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CRONA "J"
FLIGHT DATA BOOK
1042-2

Declassified and Released by the NRO

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-37

VEHICLE NO. 1633

MISSION NO. 1842-2

CAMERA NOS. 284/285

DATE 87-83-67

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SYSTEM NO. J-37
VEHICLE NO. 1633
MISSION NO. 1842-2
CAMERA NOS. 284/285

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SYSTEM NO. J-37
VEHICLE NO. 1633
MISSION NO. 1042-2
CAMERA NOS. 204/205

GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 204

SLAVE CAMERA SERIAL NO. 205

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

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

LAUNCH DATE 06-16-67

REACTIVATION DATE N/A

REACTIVATION ORBIT N/A

ORBITAL PARAMETERS (REV. 165)

PERIOD 89.875 MIN

ECCENTRICITY 0.01399

PERIGEE 100.635 NM

PERIGEE LAT. 250.171

APOGEE 201.010 NM

INCL. ANGLE 60.011

RECOVERY ORBIT NO. 240

RECOVERY DATE 07-01-67

SYSTEM NO. J-37
VEHICLE NO. 1633
MISSION NO. 1842-2
CAMERA NOS. 204/205

CYCLE PERIOD DATA

V/H RAMP LEVEL	SETTING AMPLITUDE	TIME UP RAMP-SEC	---CALIBRATED---		---IN-FLIGHT---		ORBIT NO.
			MASTER	SLAVE	MASTER	SLAVE	
6	3	334	4.191	4.179	4.172	4.185	89
6	3	1913	2.199	2.199	2.200	2.193	95
7	3	1885	2.211	2.211	2.238	2.244	127
6	3	1918	2.211	2.211	2.212	2.238	159
6	4	2082	2.212	2.212	2.265	2.245	191
6	4	2231	2.322	2.325	2.250	2.298	223

NOTE

AN * OR -B INDICATES NO DATA AVAILABLE.

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ESTIMATE

PAN CAMERA NUMBER 284

NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG-VEL	SCAN RATE R/SEC	I/SEC	PCT RATE CALIB	REGD
3	7	5	6	3 ON	1737	0.4497	0.83794	2.825	67.81	-0.9 -1.8
				OFF	12	0.4498	0.83795	2.826	67.83	-0.9 -1.9
8		3	6	3 ON	0	0.1293	0.81891	0.812	19.49	-0.9-128.0
				OFF	23	0.1293	0.81891	0.812	19.49	-0.9-121.6
9	3	88	6	3 ON	1497	0.4488	0.83719	2.769	66.46	-0.9 2.8
				OFF	199	0.4492	0.83798	2.822	67.74	-0.9 -1.1
9	8	29	6	3 ON	2176	0.4483	0.83783	2.817	67.68	-0.9 -0.8
				OFF	67	0.4469	0.83771	2.888	67.39	-0.9 0.7
2	8	11	6	3 ON	287	0.2326	0.81963	1.462	35.88	-0.9 -18.2
				OFF	46	0.2364	0.81994	1.485	35.64	-0.9 -18.1
5	1	35	6	3 ON	1525	0.4457	0.83761	2.888	67.21	-0.9 2.3
				OFF	88	0.4477	0.83778	2.813	67.51	-0.9 0.6
1		32	6	3 ON	2388	0.4276	0.83688	2.687	64.48	-0.9 1.8
				OFF	77	0.4114	0.83472	2.585	62.84	-0.9 0.4
1		42	6	3 ON	1828	0.4583	0.83888	2.838	67.91	-0.9 -2.6
				OFF	94	0.4586	0.83882	2.831	67.94	-0.9 -3.1
8		3	6	3 ON	0	0.1239	0.81845	0.778	18.68	-0.9-256.2
				OFF	24	0.1239	0.81845	0.778	18.68	-0.9-256.2
4		29	6	3 ON	1682	0.4476	0.83777	2.812	67.58	-0.9 1.4
				OFF	67	0.4488	0.83787	2.828	67.68	-0.9 0.8
2		32	6	3 ON	1588	0.4473	0.83774	2.811	67.46	-0.9 1.6
				OFF	73	0.4487	0.83786	2.819	67.66	-0.9 0.1
4		47	6	3 ON	1734	0.4497	0.83794	2.825	67.81	-0.9 -1.2
				OFF	185	0.4584	0.83881	2.838	67.92	-0.9 -2.6
5		25	6	4 ON	1442	0.4199	0.83543	2.638	63.32	-0.9 0.5
				OFF	61	0.4296	0.83625	2.699	64.78	-0.9 1.8
2		72	6	4 ON	1547	0.4359	0.83678	2.739	65.73	-0.9 1.1
				OFF	164	0.4471	0.83772	2.889	67.42	-0.9 0.2
6		31	6	4 ON	2427	0.4184	0.83463	2.579	61.89	-0.9 3.3
				OFF	79	0.3956	0.83338	2.486	59.65	-0.9 3.3
4		56	7	3 ON	1864	0.4468	0.83764	2.883	67.26	-1.4 -1.4
				OFF	126	0.4459	0.83762	2.881	67.23	-1.4 -0.9
8		15	7	3 ON	1676	0.4442	0.83748	2.791	66.98	-1.4 0.8
				OFF	36	0.4448	0.83753	2.795	67.87	-1.4 -0.4
2		31	7	3 ON	1983	0.4459	0.83762	2.882	67.24	-1.4 -1.1
				OFF	72	0.4453	0.83758	2.798	67.16	-1.4 -0.3
2		11	7	3 ON	1214	0.3628	0.83854	2.274	54.59	-1.4 -7.8
				OFF	31	0.3695	0.83118	2.321	55.72	-1.4 -6.1
1		22	7	3 ON	1545	0.4294	0.83623	2.698	64.75	-1.4 -0.6
				OFF	53	0.4373	0.83698	2.747	65.94	-1.4 -0.1
2		49	7	3 ON	1624	0.4487	0.83718	2.769	66.45	-1.4 0.1
				OFF	112	0.4451	0.83755	2.797	67.12	-1.4 -0.8

