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4 PAGES
(NOT INCLUDING PEST)

CORONA J-FLIGHT DATA BOOK

SYSTEM NO. J-39

VEHICLE NO. 1635

MISSION NO. 1839-2

CAMERA NOS. 286/287

DATE 83-86-67

PAGE 1

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on NOV 26 1997

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SYSTEM NO. J-39
VEHICLE NO. 1635
MISSION NO. 1839-2
CAMERA NOS. 286/287

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SYSTEM NO. J-39
VEHICLE NO. 1635
MISSION NO. 1839-2
CAMERA NOS. 286/287

GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 286

SLAVE CAMERA SERIAL NO. 287

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

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

LAUNCH DATE 82-22-67

REACTIVATION DATE N/A

REACTIVATION ORBIT N/A

ORBITAL PARAMETERS (REV. 122)

PERIOD 89.857 MIN

ECCENTRICITY 0.81441

PERIGEE 98.285 NM

PERIGEE LAT. 47.979

APOGEE 281.668 NM

INCL. ANGLE 88.828

RECOVERY ORBIT NO. 177

RECOVERY DATE 83-05-67

SYSTEM NO. J-39
 VEHICLE NO. 1635
 MISSION NO. 1839-2
 CAMERA NOS. 286/287

CYCLE PERIOD DATA

V/H RAMP LEVEL	SETTING AMPLITUDE	TIME UP RAMP-SEC	---CALIBRATED---		---IN-FLIGHT---		ORBIT NO.
			CYCLE PERIOD-SEC MASTER	SLAVE	CYCLE PERIOD-SEC MASTER	SLAVE	
6	4	363	3.922	3.914	3.920	3.945	88
6	4	1945	2.213	2.233	2.235	2.233	95
6	4	2084	2.215	2.236	2.256	2.252	111
6	4	1975	2.213	2.233	2.260	2.260	127
6	4	2001	2.213	2.234	2.252	2.265	143
6	4	1964	2.213	2.233	2.203	2.245	159

NOTE

AN * OR -g INDICATES NO DATA AVAILABLE.

A. 1039-2

B. DRY

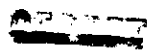
C. PERFORMANCE ESTIMATE - PART ONE

OPERATIONS SUMMARY

FWD PAN CAMERA NUMBER 286

OPN NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM
79	8 2	5 ON	2 23 8	189 45W	592368	613984	27	28	44	13	1325	74653
		OFF	2 22 28	189 39W	592992	614544	27	28	44	25	1325	74665
81	8 8	3 ON	2 51 9	161 36W	616488	638912	27	23	37	4	1258	85824
		OFF	2 49 41	161 3W	613168	635488	27	23	37	28	1253	85848
85	8 2	82 ON	2 34 52	112 28E	591488	612912	28	5	41	7	1318	28467
		OFF	2 22 15	114 28E	593744	615328	28	5	44	14	1322	28654
66	9 1	58 ON	2 73 17	63 21E	686896	711984	28	7	1	5	1114	25265
		OFF	2 65 45	75 43E	656224	688144	28	7	3	13	12 6	25393
86	9 5	17 ON	2 42 9	88 2E	597952	619696	28	7	9	16	13 1	25756
		OFF	2 39 33	88 41E	594912	616544	28	7	9	55	13 4	25795
66	9 6	53 ON	2 35 53	89 29E	591856	613376	28	7	18	58	13 8	25858
		OFF	2 27 42	98 59E	598496	611968	28	7	12	52	1316	25972
87	1 3	182 ON	2 59 28	58 17E	634888	658816	28	8	34	58	1228	38898
		OFF	2 44 9	64 58E	688488	622328	28	8	38	43	1258	31123
88	1 8	11 ON	1 38 46	113 53W	969952	1885856	28	9	45	5	2 9	35185
		OFF	1 41 48	113 11W	956112	991488	28	9	45	58	213	35158
68	9 5	84 ON	2 41 43	42 52E	596832	618528	28	18	9	17	13 8	36557
		OFF	2 28 46	45 32E	598192	611648	28	18	12	38	1314	36758
68	9 8	38 ON	2 18 18	48 7E	614928	637312	28	18	17	6	1329	37826
		OFF	2 4 18	48 49E	631744	654752	28	18	18	35	1333	37115
69	2 2	25 ON	2 23 25	23 44E	593312	614888	28	11	43	47	1318	42227
		OFF	2 19 29	24 17E	597648	619376	28	11	44	45	1321	42285
94	6 2	19 ON	2 39 45	92 29W	593824	615488	28	19	9	27	1259	68967
		OFF	2 36 44	91 48W	591728	613232	28	19	18	12	13 2	69812
95	4 1	38 ON	2 36 55	114 29W	591776	613296	28	28	48	5	13 2	74485
		OFF	2 31 1	113 29W	598512	611984	28	28	41	33	13 8	74493
98	9 1	64 ON	2 69 1	159 56E	658272	682288	1	1	1	38	1141	3698
		OFF	2 59 32	169 13E	628272	651152	1	1	4	18	1221	3858
188	9 5	75 ON	2 53 5	127 23E	611984	634176	1	4	5	48	1235	14748
		OFF	2 41 43	131 12E	594728	616336	1	4	8	31	1253	14911
181	2 2	41 ON	3 27 8	118 28E	792832	821184	1	5	55	38	1349	21338
		OFF	3 35 23	119 56E	844568	875632	1	5	57	35	1357	21455
182	4 3	78 ON	2 59 11	78 53E	625848	647888	1	7	3	56	1219	25436
		OFF	2 48 38	83 51E	682944	624888	1	7	6	37	1242	25597
182	4 6	55 ON	2 27 58	88 44E	592144	613688	1	7	11	46	13 6	25986
		OFF	2 19 34	89 59E	681312	623184	1	7	13	51	1313	26831
183	5 6	14 ON	2 47 8	61 46E	688144	621968	1	8	36	57	1244	31817
		OFF	2 44 43	62 28E	597288	618928	1	8	37	31	1247	31851
183	5 8	29 ON	2 39 55	63 44E	592728	614272	1	8	38	43	1253	31123
		OFF	2 35 14	64 46E	598624	612896	1	8	39	53	1258	31193
184	6 6	28 ON	2 14 31	45 23E	611456	633712	1	18	14	55	1316	36895
		OFF	2 18 17	45 54E	621792	644432	1	18	15	58	1319	36958
185	3 1	49 ON	2 54 21	13 39E	612328	634592	1	11	34	54	1229	41694

106	7	5	24	ON	2	32	16	2	32W	598888	612272	1	13	18	28	13	8	47428
				OFF	2	28	31	1	52W	592352	613888	1	13	11	16	13	3	47476
106	7	8	31	ON	2	18	7	8	48E	623296	645984	1	13	15	49	1318		47749
				OFF	2	5	8	1	15E	638488	661664	1	13	17	3	1322		47823
108	8	5	55	ON	3	12	11	42	8W	713136	739216	1	16	21	8	1333		58868
				OFF	3	22	21	48	48W	768968	797152	1	16	23	48	1348		59828
110	6	1	8	ON	2	69	4	111	42W	649168	672832	1	19	8	31	1133		68431
				OFF	2	67	41	189	48W	644672	668176	1	19	8	54	1141		68454
111	6	1	18	ON	2	37	8	116	37W	591232	612728	1	28	38	38	1252		74318
				OFF	2	34	5	116	1W	591872	612568	1	28	39	22	1255		74362
113	5	1	18	ON	2	71	27	176	28E	655328	679232	1	23	29	29	1114		84569
				OFF	2	68	47	179	18W	646144	669696	1	23	38	15	1133		84615
115	3	1	86	ON	2	72	48	128	29E	658224	682224	2	2	28	53	11	2	8933
				OFF	2	68	3	144	9E	628528	643128	2	2	32	28	12	9	9148
116	3	4	16	ON	2	52	41	125	38E	685344	627368	2	4	4	6	1226		14646
				OFF	2	58	8	126	31E	681392	623264	2	4	4	45	1238		14685
117	3	1	128	ON	2	67	21	92	15E	638768	662848	2	5	38	9	1139		19889
				OFF	2	43	28	184	38E	598912	628688	2	5	35	2	1233		28182
118	8	2	48	ON	2	68	14	68	28E	648888	664144	2	6	59	46	1133		25186
				OFF	2	62	14	74	41E	624176	646912	2	7	1	23	12	8	25283
118	8	4	51	ON	2	52	56	88	9E	685824	627848	2	7	3	47	1224		25427
				OFF	2	45	11	82	56E	595128	616752	2	7	5	44	1237		25544
118	8	7	48	ON	2	32	2	85	59E	592168	613696	2	7	9	8	1252		25748
				OFF	2	25	51	87	2E	597136	618848	2	7	18	32	1258		25832
119	2	1	66	ON	2	58	58	54	28E	615768	638176	2	8	32	8	1218		38728
				OFF	2	49	43	58	49E	599936	621744	2	8	34	27	1229		38867
121	9	6	41	ON	2	4	56	21	54E	647488	671888	2	11	45	17	1312		42317
				OFF	3	1	48	22	39E	673128	697696	2	11	46	55	1317		42415
122	5	1	25	ON	2	31	53	4	27W	592816	614368	2	13	8	28	1258		47388
				OFF	2	27	54	3	45W	595984	617568	2	13	9	27	1254		47367
124	7	4	28	ON	3	8	15	44	26W	785264	731848	2	16	18	7	1328		58687
				OFF	3	11	53	44	8W	723488	749952	2	16	19	1	1323		58741
124	7	7	18	ON	3	19	24	43	2W	764488	792512	2	16	28	53	1328		58853
				OFF	3	22	59	42	32W	785376	814192	2	16	21	47	1331		58987
125	5	8	11	ON	2	41	33	74	23W	592384	613928	2	17	35	37	1238		63337
				OFF	2	39	44	73	56W	591824	613344	2	17	36	4	1248		63364
127	7	2	17	ON	2	35	21	118	12W	592248	613776	2	28	36	51	1244		74211
				OFF	2	32	38	117	48W	593488	614992	2	28	37	32	1246		74252
132	4	1	77	ON	2	69	31	155	13E	636816	668832	3	8	57	35	1118		3455
				OFF	2	58	18	166	1E	618368	632576	3	1	8	34	12	4	3634
133	4	3	151	ON	2	33	28	186	31E	593488	615872	3	5	36	19	1242		28179
				OFF	2	18	16	189	54E	636416	659688	3	5	42	1	13	1	28521
134	3	4	51	ON	2	55	38	77	2E	684888	625968	3	7	8	33	12	8	25233
				OFF	2	47	58	88	13E	595824	616656	3	7	2	29	1223		25349
134	3	7	21	ON	2	31	29	84	14E	594888	616512	3	7	6	36	1243		25596
				OFF	2	28	13	84	49E	598144	619984	3	7	7	24	1246		25644
135	1	7	63	ON	2	44	8	58	47E	592416	613952	3	8	33	16	1228		38796
				OFF	2	34	33	61	3E	592784	614336	3	8	35	39	1239		38939
135	1	8	25	ON	2	38	18	61	51E	596888	617688	3	8	36	42	1244		31882
				OFF	2	26	24	62	29E	688576	622416	3	8	37	48	1247		31868

