124.3	ON	381	47.8	151.8	12.88	12.42	11.82	11.22
					OFF	381	39.8	155.2	12.88	12.39	11.79	11.19
26	2	1	29	76.7	ON	381	52.7	148.1	12.88	12.42	11.82	11.22
					OFF	381	48.4	151.1	12.88	12.42	11.82	11.22
27	8	1	16	42.3	ON	241	43.5	26.9	11.76	12.41	11.81	11.21
					OFF	241	46.4	28.2	11.76	12.42	11.82	11.22
29	8	1	78	185.1	ON	241	58.8	158.3	11.76	12.42	11.82	11.22
					OFF	241	37.6	156.6	11.76	12.37	11.77	11.17
38	5	1	77	283.7	ON	388	55.3	146.9	12.88	12.42	11.82	11.22
					OFF	388	43.9	154.4	12.88	12.41	11.81	11.21
32	7	8	14	37.8	ON	388	71.3	73.6	12.88	12.42	11.82	11.22
					OFF	388	71.9	88.9	12.88	12.42	11.82	11.22
34	5	1	38	79.3	ON	253	45.8	26.1	11.84	12.41	11.81	11.21
					OFF	253	58.4	28.8	11.84	12.42	11.82	11.22
35	5	1	44	116.4	ON	253	52.7	38.1	11.84	12.42	11.82	11.22
					OFF	253	68.2	37.4	11.84	12.42	11.82	11.22
36	7	1	69	182.5	ON	289	37.8	157.8	12.83	12.37	11.77	11.17
					OFF	289	26.4	168.5	12.83	12.24	11.64	11.84
37	7	1	24	63.5	ON	289	61.3	142.8	12.83	12.42	11.82	11.22
					OFF	289	57.8	146.3	12.83	12.42	11.82	11.22
37	7	2	19	58.3	ON	289	51.2	151.9	12.83	12.42	11.82	11.22
					OFF	289	48.2	153.7	12.83	12.42	11.82	11.22
37	7	3	66	174.6	ON	289	45.4	155.1	12.83	12.41	11.81	11.21
					OFF	289	34.6	158.9	12.83	12.35	11.75	11.15
37	7	4	18	47.6	ON	289	29.9	168.8	12.83	12.29	11.69	11.89
					OFF	289	26.9	168.6	12.83	12.25	11.65	11.85
38	3	1	14	37.8	ON	289	54.9	31.8	12.83	12.42	11.82	11.22
					OFF	289	57.1	33.8	12.83	12.42	11.82	11.22
38	3	2	53	148.2	ON	289	72.9	95.1	12.83	12.42	11.82	11.22
					OFF	289	69.8	121.8	12.83	12.42	11.82	11.22
38	3	3	51	134.9	ON	289	59.5	144.8	12.83	12.42	11.82	11.22
					OFF	289	51.8	151.7	12.83	12.42	11.82	11.22
39	6	1	13	34.4	ON	289	55.2	31.8	12.83	12.42	11.82	11.22
					OFF	299	57.3	32.9	12.83	12.42	11.82	11.22
39	6	2	13	34.4	ON	289	64.5	42.7	12.83	12.42	11.82	11.22

				OFF 289	66.2	46.4	12.83	12.42	11.82	11.22	
39	6	3	32	84.6	ON 289	78.6	61.5	12.83	12.42	11.82	11.22
				OFF 289	72.7	78.4	12.83	12.42	11.82	11.22	
40	8	1	80	211.6	ON 278	57.8	32.3	11.97	12.42	11.82	11.22
				OFF 278	68.8	58.7	11.97	12.42	11.82	11.22	
41	5	1	33	87.3	ON 278	64.5	41.8	11.97	12.42	11.82	11.22
				OFF 278	68.7	52.1	11.97	12.42	11.82	11.22	
42	3	1	52	137.5	ON 313	72.3	118.5	12.14	12.42	11.82	11.22
				OFF 313	67.9	131.8	12.14	12.42	11.82	11.22	
43	9	1	38	79.3	ON 278	42.8	23.5	11.97	12.48	11.88	11.28
				OFF 278	47.9	25.5	11.97	12.42	11.82	11.22	
43	9	2	28	52.9	ON 278	73.2	182.8	11.97	12.42	11.82	11.22
				OFF 278	72.8	114.4	11.97	12.42	11.82	11.22	
44	4	1	35	92.6	ON 254	44.8	24.8	11.84	12.41	11.81	11.21
				OFF 254	51.3	27.8	11.84	12.42	11.82	11.22	
47	2	1	28	52.9	ON 382	72.3	63.7	12.89	12.42	11.82	11.22
				OFF 382	73.5	74.3	12.89	12.42	11.82	11.22	
50	4	1	55	145.5	ON 266	42.6	22.1	11.91	12.48	11.88	11.28
				OFF 266	52.3	26.2	11.91	12.42	11.82	11.22	
50	4	2	18	26.5	ON 266	68.2	32.6	11.91	12.42	11.82	11.22
				OFF 266	61.9	34.6	11.91	12.42	11.82	11.22	
53	3	1	51	134.9	ON 382	69.2	47.8	12.89	12.42	11.82	11.22
				OFF 382	73.9	69.1	12.89	12.42	11.82	11.22	
54	4	1	38	188.5	ON 298	55.7	27.4	12.83	12.42	11.82	11.22
				OFF 298	61.5	32.8	12.83	12.42	11.82	11.22	
54	4	2	98	259.2	ON 298	66.3	39.8	12.83	12.42	11.82	11.22
				OFF 298	75.1	84.8	12.83	12.42	11.82	11.22	
55	4	1	11	29.1	ON 287	55.2	26.8	12.82	12.42	11.82	11.22
				OFF 287	57.1	28.2	12.82	12.42	11.82	11.22	
55	4	2	85	224.8	ON 287	62.1	33.1	12.82	12.42	11.82	11.22
				OFF 287	72.7	59.2	12.82	12.42	11.82	11.22	
56	5	1	62	164.8	ON 276	55.2	26.6	11.96	12.42	11.82	11.22
				OFF 276	65.8	36.8	11.96	12.42	11.82	11.22	
57	4	1	31	82.8	ON 287	66.8	38.8	12.82	12.42	11.82	11.22
				OFF 287	78.1	47.3	12.82	12.42	11.82	11.22	
59	2	1	24	63.5	ON 252	72.3	126.2	11.83	12.42	11.82	11.22
				OFF 252	69.8	136.8	11.83	12.42	11.82	11.22	
60	2	1	28	52.9	ON 299	53.8	155.7	12.88	12.42	11.82	11.22
				OFF 299	58.6	157.5	12.88	12.42	11.82	11.22	
61	8	1	56	148.1	ON 299	61.8	158.3	12.88	12.42	11.82	11.22
				OFF 299	52.5	156.7	12.88	12.42	11.82	11.22	
63	9	1	38	188.5	ON 299	72.7	52.4	12.88	12.42	11.82	11.22
				OFF 299	75.7	72.7	12.88	12.42	11.82	11.22	
66	6	1	37	97.9	ON 276	48.8	28.6	11.96	12.42	11.82	11.22
				OFF 276	54.5	23.5	11.96	12.42	11.82	11.22	
68	6	1	47	124.3	ON 276	68.7	27.5	11.96	12.42	11.82	11.22
				OFF 276	68.1	37.1	11.96	12.42	11.82	11.22	
69	4	1	65	171.9	ON 299	67.3	35.2	12.88	12.42	11.82	11.22
				OFF 299	75.1	59.6	12.88	12.42	11.82	11.22	
69	4	2	26	68.8	ON 299	77.2	89.9	12.88	12.42	11.82	11.22
				OFF 299	76.5	188.7	12.88	12.42	11.82	11.22	

78	2	1	13	34.4	ON 276	55.4	23.8	11.96	12.42	11.82	11.22
					OFF 276	57.7	24.5	11.96	12.42	11.82	11.22
78	2	2	12	31.7	ON 276	69.9	39.8	11.96	12.42	11.82	11.22
					OFF 276	71.7	44.4	11.96	12.42	11.82	11.22
71	2	1	22	58.2	ON 252	42.9	18.1	11.83	12.48	11.88	11.28
					OFF 252	47.2	19.2	11.83	12.42	11.82	11.22
71	2	2	23	68.8	ON 252	49.9	28.2	11.83	12.42	11.82	11.22
					OFF 252	54.3	22.2	11.83	12.42	11.82	11.22
72	5	1	17	45.8	ON 287	55.3	22.5	12.82	12.42	11.82	11.22
					OFF 287	58.1	24.3	12.82	12.42	11.82	11.22
72	5	2	85	224.8	ON 287	68.5	26.1	12.82	12.42	11.82	11.22
					OFF 287	72.9	46.9	12.82	12.42	11.82	11.22
73	2	1	31	82.8	ON 264	26.8	17.4	11.98	12.25	11.65	11.85
					OFF 264	32.6	17.1	11.98	12.33	11.73	11.13
73	2	2	31	82.8	ON 264	66.2	31.9	11.98	12.42	11.82	11.22
					OFF 264	71.1	41.1	11.98	12.42	11.82	11.22
74	9	1	34	89.9	ON 239	36.4	16.8	11.76	12.36	11.76	11.16
					OFF 239	43.3	17.6	11.76	12.41	11.81	11.21
75	2	1	25	66.1	ON 252	43.5	17.5	11.83	12.41	11.81	11.21
					OFF 252	48.2	18.7	11.83	12.42	11.82	11.22
79	6	1	19	58.3	ON 299	74.7	48.7	12.88	12.42	11.82	11.22
					OFF 299	76.7	59.4	12.88	12.42	11.82	11.22
88	2	1	11	29.1	ON 276	39.8	165.4	11.96	12.38	11.78	11.18
					OFF 276	36.9	165.8	11.96	12.37	11.77	11.17

PHOTOGRAPHIC SUMMARY

AFT PAN	CAMERA NO	187	0.158μ	SLIT W/21	FILTER	3484	FILM				
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI		
PRE-FLT	185	277.7									
1	3	8	13	34.4	ON 368	59.8	46.6	12.37	12.75	12.15	11.55
					OFF 372	68.7	49.9	12.39	12.75	12.15	11.55
2	3	1	36	95.2	ON 322	55.8	46.8	12.18	12.75	12.15	11.55
					OFF 338	68.5	55.5	12.25	12.75	12.15	11.55
4	4	1	36	95.2	ON 383	41.4	28.3	12.89	12.73	12.13	11.53
					OFF 315	47.9	32.8	12.15	12.75	12.15	11.55
5	8	1	88	211.6	ON 348	45.2	148.8	12.26	12.74	12.14	11.54
					OFF 348	31.2	154.7	12.26	12.64	12.84	11.44
6	4	1	131	346.5	ON 348	65.1	59.5	12.26	12.75	12.15	11.55
					OFF 348	65.3	119.6	12.26	12.75	12.15	11.55
8	6	1	14	37.8	ON 348	42.7	28.4	12.26	12.73	12.13	11.53
					OFF 348	45.2	38.8	12.26	12.74	12.14	11.54
8	6	2	68	158.7	ON 348	54.3	37.8	12.26	12.75	12.15	11.55
					OFF 348	62.9	51.9	12.26	12.75	12.15	11.55
9	3	8	15	39.7	ON 348	-19.7	22.2	12.26	8.88	8.88	8.88
					OFF 348	-16.9	21.8	12.26	8.88	8.88	8.88
9	3	1	31	82.8	ON 348	28.1	28.1	12.26	12.68	12.88	11.48
					OFF 348	33.8	23.8	12.26	12.67	12.87	11.47
9	3	2	12	31.7	ON 348	63.3	52.6	12.26	12.75	12.15	11.55
					OFF 348	64.8	56.8	12.26	12.75	12.15	11.55
18	3	1	39	183.2	ON 348	69.2	91.3	12.26	12.75	12.15	11.55