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117	3	5	59	7	3	ON	1772	8.4455	8.83759	2.799	67.17	-1.4	-1.1
						OFF	133	8.4461	8.83764	2.883	67.27	-1.4	-1.5
118	9	1	14	7	3	ON	1181	8.3541	8.82988	2.225	53.39	-1.4	-8.1
						OFF	48	8.3636	8.83868	2.285	54.83	-1.4	-6.9
118	9	2	43	7	3	ON	1247	8.3699	8.83121	2.324	59.78	-1.4	-6.2
						OFF	114	8.3954	8.83336	2.484	59.62	-1.4	-3.4
118	9	4	91	7	3	ON	1584	8.4227	8.83567	2.656	63.74	-1.4	-1.1
						OFF	289	8.4448	8.83753	2.795	67.87	-1.4	-8.5
119	7	2	66	7	3	ON	1436	8.4184	8.83463	2.579	61.89	-1.4	-2.1
						OFF	158	8.4368	8.83686	2.745	65.87	-1.4	-8.1
119	7	6	28	7	3	ON	1628	8.4413	8.83723	2.773	66.54	-1.4	8.1
						OFF	47	8.4442	8.83748	2.791	66.98	-1.4	-8.1
128	5	3	88	7	3	ON	1454	8.4141	8.83494	2.682	62.45	-1.3	-1.7
						OFF	187	8.4432	8.83739	2.785	66.83	-1.3	8.4
121	9	4	33	7	3	ON	2375	8.4112	8.83478	2.584	62.81	-1.3	8.8
						OFF	83	8.3942	8.83327	2.477	59.45	-1.3	8.2
122	5	1	15	7	3	ON	1878	8.4464	8.83767	2.885	67.31	-1.3	-1.4
						OFF	35	8.4464	8.83767	2.885	67.32	-1.3	-1.4
127	4	8	11	7	3	ON	1855	8.4463	8.83766	2.884	67.38	-1.3	-1.3
						OFF	25	8.4464	8.83767	2.885	67.31	-1.3	-1.4
131	5	2	13	7	3	ON	1264	8.3741	8.83156	2.358	56.41	-1.3	-6.8
						OFF	36	8.3823	8.83226	2.482	57.65	-1.3	-5.8
134	6	2	11	7	3	ON	1314	8.3854	8.83252	2.421	58.11	-1.3	-4.7
						OFF	38	8.3928	8.83388	2.463	59.11	-1.3	-4.8
134	6	3	17	7	3	ON	1622	8.4488	8.83728	2.778	66.47	-1.3	8.3
						OFF	41	8.4443	8.83749	2.792	67.88	-1.3	8.3
135	7	3	18	7	3	ON	1488	8.4282	8.83546	2.648	63.37	-1.3	-1.7
						OFF	45	8.4279	8.83618	2.688	64.52	-1.3	-1.8
135	7	5	19	7	3	ON	1578	8.4348	8.83669	2.732	65.57	-1.3	-8.5
						OFF	45	8.4411	8.83722	2.771	66.51	-1.3	8.8
136	3	2	185	7	3	ON	1499	8.4221	8.83562	2.652	63.65	-1.3	8.2
						OFF	248	8.4454	8.83758	2.799	67.17	-1.3	8.1
137	2	2	23	7	3	ON	1953	8.4463	8.83766	2.884	67.31	-1.3	-1.1
						OFF	54	8.4461	8.83764	2.883	67.27	-1.3	-8.7
138	5	1	19	7	3	ON	1934	8.4464	8.83767	2.885	67.31	-1.3	-1.1
						OFF	43	8.4462	8.83765	2.884	67.29	-1.3	-8.9
141	2	4	61	6	4	ON	2517	8.3919	8.83386	2.462	59.89	-1.3	1.9
						OFF	164	8.3582	8.83822	2.258	54.81	-1.3	1.1
149	6	3	43	6	4	ON	2875	8.4456	8.83768	2.888	67.19	-1.3	8.2
						OFF	97	8.4443	8.83749	2.791	66.99	-1.3	1.8
158	7	5	41	6	4	ON	1781	8.4452	8.83756	2.797	67.13	-1.3	8.1
						OFF	93	8.4461	8.83764	2.883	67.26	-1.3	-8.7
151	5	4	68	6	4	ON	1579	8.4383	8.83698	2.754	66.18	-1.3	8.7
						OFF	135	8.4453	8.83758	2.798	67.15	-1.3	-8.8
152	5	1	22	6	4	ON	1583	8.4261	8.83595	2.677	64.25	-1.7	-8.3
						OFF	53	8.4336	8.83658	2.724	65.38	-1.7	8.2
152	5	3	22	6	4	ON	1688	8.4488	8.83713	2.765	66.36	-1.7	8.5
						OFF	52	8.4428	8.83736	2.782	66.77	-1.7	8.2
152	5	6	16	6	4	ON	1747	8.4439	8.83746	2.789	66.94	-1.7	-8.8
						OFF	38	8.4442	8.83748	2.791	66.99	-1.7	-1.8
152	5	7	58	6	4	ON	1876	8.4447	8.83752	2.794	67.85	-1.7	-1.4