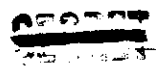


136	7	4	28	ON	2	58	33	34	4E	596888	618496	3	18	1	27	1217	36887	
				OFF	2	47	24	35	11E	594832	615632	3	18	2	15	1223	36135	
137	9	5	79	ON	2	5	2	28	5E	656144	688864	3	11	42	34	13	2	42154
				OFF	3	8	5	21	35E	713152	739232	3	11	45	49	1312	42349	
138	5	2	15	ON	2	29	14	5	46W	597696	619448	3	13	6	23	1243	47183	
				OFF	2	26	52	5	23W	688784	622544	3	13	6	58	1245	47218	
143	7	2	23	ON	2	37	45	128	26W	592288	613824	3	28	33	15	1231	73995	
				OFF	2	34	7	119	41W	594288	615888	3	28	34	9	1235	74849	
146	6	3	47	ON	2	62	47	161	18E	611472	633728	4	8	56	15	1148	3375	
				OFF	2	55	49	165	42E	688544	622384	4	8	58	3	12	8	3483
149	6	3	161	ON	2	33	29	184	58E	595584	617232	4	5	32	58	1232	19978	
				OFF	2	8	49	188	25E	649488	673888	4	5	39	4	1252	28344	
152	6	1	7	ON	1	27	22	78	32W	912192	945872	4	6	33	44	119	23624	
				OFF	1	29	8	78	15W	984176	937536	4	6	34	11	121	23651	
158	3	6	129	ON	2	47	43	78	48E	592592	614128	4	6	59	12	1213	25152	
				OFF	2	28	13	83	12E	682888	623984	4	7	4	3	1236	25443	
153	2	1	37	ON	2	29	5	15	15E	681456	623328	4	11	33	6	1234	41586	
				OFF	2	23	28	16	9E	611328	633584	4	11	34	31	1239	41671	
154	1	4	28	ON	2	26	9	6	51W	686432	628496	4	13	3	35	1236	47815	
				OFF	2	21	42	6	11W	615184	637568	4	13	4	41	1239	47881	
154	1	8	26	ON	2	8	18	4	28W	653824	677664	4	13	8	8	1258	47288	
				OFF	2	3	55	3	58W	678368	694832	4	13	9	5	1253	47345	
158	8	3	45	ON	2	22	11	96	37W	615936	638352	4	19	3	33	1237	68613	
				OFF	2	15	7	95	48W	634848	657152	4	19	5	18	1242	68718	
159	3	8	16	ON	2	38	43	122	16W	593472	615856	4	28	29	11	1228	73751	
				OFF	2	36	14	121	38W	595184	616832	4	28	29	48	1223	73788	
164	3	2	48	ON	2	67	5	118	13E	611328	633568	5	3	58	34	1111	13834	
				OFF	2	61	11	115	46E	682888	623984	5	3	52	8	1135	13928	
165	3	4	17	ON	2	43	2	181	13E	591952	613472	5	5	26	27	1211	19587	
				OFF	2	48	17	181	56E	593848	614688	5	5	27	8	1214	19628	
165	3	6	45	ON	2	23	17	185	6E	615968	638384	5	5	31	21	1231	19881	
				OFF	2	16	14	186	4E	633984	656992	5	5	33	6	1237	19986	
166	3	1	7	ON	1	27	17	79	59W	884416	917824	5	6	29	33	1	9	23373
				OFF	1	29	4	79	42W	876488	928784	5	6	38	1	111	23481	
166	9	6	52	ON	2	39	33	79	31E	593472	615856	5	6	57	2	1215	25822	
				OFF	2	31	37	81	9E	681344	623216	5	6	59	8	1223	25148	
167	9	6	58	ON	2	43	49	55	58E	591664	613168	5	8	25	41	12	9	38341
				OFF	2	34	52	57	57E	597456	619184	5	8	27	55	1219	38475	
168	4	2	52	ON	2	61	2	25	32E	688288	622128	5	9	51	8	1133	35468	
				OFF	2	53	19	29	55E	593264	614832	5	9	52	59	1152	35579	
172	4	6	15	ON	2	9	5	5	56W	659368	683488	5	13	3	24	1239	47884	
				OFF	2	6	31	5	38W	669184	693528	5	13	4	2	1241	47842	
173	8	3	98	ON	3	24	11	69	37W	827296	857712	5	17	48	46	13	2	63646
				OFF	3	45	6	65	19W	957184	992592	5	17	46	5	1324	63965	
175	9	8	16	ON	2	33	3	122	18W	688672	622512	5	28	25	55	1216	73555	
				OFF	2	38	37	121	52W	684336	626328	5	28	26	31	1219	73591	

OPERATIONS SUMMARY

AFT PAN CAMERA NUMBER 287

OPN NC FRA 3 LAT LONG HEIGHT RANGE DA H M S LTIM S-TIM



79	8	2	6	ON	2	23	6	189	49W	593872	614648	27	28	44	26	1324	74666	
				OFF	2	22	18	189	42W	593744	615328	27	28	44	38	1325	74678	
81	8	8	3	ON	2	51	9	161	39W	614488	636848	27	23	37	17	1258	85837	
				OFF	2	49	48	161	6W	611312	633552	27	23	37	41	1253	85861	
85	8	2	82	ON	2	34	58	112	18E	598968	612432	28	5	41	28	1318	28488	
				OFF	2	22	13	114	25E	594624	616256	28	5	44	27	1321	28667	
86	9	1	58	ON	2	73	22	63	5E	683536	788496	28	7	1	18	1113	25278	
				OFF	2	65	48	75	36E	653264	677888	28	7	3	26	12	5	25486
86	9	5	17	ON	2	42	8	87	59E	596864	618568	28	7	9	29	13	1	25769
				OFF	2	39	31	88	38E	594848	615648	28	7	18	8	13	4	25888
86	9	6	53	ON	2	35	51	89	27E	591344	612848	28	7	11	3	13	8	25863
				OFF	2	27	48	98	57E	598888	612272	28	7	13	5	1316	25985	
87	1	3	101	ON	2	59	29	58	13E	632336	655368	28	8	35	3	1227	38983	
				OFF	2	44	8	64	47E	599184	628976	28	8	38	56	1257	31136	
88	1	8	11	ON	1	38	14	114	6W	965872	1881632	28	9	45	18	2	8	35118
				OFF	1	41	18	113	24W	952888	987216	28	9	46	3	212	35163	
88	9	5	85	ON	2	41	42	42	49E	595792	617456	28	18	9	38	13	8	36578
				OFF	2	28	44	45	29E	598448	611928	28	18	12	43	1314	36763	
88	9	8	38	ON	2	18	18	48	3E	617184	639648	28	18	17	19	1329	37839	
				OFF	2	4	11	48	45E	634624	657744	28	18	18	48	1333	37128	
89	2	2	25	ON	2	23	22	23	41E	594168	615768	28	11	44	8	1318	42248	
				OFF	2	19	28	24	14E	598896	628672	28	11	44	58	1321	42298	
94	6	2	19	ON	2	39	43	92	32W	593128	614688	28	19	9	48	1259	68988	
				OFF	2	36	42	91	51W	591288	612768	28	19	18	25	13	2	69825
95	4	1	38	ON	2	36	53	114	31W	591344	612848	28	28	48	18	13	1	74418
				OFF	2	38	59	113	22W	598672	612144	28	28	41	46	13	8	74586
98	9	1	64	ON	2	69	4	159	48E	655392	679296	1	1	1	51	1148	3711	
				OFF	2	59	33	169	9E	626888	648888	1	1	4	23	1228	3863	
100	9	5	75	ON	2	53	5	127	28E	618112	632328	1	4	5	53	1235	14753	
				OFF	2	41	41	131	8E	593928	615528	1	4	8	44	1253	14924	
101	2	2	41	ON	3	26	51	118	21E	797584	826784	1	5	55	43	1348	21343	
				OFF	3	35	2	119	48E	858272	881568	1	5	57	48	1356	21468	
102	4	3	78	ON	2	59	12	78	58E	622888	645568	1	7	4	9	1219	25449	
				OFF	2	48	37	83	48E	681688	623472	1	7	6	58	1241	25618	
102	4	6	54	ON	2	27	56	88	41E	592688	614248	1	7	11	59	13	6	25919
				OFF	2	19	33	89	56E	682768	624688	1	7	14	4	1313	26844	
103	5	6	14	ON	2	46	58	61	43E	598976	628752	1	8	37	18	1243	31838	
				OFF	2	44	41	62	26E	596192	617872	1	8	37	44	1247	31864	
103	5	8	38	ON	2	39	53	63	42E	592168	613688	1	8	38	56	1253	31136	
				OFF	2	35	11	64	44E	598544	612816	1	8	48	6	1258	31286	
104	6	6	26	ON	2	14	38	45	28E	613472	635792	1	18	15	8	1316	36988	
				OFF	2	18	18	45	58E	624272	647888	1	18	16	11	1319	36971	
105	3	1	48	ON	2	54	21	13	36E	618568	632784	1	11	35	7	1229	41787	
				OFF	2	46	56	16	29E	598448	628288	1	11	36	59	1242	41819	
106	7	5	23	ON	2	32	14	2	34W	591856	612544	1	13	18	33	13	8	47433
				OFF	2	28	28	1	55W	592976	614528	1	13	11	29	13	3	47489
106	7	8	31	ON	2	18	7	8	36E	625824	648688	1	13	16	2	1318	47762	
				OFF	2	5	18	1	11E	641368	664728	1	13	17	16	1321	47836	
108	8	5	55	ON	3	12	2	42	5W	717712	743968	1	16	21	21	1332	58881	
				OFF	3	22	7	48	46W	774192	882592	1	16	23	53	1348	59833	
110	6	1	8	ON	2	69	6	111	49W	646528	678896	1	19	8	44	1133	68444	