					OFF 348	67.7	118.9	12.26	12.75	12.15	11.55
11	4	1	32	84.6	ON 348	67.9	118.2	12.26	12.75	12.15	11.55
					OFF 348	65.8	123.4	12.26	12.75	12.15	11.55
13	8	1	43	113.7	ON 343	46.7	149.5	12.27	12.75	12.15	11.55
					OFF 343	39.2	153.3	12.27	12.71	12.11	11.51
14	9	1	48	127.0	ON 343	32.4	155.9	12.27	12.65	12.05	11.45
					OFF 343	23.6	157.9	12.27	12.50	11.90	11.30
16	9	8	13	34.4	ON 375	69.5	77.0	12.48	12.75	12.15	11.55
					OFF 375	69.9	83.7	12.48	12.75	12.15	11.55
19	8	1	33	87.3	ON 343	45.3	27.0	12.27	12.74	12.14	11.54
					OFF 343	51.8	31.8	12.27	12.75	12.15	11.55
20	3	2	13	34.4	ON 375	52.1	147.2	12.48	12.75	12.15	11.55
					OFF 375	50.0	148.8	12.48	12.75	12.15	11.55
20	3	3	14	37.0	ON 375	33.8	156.4	12.48	12.67	12.07	11.47
					OFF 375	31.5	157.1	12.48	12.64	12.04	11.44
22	5	1	61	161.3	ON 391	66.0	53.8	12.46	12.75	12.15	11.55
					OFF 391	70.4	78.6	12.46	12.75	12.15	11.55
24	5	1	15	39.7	ON 375	42.5	25.2	12.48	12.73	12.13	11.53
					OFF 375	45.0	26.6	12.48	12.74	12.14	11.54
24	5	2	106	288.4	ON 375	54.9	34.1	12.48	12.75	12.15	11.55
					OFF 375	68.3	61.2	12.48	12.75	12.15	11.55
25	9	1	14	37.0	ON 487	69.8	68.6	12.52	12.75	12.15	11.55
					OFF 487	70.5	75.0	12.52	12.75	12.15	11.55
25	9	2	48	127.0	ON 487	47.1	151.8	12.52	12.75	12.15	11.55
					OFF 487	40.0	155.2	12.52	12.72	12.12	11.52
26	2	1	29	76.7	ON 487	52.0	148.1	12.52	12.75	12.15	11.55
					OFF 487	48.6	151.1	12.52	12.75	12.15	11.55
27	8	1	16	42.3	ON 326	43.1	25.0	12.20	12.74	12.14	11.54
					OFF 326	46.1	26.7	12.20	12.75	12.15	11.55
29	8	1	70	185.1	ON 326	50.9	150.3	12.20	12.75	12.15	11.55
					OFF 326	37.9	156.7	12.20	12.70	12.10	11.50
30	5	1	78	206.3	ON 489	55.4	146.9	12.53	12.75	12.15	11.55
					OFF 489	44.1	154.4	12.53	12.74	12.14	11.54
32	7	8	14	37.0	ON 489	71.3	73.0	12.53	12.75	12.15	11.55
					OFF 489	71.9	80.2	12.53	12.75	12.15	11.55
34	5	1	31	82.0	ON 345	44.7	24.4	12.28	12.74	12.14	11.54
					OFF 345	50.2	27.7	12.28	12.75	12.15	11.55
35	5	1	45	119.8	ON 345	52.5	29.1	12.28	12.75	12.15	11.55
					OFF 345	60.0	36.6	12.28	12.75	12.15	11.55
36	7	1	70	185.1	ON 393	38.1	157.9	12.47	12.70	12.10	11.50
					OFF 393	26.6	168.7	12.47	12.57	11.97	11.37
37	7	1	24	63.5	ON 393	61.5	141.9	12.47	12.75	12.15	11.55
					OFF 393	58.0	146.3	12.47	12.75	12.15	11.55
37	7	2	19	50.3	ON 393	51.4	151.9	12.47	12.75	12.15	11.55
					OFF 393	48.3	153.7	12.47	12.75	12.15	11.55
37	7	3	67	177.2	ON 393	45.6	155.1	12.47	12.74	12.14	11.54
					OFF 393	34.9	159.0	12.47	12.68	12.08	11.48
37	7	4	18	47.6	ON 393	30.2	160.1	12.47	12.63	12.03	11.43
					OFF 393	27.2	168.7	12.47	12.58	11.98	11.38
38	3	1	15	39.7	ON 393	54.7	30.2	12.47	12.75	12.15	11.55
					OFF 393	56.9	32.2	12.47	12.75	12.15	11.55

38	3	2	53	148.2	ON	393	72.9	94.5	12.47	12.75	12.15	11.55
					OFF	393	69.9	121.5	12.47	12.75	12.15	11.55
38	3	3	51	134.9	ON	393	59.6	144.7	12.47	12.75	12.15	11.55
					OFF	393	52.8	151.7	12.47	12.75	12.15	11.55
39	6	1	14	37.8	ON	393	55.8	38.2	12.47	12.75	12.15	11.55
					OFF	393	57.1	32.1	12.47	12.75	12.15	11.55
39	6	2	14	37.8	ON	393	64.4	42.8	12.47	12.75	12.15	11.55
					OFF	393	66.1	45.8	12.47	12.75	12.15	11.55
39	6	3	34	89.9	ON	393	78.6	68.8	12.47	12.75	12.15	11.55
					OFF	393	72.7	77.8	12.47	12.75	12.15	11.55
48	8	1	88	211.6	ON	377	56.8	31.5	12.41	12.75	12.15	11.55
					OFF	377	67.9	58.8	12.41	12.75	12.15	11.55
41	5	1	33	87.3	ON	377	64.3	41.2	12.41	12.75	12.15	11.55
					OFF	377	68.6	51.4	12.41	12.75	12.15	11.55
42	3	1	52	137.5	ON	424	72.4	118.1	12.58	12.75	12.15	11.55
					OFF	424	68.8	138.8	12.58	12.75	12.15	11.55
43	9	1	31	82.8	ON	377	42.5	21.6	12.41	12.73	12.13	11.53
					OFF	377	47.6	24.2	12.41	12.75	12.15	11.55
43	9	2	21	55.5	ON	377	73.3	182.3	12.41	12.75	12.15	11.55
					OFF	377	72.1	114.8	12.41	12.75	12.15	11.55
44	4	1	36	95.2	ON	344	44.5	22.4	12.28	12.74	12.14	11.54
					OFF	344	51.8	26.8	12.28	12.75	12.15	11.55
47	2	1	21	55.5	ON	488	72.2	63.8	12.53	12.75	12.15	11.55
					OFF	488	73.5	73.6	12.53	12.75	12.15	11.55
58	4	1	55	145.5	ON	368	42.3	28.2	12.35	12.73	12.13	11.53
					OFF	368	52.8	25.2	12.35	12.75	12.15	11.55
58	4	2	18	26.5	ON	368	68.8	31.9	12.35	12.75	12.15	11.55
					OFF	368	61.8	33.9	12.35	12.75	12.15	11.55
53	3	1	51	134.9	ON	488	69.1	46.4	12.53	12.75	12.15	11.55
					OFF	488	73.9	68.4	12.53	12.75	12.15	11.55
54	4	1	38	188.5	ON	393	55.5	26.6	12.47	12.75	12.15	11.55
					OFF	393	61.3	32.1	12.47	12.75	12.15	11.55
54	4	2	99	261.9	ON	393	66.2	39.2	12.47	12.75	12.15	11.55
					OFF	393	75.1	84.2	12.47	12.75	12.15	11.55
55	4	1	11	29.1	ON	392	55.8	26.8	12.47	12.75	12.15	11.55
					OFF	392	56.8	27.4	12.47	12.75	12.15	11.55
55	4	2	86	227.5	ON	392	61.9	32.4	12.47	12.75	12.15	11.55
					OFF	392	72.7	58.5	12.47	12.75	12.15	11.55
56	5	1	63	166.6	ON	376	55.8	25.7	12.41	12.75	12.15	11.55
					OFF	376	64.9	36.2	12.41	12.75	12.15	11.55
57	4	1	31	82.8	ON	392	65.8	37.4	12.47	12.75	12.15	11.55
					OFF	392	78.8	46.6	12.47	12.75	12.15	11.55
59	2	1	24	63.5	ON	344	72.4	125.9	12.28	12.75	12.15	11.55
					OFF	344	69.2	136.6	12.28	12.75	12.15	11.55
68	2	1	21	55.5	ON	488	54.8	155.7	12.52	12.75	12.15	11.55
					OFF	488	58.8	157.5	12.52	12.75	12.15	11.55
61	8	1	56	148.1	ON	488	61.1	158.3	12.52	12.75	12.15	11.55
					OFF	488	52.7	156.7	12.52	12.75	12.15	11.55
63	9	1	38	188.5	ON	488	72.6	51.8	12.52	12.75	12.15	11.55
					OFF	488	75.7	72.8	12.52	12.75	12.15	11.55
66	6	1	38	188.5	ON	376	47.8	19.4	12.41	12.75	12.15	11.55

				OFF 376	54.3	22.7	12.41	12.75	12.15	11.55
68	6	1	47	124.3 ON 376	68.5	26.8	12.41	12.75	12.15	11.55
				OFF 376	68.8	36.4	12.41	12.75	12.15	11.55
69	4	1	67	177.2 ON 488	67.2	34.6	12.52	12.75	12.15	11.55
				OFF 488	75.1	58.9	12.52	12.75	12.15	11.55
69	4	2	26	68.8 ON 488	77.2	89.3	12.52	12.75	12.15	11.55
				OFF 488	76.6	108.2	12.52	12.75	12.15	11.55
78	2	1	14	37.8 ON 376	55.1	22.3	12.41	12.75	12.15	11.55
				OFF 376	57.5	23.8	12.41	12.75	12.15	11.55
78	2	2	13	34.4 ON 376	69.8	39.2	12.41	12.75	12.15	11.55
				OFF 376	71.6	43.8	12.41	12.75	12.15	11.55
71	2	1	22	58.2 ON 344	42.6	16.3	12.28	12.73	12.13	11.53
				OFF 344	46.9	18.8	12.28	12.75	12.15	11.55
71	2	2	24	63.5 ON 344	49.6	19.1	12.28	12.75	12.15	11.55
				OFF 344	54.1	21.4	12.28	12.75	12.75	11.55
72	5	1	17	45.8 ON 392	55.1	21.7	12.47	12.75	12.15	11.55
				OFF 392	57.9	23.6	12.47	12.75	12.15	11.55
72	5	2	86	227.5 ON 392	68.4	25.5	12.47	12.75	12.15	11.55
				OFF 392	72.8	46.2	12.47	12.75	12.15	11.55
73	2	1	32	84.6 ON 368	26.4	18.2	12.34	12.57	11.97	11.37
				OFF 368	32.3	12.2	12.34	12.65	12.85	11.45
73	2	2	32	84.6 ON 368	66.8	31.3	12.34	12.75	12.15	11.55
				OFF 368	71.8	48.5	12.34	12.75	12.15	11.55
74	9	1	35	92.6 ON 327	36.1	13.5	12.28	12.69	12.89	11.49
				OFF 327	43.8	15.9	12.28	12.73	12.13	11.53
75	2	1	25	66.1 ON 344	43.2	15.8	12.28	12.74	12.14	11.54
				OFF 344	48.8	17.6	12.28	12.75	12.15	11.55
79	6	1	28	52.9 ON 488	74.6	48.8	12.52	12.75	12.15	11.55
				OFF 488	76.6	58.7	12.52	12.75	12.15	11.55
88	2	1	12	31.7 ON 376	39.3	165.5	12.41	12.71	12.11	11.51
				OFF 376	37.2	165.9	12.41	12.78	12.18	11.58

STELLAR-INDEX SUMMARY

CAMERA DATA	ET	FILM	FILTER	GRID	ASSEMBLY NO	D85
STELLAR	2.8	3481	NONE	189		
INDEX	1/500	3488	W/21	76		

PERFORMANCE SUMMARY

OPN	NO	FF	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	3	2	8.28	8.48	23	1	8	2	51	148W	2	48	147W	38
2	3	6	8.59	1.19	8	26	34	1	54	191E	1	47	193E	118
4	4	5	8.58	8.99	3	26	9	2	71	126E	2	64	135E	113
5	8	12	1.19	2.38	5	17	9	3	18	131E	3	25	133E	233
6	4	19	1.88	3.76	6	34	16	2	42	181E	2	16	185E	382
8	6	2	8.28	8.48	9	27	17	2	78	37E	2	67	41E	42
8	6	9	8.89	1.76	9	38	42	2	57	49E	2	46	54E	176
9	3	3	8.38	8.59	18	48	29	1	39	123W	1	41	122W	46
9	3	4	8.48	8.79	18	53	26	2	88	39W	2	77	9W	93
9	3	2	8.28	8.48	11	3	57	2	45	32E	2	43	32E	37