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154	7	4	25	6	4	OFF	131	0.4444	0.03750	2.792	67.01	-1.7	-0.9
					4	ON	1973	0.4446	0.03751	2.793	67.04	-1.7	-1.1
						OFF	57	0.4442	0.03748	2.791	66.99	-1.7	-0.7
156	9	3	14	6	4	ON	2647	0.3639	0.03070	2.286	54.87	-1.7	0.3
						OFF	41	0.3551	0.02996	2.231	53.55	-1.7	-0.8
157	2	4	57	6	4	ON	2554	0.3829	0.03231	2.486	57.74	-1.7	0.9
						OFF	155	0.3506	0.02958	2.283	52.87	-1.7	-0.2
159	3	8	14	6	4	ON	1880	0.4447	0.03752	2.794	67.05	-1.7	-1.5
						OFF	33	0.4447	0.03752	2.794	67.06	-1.7	-1.4
165	7	7	42	6	4	ON	2123	0.4433	0.03740	2.785	66.84	-1.7	0.4
						OFF	96	0.4385	0.03700	2.755	66.13	-1.7	1.5
166	7	2	27	6	4	ON	1482	0.4098	0.03458	2.575	61.79	-1.7	-1.9
						OFF	67	0.4210	0.03553	2.645	63.49	-1.7	-1.0
166	7	3	34	6	4	ON	1632	0.4424	0.03732	2.779	66.71	-1.7	0.4
						OFF	79	0.4435	0.03742	2.787	66.88	-1.7	-0.5
167	3	3	18	6	4	ON	1502	0.4259	0.03594	2.676	64.23	-1.7	-0.7
						OFF	44	0.4323	0.03648	2.717	65.28	-1.7	-0.2
167	3	7	28	6	4	ON	1778	0.4441	0.03747	2.790	66.97	-1.7	-1.0
						OFF	45	0.4444	0.03750	2.792	67.02	-1.7	-1.3
168	3	2	16	6	4	ON	1607	0.4399	0.03712	2.764	66.34	-1.7	0.3
						OFF	38	0.4426	0.03734	2.781	66.74	-1.7	0.2
168	3	7	59	6	4	ON	1926	0.4447	0.03752	2.794	67.05	-1.7	-1.4
						OFF	133	0.4440	0.03746	2.790	66.95	-1.7	-0.4
172	5	3	28	6	4	ON	2473	0.3986	0.03364	2.505	60.11	-1.7	0.9
						OFF	73	0.3844	0.03243	2.415	57.96	-1.7	0.4
176	3	1	11	6	4	ON	2012	0.3335	0.02814	2.095	50.29	-1.7	-0.8
						OFF	35	0.3278	0.02766	2.060	49.43	-1.7	-0.7
181	5	2	21	6	4	ON	1874	0.4446	0.03752	2.794	67.05	-1.7	-1.3
						OFF	48	0.4447	0.03752	2.794	67.05	-1.7	-1.2
181	5	4	82	6	4	ON	2091	0.4437	0.03744	2.788	66.90	-1.7	0.1
						OFF	189	0.4306	0.03634	2.706	64.94	-1.7	1.5
182	9	3	48	6	4	ON	1570	0.4360	0.03679	2.739	65.74	-1.6	0.1
						OFF	93	0.4434	0.03741	2.786	66.86	-1.6	0.2
183	3	5	28	6	4	ON	1676	0.4436	0.03743	2.787	66.89	-1.6	0.0
						OFF	64	0.4444	0.03750	2.792	67.01	-1.6	-0.5
184	5	4	43	6	4	ON	1738	0.4444	0.03749	2.792	67.01	-1.6	-0.5
						OFF	97	0.4451	0.03755	2.797	67.12	-1.6	-1.0
184	5	7	71	6	4	ON	1975	0.4451	0.03756	2.797	67.12	-1.6	-0.8
						OFF	159	0.4437	0.03743	2.788	66.90	-1.6	0.9
186	2	5	24	6	4	ON	2210	0.4402	0.03714	2.766	66.37	-1.6	1.0
						OFF	56	0.4329	0.03653	2.720	65.29	-1.6	1.6
189	3	8	18	6	4	ON	1916	0.4452	0.03757	2.797	67.14	-1.6	-0.9
						OFF	23	0.4452	0.03756	2.797	67.13	-1.6	-0.8
191	3	8	14	6	4	ON	1973	0.4451	0.03756	2.797	67.12	-1.6	-0.6
						OFF	32	0.4449	0.03754	2.796	67.10	-1.6	-0.4
192	3	1	12	6	4	ON	2860	0.3263	0.02753	2.050	49.21	-1.6	-1.1
						OFF	38	0.3203	0.02702	2.012	48.29	-1.6	-1.0
193	3	2	15	6	4	ON	1515	0.4285	0.03616	2.692	64.62	-1.6	-0.5
						OFF	37	0.4337	0.03659	2.725	65.40	-1.6	-0.1
195	7	3	12	6	4	ON	1531	0.4300	0.03635	2.707	64.96	-1.6	0.2
						OFF	20	0.4347	0.03660	2.731	65.55	-1.6	0.6