	OFF	2	67	44	189	54W	642888	665472	1	19	1	7	1141	68467				
111	6	1	18	ON	2	36	57	116	48W	591872	612568	1	28	38	51	1251	74331	
	OFF	2	34	2	116	3W	591232	612728	1	28	39	35	1255	74375				
113	5	1	18	ON	2	71	38	176	18E	652592	676384	1	23	29	42	1114	84582	
	OFF	2	68	58	179	17W	643552	667888	1	23	38	28	1133	84628				
115	3	1	86	ON	2	72	43	128	18E	655488	679312	2	2	29	6	11	2	8946
	OFF	2	68	3	144	7E	618568	641888	2	2	32	33	12	8	9153			
116	3	4	16	ON	2	52	48	125	28E	683984	625872	2	4	4	19	1225	14659	
	OFF	2	58	7	126	29E	688176	622888	2	4	4	58	1238	14698				
117	3	1	127	ON	2	67	22	92	9E	636352	659536	2	5	38	22	1138	19822	
	OFF	2	48	27	184	27E	597856	619688	2	5	35	15	1232	28115				
118	8	2	48	ON	2	68	16	68	22E	638352	661616	2	6	59	59	1133	25199	
	OFF	2	62	15	74	38E	622896	644752	2	7	1	36	1159	25296				
118	8	4	51	ON	2	52	55	88	6E	683632	625584	2	7	4	8	1224	25448	
	OFF	2	45	9	82	53E	594488	616816	2	7	5	57	1237	25557				
118	8	7	48	ON	2	31	59	85	57E	592688	614144	2	7	9	13	1252	25753	
	OFF	2	25	49	86	59E	598248	628888	2	7	18	45	1258	25845				
119	2	1	68	ON	2	58	58	54	25E	613952	636384	2	8	32	21	12	9	38741
	OFF	2	49	42	58	46E	598816	628592	2	8	34	48	1229	38888				
121	9	6	48	ON	2	4	59	21	58E	658784	674416	2	11	45	38	1312	42338	
	OFF	3	1	35	22	35E	676896	781688	2	11	47	8	1317	42428				
122	5	1	25	ON	2	31	51	4	29W	593376	614944	2	13	8	41	1258	47321	
	OFF	2	27	52	3	48W	596848	618544	2	13	9	48	1254	47388				
124	7	4	28	ON	3	8	7	44	31W	789632	735568	2	16	18	28	1328	58788	
	OFF	3	11	43	44	5W	728128	754768	2	16	19	14	1322	58754				
124	7	7	18	ON	3	19	18	43	9W	769688	797888	2	16	21	6	1328	58866	
	OFF	3	22	43	42	39W	798656	819688	2	16	22	8	1331	58928				
125	5	8	11	ON	2	41	31	74	26W	592888	613688	2	17	35	58	1237	63358	
	OFF	2	39	42	73	59W	591688	613184	2	17	36	17	1248	63377				
127	7	2	17	ON	2	35	19	118	14W	592576	614128	2	28	37	4	1243	74224	
	OFF	2	32	36	117	43W	594888	615688	2	28	37	45	1246	74265				
138	4	1	77	ON	2	69	32	155	7E	634496	657616	3	8	57	48	1118	3468	
	OFF	2	58	17	165	58E	688888	638944	3	1	8	47	12	4	3647			
133	4	3	158	ON	2	33	18	186	28E	594888	615688	3	5	36	32	1242	28192	
	OFF	2	18	18	189	58E	639248	662528	3	5	42	14	13	1	28534			
134	3	4	58	ON	2	55	37	77	8E	682784	624624	3	7	8	46	12	8	25246
	OFF	2	47	56	88	18E	594336	615936	3	7	2	42	1223	25362				
134	3	7	28	ON	2	31	27	84	12E	595632	617296	3	7	6	49	1243	25689	
	OFF	2	28	12	84	46E	599232	621824	3	7	7	37	1246	25657				
135	1	7	63	ON	2	44	6	58	44E	592848	613584	3	8	33	29	1228	38889	
	OFF	2	34	31	61	1E	593296	614864	3	8	35	52	1239	38952				
135	1	8	25	ON	2	38	16	61	48E	596928	618648	3	8	36	55	1243	31815	
	OFF	2	26	23	62	27E	681872	623768	3	8	37	53	1247	31873				
136	7	4	28	ON	2	58	31	34	2E	595952	617616	3	18	1	48	1217	36188	
	OFF	2	47	22	35	9E	593448	615888	3	18	2	28	1222	36148				
137	9	5	77	ON	2	5	5	28	1E	659488	683536	3	11	42	47	13	2	42167
	OFF	3	7	56	21	38E	717568	743824	3	11	46	2	1311	42362				
138	5	2	14	ON	2	29	13	5	49W	598768	628544	3	13	6	36	1243	47196	
	OFF	2	26	58	5	26W	682888	623888	3	13	7	11	1245	47231				
143	7	2	23	ON	2	37	43	128	29W	592688	614248	3	28	33	28	1231	74888	
	OFF	2	34	5	119	43W	594968	616592	3	28	34	22	1235	74862				

146	6	3	46	ON	2	62	47	161	7E	689928	632112	4	8	56	28	1148	3388	
				OFF	2	55	48	165	48E	599488	621296	4	8	58	16	12	8	3496
149	6	3	168	ON	2	33	27	184	48E	596464	618168	4	5	33	11	1232	19991	
				OFF	2	8	52	188	21E	652512	676384	4	5	39	17	1252	28357	
150	6	1	7	ON	1	26	56	78	41W	988224	941744	4	6	33	57	118	23637	
				OFF	1	28	41	78	24W	988288	933424	4	6	34	24	120	23664	
150	3	6	128	ON	2	47	41	78	37E	592248	613776	4	6	59	25	1213	25165	
				OFF	2	28	12	83	8E	683312	625248	4	7	4	16	1236	25456	
153	2	1	37	ON	2	29	3	15	12E	682752	624672	4	11	33	19	1233	41599	
				OFF	2	23	28	16	6E	613168	635488	4	11	34	44	1238	41684	
154	1	4	28	ON	2	26	8	6	54W	688848	638176	4	13	3	48	1235	47828	
				OFF	2	21	42	6	15W	617288	639664	4	13	4	54	1239	47894	
154	1	8	26	ON	2	8	22	4	33W	657872	681848	4	13	8	13	1249	47293	
				OFF	2	4	8	4	2W	674816	698624	4	13	9	18	1252	47358	
158	8	3	45	ON	2	22	11	96	41W	617968	648464	4	19	3	46	1236	68626	
				OFF	2	15	9	95	44W	636728	659928	4	19	5	31	1242	68731	
159	3	8	16	ON	2	38	41	122	13W	594832	615632	4	28	29	24	1228	73764	
				OFF	2	36	12	121	48W	595928	617584	4	28	38	1	1223	73881	
164	3	2	48	ON	2	67	5	118	18E	689856	632848	5	3	58	47	1111	13847	
				OFF	2	61	18	115	44E	688896	622752	5	3	52	21	1135	13941	
165	3	4	17	ON	2	43	8	181	11E	592248	613768	5	5	26	48	1211	19688	
				OFF	2	48	15	181	53E	593552	615136	5	5	27	21	1214	19641	
165	3	6	45	ON	2	23	18	185	3E	617968	648464	5	5	31	34	1231	19894	
				OFF	2	16	15	186	8E	636568	659768	5	5	33	19	1237	19999	
166	3	1	7	ON	1	26	53	88	8W	888496	912968	5	6	29	46	1	8	23386
				OFF	1	28	48	79	51W	872512	984656	5	6	38	14	118	23414	
166	9	6	51	ON	2	39	31	79	29E	594864	615664	5	6	57	15	1214	25835	
				OFF	2	31	35	81	7E	682688	624528	5	6	59	13	1223	25153	
167	9	6	58	ON	2	43	46	55	48E	591936	613456	5	8	25	54	12	8	38354
				OFF	2	34	51	57	55E	598448	628288	5	8	28	8	1219	38488	
168	4	2	52	ON	2	61	1	25	38E	599264	621856	5	9	51	13	1133	35473	
				OFF	2	53	17	29	54E	592888	614352	5	9	53	12	1152	35592	
178	4	6	16	ON	2	9	18	6	1W	662672	686848	5	13	3	37	1239	47817	
				OFF	2	6	36	5	43W	672624	697168	5	13	4	15	1241	47855	
173	8	3	188	ON	3	23	52	69	45W	832688	863232	5	17	48	59	13	1	63659
				OFF	3	44	35	65	34W	962496	998128	5	17	46	18	1323	63978	
175	9	8	16	ON	2	33	2	122	21W	681968	623872	5	28	26	8	1216	73568	
				OFF	2	38	36	121	54W	685888	627848	5	28	26	44	1218	73684	

PHOTOGRAPHIC SUMMARY

FWD PAN CAMERA NO 286		8.225 SLIT W/23A		FILTER		3484 FILM						
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI			
79	8	2	5	13.2	ON	296	53.8	42.4	12.86	12.42	11.82	11.22
					OFF	296	54.4	43.1	12.86	12.42	11.82	11.22
81	8	8	3	7.9	ON	158	29.9	27.2	11.16	12.29	11.69	11.89
					OFF	158	31.3	27.6	11.16	12.31	11.71	11.11
85	8	2	82	216.9	ON	296	44.8	32.7	12.86	12.41	11.81	11.21
					OFF	296	55.1	42.8	12.86	12.42	11.82	11.22
86	9	1	58	132.2	ON	258	8.8	23.7	11.86	11.18	18.58	9.98
					OFF	275	16.8	23.8	11.95	11.87	11.27	18.67

86	9	5	17	45.8	ON	296	38.4	29.1	12.86	12.38	11.78	11.18
					OFF	296	48.7	38.2	12.86	12.39	11.79	11.19
86	9	6	53	148.2	ON	296	44.8	32.8	12.86	12.41	11.81	11.21
					OFF	296	58.9	37.1	12.86	12.42	11.82	11.22
87	1	3	182	269.8	ON	287	22.3	24.4	12.82	12.14	11.54	10.94
					OFF	296	36.7	28.2	12.86	12.36	11.76	11.16
88	1	8	11	29.1	ON	165	-49.6	35.7	11.22	8.8	8.8	8.8
					OFF	167	-47.2	33.8	11.24	8.8	8.8	8.8
88	9	5	84	222.2	ON	296	38.9	29.8	12.86	12.38	11.78	11.18
					OFF	296	58.1	35.9	12.86	12.42	11.82	11.22
88	9	8	38	188.5	ON	295	63.5	57.2	12.86	12.42	11.82	11.22
					OFF	298	66.3	68.8	12.83	12.42	11.82	11.22
89	2	2	25	66.1	ON	296	54.5	48.8	12.86	12.42	11.82	11.22
					OFF	296	57.5	44.8	12.86	12.42	11.82	11.22
94	6	2	19	58.3	ON	296	41.8	28.6	12.86	12.39	11.79	11.19
					OFF	296	43.7	38.8	12.86	12.41	11.81	11.21
95	4	1	38	188.5	ON	295	43.6	29.7	12.86	12.41	11.81	11.21
					OFF	295	48.8	33.8	12.86	12.42	11.82	11.22
98	9	1	64	169.3	ON	272	3.4	22.8	11.94	10.53	9.93	9.33
					OFF	289	22.5	22.6	12.83	12.15	11.55	10.95
102	9	5	75	198.4	ON	294	28.9	23.4	12.85	12.28	11.68	11.08
					OFF	295	39.5	26.7	12.86	12.38	11.78	11.18
101	2	2	41	188.4	ON	225	68.8	136.7	11.67	12.42	11.82	11.22
					OFF	212	53.4	144.8	11.58	12.42	11.82	11.22
102	4	3	76	185.1	ON	291	23.8	22.8	12.84	12.16	11.56	10.96
					OFF	295	33.2	24.2	12.86	12.33	11.73	11.13
102	4	6	55	145.5	ON	295	51.9	33.5	12.86	12.42	11.82	11.22
					OFF	295	58.7	41.8	12.86	12.42	11.82	11.22
103	5	6	14	37.8	ON	295	34.8	24.5	12.86	12.35	11.75	11.15
					OFF	295	36.9	25.1	12.86	12.37	11.77	11.17
103	5	8	29	76.7	ON	295	41.3	26.9	12.86	12.48	11.88	11.28
					OFF	295	45.6	29.8	12.86	12.41	11.81	11.21
104	6	6	28	74.1	ON	294	62.6	46.9	12.85	12.42	11.82	11.22
					OFF	294	65.4	53.6	12.85	12.42	11.82	11.22
105	3	1	49	129.6	ON	294	27.8	22.3	12.85	12.26	11.66	11.06
					OFF	295	34.9	24.1	12.86	12.35	11.75	11.15
106	7	5	24	63.5	ON	295	48.4	29.9	12.86	12.42	11.82	11.22
					OFF	295	51.7	32.3	12.86	12.42	11.82	11.22
106	7	8	31	82.8	ON	293	65.7	53.5	12.85	12.42	11.82	11.22
					OFF	285	68.4	63.7	12.81	12.42	11.82	11.22
108	8	5	55	145.5	ON	252	69.6	111.1	11.83	12.42	11.82	11.22
					OFF	231	64.1	131.8	11.78	12.42	11.82	11.22
113	6	1	6	21.2	ON	271	13.8	19.9	11.93	11.67	11.87	10.47
					OFF	274	14.5	19.9	11.95	11.78	11.18	10.58
111	6	1	18	47.6	ON	295	44.4	26.5	12.86	12.41	11.81	11.21
					OFF	295	47.1	27.9	12.86	12.42	11.82	11.22
113	5	1	18	47.6	ON	267	18.4	19.4	11.91	11.44	10.84	10.24
					OFF	273	13.3	19.4	11.94	11.78	11.18	10.58
115	3	1	86	227.5	ON	264	9.8	19.1	11.98	11.38	10.78	10.18
					OFF	289	22.4	19.8	12.83	12.14	11.54	10.94
116	3	4	16	42.3	ON	294	29.7	28.8	12.85	12.29	11.69	11.09