10	3	1	6	0.59	1.19	12	38	24	2	28	13E	2	21	14E	115
11	4	1	5	0.58	0.99	14	18	25	2	21	8W	2	15	7W	94
13	8	1	6	0.59	1.19	17	18	23	3	9	50W	3	17	49W	125
14	9	1	7	0.69	1.39	18	52	32	3	25	70W	3	34	69W	142
16	9	0	3	0.30	0.59	21	38	15	2	33	123W	2	31	123W	37
19	8	1	5	0.58	0.99	1	59	56	2	67	151E	2	61	157E	97
20	3	2	2	0.28	0.48	3	48	15	3	3	150E	3	6	150E	36
20	3	3	2	0.28	0.48	3	53	19	3	24	153E	3	26	153E	38
22	5	1	9	0.89	1.78	6	36	57	2	42	97E	2	32	100E	156
24	5	1	2	0.28	0.48	9	38	0	2	78	34E	2	68	37E	42
24	5	2	15	1.48	2.97	9	33	31	2	57	46E	2	39	53E	283
25	9	1	3	0.30	0.59	11	9	12	2	35	31E	2	33	31E	35
25	9	2	7	0.69	1.39	11	20	39	3	10	37E	3	18	38E	118
26	2	1	4	0.48	0.79	12	49	13	3	3	14E	3	8	14E	72
27	8	1	3	0.30	0.59	14	0	40	2	69	32W	2	66	28W	50
29	8	1	10	0.99	1.98	17	20	19	3	6	53W	3	20	51W	215
30	5	1	11	1.09	2.18	18	49	15	3	1	76W	3	14	75W	191
32	7	0	3	0.36	0.59	21	40	53	2	33	126W	2	31	126W	36
34	5	1	4	0.48	0.79	0	32	12	2	68	170E	2	62	176E	90
35	5	1	7	0.69	1.39	2	4	30	2	60	155E	2	52	159E	131
36	7	1	10	0.99	1.98	3	55	6	3	21	149E	3	33	151E	181
37	7	1	4	0.48	0.79	5	18	44	2	5	123E	2	0	124E	63
37	7	2	3	0.38	0.59	5	21	40	3	6	124E	3	10	125E	50
37	7	3	9	0.89	1.78	5	23	15	3	13	125E	3	24	127E	171
37	7	4	3	0.38	0.59	5	27	20	3	29	120E	3	32	120E	47
38	3	1	2	0.28	0.48	6	35	35	2	58	88E	2	55	98E	30
38	3	2	0	0.79	1.58	6	43	35	2	26	98E	2	17	99E	130
38	3	3	0	0.79	1.58	6	49	29	2	2	101E	3	6	102E	131
39	6	1	2	0.28	0.48	8	5	48	2	57	66E	2	55	67E	36
39	6	2	2	0.28	0.48	8	8	38	2	46	71E	2	44	71E	36
39	6	3	5	0.58	0.99	8	11	2	2	37	73E	2	31	74E	00
40	8	1	12	1.19	2.38	9	36	27	2	55	44E	2	41	49E	213
41	5	1	5	0.58	0.99	11	0	52	2	46	25E	2	41	27E	90
42	3	1	7	0.69	1.39	12	45	24	2	21	8E	2	13	9E	125
43	9	1	5	0.58	0.99	14	2	57	2	70	36W	2	65	30W	02
43	9	2	3	0.30	0.59	14	14	55	2	23	14W	2	20	14W	56
44	4	1	5	0.58	0.99	15	33	38	2	68	56W	2	62	49W	105
47	2	1	4	0.48	0.79	20	12	37	2	35	107W	2	32	106W	51
50	4	1	0	0.79	1.58	0	33	53	2	70	164E	2	61	174E	156
50	4	2	1	0.10	0.20	0	38	42	2	52	179E	2	50	180E	30
53	3	1	0	0.79	1.58	5	11	54	2	41	114E	2	33	116E	127
54	4	1	6	0.59	1.19	6	37	56	2	57	86E	2	51	89E	98
54	4	2	14	1.39	2.77	6	41	2	2	45	91E	2	20	94E	254
55	4	1	2	0.28	0.48	8	7	56	2	57	63E	2	56	64E	30
55	4	2	12	1.19	2.38	8	9	52	2	50	66E	2	36	70E	220
56	5	1	9	0.89	1.78	9	38	3	2	58	40E	2	47	45E	160
57	4	1	5	0.58	0.99	11	11	16	2	45	22E	2	40	24E	02
59	2	1	4	0.48	0.79	14	18	52	2	16	16W	2	11	16W	72
60	2	1	3	0.30	0.59	15	54	37	3	6	36W	3	9	36W	51
61	8	1	0	0.79	1.58	17	22	49	2	1	60W	3	7	59W	130
63	9	1	6	0.59	1.19	20	14	9	2	37	110W	2	31	109W	95

66	6	1	6	0.59	1.19	8	37	18	2	65	168E	2	58	173E	182
68	6	1	7	0.69	1.39	3	48	54	2	52	131E	2	43	134E	128
69	4	1	9	0.89	1.78	5	12	53	2	44	111E	2	34	113E	165
69	4	2	4	0.48	0.79	5	17	38	2	26	114E	2	22	115E	65
78	2	1	2	0.28	0.48	6	39	48	2	57	83E	2	55	84E	38
78	2	2	2	0.28	0.48	6	43	47	2	41	89E	2	39	89E	35
71	2	1	4	0.48	0.79	8	6	31	2	78	48E	2	66	53E	66
71	2	2	3	0.38	0.59	8	8	19	2	63	56E	2	59	59E	78
72	5	1	3	0.38	0.59	9	39	52	2	58	37E	2	55	39E	45
72	5	2	12	1.19	2.38	9	41	16	2	52	48E	2	38	44E	228
73	2	1	5	0.58	0.99	11	2	37	2	88	52W	2	78	22W	89
73	2	2	5	0.58	0.99	11	12	56	2	46	19E	2	48	21E	98
74	9	1	5	0.58	0.99	12	35	18	2	75	32W	2	69	18W	106
75	2	1	4	0.48	0.79	14	7	5	2	69	41W	2	65	35W	74
79	6	1	3	0.38	0.59	28	16	7	2	36	113W	2	32	112W	58
88	2	1	2	0.28	0.48	22	8	58	3	23	128W	3	25	128W	32

NOTE - TLM DATA INDICATE THAT ALL OPERATIONS AFTER REV 5 WERE RUNNING AT A CONSTANT RATE DUE TO FAILURE OF THE V/H PROGRAMMER. THE CAUSE OF FAILURE IS UNDETERMINED AT PRESENT.

NOTE - THE PRESSURE MAKE-UP SYSTEM DEVELOPED A LEAK AT LAUNCH. AT APPROXIMATELY REV 38 ALL OF THE GAS WAS DEPLETED. ALL SUBSEQUENT OPERATIONS WILL NOT HAVE PRESSURE MAKE-UP.

NOTE - OPERATION 88-2-1 ACTUALLY CONSISTED OF FIVE MORE FRAMES THAN WAS REPORTED. THESE FRAMES WILL BE INCLUDED IN THE B BUCKET.

NOTE - EXCEPT FOR THE ABOVE, TLM DATA INDICATE NORMAL SYSTEM PERFORMANCE.

A. 1034-1
B. DRY
C. PERFORMANCE ESTIMATE PART TWO

RATE ESTIMATE
FWD PAN CAMERA NUMBER 186

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG VEL	SCAN R/SEC	RATE I/SEC	PCT CALIB	RATE REQD		
1	3	8	12	8	6 ON	1394	0.3639	0.03071	2.287	54.88	-2.9	2.8
					OFF	38	0.3683	0.03108	2.314	55.54	-2.9	2.4
2	3	1	36	8	6 ON	1881	0.3185	0.02688	2.001	48.03	-2.9	-6.3
					OFF	110	0.3347	0.02824	2.103	50.47	-2.9	-6.2
4	4	1	36	8	6 ON	913	0.2992	0.02525	1.880	45.12	-2.9	-3.4
					OFF	113	0.3118	0.02631	1.959	47.02	-2.9	-4.1
5	8	1	88	7	11 ON	2163	0.3362	0.02837	2.112	50.69	-2.9	-22.1
					OFF	233	0.3362	0.02837	2.112	50.69	-2.9	-13.6
6	4	1	131	7	11 ON	1380	0.3362	0.02837	2.112	50.69	-2.9	-12.4
					OFF	382	0.3362	0.02837	2.112	50.69	-2.9	-24.5
8	6	1	14	7	11 ON	943	0.3362	0.02837	2.112	50.69	-2.9	6.1
					OFF	42	0.3362	0.02837	2.112	50.69	-2.9	4.4
8	6	2	60	7	11 ON	1148	0.3362	0.02837	2.112	50.69	-2.9	-2.5
					OFF	176	0.3362	0.02837	2.112	50.69	-2.9	-10.3
9	3	0	15	7	11 ON	0	0.3362	0.02837	2.112	50.69	-2.9	32.1
					OFF	46	0.3362	0.02837	2.112	50.69	-2.9	31.4
9	3	1	31	7	11 ON	0	0.3362	0.02837	2.112	50.69	-2.9	14.8
					OFF	93	0.3362	0.02837	2.112	50.69	-2.9	11.6
9	3	2	12	7	11 ON	0	0.3362	0.02837	2.112	50.69	-2.9	-10.9
					OFF	37	0.3362	0.02837	2.112	50.69	-2.9	-12.4
10	3	1	39	7	11 ON	1714	0.3362	0.02837	2.112	50.69	-2.9	-20.8
					OFF	115	0.3362	0.02837	2.112	50.69	-2.9	-23.8
11	4	1	32	7	11 ON	1828	0.3362	0.02837	2.112	50.69	-2.9	-23.8
					OFF	94	0.3362	0.02837	2.112	50.69	-2.9	-25.4
13	8	1	42	7	11 ON	2290	0.3363	0.02837	2.113	50.71	-2.8	-22.1
					OFF	125	0.3363	0.02837	2.113	50.71	-2.8	-17.9
14	9	1	40	7	11 ON	2531	0.3363	0.02837	2.113	50.71	-2.8	-13.1
					OFF	142	0.3363	0.02837	2.113	50.71	-2.8	-6.6
16	9	0	13	5	11 ON	1658	0.3681	0.03106	2.313	55.52	-2.8	-8.5
					OFF	37	0.3681	0.03106	2.313	55.52	-2.8	-9.7
19	8	1	33	7	11 ON	1135	0.3363	0.02837	2.113	50.71	-2.8	2.8
					OFF	97	0.3363	0.02837	2.113	50.71	-2.8	-1.3
20	3	2	12	5	11 ON	2227	0.3681	0.03106	2.313	55.52	-2.8	-13.8
					OFF	36	0.3681	0.03106	2.313	55.52	-2.8	-12.2
20	3	3	13	5	11 ON	2530	0.3681	0.03106	2.313	55.52	-2.8	-3.4
					OFF	38	0.3681	0.03106	2.313	55.52	-2.8	-1.8
22	5	1	60	4	11 ON	1536	0.3836	0.03237	2.410	57.04	-2.8	-8.1
					OFF	156	0.3836	0.03237	2.410	57.04	-2.8	-5.1
24	5	1	15	5	11 ON	1106	0.3681	0.03106	2.313	55.52	-2.8	12.4
					OFF	42	0.3681	0.03106	2.313	55.52	-2.8	10.8
24	5	2	106	5	11 ON	1317	0.3681	0.03106	2.313	55.52	-2.8	4.2
					OFF	283	0.3681	0.03106	2.313	55.52	-2.8	-6.6