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196	9	4	11	6	4	ON	2595	0.3750	0.03164	2.356	56.55	-1.6	-0.4
						OFF	35	0.3677	0.03103	2.311	55.45	-1.6	-0.8
197	5	4	81	6	4	ON	2138	0.4436	0.03743	2.787	66.89	-1.6	1.1
						OFF	186	0.4246	0.03583	2.668	64.83	-1.6	1.4
198	3	4	38	6	4	ON	1693	0.4438	0.03745	2.789	66.93	-1.6	0.8
						OFF	86	0.4447	0.03753	2.794	67.86	-1.6	-0.6
199	4	6	41	6	4	ON	1881	0.4452	0.03757	2.797	67.14	-1.6	-0.8
						OFF	92	0.4451	0.03756	2.797	67.12	-1.6	-0.6
208	4	6	46	6	4	ON	2081	0.4443	0.03749	2.792	67.88	-1.6	0.4
						OFF	184	0.4428	0.03737	2.782	66.78	-1.6	1.9
213	7	2	17	6	4	ON	1746	0.4444	0.03750	2.793	67.82	-1.6	-0.2
						OFF	48	0.4448	0.03753	2.795	67.87	-1.6	-0.4
214	8	2	81	6	4	ON	1577	0.4386	0.03781	2.756	66.14	-1.2	0.5
						OFF	184	0.4464	0.03767	2.805	67.32	-1.2	0.1
216	1	3	61	6	4	ON	1852	0.4470	0.03772	2.808	67.40	-1.2	-0.1
						OFF	139	0.4469	0.03770	2.808	67.38	-1.2	0.4
216	1	4	71	6	4	ON	2135	0.4455	0.03759	2.799	67.18	-1.2	1.9
						OFF	162	0.4385	0.03633	2.785	64.92	-1.2	2.3
217	6	2	43	6	4	ON	2063	0.4463	0.03766	2.804	67.31	-1.2	1.8
						OFF	97	0.4451	0.03756	2.797	67.12	-1.2	2.3
223	4	0	16	6	4	ON	2143	0.4454	0.03758	2.798	67.16	-1.2	2.1
						OFF	36	0.4448	0.03753	2.795	67.87	-1.2	2.7
231	4	4	19	6	4	ON	1851	0.4470	0.03771	2.808	67.40	-1.2	0.1
						OFF	44	0.4471	0.03772	2.809	67.42	-1.2	0.2
232	9	4	30	6	4	ON	1965	0.4470	0.03771	2.808	67.40	-1.2	0.5
						OFF	68	0.4466	0.03768	2.806	67.34	-1.2	1.0
232	9	5	75	6	4	ON	2175	0.4449	0.03754	2.795	67.88	-1.2	2.7
						OFF	174	0.4226	0.03565	2.655	63.72	-1.2	2.0
233	6	2	41	6	4	ON	2110	0.4458	0.03762	2.801	67.23	-1.2	1.0
						OFF	94	0.4426	0.03735	2.781	66.74	-1.2	2.0
233	6	4	37	6	4	ON	2370	0.4170	0.03525	2.625	63.00	-1.2	1.0
						OFF	91	0.4014	0.03387	2.522	60.53	-1.2	1.0
233	6	8	52	6	4	ON	2963	0.3116	0.02630	1.958	46.99	-1.2	-2.2
						OFF	179	0.2860	0.02413	1.797	43.13	-1.2	-2.2