117	3	1	128	338.6	OFF	295	32.2	21.3	12.85	12.32	11.72	11.12
					ON	277	14.9	18.8	11.97	11.81	11.21	18.61
					OFF	295	33.9	21.6	12.86	12.34	11.74	11.14
118	8	2	48	185.8	ON	276	14.8	18.6	11.96	11.75	11.15	18.55
					OFF	287	28.3	19.8	12.82	12.87	11.47	18.87
118	8	4	51	134.9	ON	294	29.6	28.4	12.85	12.29	11.69	11.89
					OFF	295	37.1	22.2	12.86	12.37	11.77	11.17
118	8	7	48	185.8	ON	295	49.3	27.5	12.86	12.42	11.82	11.22
					OFF	295	54.8	31.5	12.86	12.42	11.82	11.22
119	2	1	68	158.7	ON	293	23.7	19.3	12.84	12.18	11.58	18.98
					OFF	295	32.7	28.9	12.86	12.33	11.73	11.13
121	9	6	41	188.4	ON	284	78.5	61.1	12.88	12.42	11.82	11.22
					OFF	272	72.7	88.2	11.94	12.42	11.82	11.22
122	5	1	25	66.1	ON	295	49.7	26.7	12.86	12.42	11.82	11.22
					OFF	294	53.3	29.1	12.85	12.42	11.82	11.22
124	7	4	28	52.9	ON	258	73.1	182.2	11.87	12.42	11.82	11.22
					OFF	251	71.9	113.3	11.82	12.42	11.82	11.22
124	7	7	18	47.6	ON	234	67.8	131.8	11.73	12.42	11.82	11.22
					OFF	228	65.3	137.8	11.69	12.42	11.82	11.22
125	5	8	11	29.1	ON	295	48.8	22.8	12.85	12.39	11.79	11.19
					OFF	295	42.5	22.7	12.85	12.48	11.88	11.28
127	7	2	17	45.8	ON	295	46.8	24.8	12.86	12.42	11.82	11.22
					OFF	295	49.3	25.2	12.86	12.42	11.82	11.22
132	4	1	77	283.7	ON	276	12.8	16.7	11.96	11.65	11.85	18.45
					OFF	293	24.5	17.5	12.85	12.28	11.68	11.88
133	4	3	151	399.4	ON	295	48.9	23.6	12.85	12.42	11.82	11.22
					OFF	289	68.7	46.1	12.83	12.42	11.82	11.22
134	3	4	51	134.9	ON	294	27.3	17.2	12.85	12.25	11.65	11.85
					OFF	294	34.9	18.6	12.85	12.35	11.75	11.15
134	3	7	21	55.5	ON	295	58.7	24.3	12.85	12.42	11.82	11.22
					OFF	294	53.7	26.1	12.85	12.42	11.82	11.22
135	1	7	63	166.6	ON	295	38.7	19.3	12.85	12.38	11.78	11.18
					OFF	295	47.9	22.6	12.86	12.42	11.82	11.22
135	1	8	25	66.1	ON	294	51.9	24.7	12.85	12.42	11.82	11.22
					OFF	294	55.4	27.8	12.85	12.42	11.82	11.22
136	7	4	28	52.9	ON	294	32.4	17.7	12.85	12.32	11.72	11.12
					OFF	294	35.5	18.4	12.85	12.35	11.75	11.15
137	9	5	79	289.8	ON	279	72.5	56.8	11.97	12.42	11.82	11.22
					OFF	253	75.8	183.3	11.84	12.42	11.82	11.22
138	5	2	15	39.7	ON	294	53.8	24.5	12.85	12.42	11.82	11.22
					OFF	294	55.2	25.9	12.85	12.42	11.82	11.22
143	7	2	23	68.8	ON	295	45.2	19.7	12.85	12.41	11.81	11.21
					OFF	295	48.7	21.8	12.85	12.42	11.82	11.22
146	6	3	47	124.3	ON	293	28.2	14.5	12.85	12.87	11.47	18.87
					OFF	294	27.4	15.2	12.85	12.25	11.65	11.85
149	6	3	161	425.8	ON	294	49.5	28.8	12.85	12.42	11.82	11.22
					OFF	281	71.4	43.8	11.99	12.42	11.82	11.22
152	6	1	7	18.5	ON	163	-63.8	29.9	11.28	8.8	8.8	8.8
					OFF	164	-62.2	28.2	11.21	8.8	8.8	8.8
152	3	6	129	341.2	ON	294	35.6	15.7	12.85	12.35	11.75	11.15
					OFF	294	54.6	22.2	12.85	12.42	11.82	11.22

153	2	1	37	97.9	ON	294	53.9	21.8	12.85	12.42	11.82	11.22
					OFF	294	59.3	24.4	12.85	12.42	11.82	11.22
154	1	4	28	74.1	ON	294	56.7	22.3	12.85	12.42	11.82	11.22
					OFF	293	68.9	25.3	12.85	12.42	11.82	11.22
154	1	8	26	68.8	ON	279	72.3	43.1	11.97	12.42	11.82	11.22
					OFF	278	75.2	54.7	11.93	12.42	11.82	11.22
158	8	3	45	119.8	ON	295	68.7	23.8	12.86	12.42	11.82	11.22
					OFF	294	67.1	38.5	12.85	12.42	11.82	11.22
159	3	8	16	42.3	ON	296	44.8	16.8	12.86	12.41	11.81	11.21
					OFF	296	47.2	16.8	12.86	12.42	11.82	11.22
164	3	2	48	185.8	ON	287	15.8	11.4	12.82	11.86	11.26	18.66
					OFF	294	22.1	11.6	12.85	12.13	11.53	18.93
165	3	4	17	45.8	ON	296	48.6	13.8	12.86	12.39	11.79	11.19
					OFF	296	43.4	14.4	12.86	12.41	11.81	11.21
165	3	6	45	119.8	ON	295	68.8	21.8	12.86	12.42	11.82	11.22
					OFF	294	66.6	26.8	12.85	12.42	11.82	11.22
166	3	1	7	18.5	ON	163	-64.9	24.8	11.28	8.8	8.8	8.8
					OFF	164	-63.2	23.3	11.22	8.8	8.8	8.8
166	9	6	52	137.5	ON	296	44.2	14.3	12.86	12.41	11.81	11.21
					OFF	295	52.8	16.7	12.86	12.42	11.82	11.22
167	9	6	58	153.4	ON	296	39.9	13.2	12.86	12.39	11.79	11.19
					OFF	296	48.8	15.4	12.86	12.42	11.82	11.22
168	4	2	52	137.5	ON	294	22.3	11.8	12.85	12.14	11.54	18.94
					OFF	295	38.3	11.6	12.86	12.38	11.78	11.18
173	4	6	15	39.7	ON	281	73.2	35.8	11.99	12.42	11.82	11.22
					OFF	277	75.3	48.7	11.96	12.42	11.82	11.22
173	8	3	98	259.2	ON	217	68.2	154.8	11.61	12.42	11.82	11.22
					OFF	185	47.9	166.2	11.38	12.42	11.82	11.22
175	9	8	16	42.3	ON	295	58.8	14.1	12.86	12.42	11.82	11.22
					OFF	295	53.3	14.9	12.86	12.42	11.82	11.22

PHOTOGRAPHIC SUMMARY

AFT PAN CAMERA NO 207		0.1758	SLIT	W/21	FILTER	3494 FILM						
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI			
79	8	2	6	15.9	ON	388	53.9	42.3	12.42	12.75	12.15	11.55
					OFF	388	54.5	43.8	12.42	12.75	12.15	11.55
81	8	8	3	7.9	ON	285	38.8	26.7	11.54	12.62	12.82	11.42
					OFF	285	31.3	27.1	11.54	12.64	12.84	11.44
85	8	2	82	216.9	ON	388	44.8	32.5	12.42	12.74	12.14	11.54
					OFF	388	55.1	41.9	12.42	12.75	12.15	11.55
86	9	1	58	132.2	ON	332	7.9	21.6	12.23	11.58	18.98	18.38
					OFF	354	16.8	22.8	12.32	12.28	11.68	11.88
86	9	5	17	45.8	ON	388	38.4	28.9	12.42	12.71	12.11	11.51
					OFF	388	48.8	38.8	12.42	12.72	12.12	11.52
86	9	6	53	148.2	ON	388	44.8	31.8	12.42	12.74	12.14	11.54
					OFF	388	58.9	37.8	12.42	12.75	12.15	11.55
87	1	3	181	267.1	ON	369	22.3	23.8	12.38	12.47	11.87	11.27
					OFF	379	36.7	28.8	12.42	12.69	12.89	11.49
88	1	8	11	29.1	ON	214	-58.1	35.7	11.68	8.8	8.8	8.8
					OFF	217	-47.7	33.7	11.61	8.8	8.8	8.8

~~SECRET~~

88	9	5	85	224.8	ON	388	38.9	28.7	12.42	12.71	12.11	11.51
					OFF	388	58.2	35.8	12.42	12.75	12.15	11.55
88	9	8	38	188.5	ON	378	63.5	57.1	12.41	12.75	12.15	11.55
					OFF	373	66.3	68.6	12.48	12.75	12.15	11.55
89	2	2	25	66.1	ON	388	54.6	39.9	12.42	12.75	12.15	11.55
					OFF	379	57.6	43.9	12.42	12.75	12.15	11.55
94	6	2	19	58.3	ON	388	41.1	28.4	12.42	12.72	12.12	11.52
					OFF	388	43.8	29.8	12.42	12.74	12.14	11.54
95	4	1	38	188.5	ON	376	43.6	29.5	12.41	12.74	12.14	11.54
					OFF	376	48.8	32.8	12.41	12.75	12.15	11.55
98	9	1	64	169.3	ON	347	12.8	28.5	12.29	11.99	11.39	10.79
					OFF	378	22.5	22.8	12.38	12.48	11.88	11.28
188	9	5	75	198.4	ON	374	28.9	23.8	12.48	12.61	12.81	11.41
					OFF	376	39.6	26.5	12.41	12.71	12.11	11.51
181	2	2	41	188.4	ON	289	68.2	136.5	12.83	12.75	12.15	11.55
					OFF	271	53.8	144.8	11.94	12.75	12.15	11.55
182	4	3	78	185.1	ON	372	23.8	21.4	12.39	12.49	11.89	11.29
					OFF	375	33.2	23.9	12.48	12.66	12.86	11.46
182	4	6	54	142.8	ON	376	51.9	33.4	12.41	12.75	12.15	11.55
					OFF	375	58.8	48.9	12.48	12.75	12.15	11.55
183	5	6	14	37.8	ON	376	34.8	24.2	12.48	12.68	12.88	11.48
					OFF	376	36.9	24.9	12.41	12.78	12.18	11.58
183	5	8	38	79.3	ON	376	41.4	26.7	12.41	12.73	12.13	11.53
					OFF	376	45.6	28.8	12.41	12.74	12.14	11.54
184	6	6	26	68.8	ON	374	62.7	46.7	12.48	12.75	12.15	11.55
					OFF	374	65.4	53.5	12.48	12.75	12.15	11.55
185	3	1	48	127.8	ON	374	27.8	21.9	12.48	12.59	11.99	11.39
					OFF	376	34.9	23.8	12.48	12.68	12.88	11.48
186	7	5	23	68.8	ON	376	48.5	29.8	12.41	12.75	12.15	11.55
					OFF	376	51.7	32.1	12.41	12.75	12.15	11.55
186	7	8	31	82.8	ON	373	65.7	53.3	12.48	12.75	12.15	11.55
					OFF	365	68.4	63.5	12.36	12.75	12.15	11.55
188	8	5	55	145.5	ON	324	69.7	118.8	12.19	12.75	12.15	11.55
					OFF	297	64.3	131.6	12.87	12.75	12.15	11.55
118	6	1	8	21.2	ON	348	13.8	18.6	12.29	12.88	11.48	18.88
					OFF	352	14.4	18.8	12.31	12.18	11.58	18.98
111	6	1	18	47.6	ON	378	44.5	26.3	12.41	12.74	12.14	11.54
					OFF	378	47.1	27.8	12.41	12.75	12.15	11.55
113	5	1	18	47.6	ON	343	18.3	17.8	12.27	11.77	11.17	18.57
					OFF	358	13.3	18.2	12.38	12.82	11.42	18.82
115	3	1	86	227.5	ON	348	9.8	17.3	12.26	11.63	11.83	18.43
					OFF	371	22.4	19.2	12.39	12.47	11.87	11.27
116	3	4	16	42.3	ON	376	29.8	28.4	12.41	12.62	12.82	11.42
					OFF	377	32.3	21.8	12.41	12.65	12.85	11.45
117	3	1	127	335.9	ON	356	14.9	17.8	12.33	12.14	11.54	18.94
					OFF	377	33.9	21.2	12.41	12.67	12.87	11.47
118	8	2	48	185.8	ON	354	14.8	17.5	12.32	12.87	11.47	18.87
					OFF	368	28.3	18.3	12.38	12.48	11.88	11.28
118	8	4	51	134.9	ON	376	29.6	28.8	12.41	12.62	12.82	11.42
					OFF	378	37.1	22.8	12.41	12.78	12.18	11.58
118	8	7	48	185.8	ON	378	49.4	27.4	12.41	12.75	12.15	11.55