25	9	1	14	3	11	ON	1652	0.3992	0.83369	2.589	68.28	-2.8	8.2
						OFF	35	0.3992	0.83369	2.589	68.28	-2.8	-8.8
25	9	2	47	3	11	ON	2338	0.3992	0.83369	2.589	68.28	-2.8	-1.8
						OFF	118	0.3992	0.83369	2.589	68.28	-2.8	1.8
26	2	1	29	3	11	ON	2244	0.3992	0.83369	2.589	68.28	-2.8	-4.8
						OFF	72	0.3992	0.83369	2.589	68.28	-2.8	-2.3
27	8	1	16	8	11	ON	1123	0.3197	0.82697	2.889	48.28	-2.8	-1.8
						OFF	58	0.3197	0.82697	2.889	48.28	-2.8	-4.8
29	8	1	78	8	11	ON	2298	0.3197	0.82697	2.889	48.28	-2.8	-28.6
						OFF	215	0.3197	0.82697	2.889	48.28	-2.8	-28.5
38	5	1	77	3	11	ON	2217	0.3992	0.83368	2.588	68.19	-2.9	-4.4
						OFF	191	0.3992	0.83368	2.588	68.19	-2.9	8.3
32	7	0	14	3	11	ON	1782	0.3992	0.83368	2.588	68.19	-2.9	-1.2
						OFF	36	0.3992	0.83368	2.588	68.19	-2.9	-2.1
34	5	1	38	7	11	ON	1168	0.3362	0.82837	2.113	58.78	-2.9	1.3
						OFF	98	0.3362	0.82837	2.113	58.78	-2.9	-2.5
35	5	1	44	7	11	ON	1388	0.3362	0.82837	2.113	58.78	-2.9	-4.3
						OFF	131	0.3362	0.82837	2.113	58.78	-2.9	-9.8
36	7	1	69	4	11	ON	2529	0.3835	0.83236	2.418	57.84	-2.9	8.4
						OFF	181	0.3835	0.83236	2.418	57.84	-2.9	7.7
37	7	1	24	4	11	ON	2142	0.3835	0.83236	2.418	57.84	-2.9	-9.8
						OFF	63	0.3835	0.83236	2.418	57.84	-2.9	-8.9
37	7	2	19	4	11	ON	2318	0.3835	0.83236	2.418	57.84	-2.9	-6.5
						OFF	58	0.3835	0.83236	2.418	57.84	-2.9	-5.1
37	7	3	66	4	11	ON	2414	0.3835	0.83236	2.418	57.84	-2.9	-3.7
						OFF	171	0.3835	0.83236	2.418	57.84	-2.9	2.5
37	7	4	18	4	11	ON	2659	0.3835	0.83236	2.418	57.84	-2.9	5.5
						OFF	47	0.3835	0.83236	2.418	57.84	-2.9	7.5
38	3	1	14	4	11	ON	1348	0.3835	0.83236	2.418	57.84	-2.9	6.9
						OFF	38	0.3835	0.83236	2.418	57.84	-2.9	5.4
38	3	2	53	4	11	ON	1828	0.3835	0.83236	2.418	57.84	-2.9	-8.2
						OFF	138	0.3835	0.83236	2.418	57.84	-2.9	-18.1
38	3	3	51	4	11	ON	2182	0.3835	0.83236	2.418	57.84	-2.9	-9.3
						OFF	131	0.3835	0.83236	2.418	57.84	-2.9	-6.7
39	6	1	13	4	11	ON	1352	0.3835	0.83236	2.418	57.84	-2.9	6.6
						OFF	36	0.3835	0.83236	2.418	57.84	-2.9	5.2
39	6	2	13	4	11	ON	1521	0.3835	0.83236	2.418	57.84	-2.9	8.4
						OFF	36	0.3835	0.83236	2.418	57.84	-2.9	-8.8
39	6	3	32	4	11	ON	1665	0.3835	0.83236	2.418	57.84	-2.9	-4.3
						OFF	88	0.3835	0.83236	2.418	57.84	-2.9	-6.7
48	8	1	82	5	11	ON	1386	0.3697	0.83128	2.323	55.75	-2.4	1.8
						OFF	213	0.3697	0.83128	2.323	55.75	-2.4	-6.8
41	5	1	33	5	11	ON	1526	0.3697	0.83128	2.323	55.75	-2.4	-3.4
						OFF	98	0.3697	0.83128	2.323	55.75	-2.4	-6.6
42	3	1	52	2	11	ON	1918	0.4158	0.83588	2.612	62.78	-2.4	-1.1
						OFF	125	0.4158	0.83588	2.612	62.78	-2.4	-1.8
43	9	1	38	5	11	ON	1159	0.3697	0.83128	2.323	55.75	-2.4	18.4
						OFF	82	0.3697	0.83128	2.323	55.75	-2.4	7.3
43	9	2	28	5	11	ON	1877	0.3697	0.83128	2.323	55.75	-2.4	-13.2
						OFF	56	0.3697	0.83128	2.323	55.75	-2.4	-13.9
44	4	1	35	7	11	ON	1194	0.3377	0.82849	2.122	58.92	-2.4	8.4

						OFF	185	0.3377	0.02849	2.122	58.92	-2.4	-3.9
47	2	1	28	3	11	ON	1718	0.4889	0.03383	2.519	68.46	-2.4	-1.1
						OFF	51	0.4889	0.03383	2.519	68.46	-2.4	-2.3
58	4	1	55	6	11	ON	1176	0.3537	0.02984	2.222	53.34	-2.4	5.4
						OFF	156	0.3537	0.02984	2.222	53.34	-2.4	-8.6
58	4	2	18	6	11	ON	1466	0.3537	0.02984	2.222	53.34	-2.4	-5.9
						OFF	38	0.3537	0.02984	2.222	53.34	-2.4	-7.1
53	3	1	51	3	11	ON	1642	0.4889	0.03383	2.519	68.46	-2.4	8.9
						OFF	127	0.4889	0.03383	2.519	68.46	-2.4	-2.4
54	4	1	38	4	11	ON	1399	0.3852	0.03258	2.428	58.89	-2.4	5.1
						OFF	98	0.3852	0.03258	2.428	58.89	-2.4	1.6
54	4	2	98	4	11	ON	1585	0.3852	0.03258	2.428	58.89	-2.4	-1.4
						OFF	254	0.3852	0.03258	2.428	58.89	-2.4	-8.8
55	4	1	11	4	11	ON	1394	0.3819	0.03222	2.488	57.59	-3.3	4.4
						OFF	38	0.3819	0.03222	2.488	57.59	-3.3	3.3
55	4	2	85	4	11	ON	1518	0.3819	0.03222	2.488	57.59	-3.3	8.3
						OFF	228	0.3819	0.03222	2.488	57.59	-3.3	-6.6
56	5	1	62	5	11	ON	1396	0.3665	0.03893	2.383	55.27	-3.3	8.3
						OFF	168	0.3665	0.03893	2.383	55.27	-3.3	-5.9
57	4	1	31	4	11	ON	1584	0.3819	0.03222	2.488	57.59	-3.3	-2.3
						OFF	82	0.3819	0.03222	2.488	57.59	-3.3	-4.8
59	2	1	24	7	11	ON	2832	0.3348	0.02825	2.184	58.49	-3.3	-26.6
						OFF	72	0.3348	0.02825	2.184	58.49	-3.3	-26.4
60	2	1	20	3	11	ON	2373	0.3975	0.03354	2.497	59.94	-3.3	-1.7
						OFF	51	0.3975	0.03354	2.497	59.94	-3.3	-8.2
61	8	1	56	3	11	ON	2268	0.3975	0.03354	2.497	59.94	-3.3	-4.4
						OFF	138	0.3975	0.03354	2.497	59.94	-3.3	-1.8
63	9	1	38	3	11	ON	1738	0.3975	0.03354	2.497	59.94	-3.3	-2.4
						OFF	95	0.3975	0.03354	2.497	59.94	-3.3	-4.5
66	6	1	37	5	11	ON	1388	0.3665	0.03893	2.383	55.27	-3.3	3.5
						OFF	182	0.3665	0.03893	2.383	55.27	-3.3	-8.4
68	6	1	47	5	11	ON	1517	0.3665	0.03893	2.383	55.27	-3.3	-4.3
						OFF	128	0.3665	0.03893	2.383	55.27	-3.3	-8.6
69	4	1	65	3	11	ON	1633	0.3975	0.03354	2.497	59.94	-3.3	8.3
						OFF	165	0.3975	0.03354	2.497	59.94	-3.3	-3.9
69	4	2	26	3	11	ON	1918	0.3975	0.03354	2.497	59.94	-3.3	-5.7
						OFF	65	0.3975	0.03354	2.497	59.94	-3.3	-6.4
70	2	1	13	5	11	ON	1435	0.3665	0.03893	2.383	55.27	-3.3	-1.3
						OFF	38	0.3665	0.03893	2.383	55.27	-3.3	-2.7
70	2	2	12	5	11	ON	1682	0.3665	0.03893	2.383	55.27	-3.3	-9.7
						OFF	35	0.3665	0.03893	2.383	55.27	-3.3	-18.7
71	2	1	22	7	11	ON	1243	0.3348	0.02825	2.184	58.49	-3.3	-3.2
						OFF	66	0.3348	0.02825	2.184	58.49	-3.3	-5.8
71	2	2	23	7	11	ON	1351	0.3348	0.02825	2.184	58.49	-3.3	-7.5
						OFF	78	0.3348	0.02825	2.184	58.49	-3.3	-18.4
72	5	1	17	4	11	ON	1441	0.3819	0.03222	2.488	57.59	-3.3	2.6
						OFF	45	0.3819	0.03222	2.488	57.59	-3.3	1.8
72	5	2	85	4	11	ON	1525	0.3819	0.03222	2.488	57.59	-3.3	-8.4
						OFF	228	0.3819	0.03222	2.488	57.59	-3.3	-7.8
73	2	1	31	6	11	ON	1882	0.3587	0.02959	2.283	52.88	-3.3	18.3
						OFF	89	0.3587	0.02959	2.283	52.88	-3.3	7.1

73	2	2	31	6	11	ON	1621	0.3587	0.02959	2.283	52.88	-3.3	-12.7
						OFF	98	0.3587	0.02959	2.283	52.88	-3.3	-15.5
74	9	1	34	8	11	ON	1152	0.3183	0.02685	2.000	47.99	-3.3	-4.8
						OFF	186	0.3183	0.02685	2.000	47.99	-3.3	-9.2
75	2	1	25	7	11	ON	1264	0.3348	0.02825	2.104	50.49	-3.3	-4.1
						OFF	74	0.3348	0.02825	2.104	50.49	-3.3	-7.1
79	6	1	19	3	11	ON	1791	0.3975	0.03354	2.497	59.94	-3.3	-3.8
						OFF	58	0.3975	0.03354	2.497	59.94	-3.3	-4.8
88	2	1	6	5	11	ON	2678	0.3665	0.03093	2.303	55.27	-3.3	1.0
						OFF	32	0.3665	0.03093	2.303	55.27	-3.3	2.4

RATE ESTIMATE

AFT PAN CAMERA NUMBER 187

OPN NO	FR	R	A	TUR/	DUR	INST	INST	SCAN	RATE	PCT	RATE		
						CPS	ANG VEL	R/SEC	I/SEC	CALIB	REQD		
1	3	0	13	8	6	ON	1406	0.3664	0.03092	2.302	55.25	-2.2	2.9
						OFF	38	0.3700	0.03129	2.330	55.92	-2.2	2.6
2	3	1	36	8	6	ON	1093	0.3209	0.02700	2.016	48.39	-2.2	-6.1
						OFF	118	0.3371	0.02844	2.118	50.83	-2.2	-6.0
4	4	1	36	8	6	ON	925	0.3016	0.02545	1.895	45.48	-2.2	-3.1
						OFF	113	0.3142	0.02651	1.974	47.38	-2.2	-3.9
5	8	1	80	7	11	ON	2175	0.3387	0.02858	2.128	51.08	-2.2	-20.0
						OFF	233	0.3387	0.02858	2.128	51.08	-2.2	-12.3
6	4	1	131	7	11	ON	1392	0.3387	0.02858	2.128	51.08	-2.2	-12.0
						OFF	382	0.3387	0.02858	2.128	51.08	-2.2	-23.7
8	6	1	14	7	11	ON	955	0.3387	0.02858	2.128	51.08	-2.2	6.4
						OFF	42	0.3387	0.02858	2.128	51.08	-2.2	4.6
8	6	2	68	7	11	ON	1168	0.3387	0.02858	2.128	51.08	-2.2	-2.3
						OFF	176	0.3387	0.02858	2.128	51.08	-2.2	-10.0
9	3	0	15	7	11	ON	12	0.3387	0.02858	2.128	51.08	-2.2	32.4
						OFF	46	0.3387	0.02858	2.128	51.08	-2.2	31.8
9	3	1	31	7	11	ON	12	0.3387	0.02858	2.128	51.08	-2.2	15.0
						OFF	93	0.3387	0.02858	2.128	51.08	-2.2	11.8
9	3	2	12	7	11	ON	12	0.3387	0.02858	2.128	51.08	-2.2	-10.6
						OFF	37	0.3387	0.02858	2.128	51.08	-2.2	-12.1
10	3	1	39	7	11	ON	1726	0.3387	0.02858	2.128	51.08	-2.2	-20.3
						OFF	115	0.3387	0.02858	2.128	51.08	-2.2	-23.2
11	4	1	32	7	11	ON	1840	0.3387	0.02858	2.128	51.08	-2.2	-23.1
						OFF	94	0.3387	0.02858	2.128	51.08	-2.2	-24.6
13	8	1	43	7	11	ON	2302	0.3415	0.02881	2.146	51.50	-1.4	-19.9
						OFF	125	0.3415	0.02881	2.146	51.50	-1.4	-15.6
14	9	1	48	7	11	ON	2543	0.3415	0.02881	2.146	51.50	-1.4	-10.8
						OFF	142	0.3415	0.02881	2.146	51.50	-1.4	-4.4
16	9	0	13	5	11	ON	1670	0.3737	0.03153	2.348	56.35	-1.4	-7.3
						OFF	37	0.3737	0.03153	2.348	56.35	-1.4	-8.4
19	8	1	33	7	11	ON	1147	0.3415	0.02881	2.146	51.50	-1.4	3.8
						OFF	97	0.3415	0.02881	2.146	51.50	-1.4	-0.2
20	3	2	13	5	11	ON	2239	0.3737	0.03153	2.348	56.35	-1.4	-11.1
						OFF	36	0.3737	0.03153	2.348	56.35	-1.4	-10.2
20	3	3	14	5	11	ON	2542	0.3737	0.03153	2.348	56.35	-1.4	-1.4