RATE ESTIMATE
AFT PAN CAMERA NUMBER 285

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG-VEL	SCAN R/SEC	RATE I/SEC	PCT CALIB	RATE RECD
87	3	7	6	3 ON	1750	0.4465	0.03768	2.806	67.34	-1.6 -2.7
				OFF	12	0.4467	0.03769	2.806	67.35	-1.6 -2.9
88	0	0	3	3 ON	13	0.1283	0.01083	0.806	19.35	-1.6 -122.6
				OFF	23	0.1283	0.01083	0.806	19.35	-1.6 -124.3
88	9	3	88	3 ON	1510	0.4370	0.03687	2.746	65.90	-1.6 0.0
				OFF	199	0.4461	0.03764	2.803	67.26	-1.6 -2.1
88	9	8	29	3 ON	2189	0.4452	0.03756	2.797	67.13	-1.6 -1.2
				OFF	67	0.4438	0.03745	2.788	66.92	-1.6 0.4
89	2	0	11	3 ON	300	0.2317	0.01955	1.456	34.94	-1.6 -19.2
				OFF	46	0.2353	0.01986	1.479	35.49	-1.6 -19.1
89	3	1	34	3 ON	1530	0.4419	0.03728	2.776	66.63	-1.6 1.1

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92	1	1	31	6	3	OFF	88	8.4446	8.83781	2.793	67.84	-1.6	-8.4
						ON	2481	8.4248	8.83578	2.664	63.94	-1.6	8.7
95	6	1	42	6	3	OFF	77	8.4481	8.83443	2.864	61.54	-1.6	8.1
						ON	1833	8.4472	8.83773	2.818	67.43	-1.6	-3.5
97	8	8	3	6	3	OFF	94	8.4474	8.83775	2.811	67.47	-1.6	-3.9
						ON	13	8.1238	8.81838	8.773	18.55	-1.6	-268.8
181	4	4	29	6	3	OFF	24	8.1238	8.81838	8.773	18.55	-1.6	-262.8
						ON	1615	8.4445	8.83758	2.793	67.83	-1.6	8.3
182	7	2	32	6	3	OFF	67	8.4487	8.83761	2.888	67.21	-1.6	-1.8
						ON	1681	8.4442	8.83748	2.791	66.98	-1.6	8.6
182	7	4	47	6	3	OFF	73	8.4456	8.83759	2.799	67.19	-1.6	-8.9
						ON	1747	8.4465	8.83768	2.885	67.33	-1.6	-2.1
184	7	5	25	6	4	OFF	185	8.4473	8.83774	2.818	67.45	-1.6	-3.4
						ON	1455	8.4164	8.83514	2.617	62.88	-1.6	-8.7
185	9	2	71	6	4	OFF	61	8.4268	8.83595	2.677	64.24	-1.6	-8.3
						ON	1568	8.4322	8.83647	2.715	65.17	-1.6	-8.1
185	9	6	38	6	4	OFF	164	8.4448	8.83746	2.789	66.95	-1.6	-8.7
						ON	2448	8.4871	8.83435	2.558	61.39	-1.6	3.1