				OFF	378	54.9	31.3	12.41	12.75	12.15	11.55
119	2	1	68	158.7 ON	375	23.8	18.7	12.40	12.51	11.91	11.31
				OFF	377	32.8	28.6	12.41	12.66	12.86	11.46
121	9	6	48	185.8 ON	363	78.5	68.8	12.36	12.75	12.15	11.55
				OFF	349	72.8	79.9	12.38	12.75	12.15	11.55
122	5	1	25	66.1 ON	376	49.7	26.6	12.41	12.75	12.15	11.55
				OFF	376	53.3	29.8	12.41	12.75	12.15	11.55
124	7	4	28	52.9 ON	331	73.1	181.7	12.22	12.75	12.15	11.55
				OFF	321	72.8	112.9	12.18	12.75	12.15	11.55
124	7	7	18	47.6 ON	381	68.8	138.8	12.89	12.75	12.15	11.55
				OFF	293	65.5	136.8	12.85	12.75	12.15	11.55
125	5	8	11	29.1 ON	376	48.8	21.8	12.41	12.72	12.12	11.52
				OFF	376	42.6	22.4	12.41	12.73	12.13	11.53
127	7	2	17	45.8 ON	376	46.8	23.8	12.41	12.75	12.15	11.55
				OFF	376	49.3	25.1	12.41	12.75	12.15	11.55
132	4	1	77	283.7 ON	354	12.7	15.4	12.32	11.98	11.38	10.78
				OFF	374	24.5	17.8	12.48	12.53	11.93	11.33
133	4	3	158	396.7 ON	376	49.8	23.4	12.41	12.75	12.15	11.55
				OFF	369	68.7	45.9	12.38	12.75	12.15	11.55
134	3	4	58	132.2 ON	374	27.3	16.8	12.48	12.58	11.98	11.38
				OFF	375	34.9	18.3	12.48	12.68	12.88	11.48
134	3	7	28	52.9 ON	376	58.8	24.1	12.41	12.75	12.15	11.55
				OFF	376	53.8	25.9	12.48	12.75	12.15	11.55
135	1	7	63	166.6 ON	376	38.7	19.1	12.41	12.71	12.11	11.51
				OFF	376	47.9	22.4	12.41	12.75	12.15	11.55
135	1	8	25	66.1 ON	376	51.9	24.5	12.41	12.75	12.15	11.55
				OFF	375	55.5	26.8	12.48	12.75	12.15	11.55
136	7	4	28	52.9 ON	375	32.5	17.4	12.48	12.65	12.85	11.45
				OFF	376	35.6	18.1	12.48	12.68	12.88	11.48
137	9	5	77	283.7 ON	356	72.5	56.5	12.33	12.75	12.15	11.55
				OFF	323	75.1	182.8	12.19	12.75	12.15	11.55
138	5	2	14	37.8 ON	374	53.8	24.4	12.48	12.75	12.15	11.55
				OFF	374	55.2	25.8	12.48	12.75	12.15	11.55
143	7	2	23	68.8 ON	375	45.2	19.5	12.48	12.74	12.14	11.54
				OFF	375	48.7	28.9	12.48	12.75	12.15	11.55
146	6	3	46	121.7 ON	372	28.2	13.8	12.39	12.48	11.88	11.28
				OFF	374	27.4	14.7	12.48	12.59	11.99	11.39
149	6	3	166	423.2 ON	375	49.5	19.8	12.48	12.75	12.15	11.55
				OFF	358	71.4	43.6	12.34	12.75	12.15	11.55
150	6	1	7	18.5 ON	218	-64.2	38.8	11.57	8.8	8.8	8.8
				OFF	211	-62.6	28.3	11.58	8.8	8.8	8.8
150	3	6	128	338.6 ON	375	35.6	15.4	12.48	12.68	12.88	11.48
				OFF	374	54.6	22.8	12.48	12.75	12.15	11.55
153	2	1	37	97.9 ON	374	53.9	28.8	12.48	12.75	12.15	11.55
				OFF	373	59.3	24.2	12.48	12.75	12.15	11.55
154	1	4	28	74.1 ON	374	56.8	22.2	12.48	12.75	12.15	11.55
				OFF	373	68.9	25.2	12.39	12.75	12.15	11.55
154	1	8	26	68.8 ON	355	72.3	42.8	12.33	12.75	12.15	11.55
				OFF	345	75.2	54.2	12.28	12.75	12.15	11.55
158	8	3	45	119.8 ON	388	68.7	23.6	12.42	12.75	12.15	11.55
				OFF	379	67.1	38.2	12.42	12.75	12.15	11.55

159	3 8	16	42.3	ON	381	44.8	15.8	12.43	12.74	12.14	11.54
				OFF	381	47.2	16.6	12.43	12.75	12.15	11.55
164	3 2	48	185.8	ON	372	15.8	18.4	12.39	12.19	11.59	18.99
				OFF	379	22.1	11.8	12.42	12.46	11.86	11.26
165	3 4	17	45.8	ON	381	48.7	13.5	12.43	12.72	12.12	11.52
				OFF	381	43.4	14.1	12.43	12.74	12.14	11.54
165	3 6	45	119.8	ON	388	68.8	28.8	12.42	12.75	12.15	11.55
				OFF	379	66.5	26.6	12.42	12.75	12.15	11.55
166	3 1	7	18.5	ON	213	-65.3	24.9	11.59	8.8	8.8	8.8
				OFF	215	-63.6	23.3	11.68	8.8	8.8	8.8
166	9 6	51	134.9	ON	381	44.2	14.1	12.43	12.74	12.14	11.54
				OFF	381	52.8	16.5	12.43	12.75	12.15	11.55
167	9 6	58	153.4	ON	381	39.9	13.8	12.43	12.72	12.12	11.52
				OFF	381	48.8	15.2	12.43	12.75	12.15	11.55
168	4 2	52	137.5	ON	379	22.3	18.4	12.42	12.47	11.87	11.27
				OFF	381	38.3	11.3	12.42	12.63	12.83	11.43
170	4 6	16	42.3	ON	364	73.1	34.7	12.36	12.75	12.15	11.55
				OFF	358	75.2	48.3	12.34	12.75	12.15	11.55
173	8 3	188	264.5	ON	281	68.5	154.7	11.99	12.75	12.15	11.55
				OFF	241	48.4	166.5	11.77	12.75	12.15	11.55
175	9 8	16	42.3	ON	381	58.9	13.9	12.43	12.75	12.15	11.55
				OFF	381	53.3	14.7	12.42	12.75	12.15	11.55

STELLAR-INDEX SUMMARY

CAMERA DATA	ET	FILM	FILTER	GRID	ASSEMBLY NO
STELLAR	1.8	3481	NONE	125	D188
INDEX	1/500	3488	W/21	125	

PERFORMANCE SUMMARY

OPN NO	FR	STEL FEET	INDX FEET	H	M	S	ON	ON	OFF	OFF	SEC			
							Q	LAT	LONG	Q	LAT	LONG	DUR	
79	8 2	1	8.18	8.28	28	44	13	2	23	189W	2	22	189W	25
85	8 2	13	1.29	2.57	5	41	7	2	34	112E	2	22	114E	288
86	9 1	8	8.79	1.58	7	1	5	2	73	63E	2	65	75E	141
86	9 5	3	8.38	8.59	7	9	16	2	42	88E	2	39	88E	52
86	9 6	8	8.79	1.58	7	18	58	2	35	89E	2	27	98E	135
87	1 3	15	1.48	2.97	8	34	58	2	59	58E	2	44	64E	246
88	1 8	2	8.28	8.48	9	45	5	1	38	113W	1	41	113W	58
88	9 5	13	1.29	2.57	18	9	17	2	41	42E	2	28	45E	286
88	9 8	6	8.59	1.19	18	17	6	2	18	48E	2	4	48E	182
69	2 2	4	8.48	8.79	11	43	47	2	23	23E	2	19	24E	71
94	6 2	3	8.38	8.59	19	9	27	2	39	92W	2	36	91W	58
95	4 1	6	8.59	1.19	28	48	5	2	36	114W	2	31	113W	181
98	9 1	18	8.99	1.98	1	1	38	2	69	159E	2	59	169E	165
100	9 5	12	1.19	2.38	4	5	48	2	53	127E	2	41	131E	184
101	2 2	6	8.59	1.19	5	55	38	3	27	118E	3	35	119E	138
102	4 3	11	1.89	2.18	7	3	56	2	59	78E	2	48	83E	174
102	4 6	9	8.89	1.78	7	11	46	2	27	88E	2	19	89E	138
103	5 6	3	8.38	8.59	8	36	57	2	47	61E	2	44	62E	47
103	5 8	5	8.49	8.99	8	38	43	2	39	63E	2	35	64E	83
104	6 6	5	8.49	8.99	18	14	55	2	14	45E	2	18	45E	76