					OFF	38	0.3737	0.83153	2.348	56.35	-1.4	8.2	
22	5	1	61	4	11	ON	1548	0.3894	0.83286	2.447	58.73	-1.4	1.8
					OFF	156	0.3894	0.83286	2.447	58.73	-1.4	-3.9	
24	5	1	15	5	11	ON	1118	0.3737	0.83153	2.348	56.35	-1.4	13.2
					OFF	42	0.3737	0.83153	2.348	56.35	-1.4	11.7	
24	5	2	186	5	11	ON	1329	0.3737	0.83153	2.348	56.35	-1.4	5.2
					OFF	283	0.3737	0.83153	2.348	56.35	-1.4	-5.4	
25	9	1	14	3	11	ON	1664	0.4852	0.83419	2.546	61.11	-1.4	1.3
					OFF	35	0.4852	0.83419	2.546	61.11	-1.4	8.3	
25	9	2	48	3	11	ON	2358	0.4852	0.83419	2.546	61.11	-1.4	8.8
					OFF	118	0.4852	0.83419	2.546	61.11	-1.4	3.7	
26	2	1	29	3	11	ON	2256	0.4852	0.83419	2.546	61.11	-1.4	-2.2
					OFF	72	0.4852	0.83419	2.546	61.11	-1.4	-8.5	
27	8	1	16	8	11	ON	1135	0.3246	0.82739	2.848	48.95	-1.4	-8.8
					OFF	58	0.3246	0.82739	2.848	48.95	-1.4	-2.9	
29	8	1	79	8	11	ON	2382	0.3246	0.82739	2.848	48.95	-1.4	-26.3
					OFF	215	0.3246	0.82739	2.848	48.95	-1.4	-18.1	
30	5	1	78	3	11	ON	2229	0.4873	0.83436	2.559	61.41	-8.9	-2.1
					OFF	191	0.4873	0.83436	2.559	61.41	-8.9	2.6	
32	7	0	14	3	11	ON	1714	0.4873	0.83436	2.559	61.41	-8.9	8.5
					OFF	36	0.4873	0.83436	2.559	61.41	-8.9	-8.4	
34	5	1	31	7	11	ON	1188	0.3432	0.82896	2.156	51.76	-8.9	2.8
					OFF	98	0.3432	0.82896	2.156	51.76	-8.9	-8.9	
35	5	1	45	7	11	ON	1312	0.3432	0.82896	2.156	51.76	-8.9	-2.7
					OFF	131	0.3432	0.82896	2.156	51.76	-8.9	-8.1	
36	7	1	70	4	11	ON	2541	0.3914	0.83383	2.459	59.82	-8.9	2.9
					OFF	181	0.3914	0.83383	2.459	59.82	-8.9	18.1	
37	7	1	24	4	11	ON	2154	0.3914	0.83383	2.459	59.82	-8.9	-7.4
					OFF	63	0.3914	0.83383	2.459	59.82	-8.9	-6.5	
37	7	2	19	4	11	ON	2330	0.3914	0.83383	2.459	59.82	-8.9	-4.1
					OFF	58	0.3914	0.83383	2.459	59.82	-8.9	-2.6	
37	7	3	67	4	11	ON	2426	0.3914	0.83383	2.459	59.82	-8.9	-1.2
					OFF	171	0.3914	0.83383	2.459	59.82	-8.9	5.8	
37	7	4	18	4	11	ON	2671	0.3914	0.83383	2.459	59.82	-8.9	7.9
					OFF	47	0.3914	0.83383	2.459	59.82	-8.9	9.8	
38	3	1	15	4	11	ON	1368	0.3914	0.83383	2.459	59.82	-8.9	8.3
					OFF	38	0.3914	0.83383	2.459	59.82	-8.9	6.9	
38	3	2	53	4	11	ON	1848	0.3914	0.83383	2.459	59.82	-8.9	-6.3
					OFF	138	0.3914	0.83383	2.459	59.82	-8.9	-7.9	
38	3	3	51	4	11	ON	2194	0.3914	0.83383	2.459	59.82	-8.9	-6.9
					OFF	131	0.3914	0.83383	2.459	59.82	-8.9	-4.2	
39	6	1	14	4	11	ON	1364	0.3914	0.83383	2.459	59.82	-8.9	8.8
					OFF	36	0.3914	0.83383	2.459	59.82	-8.9	6.7	
39	6	2	14	4	11	ON	1533	0.3914	0.83383	2.459	59.82	-8.9	2.8
					OFF	36	0.3914	0.83383	2.459	59.82	-8.9	8.8	
39	6	3	34	4	11	ON	1677	0.3914	0.83383	2.459	59.82	-8.9	-2.6
					OFF	88	0.3914	0.83383	2.459	59.82	-8.9	-4.8	
48	8	1	80	5	11	ON	1398	0.3751	0.83165	2.357	56.57	-1.8	2.7
					OFF	213	0.3751	0.83165	2.357	56.57	-1.8	-4.9	
41	5	1	33	5	11	ON	1538	0.3751	0.83165	2.357	56.57	-1.8	-2.4
					OFF	98	0.3751	0.83165	2.357	56.57	-1.8	-5.4	

42	3	1	52	2	11	ON	1922	8.4219	8.83568	2.651	63.62	-1.8	8.3
						OFF	125	8.4219	8.83568	2.651	63.62	-1.8	-8.3
43	9	1	31	5	11	ON	1171	8.3751	8.83165	2.357	56.57	-1.8	11.2
						OFF	82	8.3751	8.83165	2.357	56.57	-1.8	8.2
43	9	2	21	5	11	ON	1889	8.3751	8.83165	2.357	56.57	-1.8	-11.7
						OFF	56	8.3751	8.83165	2.357	56.57	-1.8	-12.4
44	4	1	36	7	11	ON	1286	8.3428	8.82893	2.154	51.78	-1.8	1.4
						OFF	185	8.3428	8.82893	2.154	51.78	-1.8	-2.9
47	2	1	21	3	11	ON	1738	8.4868	8.83433	2.556	61.35	-1.8	8.8
						OFF	51	8.4868	8.83433	2.556	61.35	-1.8	-1.1
58	4	1	55	6	11	ON	1188	8.3598	8.83829	2.256	54.13	-1.8	6.4
						OFF	156	8.3598	8.83829	2.256	54.13	-1.8	8.4
58	4	2	18	6	11	ON	1478	8.3598	8.83829	2.256	54.13	-1.8	-4.8
						OFF	38	8.3598	8.83829	2.256	54.13	-1.8	-6.8
53	3	1	51	3	11	ON	1654	8.4868	8.83433	2.556	61.35	-1.8	2.8
						OFF	127	8.4868	8.83433	2.556	61.35	-1.8	-1.2
54	4	1	38	4	11	ON	1411	8.3918	8.83299	2.457	58.96	-1.8	6.8
						OFF	98	8.3918	8.83299	2.457	58.96	-1.8	2.6
54	4	2	99	4	11	ON	1597	8.3918	8.83299	2.457	58.96	-1.8	-8.3
						OFF	254	8.3918	8.83299	2.457	58.96	-1.8	-6.7
55	4	1	11	4	11	ON	1486	8.3983	8.83293	2.452	58.86	-1.1	6.8
						OFF	38	8.3983	8.83293	2.452	58.86	-1.1	5.8
55	4	2	86	4	11	ON	1522	8.3983	8.83293	2.452	58.86	-1.1	2.8
						OFF	228	8.3983	8.83293	2.452	58.86	-1.1	-4.6
56	5	1	63	5	11	ON	1488	8.3745	8.83168	2.353	56.47	-1.1	2.8
						OFF	168	8.3745	8.83168	2.353	56.47	-1.1	-4.8
57	4	1	31	4	11	ON	1596	8.3983	8.83293	2.452	58.86	-1.1	-8.5
						OFF	82	8.3983	8.83293	2.452	58.86	-1.1	-2.9
59	2	1	24	7	11	ON	2844	8.3423	8.82888	2.151	51.61	-1.1	-23.8
						OFF	72	8.3423	8.82888	2.151	51.61	-1.1	-23.5
60	2	1	21	3	11	ON	2385	8.4861	8.83427	2.552	61.24	-1.1	8.8
						OFF	51	8.4861	8.83427	2.552	61.24	-1.1	2.3
61	8	1	56	3	11	ON	2272	8.4861	8.83427	2.552	61.24	-1.1	-2.8
						OFF	138	8.4861	8.83427	2.552	61.24	-1.1	1.5
63	9	1	38	3	11	ON	1742	8.4861	8.83427	2.552	61.24	-1.1	-8.5
						OFF	95	8.4861	8.83427	2.552	61.24	-1.1	-2.4
66	6	1	38	5	11	ON	1328	8.3745	8.83168	2.353	56.47	-1.1	5.1
						OFF	182	8.3745	8.83168	2.353	56.47	-1.1	1.3
68	6	1	47	5	11	ON	1529	8.3745	8.83168	2.353	56.47	-1.1	-2.5
						OFF	128	8.3745	8.83168	2.353	56.47	-1.1	-6.6
69	4	1	67	3	11	ON	1645	8.4861	8.83427	2.552	61.24	-1.1	2.8
						OFF	165	8.4861	8.83427	2.552	61.24	-1.1	-1.9
69	4	2	26	3	11	ON	1922	8.4861	8.83427	2.552	61.24	-1.1	-3.6
						OFF	65	8.4861	8.83427	2.552	61.24	-1.1	-4.2
70	2	1	14	5	11	ON	1447	8.3745	8.83168	2.353	56.47	-1.1	8.4
						OFF	38	8.3745	8.83168	2.353	56.47	-1.1	-1.8
70	2	2	13	5	11	ON	1694	8.3745	8.83168	2.353	56.47	-1.1	-7.7
						OFF	35	8.3745	8.83168	2.353	56.47	-1.1	-8.7
71	2	1	22	7	11	ON	1255	8.3423	8.82888	2.151	51.61	-1.1	-1.4
						OFF	66	8.3423	8.82888	2.151	51.61	-1.1	-4.8
71	2	2	24	7	11	ON	1363	8.3423	8.82888	2.151	51.61	-1.1	-5.7

						OFF	78	0.3423	0.02888	2.151	51.61	-1.1	-8.4
72	5	1	17	4	11	ON	1453	0.3983	0.03293	2.452	58.86	-1.1	4.2
						OFF	45	0.3983	0.03293	2.452	58.86	-1.1	2.7
72	5	2	86	4	11	ON	1537	0.3983	0.03293	2.452	58.86	-1.1	1.4
						OFF	228	0.3983	0.03293	2.452	58.86	-1.1	-4.9
73	2	1	32	6	11	ON	1814	0.3584	0.03824	2.252	54.84	-1.1	11.8
						OFF	89	0.3584	0.03824	2.252	54.84	-1.1	8.7
73	2	2	32	6	11	ON	1633	0.3584	0.03824	2.252	54.84	-1.1	-18.7
						OFF	98	0.3584	0.03824	2.252	54.84	-1.1	-13.4
74	9	1	35	8	11	ON	1164	0.3254	0.02745	2.844	49.86	-1.1	-3.8
						OFF	186	0.3254	0.02745	2.844	49.86	-1.1	-7.3
75	2	1	25	7	11	ON	1276	0.3423	0.02888	2.151	51.61	-1.1	-2.3
						OFF	74	0.3423	0.02888	2.151	51.61	-1.1	-5.2
79	6	1	28	3	11	ON	1883	0.4861	0.03427	2.552	61.24	-1.1	-1.9
						OFF	58	0.4861	0.03427	2.552	61.24	-1.1	-2.8
88	2	1	7	5	11	ON	2698	0.3745	0.03168	2.353	56.47	-1.1	3.6
						OFF	32	0.3745	0.03168	2.353	56.47	-1.1	5.8

RAMP PROFILE

R= 7 A= 6 PERIOD= 3817

R= 0.3461 A= 0.0238

TUR	PER	CPS	ANG V
000	3.801	0.2631	0.02388
100	3.798	0.2648	0.02387
200	3.752	0.2665	0.02411
300	3.694	0.2707	0.02449
400	3.617	0.2765	0.02501
500	3.525	0.2837	0.02566
600	3.422	0.2922	0.02643
700	3.313	0.3018	0.02730
800	3.281	0.3124	0.02825
900	3.090	0.3236	0.02927
1000	2.982	0.3353	0.03033
1100	2.877	0.3476	0.03144
1200	2.752	0.3634	0.03287
1300	2.641	0.3786	0.03424
1400	2.547	0.3926	0.03551
1500	2.470	0.4048	0.03662
1600	2.410	0.4150	0.03753
1700	2.367	0.4225	0.03822
1800	2.348	0.4273	0.03865
1900	2.331	0.4291	0.03881
2000	2.337	0.4278	0.03869
2100	2.361	0.4235	0.03831
2200	2.401	0.4164	0.03766
2300	2.459	0.4067	0.03679
2400	2.533	0.3948	0.03571
2500	2.624	0.3811	0.03447
2600	2.732	0.3661	0.03311
2700	2.855	0.3503	0.03168

~~SECRET~~

2800	2.965	0.3373	0.03051
2900	3.072	0.3256	0.02945
3000	3.182	0.3142	0.02842
3100	3.294	0.3036	0.02746
3200	3.404	0.2938	0.02657
3300	3.508	0.2851	0.02578
3400	3.602	0.2776	0.02511
3500	3.682	0.2716	0.02457
3600	3.744	0.2671	0.02416
3700	3.784	0.2643	0.02398
3800	3.800	0.2631	0.02388