186	6	4	55	7	3	OFF	79	8.3925	8.83312	2.466	59.18	-1.6	3.1
						ON	1877	8.4422	8.83731	2.778	66.68	-2.2	-2.3
189	3	8	15	7	3	OFF	126	8.4428	8.83729	2.777	66.65	-2.2	-1.6
						ON	1689	8.4484	8.83716	2.767	66.48	-2.2	-1.1
118	9	2	31	7	3	OFF	36	8.4489	8.83728	2.778	66.49	-2.2	-1.5
						ON	1996	8.4428	8.83738	2.777	66.66	-2.2	-1.8
115	7	2	11	7	3	OFF	72	8.4415	8.83725	2.774	66.57	-2.2	-1.8
						ON	1227	8.3587	8.83827	2.254	54.89	-2.2	-8.6
116	7	1	22	7	3	OFF	31	8.3661	8.83889	2.388	55.28	-2.2	-7.6
						ON	1558	8.4251	8.83587	2.671	64.18	-2.2	-2.8
116	7	2	48	7	3	OFF	53	8.4328	8.83652	2.719	65.27	-2.2	-1.4
						ON	1637	8.4362	8.83688	2.741	65.77	-2.2	-1.2
117	3	5	59	7	3	OFF	112	8.4412	8.83723	2.772	66.53	-2.2	-1.8
						ON	1785	8.4416	8.83726	2.775	66.59	-2.2	-2.1
118	9	1	13	7	3	OFF	133	8.4422	8.83731	2.779	66.69	-2.2	-2.3
						ON	1194	8.3589	8.82961	2.285	52.92	-2.2	-9.7
118	9	2	43	7	3	OFF	48	8.3683	8.83848	2.264	54.33	-2.2	-8.4
						ON	1268	8.3665	8.83892	2.383	55.27	-2.2	-7.7
118	9	4	98	7	3	OFF	114	8.3916	8.83384	2.468	59.85	-2.2	-4.9
						ON	1517	8.4185	8.83531	2.629	63.18	-2.2	-2.5
119	7	2	65	7	3	OFF	289	8.4489	8.83728	2.778	66.49	-2.2	-1.6
						ON	1449	8.4864	8.83429	2.554	61.29	-2.2	-3.6
119	7	6	28	7	3	OFF	158	8.4324	8.83648	2.717	65.28	-2.2	-1.5
						ON	1641	8.4368	8.83685	2.744	65.86	-2.2	-1.1
120	5	3	79	7	3	OFF	47	8.4484	8.83716	2.767	66.48	-2.2	-1.2
						ON	1467	8.4871	8.83435	2.558	61.38	-2.9	-3.9
121	9	4	32	7	3	OFF	187	8.4354	8.83674	2.736	65.66	-2.9	-1.6
						ON	2388	8.4842	8.83411	2.548	68.95	-2.9	-8.3
122	5	1	15	7	3	OFF	83	8.3876	8.83271	2.436	58.45	-2.9	-8.9
						ON	1891	8.4393	8.83787	2.768	66.24	-2.9	-3.8
127	4	8	18	7	3	OFF	35	8.4393	8.83787	2.768	66.25	-2.9	-2.9
						ON	1868	8.4392	8.83786	2.768	66.23	-2.9	-3.8
						OFF	25	8.4393	8.83787	2.768	66.24	-2.9	-3.8