185	3	1	8	0.79	1.58	11	34	54	2	54	13E	2	46	16E	125
186	7	5	4	0.48	0.79	13	18	28	2	32	2W	2	28	1W	69
186	7	8	5	0.49	0.99	13	15	49	2	18	8E	2	5	1E	87
188	8	5	9	0.89	1.78	16	21	8	3	12	42W	3	22	48W	165
118	6	1	2	0.28	0.48	19	8	31	2	69	111W	2	67	189W	36
111	6	1	3	0.38	0.59	28	38	38	2	37	116W	2	34	116W	57
113	5	1	3	0.38	0.59	23	29	29	2	71	176E	2	68	179W	59
115	3	1	13	1.29	2.57	2	28	53	2	72	128E	2	68	144E	228
116	3	4	3	0.38	0.59	4	4	6	2	52	125E	2	58	126E	52
117	3	1	19	1.88	3.76	5	38	9	2	67	92E	2	48	184E	386
118	8	2	6	0.59	1.19	6	59	46	2	68	68E	2	62	74E	118
118	8	4	8	0.79	1.58	7	3	47	2	52	88E	2	45	82E	138
118	8	7	7	0.69	1.39	7	9	8	2	32	85E	2	25	87E	185
119	2	1	9	0.89	1.78	8	32	8	2	58	54E	2	49	58E	152
121	9	6	7	0.69	1.39	11	45	17	2	4	21E	3	1	22E	111
122	5	1	4	0.48	0.79	13	8	28	2	31	4W	2	27	3W	72
124	7	4	4	0.48	0.79	16	18	7	3	8	44W	3	11	44W	67
124	7	7	3	0.38	0.59	16	28	53	3	19	43W	3	22	42W	67
125	5	8	2	0.28	0.48	17	35	37	2	41	74W	2	39	73W	48
127	7	2	3	0.38	0.59	28	36	51	2	35	118W	2	32	117W	54
138	4	1	12	1.19	2.38	8	57	35	2	69	155E	2	58	166E	192
133	4	3	22	2.18	4.36	5	36	19	2	33	186E	2	18	189E	355
134	3	4	8	0.79	1.58	7	8	33	2	55	77E	2	47	88E	129
134	3	7	4	0.48	0.79	7	6	36	2	31	84E	2	28	84E	61
135	1	7	18	0.99	1.98	8	33	16	2	44	58E	2	34	61E	156
135	1	8	4	0.48	0.79	8	36	42	2	38	61E	2	26	62E	71
136	7	4	4	0.48	0.79	18	1	27	2	58	34E	2	47	35E	61
137	9	5	12	1.19	2.38	11	42	34	2	5	28E	3	8	21E	288
138	5	2	3	0.38	0.59	13	6	23	2	29	5W	2	26	5W	48
143	7	2	4	0.48	0.79	28	33	15	2	37	128W	2	34	119W	67
146	6	3	8	0.79	1.58	8	56	15	2	62	161E	2	55	165E	121
149	6	3	24	2.38	4.75	5	32	58	2	33	184E	2	8	188E	379
158	6	1	1	0.18	0.28	6	33	44	1	27	78W	1	29	78W	48
158	3	6	19	1.88	3.76	6	59	12	2	47	78E	2	28	83E	384
153	2	1	6	0.59	1.19	11	33	6	2	29	15E	2	23	16E	98
154	1	4	5	0.49	0.99	13	3	35	2	26	6W	2	21	6W	79
154	1	8	4	0.48	0.79	13	8	8	2	8	4W	2	3	3W	78
158	8	3	7	0.69	1.39	19	3	33	2	22	96W	2	15	95W	118
159	3	8	3	0.38	0.59	28	29	11	2	38	122W	2	36	121W	58
164	3	2	7	0.69	1.39	3	58	34	2	67	118E	2	61	115E	187
165	3	4	3	0.38	0.59	5	26	27	2	43	181E	2	48	181E	54
165	3	6	7	0.69	1.39	5	31	21	2	23	185E	2	16	186E	118
166	3	1	1	0.18	0.28	6	29	33	1	27	79W	1	29	79W	41
166	9	6	8	0.79	1.58	6	57	2	2	39	79E	2	31	81E	131
167	9	6	9	0.89	1.78	8	25	41	2	43	55E	2	34	57E	147
168	4	2	8	0.79	1.58	9	51	8	2	61	25E	2	53	29E	132
178	4	6	3	0.38	0.59	13	3	24	2	9	5W	2	6	5W	51
173	8	3	15	1.48	2.97	17	48	46	3	24	69W	3	45	65W	332
175	9	8	3	0.38	0.59	28	25	55	2	33	122W	2	38	121W	49

NOTE - ONLY THE LAST 5 FRAMES FOR THE FWD PAN CAMERA AND THE LAST SIX FRAMES FOR THE AFT PAN CAMERA OF OPERATION 79-8-2 ARE IN THE B MISSION RECOVERY BUCKET.

NOTE - OPERATION 81-8-8 IS THE CUT AND WRAP OPERATION OCCURING AT THE A MISSION RECOVERY.

NOTE - T/M DATA OBSERVED DURING OPERATION 175-9-8 SHOWED THAT ALL OF THE FILM WAS DEPLETED FOR BOTH PAN CAMERAS PRIOR TO THIS OPERATION.

NOTE - T/M DATA INDICATE NORMAL SYSTEM PERFORMANCE FOR THE ENTIRE MISSION.

PAGE 18

A. 1839-2
 B. DRY
 C. PERFORMANCE ESTIMATE - PART TWO

RATE ESTIMATE
 FWD PAN CAMERA NUMBER 286

OPN NO	FR	R	A	TUR/ CUR	INST CPS	INST ANG-VEL	SCAN RATE R/SEC	I/SEC	PCT CALIB	RATE REQD
79	8	2	5	6	4 ON 2817	0.4424	0.83733	2.788	66.71	-2.1 -4.3
					OFF 12	0.4424	0.83733	2.779	66.71	-2.1 -4.2
81	8	8	3	6	4 ON 8	0.1224	0.81833	0.769	18.46	-2.1 -261.6
					OFF 24	0.1224	0.81833	0.769	18.46	-2.1 -263.6
85	8	2	82	6	4 ON 1859	0.4425	0.83734	2.788	66.73	-2.1 -4.5
					OFF 187	0.4423	0.83732	2.779	66.69	-2.1 -4.1
86	9	1	58	6	4 ON 1264	0.3851	0.83258	2.428	58.88	-2.1 -2.5
					OFF 128	0.4188	0.83466	2.581	61.95	-2.1 -8.9
86	9	5	17	6	4 ON 1755	0.4428	0.83729	2.777	66.65	-2.1 -3.4
					OFF 39	0.4422	0.83731	2.779	66.69	-2.1 -3.9
86	9	6	53	6	4 ON 1849	0.4425	0.83733	2.788	66.72	-2.1 -4.4
					OFF 122	0.4425	0.83734	2.781	66.73	-2.1 -4.6
87	1	3	182	6	4 ON 1496	0.4288	0.83618	2.694	64.66	-2.1 -8.1
					OFF 233	0.4418	0.83728	2.776	66.62	-2.1 -3.8
88	1	8	11	6	4 ON 317	0.2394	0.82828	1.584	36.18	-2.1 -13.4
					OFF 45	0.2394	0.82828	1.584	36.18	-2.1 -15.2
88	9	5	84	6	4 ON 1768	0.4421	0.83738	2.778	66.66	-2.1 -3.6
					OFF 193	0.4426	0.83734	2.781	66.74	-2.1 -4.7
88	9	8	38	6	4 ON 2237	0.4485	0.83717	2.768	66.43	-2.1 -8.6
					OFF 89	0.4335	0.83658	2.724	65.37	-2.1 -8.6
89	2	2	25	6	4 ON 2843	0.4423	0.83732	2.779	66.78	-2.1 -4.1
					OFF 58	0.4419	0.83729	2.777	66.64	-2.1 -3.4
94	6	2	19	6	4 ON 1814	0.4423	0.83732	2.779	66.78	-2.1 -4.1
					OFF 45	0.4425	0.83734	2.788	66.73	-2.1 -4.4
95	4	1	38	6	4 ON 1858	0.4415	0.83725	2.774	66.57	-2.3 -4.6
					OFF 88	0.4415	0.83726	2.774	66.58	-2.3 -4.8
98	9	1	64	6	4 ON 1373	0.4861	0.83427	2.552	61.24	-2.3 -1.7
					OFF 152	0.4325	0.83658	2.718	65.22	-2.3 -8.3
100	9	5	75	6	4 ON 1638	0.4397	0.83718	2.763	66.38	-2.3 -1.5
					OFF 171	0.4412	0.83723	2.772	66.54	-2.3 -4.2
101	2	2	41	6	4 ON 2828	0.3369	0.82843	2.117	58.88	-2.3 -8.4
					OFF 125	0.3164	0.82678	1.988	47.71	-2.3 -8.2
102	4	3	72	6	4 ON 1542	0.4349	0.83678	2.733	65.58	-2.3 -8.3
					OFF 161	0.4485	0.83717	2.768	66.43	-2.3 -2.8
102	4	6	55	6	4 ON 2812	0.4414	0.83724	2.773	66.56	-2.3 -4.6
					OFF 125	0.4486	0.83718	2.768	66.44	-2.3 -3.8
103	5	6	14	6	4 ON 1738	0.4487	0.83719	2.769	66.46	-2.3 -3.3
					OFF 34	0.4418	0.83721	2.771	66.58	-2.3 -3.8
103	5	8	29	6	4 ON 1836	0.4414	0.83724	2.773	66.56	-2.3 -4.5
					OFF 78	0.4415	0.83726	2.774	66.58	-2.3 -4.8
104	6	6	28	6	4 ON 2217	0.4397	0.83718	2.763	66.31	-2.3 -1.4
					OFF 63	0.4388	0.83783	2.757	66.17	-2.3 -8.2

105	3	1	49	6	4	ON	1626	0.4396	0.03709	2.762	66.29	-2.3	-1.4
						OFF	112	0.4408	0.03719	2.770	66.47	-2.3	-3.4
106	7	5	24	6	4	ON	1960	0.4415	0.03726	2.774	66.58	-2.3	-4.8
						OFF	56	0.4414	0.03724	2.773	66.56	-2.3	-4.5
106	7	8	31	6	4	ON	2289	0.4380	0.03696	2.752	66.05	-2.3	0.3
						OFF	74	0.4267	0.03601	2.681	64.35	-2.3	0.2
108	8	5	55	6	4	ON	2626	0.3763	0.03175	2.364	56.74	-2.3	-0.6
						OFF	152	0.3453	0.02913	2.169	52.87	-2.3	-1.1
110	6	1	8	6	4	ON	1367	0.4049	0.03417	2.544	61.06	-2.3	-3.5
						OFF	23	0.4094	0.03454	2.572	61.73	-2.3	-3.1
111	6	1	18	6	4	ON	1865	0.4415	0.03725	2.774	66.57	-2.3	-4.7
						OFF	44	0.4416	0.03726	2.774	66.58	-2.3	-4.7
113	5	1	18	6	4	ON	1336	0.3987	0.03364	2.505	60.13	-2.3	-4.0
						OFF	46	0.4077	0.03440	2.561	61.47	-2.3	-3.3
115	3	1	86	6	4	ON	1318	0.3953	0.03335	2.484	59.61	-2.3	-4.5
						OFF	207	0.4325	0.03649	2.717	65.22	-2.3	-1.6
116	3	4	16	6	4	ON	1641	0.4398	0.03711	2.763	66.32	-2.3	-2.6
						OFF	39	0.4403	0.03715	2.766	66.39	-2.3	-3.2
117	3	1	128	6	4	ON	1416	0.4141	0.03494	2.602	62.44	-2.3	-2.9
						OFF	293	0.4406	0.03717	2.768	66.44	-2.3	-3.5
118	8	2	40	6	4	ON	1405	0.4121	0.03477	2.589	62.14	-2.3	-3.1
						OFF	97	0.4289	0.03619	2.695	64.67	-2.3	-1.9
118	8	4	51	6	4	ON	1645	0.4399	0.03712	2.764	66.33	-2.3	-2.6
						OFF	117	0.4410	0.03721	2.771	66.50	-2.3	-4.1
118	8	7	40	6	4	ON	1959	0.4415	0.03726	2.774	66.50	-2.3	-4.5
						OFF	92	0.4412	0.03723	2.772	66.54	-2.3	-3.6
119	2	1	60	6	4	ON	1558	0.4372	0.03689	2.747	65.93	-2.3	-1.3
						OFF	139	0.4404	0.03716	2.767	66.42	-2.3	-3.4
121	9	6	41	6	4	ON	2369	0.4245	0.03582	2.667	64.01	-2.6	1.2
						OFF	98	0.4070	0.03434	2.557	61.38	-2.6	1.1
122	5	1	25	6	4	ON	1972	0.4403	0.03715	2.767	66.40	-2.6	-4.7
						OFF	59	0.4401	0.03714	2.765	66.37	-2.6	-4.1
124	7	4	20	6	4	ON	2574	0.3860	0.03257	2.425	58.20	-2.6	0.0
						OFF	54	0.3745	0.03160	2.353	56.48	-2.6	0.5
124	7	7	18	6	4	ON	2741	0.3506	0.02958	2.203	52.87	-2.6	-0.2
						OFF	54	0.3415	0.02881	2.146	51.50	-2.6	0.1
125	5	0	11	6	4	ON	1836	0.4402	0.03714	2.766	66.38	-2.6	-4.8
						OFF	27	0.4403	0.03715	2.766	66.39	-2.6	-4.9
127	7	2	17	6	4	ON	1934	0.4404	0.03716	2.767	66.40	-2.6	-4.8
						OFF	41	0.4403	0.03715	2.767	66.40	-2.6	-4.6
130	4	1	77	6	4	ON	1418	0.4133	0.03487	2.597	62.32	-2.6	-3.5
						OFF	179	0.4380	0.03696	2.752	66.05	-2.6	-2.1
133	4	3	151	6	4	ON	1983	0.4403	0.03715	2.766	66.39	-2.6	-4.5
						OFF	342	0.4315	0.03641	2.711	65.07	-2.6	1.0
134	3	4	51	6	4	ON	1652	0.4380	0.03702	2.757	66.16	-2.6	-3.0
						OFF	116	0.4398	0.03711	2.764	66.33	-2.6	-4.4
134	3	7	21	6	4	ON	2015	0.4402	0.03714	2.766	66.38	-2.6	-4.3
						OFF	48	0.4402	0.03712	2.764	66.34	-2.6	-3.7
135	1	7	63	6	4	ON	1829	0.4402	0.03714	2.766	66.37	-2.6	-4.8
						OFF	143	0.4403	0.03715	2.767	66.40	-2.6	-4.7
135	1	0	25	6	4	ON	2035	0.4401	0.03714	2.765	66.37	-2.6	-4.1