RAMP PROFILE

R= 8 A= 6 PERIOD= 3817

R= 0.3290 A= 0.0030

TUR	PER	CPS	ANG V
-0	4.065	0.2460	0.02225
100	4.051	0.2469	0.02233
200	4.009	0.2494	0.02256
300	3.943	0.2536	0.02294
400	3.855	0.2594	0.02346
500	3.751	0.2666	0.02411
600	3.635	0.2751	0.02488
700	3.512	0.2847	0.02575
800	3.387	0.2953	0.02671
900	3.263	0.3065	0.02772
1000	3.143	0.3182	0.02878
1100	3.026	0.3305	0.02989
1200	2.888	0.3463	0.03132
1300	2.766	0.3615	0.03269
1400	2.663	0.3755	0.03396
1500	2.579	0.3877	0.03507
1600	2.513	0.3979	0.03598
1700	2.466	0.4054	0.03667
1800	2.438	0.4102	0.03710
1900	2.427	0.4120	0.03726
2000	2.435	0.4107	0.03715
2100	2.460	0.4064	0.03676
2200	2.504	0.3993	0.03612
2300	2.567	0.3896	0.03524
2400	2.640	0.3777	0.03416
2500	2.740	0.3640	0.03292
2600	2.866	0.3490	0.03156
2700	3.001	0.3332	0.03014
2800	3.123	0.3202	0.02896
2900	3.242	0.3085	0.02790
3000	3.365	0.2971	0.02687
3100	3.491	0.2865	0.02591
3200	3.614	0.2767	0.02502
3300	3.732	0.2680	0.02424
3400	3.838	0.2605	0.02356

~~SECRET~~

~~SECRET~~

3500	3.929	0.2545	0.02382
3600	4.080	0.2500	0.02261
3700	4.046	0.2472	0.02236
3800	4.065	0.2460	0.02225

RAMP PROFILE

R= 2 A= 11 PERIOD= 3817

R= 0.4261 A= 0.0000

TUR	PER	CPS	ANG V
-0	2.347	0.4261	0.03854
100	2.347	0.4261	0.03854
200	2.347	0.4261	0.03854
300	2.347	0.4261	0.03854
400	2.347	0.4261	0.03854
500	2.347	0.4261	0.03854
600	2.347	0.4261	0.03854
700	2.347	0.4261	0.03854
800	2.347	0.4261	0.03854
900	2.347	0.4261	0.03854
1000	2.347	0.4261	0.03854
1100	2.347	0.4261	0.03854
1200	2.347	0.4261	0.03854
1300	2.347	0.4261	0.03854
1400	2.347	0.4261	0.03854
1500	2.347	0.4261	0.03854
1600	2.347	0.4261	0.03854
1700	2.347	0.4261	0.03854
1800	2.347	0.4261	0.03854
1900	2.347	0.4261	0.03854
2000	2.347	0.4261	0.03854
2100	2.347	0.4261	0.03854
2200	2.347	0.4261	0.03854
2300	2.347	0.4261	0.03854
2400	2.347	0.4261	0.03854
2500	2.347	0.4261	0.03854
2600	2.347	0.4261	0.03854
2700	2.347	0.4261	0.03854
2800	2.347	0.4261	0.03854
2900	2.347	0.4261	0.03854
3000	2.347	0.4261	0.03854
3100	2.347	0.4261	0.03854
3200	2.347	0.4261	0.03854
3300	2.347	0.4261	0.03854
3400	2.347	0.4261	0.03854
3500	2.347	0.4261	0.03854
3600	2.347	0.4261	0.03854
3700	2.347	0.4261	0.03854
3800	2.347	0.4261	0.03854

RAMP PROFILE

R= 3 A= 11 PERIOD= 3817

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R= 0.4189 A= 0.0000

TUR	PER	CPS	ANG V
-0	2.434	0.4189	0.03716
100	2.434	0.4189	0.03716
200	2.434	0.4189	0.03716
300	2.434	0.4189	0.03716
400	2.434	0.4189	0.03716
500	2.434	0.4189	0.03716
600	2.434	0.4189	0.03716
700	2.434	0.4189	0.03716
800	2.434	0.4189	0.03716
900	2.434	0.4189	0.03716
1000	2.434	0.4189	0.03716
1100	2.434	0.4189	0.03716
1200	2.434	0.4189	0.03716
1300	2.434	0.4189	0.03716
1400	2.434	0.4189	0.03716
1500	2.434	0.4189	0.03716
1600	2.434	0.4189	0.03716
1700	2.434	0.4189	0.03716
1800	2.434	0.4189	0.03716
1900	2.434	0.4189	0.03716
2000	2.434	0.4189	0.03716
2100	2.434	0.4189	0.03716
2200	2.434	0.4189	0.03716
2300	2.434	0.4189	0.03716
2400	2.434	0.4189	0.03716
2500	2.434	0.4189	0.03716
2600	2.434	0.4189	0.03716
2700	2.434	0.4189	0.03716
2800	2.434	0.4189	0.03716
2900	2.434	0.4189	0.03716
3000	2.434	0.4189	0.03716
3100	2.434	0.4189	0.03716
3200	2.434	0.4189	0.03716
3300	2.434	0.4189	0.03716
3400	2.434	0.4189	0.03716
3500	2.434	0.4189	0.03716
3600	2.434	0.4189	0.03716
3700	2.434	0.4189	0.03716
3800	2.434	0.4189	0.03716

RAMP PROFILE

R= 4 A= 11 PERIOD= 3817

R= 0.3948 A= 0.0000

TUR	PER	CPS	ANG V
-0	2.533	0.3948	0.03571
100	2.533	0.3948	0.03571
200	2.533	0.3948	0.03571
300	2.533	0.3948	0.03571
400	2.533	0.3948	0.03571

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500	2.533	0.3948	0.03571
600	2.533	0.3948	0.03571
700	2.533	0.3948	0.03571
800	2.533	0.3948	0.03571
900	2.533	0.3948	0.03571
1000	2.533	0.3948	0.03571
1100	2.533	0.3948	0.03571
1200	2.533	0.3948	0.03571
1300	2.533	0.3948	0.03571
1400	2.533	0.3948	0.03571
1500	2.533	0.3948	0.03571
1600	2.533	0.3948	0.03571
1700	2.533	0.3948	0.03571
1800	2.533	0.3948	0.03571
1900	2.533	0.3948	0.03571
2000	2.533	0.3948	0.03571
2100	2.533	0.3948	0.03571
2200	2.533	0.3948	0.03571
2300	2.533	0.3948	0.03571
2400	2.533	0.3948	0.03571
2500	2.533	0.3948	0.03571
2600	2.533	0.3948	0.03571
2700	2.533	0.3948	0.03571
2800	2.533	0.3948	0.03571
2900	2.533	0.3948	0.03571
3000	2.533	0.3948	0.03571
3100	2.533	0.3948	0.03571
3200	2.533	0.3948	0.03571
3300	2.533	0.3948	0.03571
3400	2.533	0.3948	0.03571
3500	2.533	0.3948	0.03571
3600	2.533	0.3948	0.03571
3700	2.533	0.3948	0.03571
3800	2.533	0.3948	0.03571

RAMP PROFILE

R= 5 A= 11 PERIOD= 3817

R= 0.3789 A= 0.0000

TUR	PER	CPS	ANG V
-0	2.639	0.3789	0.03427
100	2.639	0.3789	0.03427
200	2.639	0.3789	0.03427
300	2.639	0.3789	0.03427
400	2.639	0.3789	0.03427
500	2.639	0.3789	0.03427
600	2.639	0.3789	0.03427
700	2.639	0.3789	0.03427
800	2.639	0.3789	0.03427
900	2.639	0.3789	0.03427
1000	2.639	0.3789	0.03427
1100	2.639	0.3789	0.03427

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1200	2.639	0.3789	0.03427
1300	2.639	0.3789	0.03427
1400	2.639	0.3789	0.03427
1500	2.639	0.3789	0.03427
1600	2.639	0.3789	0.03427
1700	2.639	0.3789	0.03427
1800	2.639	0.3789	0.03427
1900	2.639	0.3789	0.03427
2000	2.639	0.3789	0.03427
2100	2.639	0.3789	0.03427
2200	2.639	0.3789	0.03427
2300	2.639	0.3789	0.03427
2400	2.639	0.3789	0.03427
2500	2.639	0.3789	0.03427
2600	2.639	0.3789	0.03427
2700	2.639	0.3789	0.03427
2800	2.639	0.3789	0.03427
2900	2.639	0.3789	0.03427
3000	2.639	0.3789	0.03427
3100	2.639	0.3789	0.03427
3200	2.639	0.3789	0.03427
3300	2.639	0.3789	0.03427
3400	2.639	0.3789	0.03427
3500	2.639	0.3789	0.03427
3600	2.639	0.3789	0.03427
3700	2.639	0.3789	0.03427
3800	2.639	0.3789	0.03427

RAMP PROFILE

R= 6 A= 11 PERIOD= 3817

R= 0.3625 A= 0.0000

TUR	PER	CPS	ANG V
-0	2.759	0.3625	0.03279
100	2.759	0.3625	0.03279
200	2.759	0.3625	0.03279
300	2.759	0.3625	0.03279
400	2.759	0.3625	0.03279
500	2.759	0.3625	0.03279
600	2.759	0.3625	0.03279
700	2.759	0.3625	0.03279
800	2.759	0.3625	0.03279
900	2.759	0.3625	0.03279
1000	2.759	0.3625	0.03279
1100	2.759	0.3625	0.03279
1200	2.759	0.3625	0.03279
1300	2.759	0.3625	0.03279
1400	2.759	0.3625	0.03279
1500	2.759	0.3625	0.03279
1600	2.759	0.3625	0.03279
1700	2.759	0.3625	0.03279
1800	2.759	0.3625	0.03279

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1900	2.759	0.3625	0.83279
2000	2.759	0.3625	0.83279
2100	2.759	0.3625	0.83279
2200	2.759	0.3625	0.83279
2300	2.759	0.3625	0.83279
2400	2.759	0.3625	0.83279
2500	2.759	0.3625	0.83279
2600	2.759	0.3625	0.83279
2700	2.759	0.3625	0.83279
2800	2.759	0.3625	0.83279
2900	2.759	0.3625	0.83279
3000	2.759	0.3625	0.83279
3100	2.759	0.3625	0.83279
3200	2.759	0.3625	0.83279
3300	2.759	0.3625	0.83279
3400	2.759	0.3625	0.83279
3500	2.759	0.3625	0.83279
3600	2.759	0.3625	0.83279
3700	2.759	0.3625	0.83279
3800	2.759	0.3625	0.83279

RAMP PROFILE

R= 7 A= 11 PERIOD= 3817

R= 0.3461 A= 0.8888

TUR	PER	CPS	ANG V
-0	2.889	0.3461	0.83138
100	2.889	0.3461	0.83138
200	2.889	0.3461	0.83138
300	2.889	0.3461	0.83138
400	2.889	0.3461	0.83138
500	2.889	0.3461	0.83138
600	2.889	0.3461	0.83138
700	2.889	0.3461	0.83138
800	2.889	0.3461	0.83138
900	2.889	0.3461	0.83138
1000	2.889	0.3461	0.83138
1100	2.889	0.3461	0.83138
1200	2.889	0.3461	0.83138
1300	2.889	0.3461	0.83138
1400	2.889	0.3461	0.83138
1500	2.889	0.3461	0.83138
1600	2.889	0.3461	0.83138
1700	2.889	0.3461	0.83138
1800	2.889	0.3461	0.83138
1900	2.889	0.3461	0.83138
2000	2.889	0.3461	0.83138
2100	2.889	0.3461	0.83138
2200	2.889	0.3461	0.83138
2300	2.889	0.3461	0.83138
2400	2.889	0.3461	0.83138
2500	2.889	0.3461	0.83138

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2600	2.889	0.3461	0.03138
2700	2.889	0.3461	0.03138
2800	2.889	0.3461	0.03138
2900	2.889	0.3461	0.03138
3000	2.889	0.3461	0.03138
3100	2.889	0.3461	0.03138
3200	2.889	0.3461	0.03138
3300	2.889	0.3461	0.03138
3400	2.889	0.3461	0.03138
3500	2.889	0.3461	0.03138
3600	2.889	0.3461	0.03138
3700	2.889	0.3461	0.03138
3800	2.889	0.3461	0.03138