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131	5	2	13	7	3	ON	1277	0.3679	0.03104	2.312	55.48	-2.9	-8.2
						OFF	36	0.3759	0.03172	2.362	56.69	-2.9	-7.2
134	6	2	10	7	3	ON	1327	0.3790	0.03198	2.381	57.14	-2.9	-7.8
						OFF	30	0.3854	0.03252	2.422	58.12	-2.9	-6.2
134	6	3	17	7	3	ON	1635	0.4331	0.03655	2.721	65.32	-2.9	-1.8
						OFF	41	0.4373	0.03689	2.747	65.94	-2.9	-1.6
135	7	3	18	7	3	ON	1581	0.4130	0.03485	2.595	62.28	-2.9	-3.8
						OFF	45	0.4285	0.03548	2.642	63.41	-2.9	-3.1
135	7	5	19	7	3	ON	1591	0.4273	0.03605	2.685	64.43	-2.9	-2.5
						OFF	45	0.4334	0.03657	2.723	65.35	-2.9	-2.8
136	3	2	104	7	3	ON	1512	0.4149	0.03501	2.607	62.56	-2.9	-1.9
						OFF	240	0.4384	0.03699	2.754	66.10	-2.9	-1.7
137	2	2	23	7	3	ON	1966	0.4392	0.03706	2.760	66.24	-2.9	-2.6
						OFF	54	0.4398	0.03704	2.758	66.20	-2.9	-2.2
138	5	1	18	7	3	ON	1947	0.4393	0.03707	2.760	66.24	-2.9	-2.7
						OFF	43	0.4391	0.03705	2.759	66.22	-2.9	-2.4
141	2	4	60	6	4	ON	2530	0.3853	0.03251	2.421	58.10	-2.9	0.9
						OFF	164	0.3524	0.02973	2.214	53.13	-2.9	0.1
149	6	3	42	6	4	ON	2080	0.4385	0.03700	2.755	66.13	-2.9	-1.1
						OFF	97	0.4372	0.03689	2.747	65.93	-2.9	0.6
150	7	5	48	6	4	ON	1714	0.4301	0.03696	2.753	66.06	-2.9	-1.7
						OFF	93	0.4390	0.03704	2.758	66.20	-2.9	-2.4
151	5	4	59	6	4	ON	1592	0.4307	0.03634	2.706	64.95	-2.9	-1.3
						OFF	135	0.4383	0.03698	2.754	66.09	-2.9	-1.8
152	5	1	22	6	4	ON	1516	0.4227	0.03567	2.656	63.74	-2.4	-1.5
						OFF	53	0.4301	0.03629	2.702	64.05	-2.4	-1.0
152	5	3	22	6	4	ON	1621	0.4364	0.03683	2.742	65.01	-2.4	-0.6
						OFF	52	0.4399	0.03712	2.764	66.33	-2.4	-0.7
152	5	6	16	6	4	ON	1760	0.4410	0.03721	2.771	66.50	-2.4	-1.6
						OFF	30	0.4413	0.03724	2.773	66.55	-2.4	-1.0
152	5	7	57	6	4	ON	1809	0.4417	0.03727	2.775	66.61	-2.4	-2.1
						OFF	131	0.4414	0.03725	2.774	66.57	-2.4	-1.4
154	7	4	25	6	4	ON	1986	0.4416	0.03726	2.775	66.59	-2.4	-1.7
						OFF	57	0.4413	0.03723	2.773	66.54	-2.4	-1.2
156	9	3	14	6	4	ON	2660	0.3613	0.03049	2.270	54.49	-2.4	0.3
						OFF	41	0.3527	0.02976	2.216	53.10	-2.4	-0.0
157	2	4	56	6	4	ON	2567	0.3801	0.03207	2.300	57.32	-2.4	0.0
						OFF	155	0.3482	0.02930	2.100	52.51	-2.4	-0.2
159	3	0	13	6	4	ON	1893	0.4417	0.03727	2.775	66.61	-2.4	-2.1
						OFF	33	0.4417	0.03727	2.776	66.61	-2.4	-2.1
165	7	7	41	6	4	ON	2136	0.4403	0.03715	2.767	66.40	-2.4	0.0
						OFF	96	0.4349	0.03670	2.733	65.59	-2.4	1.1
166	7	2	27	6	4	ON	1415	0.4066	0.03431	2.555	61.31	-2.4	-3.1
						OFF	67	0.4177	0.03524	2.624	62.99	-2.4	-2.2
166	7	3	34	6	4	ON	1645	0.4391	0.03705	2.759	66.22	-2.4	-0.6
						OFF	79	0.4406	0.03710	2.760	66.44	-2.4	-1.4
167	3	3	18	6	4	ON	1515	0.4225	0.03565	2.655	63.72	-2.4	-1.0
						OFF	44	0.4209	0.03619	2.695	64.67	-2.4	-1.3
167	3	7	19	6	4	ON	1783	0.4412	0.03723	2.772	66.53	-2.4	-1.0
						OFF	45	0.4415	0.03725	2.774	66.50	-2.4	-2.0
168	3	2	16	6	4	ON	1620	0.4363	0.03602	2.742	65.00	-2.4	-0.0