136	7	4	28	6	4	OFF	58	0.4398	0.83711	2.763	66.32	-2.6	-3.3
					4	ON	1735	0.4396	0.83789	2.762	66.29	-2.6	-4.1
						OFF	48	0.4399	0.83712	2.764	66.34	-2.6	-4.6
137	9	5	79	6	4	ON	2416	0.4165	0.83514	2.617	62.88	-2.6	0.7
						OFF	195	0.3781	0.83191	2.376	57.82	-2.6	-8.1
138	5	2	15	6	4	ON	2859	0.4399	0.83712	2.764	66.34	-2.6	-3.8
						OFF	35	0.4397	0.83718	2.763	66.31	-2.6	-3.3
143	7	2	23	6	4	ON	1946	0.4483	0.83715	2.766	66.39	-2.6	-4.8
						OFF	54	0.4482	0.83714	2.766	66.38	-2.6	-4.4
146	6	3	47	6	4	ON	1575	0.4376	0.83693	2.758	65.99	-2.6	-2.8
						OFF	188	0.4398	0.83785	2.759	66.21	-2.6	-3.6
149	6	3	161	6	4	ON	2838	0.4481	0.83713	2.765	66.36	-2.6	-4.2
						OFF	366	0.4198	0.83542	2.638	63.31	-2.6	0.4
152	6	1	7	6	4	ON	291	0.2437	0.82856	1.531	36.75	-2.6	-19.1
						OFF	27	0.2455	0.82871	1.543	37.82	-2.6	-19.3
152	3	6	129	6	4	ON	1819	0.4481	0.83713	2.765	66.36	-2.6	-4.8
						OFF	291	0.4396	0.83789	2.762	66.29	-2.6	-3.1
153	2	1	37	6	4	ON	2186	0.4396	0.83789	2.762	66.29	-2.6	-3.2
						OFF	85	0.4388	0.83783	2.757	66.17	-2.6	-1.6
154	1	4	28	6	4	ON	2152	0.4392	0.83786	2.768	66.23	-2.6	-2.4
						OFF	66	0.4385	0.83788	2.755	66.12	-2.6	-1.8
154	1	8	26	6	4	ON	2417	0.4164	0.83513	2.616	62.79	-2.6	0.3
						OFF	65	0.4843	0.83411	2.548	68.96	-2.6	0.8
158	8	3	45	6	4	ON	2178	0.4485	0.83717	2.768	66.43	-2.2	-8.4
						OFF	185	0.4392	0.83786	2.759	66.22	-2.2	2.4
159	3	8	16	6	4	ON	1927	0.4418	0.83728	2.776	66.62	-2.2	-4.2
						OFF	37	0.4418	0.83728	2.776	66.62	-2.2	-3.9
164	3	2	48	6	4	ON	1586	0.4297	0.83626	2.788	64.88	-2.2	-3.9
						OFF	94	0.4395	0.83789	2.762	66.28	-2.2	-3.2
165	3	4	17	6	4	ON	1888	0.4418	0.83728	2.776	66.62	-2.2	-4.5
						OFF	41	0.4418	0.83728	2.776	66.62	-2.2	-4.3
165	3	6	45	6	4	ON	2175	0.4485	0.83717	2.768	66.42	-2.2	-8.4
						OFF	185	0.4391	0.83785	2.759	66.21	-2.2	2.3
166	3	1	7	6	4	ON	286	0.2442	0.82861	1.534	36.83	-2.2	-22.8
						OFF	28	0.2468	0.82876	1.546	37.18	-2.2	-23.1
166	9	6	52	6	4	ON	1935	0.4418	0.83728	2.776	66.62	-2.2	-4.2
						OFF	118	0.4415	0.83725	2.774	66.57	-2.2	-2.8
167	9	6	58	6	4	ON	1876	0.4418	0.83727	2.776	66.62	-2.2	-4.5
						OFF	134	0.4417	0.83727	2.775	66.68	-2.2	-3.5
163	4	2	52	6	4	ON	1616	0.4397	0.83718	2.763	66.31	-2.2	-3.5
						OFF	119	0.4418	0.83721	2.771	66.51	-2.2	-4.4
172	4	6	15	6	4	ON	2481	0.4295	0.83548	2.642	63.41	-2.2	2.2
						OFF	38	0.4136	0.83498	2.598	62.36	-2.2	2.1
173	8	3	98	6	4	ON	2988	0.3238	0.82732	2.835	48.83	-2.2	0.4
						OFF	319	0.2767	0.82335	1.738	41.72	-2.2	8.5
175	9	8	16	6	4	ON	2861	0.4414	0.83725	2.774	66.57	-2.2	-2.9
						OFF	36	0.4412	0.83723	2.772	66.53	-2.2	-2.3

RATE ESTIMATE
AFT PAN CAMERA NUMBER 287

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG-VEL	SCAN RATE R/SEC	SCAN RATE I/SEC	PCT RATE CALIB	PCT RATE REQD		
79	8	2	6	6	4 ON	2838	8.4415	8.83726	2.774	66.58	-1.4	-4.4
					OFF	12	8.4415	8.83725	2.774	66.57	-1.4	-4.2
81	8	8	3	6	4 ON	13	8.1233	8.81848	8.775	18.59	-1.4	-268.2
					OFF	24	8.1233	8.81848	8.775	18.59	-1.4	-262.2
85	8	2	82	6	4 ON	1872	8.4416	8.83726	2.775	66.68	-1.4	-4.8
					OFF	187	8.4414	8.83724	2.773	66.56	-1.4	-4.1
86	9	1	58	6	4 ON	1277	8.3868	8.83257	2.426	58.21	-1.4	-2.8
					OFF	128	8.4113	8.83471	2.585	62.83	-1.4	-1.2
66	9	5	17	6	4 ON	1768	8.4418	8.83721	2.771	66.58	-1.4	-3.8
					OFF	39	8.4413	8.83724	2.773	66.55	-1.4	-4.3
86	9	6	53	6	4 ON	1862	8.4416	8.83726	2.775	66.59	-1.4	-4.7
					OFF	122	8.4417	8.83727	2.775	66.61	-1.4	-4.8
87	1	3	181	6	4 ON	1589	8.4291	8.83628	2.696	64.78	-1.4	-8.4
					OFF	233	8.4488	8.83719	2.769	66.47	-1.4	-3.5
88	1	8	11	6	4 ON	338	8.2411	8.82835	1.515	36.36	-1.4	-13.1
					OFF	45	8.2411	8.82835	1.515	36.36	-1.4	-15.8
88	9	5	85	6	4 ON	1781	8.4411	8.83722	2.772	66.52	-1.4	-4.8
					OFF	193	8.4417	8.83727	2.775	66.61	-1.4	-4.8
88	9	8	38	6	4 ON	2258	8.4393	8.83786	2.768	66.24	-1.4	-8.5
					OFF	89	8.4337	8.83668	2.725	65.48	-1.4	1.2
89	2	2	25	6	4 ON	2856	8.4414	8.83724	2.773	66.56	-1.4	-4.2
					OFF	53	8.4418	8.83721	2.771	66.58	-1.4	-3.4
94	6	2	19	6	4 ON	1827	8.4414	8.83725	2.774	66.57	-1.4	-4.4
					OFF	45	8.4416	8.83726	2.775	66.68	-1.4	-4.7
95	4	1	38	6	4 ON	1871	8.4372	8.83689	2.747	65.93	-2.3	-5.7
					OFF	88	8.4373	8.83698	2.748	65.95	-2.3	-5.8
98	9	1	64	6	4 ON	1386	8.4836	8.83485	2.536	68.86	-2.3	-2.8
					OFF	152	8.4294	8.83623	2.698	64.76	-2.3	-1.4
108	9	5	75	6	4 ON	1643	8.4351	8.83671	2.734	65.61	-2.3	-2.8
					OFF	171	8.4378	8.83687	2.746	65.89	-2.3	-5.3
101	2	2	41	6	4 ON	2841	8.3358	8.82833	2.118	58.64	-2.3	-8.8
					OFF	125	8.3157	8.82663	1.983	47.68	-2.3	8.7
102	4	3	78	6	4 ON	1555	8.4317	8.83643	2.713	65.18	-2.3	-1.4
					OFF	161	8.4361	8.83688	2.748	65.76	-2.3	-4.1
102	4	6	54	6	4 ON	2825	8.4372	8.83689	2.747	65.92	-2.3	-5.5
					OFF	125	8.4362	8.83681	2.741	65.78	-2.3	-3.8
103	5	6	14	6	4 ON	1743	8.4364	8.83682	2.742	65.81	-2.3	-4.5
					OFF	34	8.4367	8.83685	2.744	65.85	-2.3	-5.8
103	5	8	38	6	4 ON	1849	8.4371	8.83689	2.747	65.92	-2.3	-5.6
					OFF	78	8.4373	8.83698	2.748	65.95	-2.3	-5.8
104	6	6	26	6	4 ON	2238	8.4352	8.83672	2.734	65.62	-2.3	-2.1
					OFF	63	8.4341	8.83663	2.727	65.46	-2.3	-8.5
105	3	1	48	6	4 ON	1639	8.4358	8.83671	2.733	65.68	-2.3	-2.8
					OFF	112	8.4365	8.83683	2.742	65.82	-2.3	-4.6
106	7	5	23	6	4 ON	1973	8.4373	8.83698	2.748	65.95	-2.3	-5.7
					OFF	56	8.4371	8.83689	2.747	65.92	-2.3	-5.4
106	7	8	31	6	4 ON	2382	8.4339	8.83661	2.726	65.44	-2.3	-8.3
					OFF	74	8.4237	8.83576	2.663	63.98	-2.3	-8.8
108	8	5	55	6	4 ON	2639	8.3762	8.83175	2.364	56.74	-1.9	8.1