RAMP PROFILE

R= 8 A= 11 PERIOD= 3817

R= 0.3290 A= 0.0000

TUR	PER	CPS	ANG V
-R	3.040	0.3290	0.02976
100	3.040	0.3290	0.02976
200	3.040	0.3290	0.02976
300	3.040	0.3290	0.02976
400	3.040	0.3290	0.02976
500	3.040	0.3290	0.02976
600	3.040	0.3290	0.02976
700	3.040	0.3290	0.02976
800	3.040	0.3290	0.02976
900	3.040	0.3290	0.02976
1000	3.040	0.3290	0.02976
1100	3.040	0.3290	0.02976
1200	3.040	0.3290	0.02976
1300	3.040	0.3290	0.02976
1400	3.040	0.3290	0.02976
1500	3.040	0.3290	0.02976
1600	3.040	0.3290	0.02976
1700	3.040	0.3290	0.02976
1800	3.040	0.3290	0.02976
1900	3.040	0.3290	0.02976
2000	3.040	0.3290	0.02976
2100	3.040	0.3290	0.02976
2200	3.040	0.3290	0.02976
2300	3.040	0.3290	0.02976
2400	3.040	0.3290	0.02976
2700	3.040	0.3290	0.02976
2500	3.040	0.3290	0.02976
2800	3.040	0.3290	0.02976
2600	3.040	0.3290	0.02976
2900	3.040	0.3290	0.02976
3000	3.040	0.3290	0.02976
3100	3.040	0.3290	0.02976
3200	3.040	0.3290	0.02976

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3300 3.040 0.3290 0.02976
 3400 3.040 0.3290 0.02976
 3500 3.040 0.3290 0.02976
 3600 3.040 0.3290 0.02976
 3700 3.040 0.3290 0.02976
 3800 3.040 0.3290 0.02976

CLOCK SUMMARY

SYS TIME I/P		ORDER FIT 1 CL TIME I/P		COMP SYS TM	DELTA ST	REV	STA
0.385114380	05	0.1571769910	06	0.3851143740	05	0.0006	9
0.779639780	05	0.1966295390	06	0.7796398060	05	-0.0026	16
0.332198180	05	0.2382853730	06	0.3321980950	05	0.0005	24
0.781216510	05	0.2831872340	06	0.7812166500	05	-0.0140	32
0.333876830	05	0.3248532550	06	0.3338768890	05	0.0021	48
0.728721680	05	0.3643377390	06	0.7287216810	05	0.0079	47
0.335198760	05	0.4113846680	06	0.3351987530	05	0.0007	56
0.729926410	05	0.4508582290	06	0.7299263950	05	0.0015	63
0.336449480	05	0.4979105530	06	0.3364495780	05	-0.0098	72
0.730442930	05	0.4389760000	03	0.7304428800	05	0.0050	79

A0=-0.11866553440 06 A1= 0.999998779240 08
 SIGMA=0.00651 NO. POINTS= 10
 RATIO OF CLOCK TIME TO SYS TIME= 0.100000012000 01

SYS TIME I/P		ORDER FIT 2 CL TIME I/P		COMP SYS TM	DELTA ST	REV	STA
0.385114380	05	0.1571769910	06	0.3851143730	05	0.0007	9
0.779639780	05	0.1966295390	06	0.7796398050	05	-0.0025	16
0.332198180	05	0.2382853730	06	0.3321980950	05	0.0005	24
0.781216510	05	0.2831872340	06	0.7812166510	05	-0.0141	32
0.333876830	05	0.3248532550	06	0.3338768100	05	0.0020	48
0.728721680	05	0.3643377390	06	0.7287216820	05	0.0070	47
0.335198760	05	0.4113846680	06	0.3351987540	05	0.0006	56
0.729926410	05	0.4508582290	06	0.7299263950	05	0.0015	63
0.336449480	05	0.4979105530	06	0.3364495770	05	-0.0097	72
0.730442930	05	0.4389760000	03	0.7304428780	05	0.0052	79

A0=-0.11866553510 06 A1= 0.999998819730 08
 A2=-0.58319808886560-14
 SIGMA=0.00651 NO. POINTS= 10

CLOCK OPERATIONS

FWD PAN CAMERA NUMBER 186

OPN NO	FR		H	M	S	DEC	BINARY
1	3	0	12	ON	23	1	0 115126 00110110111001010111011110000
				OFF	23	1	38 115164 00110110111010100001101100000
2	3	1	36	ON	0	26	34 120260 00111001010110000010110100000
				OFF	0	28	24 120370 00111001011001011001101010000
4	4	1	36	ON	3	26	9 131034 00111110011110110101110010000
				OFF	3	28	2 131147 00111110100010010010011111000

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5 8 1 88	ON	5 17 9	137695	01000001101010000111100011000
	OFF	5 21 2	137928	01000001110001001110101000000
6 4 1 131	ON	6 34 16	142322	01000001110111010100101010000
	OFF	6 48 38	142704	01000100000010111110110000000
8 6 1 14	ON	9 27 17	152703	01001000110100001000000011000
	OFF	9 27 59	152745	01001000110101011010000101000
8 6 2 68	ON	9 38 42	152988	01001000111010011000011100000
	OFF	9 33 38	153084	01001000111111110000001100000
9 3 2 15	ON	10 48 29	157095	01001010111010001010001011000
	OFF	10 41 15	157141	01001010111011100100000001000
9 3 1 31	ON	10 53 26	157871	01001011010001110101110011000
	OFF	10 54 59	157964	010010110101001010101101100000
9 3 2 12	ON	11 3 57	158502	01001011100101000110001110000
	OFF	11 4 34	158539	010010111001100011100011111000
10 3 1 39	ON	12 38 24	164169	01001110010010000010100101000
	OFF	12 40 19	164284	010011100101011000011001100000
11 4 1 32	ON	14 10 25	169691	0101000011101010001110111000
	OFF	14 11 59	169785	01010000111101011011010101000
13 8 1 42	ON	17 18 23	180969	01010110010010101111000101000
	OFF	17 20 28	181094	01010110010110100011001110000
14 9 1 48	ON	18 52 32	186617	01011000111111000110010101000
	OFF	18 54 54	186759	01011001000011011011101011000
16 9 2 13	ON	21 38 15	196561	01011011011110100100001101000
	OFF	21 38 52	196598	01011011011111011000011110000
19 8 1 33	ON	1 59 56	212262	01100101001101101110001110000
	OFF	2 1 33	212359	01100101010000101011101011000
20 3 2 12	ON	3 48 15	218761	01101000010100000011000101000
	OFF	3 48 51	218797	01101000010101001001111001000
20 3 3 13	ON	3 53 19	219064	01101000011101010011011000000
	OFF	3 53 57	219102	0110100001110011101100110000
22 5 1 60	ON	6 36 57	220002	01101101001000111011000101000
	OFF	6 39 33	220038	01101101001101101011110110000
24 5 1 15	ON	9 30 8	239266	01110010000101110100011010000
	OFF	9 30 42	239308	01110010000111000110011100000
24 5 2 106	ON	9 33 31	239477	01110010001100010000100001000
	OFF	9 38 14	239760	01110010010100111001010000000
25 9 1 14	ON	11 9 12	245210	01110100111011011101011010000
	OFF	11 9 47	245253	01110100111100100001110001000
25 9 2 47	ON	11 20 39	245904	01110101010000011001010000000
	OFF	11 22 37	246022	01110101010011111111101110000
26 2 1 29	ON	12 49 13	251219	01110111110010100110000111000
	OFF	12 50 25	251291	01110111110100110010101111000
27 8 1 16	ON	14 0 40	255506	01111001110101011011001010000
	OFF	14 1 30	255556	01111001110110111100110100000
29 8 1 70	ON	17 20 19	267485	011111111000101111111010001000
	OFF	17 23 54	267700	01111111101001100011100100000
30 5 1 77	ON	18 49 15	272820	10000010000101110011100100000
	OFF	18 52 26	273011	1000001000101101000100111000
32 7 2 14	ON	21 40 53	283119	10000111000000000110110011000
	OFF	21 41 29	283155	10000111000001001101000111000
34 5 1 30	ON	0 32 12	293397	10001011111001110001000001000

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		OFF	0	33	42	293487	10001011111100100000110011000		
35	5	1	44	ON	2	4	38	298936	10001110100010110011011000000
		OFF	2	6	41	299067	10001110100110110011001111000		
36	7	1	69	ON	3	55	6	305571	10010001101101010010010111000
		OFF	3	58	7	305752	10010001110010110011111000000		
37	7	1	24	ON	5	18	44	310590	10010100000110011101000110000
		OFF	5	19	47	310653	10010100001000011000001001000		
37	7	2	19	ON	5	21	40	310765	10010100001011110010111001000
		OFF	5	22	30	310815	10010100001101010100100011000		
37	7	3	66	ON	5	23	15	310861	10010100001110101110011001000
		OFF	5	26	6	311032	10010100010011111100011000000		
37	7	4	18	ON	5	27	20	311106	10010100010110001100111010000
		OFF	5	28	7	311153	10010100010111101000101101000		
38	3	1	14	ON	6	35	35	315200	10010110010011001001000000000
		OFF	6	36	13	315230	10010110010100010011001110000		
38	3	2	53	ON	6	43	35	315681	10010110100001110100011101000
		OFF	6	45	53	315819	100101101100110000001111111000		
38	3	3	51	ON	6	49	29	316035	10010110101100100111110111000
		OFF	6	51	40	316166	10010110110000100111101110000		
39	6	1	13	ON	8	5	48	320614	10011000111000010111001110000
		OFF	8	6	24	320650	10011000111001011101100010000		
39	6	2	13	ON	8	8	38	320763	10011000111101100001010011000
		OFF	8	9	14	320819	10011000111110100111100111000		
39	6	3	32	ON	8	11	2	320927	10011001000001111010100011000
		OFF	8	12	30	321015	10011001000100100110011011000		
40	8	1	00	ON	9	36	27	326053	10011011011110010110010001000
		OFF	9	40	0	326266	10011011100100110110010010000		
41	5	1	33	ON	11	8	52	331598	10011110000111100100010110000
		OFF	11	10	22	331680	10011110001010010100001000000		
42	3	1	52	ON	12	45	24	337389	10100000111000010010111001000
		OFF	12	47	29	337514	1010000011110000111000010000		
43	9	1	30	ON	14	2	57	342043	10100011000110010100101111000
		OFF	14	4	19	342125	10100011001000110100111001000		
43	9	2	20	ON	14	14	55	342760	10100011011100001101001000000
		OFF	14	15	51	342816	10100011011101111010100000000		
44	4	1	35	ON	15	33	38	347484	10100101101100010111101100000
		OFF	15	35	23	347589	10100101101111100100110001000		
47	2	1	27	ON	20	12	37	364223	101011011010111001101000011000
		OFF	20	13	28	364274	10101101101100110000101010000		
50	4	1	55	ON	0	33	53	379899	10110101001001100110001111000
		OFF	0	36	29	380055	10110101001100010110111011000		
50	4	2	10	ON	0	38	42	380180	10110101010010011010101100000
		OFF	0	39	12	380210	10110101010011010101010001000		
53	3	1	51	ON	5	11	54	396500	10111101000110101010010100000
		OFF	5	14	1	396707	101111010001010100010010111000		
54	4	1	38	ON	6	37	56	401742	10111111100100001100010110000
		OFF	6	39	34	401840	10111111100111001011110000000		
54	4	2	50	ON	6	41	2	401927	10111111101001110101101010000
		OFF	6	45	16	402101	10111111110001100101110001000		
55	4	1	11	ON	0	7	56	407142	11000010001000111111001110000
		OFF	0	8	8	407172	11000010001001111100111010000		

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55	4	2	85	ON	8	9	52	487257	11000010001100011111110101000
				OFF	8	13	32	487477	11000010010011001101100001000
56	5	1	62	ON	9	38	3	412549	11000100101101111111110001000
				OFF	9	40	51	412717	11000100110011000111111001000
57	4	1	31	ON	11	11	16	418141	11000111011000101001101001000
				OFF	11	12	38	418223	11000111011011001001110011000
59	2	1	24	ON	14	18	52	429397	11001100110000001010000001000
				OFF	14	20	4	429469	11001100110010010110101001000
60	2	1	20	ON	15	54	37	435143	11001111011111100000101011000
				OFF	15	55	28	435194	11001111000010001000100100000
61	8	1	56	ON	17	22	49	448434	11010010000001111101010100000
				OFF	17	25	7	448572	11010010000101001100001100000
63	9	1	38	ON	20	14	9	450714	11010101110101011001100100000
				OFF	20	15	44	450809	11010110111101100110010101000
66	6	1	37	ON	2	37	18	466504	11011110011100100100101000000
				OFF	2	39	0	466606	11011110011111010111101100000
68	6	1	47	ON	3	48	54	477520	11100011101100110000100000000
				OFF	3	43	2	477648	11100011110000101010100000000
69	4	1	65	ON	5	12	53	483039	11100110010101001011100011000
				OFF	5	15	38	483204	11100110011010001101110100000
69	4	2	26	ON	5	17	38	483316	11100110011101101000100100000
				OFF	5	18	35	483381	11100110011111100111100001000
70	2	1	13	ON	6	39	48	488246	11101000110100001010111100000
				OFF	6	40	18	488284	11101000110101001111101100000
70	2	2	12	ON	6	43	47	488493	11101000111011100111111001000
				OFF	6	44	22	488528	11101000111100101100010000000
71	2	1	22	ON	8	6	31	493457	11101011010011000111001101000
				OFF	8	7	37	493523	111010110101010010000000111000
71	2	2	23	ON	8	8	19	493565	11101011010110011010001001000
				OFF	8	9	29	493635	1110101101100010001010111000
72	5	1	17	ON	9	39	52	499058	11101101111110000010101010000
				OFF	9	40	37	499103	1110110111111101101010100011000
72	5	2	85	ON	9	41	16	499142	11101110000000100110101110000
				OFF	9	44	56	499362	11101110000111010100011010000
73	2	1	31	ON	11	2	37	504022	11110000010101100001111110000
				OFF	11	4	6	504111	11110000011000001111110011000
73	2	2	31	ON	11	12	56	504642	11110000101000011100111010000
				OFF	11	14	26	504732	11110000101011001100101100000
74	9	1	34	ON	12	35	10	509575	11110010111110111111101011000
				OFF	12	36	56	509681	11110011000010001110101101000
75	2	1	25	ON	14	7	5	515090	11110101100111010011001010000
				OFF	14	8	19	515164	11110101101001100011101100000
79	6	1	19	ON	20	16	7	361	00000000010110000010001010000
				OFF	20	16	57	411	00000000011001000101011110000
80	2	1	6	ON	22	8	58	6652	00000011001011000000001100000
				OFF	22	1	30	6684	00000011001011111110101100000