				OFF	152	8.3457	8.82917	2.172	52.13	-1.9	-8.3
118	6	1	8	6	4	ON	1388	8.4844	8.83413	2.541	68.99
				OFF	23	8.4888	8.83449	2.568	61.64	-1.9	-4.1
111	6	1	18	6	4	ON	1878	8.4394	8.83788	2.761	66.26
				OFF	44	8.4395	8.83788	2.761	66.28	-1.9	-5.2
113	5	1	18	6	4	ON	1349	8.3983	8.83361	2.583	68.87
				OFF	46	8.4871	8.83435	2.558	61.39	-1.9	-4.6
115	3	1	86	6	4	ON	1331	8.3958	8.83333	2.482	59.56
				OFF	287	8.4315	8.83641	2.711	65.87	-1.9	-5.8
116	3	4	16	6	4	ON	1654	8.4374	8.83691	2.749	65.96
				OFF	39	8.4388	8.83696	2.752	66.85	-1.9	-3.4
117	3	1	127	6	4	ON	1429	8.4134	8.83488	2.597	62.34
				OFF	293	8.4383	8.83699	2.754	66.18	-1.9	-3.9
118	8	2	48	6	4	ON	1418	8.4115	8.83472	2.585	62.85
				OFF	97	8.4279	8.83611	2.689	64.53	-1.9	-4.3
118	8	4	51	6	4	ON	1658	8.4375	8.83692	2.749	65.97
				OFF	117	8.4388	8.83783	2.757	66.18	-1.9	-3.4
118	8	7	48	6	4	ON	1972	8.4395	8.83788	2.761	66.27
				OFF	92	8.4391	8.83785	2.759	66.22	-1.9	-4.8
119	2	1	60	6	4	ON	1571	8.4368	8.83679	2.739	65.74
				OFF	139	8.4382	8.83697	2.753	66.88	-1.9	-3.9
121	9	6	48	6	4	ON	2382	8.4223	8.83563	2.653	63.68
				OFF	98	8.4852	8.83419	2.546	61.18	-1.9	-4.1
122	5	1	25	6	4	ON	1985	8.4369	8.83686	2.745	65.88
				OFF	59	8.4366	8.83684	2.743	65.84	-2.4	-5.4
124	7	4	28	6	4	ON	2587	8.3845	8.83245	2.416	57.99
				OFF	54	8.3733	8.83158	2.346	56.29	-2.4	-4.8
124	7	7	18	6	4	ON	2754	8.3498	8.82952	2.198	52.75
				OFF	54	8.3489	8.82876	2.142	51.48	-2.4	8.9
125	5	8	11	6	4	ON	1849	8.4367	8.83685	2.744	65.85
				OFF	27	8.4368	8.83686	2.745	65.87	-2.4	8.6
127	7	2	17	6	4	ON	1947	8.4369	8.83687	2.745	65.88
				OFF	41	8.4369	8.83686	2.745	65.88	-2.4	-5.7
132	4	1	77	6	4	ON	1431	8.4113	8.83478	2.584	62.82
				OFF	179	8.4341	8.83663	2.728	65.47	-2.4	-5.5
133	4	3	159	6	4	ON	1996	8.4368	8.83686	2.745	65.87
				OFF	342	8.4291	8.83621	2.696	64.71	-2.4	-3.3
134	3	4	58	6	4	ON	1665	8.4358	8.83678	2.733	65.68
				OFF	116	8.4363	8.83681	2.741	65.79	-2.4	-5.3
134	3	7	28	6	4	ON	2828	8.4367	8.83685	2.744	65.85
				OFF	48	8.4364	8.83683	2.742	65.81	-2.4	-5.4
135	1	7	63	6	4	ON	1842	8.4367	8.83685	2.744	65.85
				OFF	143	8.4369	8.83686	2.745	65.88	-2.4	-4.4
135	1	8	25	6	4	ON	2848	8.4366	8.83684	2.743	65.84
				OFF	58	8.4362	8.83681	2.741	65.78	-2.4	-5.7
136	7	4	28	6	4	ON	1748	8.4368	8.83679	2.739	65.75
				OFF	48	8.4364	8.83682	2.742	65.81	-2.4	-4.8
137	9	5	77	6	4	ON	2429	8.4132	8.83487	2.596	62.31
				OFF	195	8.3757	8.83178	2.361	56.66	-2.7	-3.9
138	5	2	14	6	4	ON	2872	8.4351	8.83672	2.734	65.62
				OFF	35	8.4349	8.83669	2.732	65.58	-2.7	-8.8
										-2.7	-4.8
										-2.7	-4.2

143	7	2	23	6	4	ON	1959	0.4356	0.03675	2.737	65.68	-2.7	-5.8
						OFF	54	0.4354	0.03674	2.736	65.66	-2.7	-5.4
146	6	3	46	6	4	ON	1588	0.4324	0.03648	2.717	65.28	-2.7	-3.5
						OFF	188	0.4341	0.03663	2.727	65.46	-2.7	-5.8
149	6	3	168	6	4	ON	2843	0.4353	0.03673	2.735	65.64	-2.7	-5.2
						OFF	366	0.4165	0.03514	2.617	62.88	-2.7	0.1
158	6	1	7	6	4	ON	384	0.2438	0.02858	1.532	36.77	-2.7	-19.5
						OFF	27	0.2456	0.02873	1.543	37.84	-2.7	-19.8
158	3	6	128	6	4	ON	1832	0.4353	0.03673	2.735	65.64	-2.7	-6.8
						OFF	291	0.4347	0.03668	2.731	65.55	-2.7	-4.8
153	2	1	37	6	4	ON	2119	0.4348	0.03669	2.732	65.56	-2.7	-4.1
						OFF	85	0.4338	0.03668	2.726	65.41	-2.7	-2.5
154	1	4	28	6	4	ON	2165	0.4343	0.03664	2.729	65.49	-2.7	-3.3
						OFF	66	0.4334	0.03657	2.723	65.36	-2.7	-1.8
154	1	8	26	6	4	ON	2438	0.4131	0.03486	2.596	62.29	-2.7	0.1
						OFF	65	0.4013	0.03386	2.521	60.51	-2.7	-0.1
158	8	3	45	6	4	ON	2183	0.4417	0.03727	2.776	66.61	-1.8	0.2
						OFF	185	0.4401	0.03713	2.765	66.36	-1.8	3.8
159	3	8	16	6	4	ON	1948	0.4433	0.03748	2.785	66.84	-1.8	-3.7
						OFF	37	0.4432	0.03748	2.785	66.84	-1.8	-3.4
164	3	2	48	6	4	ON	1519	0.4322	0.03647	2.715	65.17	-1.8	-3.5
						OFF	94	0.4405	0.03717	2.768	66.43	-1.8	-3.2
165	3	4	17	6	4	ON	1893	0.4432	0.03748	2.785	66.83	-1.8	-4.1
						OFF	41	0.4433	0.03748	2.785	66.84	-1.8	-3.8
165	3	6	45	6	4	ON	2188	0.4417	0.03727	2.775	66.68	-1.8	0.2
						OFF	185	0.4408	0.03712	2.764	66.35	-1.8	2.9
166	3	1	7	6	4	ON	299	0.2479	0.02891	1.557	37.37	-1.8	-21.6
						OFF	28	0.2497	0.02187	1.569	37.65	-1.8	-21.9
166	9	6	51	6	4	ON	1948	0.4433	0.03748	2.785	66.84	-1.8	-3.7
						OFF	118	0.4426	0.03737	2.783	66.78	-1.8	-2.2
167	9	6	58	6	4	ON	1889	0.4432	0.03748	2.785	66.83	-1.8	-4.1
						OFF	134	0.4431	0.03739	2.784	66.82	-1.8	-2.9
168	4	2	52	6	4	ON	1629	0.4408	0.03719	2.769	66.47	-1.8	-3.4
						OFF	119	0.4423	0.03732	2.779	66.78	-1.8	-4.2
176	4	6	16	6	4	ON	2414	0.4231	0.03578	2.658	63.88	-1.8	3.3
						OFF	38	0.4162	0.03512	2.615	62.76	-1.8	3.3
173	8	3	108	6	4	ON	2921	0.3271	0.02768	2.855	49.33	-1.8	2.1
						OFF	319	0.2882	0.02364	1.761	42.26	-1.8	2.3
175	9	8	16	6	4	ON	2874	0.4428	0.03736	2.782	66.77	-1.8	-2.3
						OFF	36	0.4425	0.03734	2.788	66.73	-1.8	-1.7

RAMP PROFILE

R= 6 A= 4 PERIOD= 3685
R= 0.3518 A= 0.8988

TUR	PER	CPS	ANG-V
0	4.142	0.2414	0.02184
100	4.138	0.2422	0.02198
200	4.078	0.2452	0.02218
300	3.998	0.2506	0.02267
400	3.871	0.2583	0.02337

588	3.729	8.2681	8.82425
688	3.573	8.2799	8.82531
788	3.418	8.2932	8.82652
888	3.246	8.3888	8.82786
988	3.887	8.3248	8.82938
1088	2.936	8.3486	8.83881
1188	2.795	8.3578	8.83236
1288	2.637	8.3793	8.83438
1388	2.496	8.4887	8.83624
1488	2.377	8.4287	8.83885
1588	2.281	8.4385	8.83966
1688	2.224	8.4496	8.84866
1788	2.218	8.4588	8.84877
1888	2.214	8.4516	8.84884
1988	2.213	8.4519	8.84887
2088	2.213	8.4518	8.84886
2188	2.216	8.4513	8.84882
2288	2.221	8.4583	8.84873
2388	2.238	8.4468	8.84841
2488	2.323	8.4384	8.83893
2588	2.438	8.4115	8.83722
2688	2.559	8.3988	8.83534
2788	2.711	8.3689	8.83337
2888	2.868	8.3497	8.83163
2988	3.885	8.3327	8.83889
3088	3.161	8.3164	8.82861
3188	3.323	8.3889	8.82722
3288	3.487	8.2868	8.82594
3388	3.648	8.2741	8.82479
3488	3.798	8.2633	8.82381
3588	3.938	8.2545	8.82381
3688	4.835	8.2478	8.82241
3788	4.187	8.2435	8.82282
3888	4.142	8.2414	8.82184

CLOCK CORRELATION SUMMARY

ORDER	FIT	ONE	SYS TIME I/P	CL TIME I/P	COMP SYS TX	DELTA ST	REV	STA
2.34649978D	85		8.54566678D	85	2.346499769D	85	-8.8869	8
8.48819263D	85		8.599359678D	85	8.488192734D	85	-8.8184	9
8.79568277D	85		8.994769818D	85	8.795682836D	85	-8.8866	16
8.34884413D	85		8.141121118D	86	8.348844166D	85	-8.8836	24
8.79663181D	85		8.185979889D	86	8.796631833D	85	-8.8823	32
8.34823858D	85		8.227539767D	86	8.348238573D	85	8.8887	48
8.74378248D	85		8.267886956D	86	8.743782424D	85	8.8856	47
8.34873864D	85		8.313998575D	86	8.348738569D	85	8.8871	56
8.79776338D	85		8.358893855D	86	8.797763326D	85	8.8854	64
8.34887757D	85		8.488484476D	86	8.348877496D	85	8.8874	72
8.74339488D	85		8.439856131D	86	8.743394888D	85	8.8872	79
8.34862653D	85		8.486779379D	86	8.348626443D	85	8.8887	88