CLOCK OPERATIONS

AFT PAN CAMERA NUMBER 187

OPN NO FR H M S DEC BINARY

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1	3	0	13	ON	23	1	12	115138	00110110110011011011010000
				OFF	23	1	50	115176	0011011011010111001001000000
2	3	1	36	ON	0	26	46	120272	0011100101011001101001000000
				OFF	0	28	36	120382	00111001011001110001000110000
4	4	1	36	ON	3	26	21	131046	00111110011111001101001110000
				OFF	3	28	14	131159	00111110100010101001111011000
5	8	1	80	ON	5	17	21	137707	0100000110101001111011111000
				OFF	5	21	14	137940	01000001110001100110000100000
6	4	1	131	ON	6	34	28	142334	0100001111011110110000110000
				OFF	6	40	50	142716	01000100000011010110001100000
8	6	1	14	ON	9	27	29	152715	01001000110100011111011111000
				OFF	9	28	11	152757	01001000110101110001100001000
8	6	2	60	ON	9	30	54	152920	0100100011101010111111000000
				OFF	9	33	50	153096	010010010000000000111101000000
9	3	0	15	ON	10	40	41	157107	01001010111010100001100111000
				OFF	10	41	27	157153	01001010111011110111011101000
9	3	1	31	ON	10	53	38	157003	01001011010010001101001111000
				OFF	10	55	11	157976	010010110101010100001011000000
9	3	2	12	ON	11	4	9	150515	01001011100101011111100111000
				OFF	11	4	46	150552	01001011100110100111111000000
10	3	1	39	ON	12	30	36	164102	01001110010010011011111100000
				OFF	12	40	31	164297	01001110010101111100100101000
11	4	1	32	ON	14	10	37	169703	01010000111010111011001011000
				OFF	14	12	11	169797	0101000011101110010110001000
13	8	1	43	ON	17	10	35	180901	01010110010011000110100001000
				OFF	17	20	40	181106	010101100101101110101010101000
14	9	1	40	ON	18	52	44	186630	01011000111110111111011100000
				OFF	18	55	6	186772	01011001000011110101000100000
16	9	0	13	ON	21	30	27	196573	0101101101110111011101101001000
				OFF	21	39	4	196610	01011011100000000011110100000
19	8	1	33	ON	2	0	8	212274	01100101011100001011010100000
				OFF	2	1	45	212371	01100101010001000011000111000
20	3	2	13	ON	3	40	27	210773	01101000010100011011000001000
				OFF	3	49	3	210009	01101000010101100001010101000
20	3	3	14	ON	3	53	31	219076	0110100001101101010110100000
				OFF	3	54	9	219114	01101000011101101010000100000
22	5	1	61	ON	6	37	9	220894	0110110100100101010100110000
				OFF	6	39	45	220050	01101101001110000011010010000
24	5	1	15	ON	9	30	12	239270	01110010000110001011110110000
				OFF	9	30	54	239320	01110010000111011101111000000
24	5	2	106	ON	9	33	43	239409	01110010001100100111111010000
				OFF	9	38	26	239772	01110010010101010000101100000
25	9	1	14	ON	11	9	24	245230	01110100111011110100110110000
				OFF	11	9	59	245265	01110100111100111001001101000
25	9	2	40	ON	11	20	51	245917	01110101010000110010101001000
				OFF	11	22	49	246035	01110101010100011001000111000
26	2	1	29	ON	12	49	25	251231	01110111110010111101100011000
				OFF	12	50	37	251303	01110111110101001010001011000
27	8	1	16	ON	14	0	52	255510	01111001110101110010100110000
				OFF	14	1	42	255560	01111001110111010100010000000
29	8	1	70	ON	17	20	31	267497	01111111100011010111000101000

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			OFF	17	24	6	267712	011111111010111110110000000000
30	5	1	78	ON	18	49	272833	100000100001100011001111010000
			OFF	18	52	38	273024	100000100011000000100000000000
32	7	8	14	ON	21	41	5283131	100001110000000111100011110000
			OFF	21	41	41	283167	100001110000011001001000110000
34	5	1	31	ON	8	32	24293410	100010111110100010100110100000
			OFF	8	33	54	293500	1000101111100111010001100000
35	5	1	45	ON	2	4	42298948	100011101000110010101101000000
			OFF	2	6	53	299079	100011101001110010101010110000
36	7	1	70	ON	3	55	18305583	100100011011011010011100110000
			OFF	3	58	19	305764	100100011100110010101010100000
37	7	1	24	ON	5	18	56310602	100101000001101101001000100000
			OFF	5	19	59	310665	100101000010001011111000101000
37	7	2	19	ON	5	21	52310778	100101000011000011000100010000
			OFF	5	22	42	310820	100101000011011011011111000000
37	7	3	67	ON	5	23	27310873	100101000011110001011101010000
			OFF	5	26	18	311044	100101000010100010011110100000
37	7	4	18	ON	5	27	32311118	100101000010110100100010110000
			OFF	5	28	19	311165	1001010000100000000000001001000
38	3	1	15	ON	6	35	47315213	100101100100111000100110010000
			OFF	6	36	25	315251	100101100101001011001001110000
38	3	2	53	ON	6	43	47315693	100101101000100010111110010000
			OFF	6	46	5	315831	100101101001100110010110110000
38	3	3	51	ON	6	49	41316047	100101101011001111110100110000
			OFF	6	51	52	316170	100101101100001111110010100000
39	6	1	14	ON	8	6	8320626	100110001110001011101010100000
			OFF	8	6	36	320662	100110001110011101001111100000
39	6	2	14	ON	8	8	50320795	100110001111011110001011110000
			OFF	8	9	26	320831	100110001111101111110000110000
39	6	3	34	ON	8	11	14320940	100110010000100100111111000000
			OFF	8	12	42	321020	100110010001001111111101000000
40	8	1	80	ON	9	36	39326065	100110110111101011011011010000
			OFF	9	40	12	326278	100110111001010011010111000000
41	5	1	33	ON	11	9	4331610	100111100001111110111100100000
			OFF	11	10	34	331700	100111100010101010111001000000
42	3	1	52	ON	12	45	36337401	101000001110001010100101010000
			OFF	12	47	41	337526	101000001111000111100111100000
43	9	1	31	ON	14	3	9342055	101000110001101011000010110000
			OFF	14	4	31	342137	101000110010010011000101010000
43	9	2	21	ON	14	15	7342773	101000110111001001101000010000
			OFF	14	16	3	342829	101000110111100100111110010000
44	4	1	36	ON	15	33	50347496	101001011011001011110010000000
			OFF	15	35	35	347601	101001011011111111000011010000
47	2	1	21	ON	20	12	49364235	101011011010111001000111111000
			OFF	20	13	40	364286	101011011011010010000001100000
50	4	1	55	ON	0	34	5379911	101101010010011111010101010000
			OFF	0	36	41	380067	1011010100110101110010111000
50	4	2	18	ON	0	38	54380200	1011010100101100100010000000
			OFF	0	39	24	380230	1011010100111011001011100000
53	3	1	51	ON	5	12	6396592	101111010001110000011100000000
			OFF	5	14	13	396719	101111010010101110011100110000

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54	4	1	38	ON	6	38	8	401754	10111111100100100011110010000
				OFF	6	39	46	401852	10111111100111100011001100000
54	4	2	99	ON	6	41	14	401940	10111111101010001111000100000
				OFF	6	45	28	402194	1011111111000111111110010100000
55	4	1	11	ON	8	8	8	407154	1100001000100101010101010100000
				OFF	8	8	30	407184	1100001000101001000101000000000
55	4	2	86	ON	8	10	4	407269	110000100011001101110100010000
				OFF	8	13	44	407489	110000100100111001001111010000
56	5	1	63	ON	9	38	15	412561	110001001011100101110011010000
				OFF	9	41	3	412729	1100010011001101111110101010000
57	4	1	31	ON	11	11	20	418153	110001101100100000100001010000
				OFF	11	12	50	418235	1100011011011011000010011110000
59	2	1	24	ON	14	19	4	429409	110011001100001000010111010000
				OFF	14	20	16	429481	110011001100101011100001010000
60	2	1	21	ON	15	54	49	435155	11001110111111110000001110000
				OFF	15	55	40	435206	11001111000010110111011100000
61	8	1	56	ON	17	23	1	440446	11010010000001010110000110000
				OFF	17	25	19	440504	11010010000101100011101000000
63	9	1	30	ON	20	14	21	450727	110101101110110001100010110000
				OFF	20	15	56	450822	110101101111011111111011100000
66	6	1	30	ON	0	37	30	466516	11011100111001111000001000000
				OFF	0	39	12	466618	110111010000000000110100100000
68	6	1	47	ON	3	41	6	477532	11100011011010001111011000000
				OFF	3	43	14	477660	11100011100010000011011000000
69	4	1	67	ON	5	13	5	483051	111001100101011000101111110000
				OFF	5	15	50	483216	1110011001101010010101000000000
69	4	2	26	ON	5	17	42	483320	1110011001111000000000000000000
				OFF	5	18	47	483393	11100110011111111111101111010000
70	2	1	14	ON	6	39	52	488250	111010001101000111001110100000
				OFF	6	40	30	488296	1110100011010110011100100000000
70	2	2	13	ON	6	43	59	488505	1110100011101111111110101010000
				OFF	6	44	34	488540	1110100011110100001110110000000
71	2	1	22	ON	8	6	43	493469	11101010100110111101010010000
				OFF	8	7	49	493535	1110101010101010111111000110000
71	2	2	24	ON	8	8	31	493577	111010101010101100011001010000
				OFF	8	9	41	493647	111010101100011101001001110000
72	5	1	17	ON	9	40	4	499070	11101101111100110100001100000
				OFF	9	40	49	499115	1110110111111111100011111110000
72	5	2	86	ON	9	41	28	499154	111011100000001111100010100000
				OFF	9	45	8	499374	111011100001111010111101100000
73	2	1	32	ON	11	2	49	504034	111100000101011110010110100000
				OFF	11	4	18	504123	111100000110001001110011110000
73	2	2	32	ON	11	13	8	504654	111100001010001101000101100000
				OFF	11	14	38	504744	1111000010101110010000100000000
74	9	1	35	ON	12	35	22	509500	111100101111110110010001000000
				OFF	12	37	8	509694	111100110000101010000001100000
75	2	1	25	ON	14	7	17	515103	111101010011110110010001100000
				OFF	14	8	31	515177	111101011010011111010001010000
79	6	1	20	ON	20	16	19	374	00000000010110110100111100000
				OFF	20	17	9	424	00000000011001111000010000000
80	2	1	7	ON	22	1	10	6664	00000011001011010111101000000

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OFF 22 1 42 6696 000000110011000010110001000000

NOTE - TLM DATA INDICATE THAT ALL OPERATIONS AFTER REV 5 WERE RUNNING AT A CONSTANT RATE DUE TO FAILURE OF THE V/H PROGRAMMER. THE CAUSE OF FAILURE IS UNDETERMINED AT PRESENT.

NOTE - THE PRESSURE MAKE-UP SYSTEM DEVELOPED A LEAK AT LAUNCH. AT APPROXIMATELY REV 30 ALL OF THE GAS WAS DEPLETED. ALL SUBSEQUENT OPERATIONS WILL NOT HAVE PRESSURE MAKE-UP.

NOTE - OPERATION 80-2-1 ACTUALLY CONSISTED OF FIVE MORE FRAMES THAN WAS REPORTED. THESE FRAMES WILL BE INCLUDED IN THE B BUCKET.

NOTE - EXCEPT FOR THE ABOVE, TLM DATA INDICATE NORMAL SYSTEM PERFORMANCE.

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