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168	3	7	59	6	4	OFF	38	8.4397	8.83718	2.762	66.38	-2.4	-8.7
						ON	1939	8.4417	8.83727	2.775	66.61	-2.4	-2.8
						OFF	133	8.4411	8.83722	2.771	66.51	-2.4	-8.9
172	5	3	28	6	4	ON	2486	8.3956	8.83338	2.486	59.66	-2.4	8.7
						OFF	73	8.3815	8.83219	2.397	57.53	-2.4	8.3
176	3	1	11	6	4	ON	2825	8.3313	8.82796	2.882	49.96	-2.4	-8.7
						OFF	35	8.3257	8.82748	2.847	49.12	-2.4	-8.6
181	5	2	28	6	4	ON	1887	8.4417	8.83727	2.775	66.61	-2.4	-1.9
						OFF	48	8.4417	8.83727	2.775	66.61	-2.4	-1.8
181	5	4	82	6	4	ON	2184	8.4487	8.83719	2.769	66.46	-2.4	-8.3
						OFF	189	8.4272	8.83684	2.684	64.41	-2.4	1.1
182	9	3	48	6	4	ON	1583	8.4246	8.83583	2.668	64.83	-4.8	-2.8
						OFF	93	8.4326	8.83658	2.718	65.23	-4.8	-2.5
183	3	9	28	6	4	ON	1689	8.4327	8.83651	2.719	65.25	-4.8	-2.6
						OFF	64	8.4335	8.83658	2.724	65.37	-4.8	-3.2
184	5	4	42	6	4	ON	1751	8.4335	8.83658	2.724	65.37	-4.8	-3.2
						OFF	97	8.4342	8.83663	2.728	65.47	-4.8	-3.6
184	5	7	78	6	4	ON	1988	8.4342	8.83664	2.728	65.47	-4.8	-3.3
						OFF	159	8.4328	8.83652	2.719	65.26	-4.8	-1.4
186	2	5	23	6	4	ON	2223	8.4287	8.83617	2.694	64.64	-4.8	-8.5
						OFF	56	8.4217	8.83558	2.658	63.59	-4.8	-8.6
189	3	8	9	6	4	ON	1929	8.4343	8.83665	2.729	65.49	-4.8	-3.4
						OFF	23	8.4343	8.83664	2.729	65.49	-4.8	-3.3
191	3	8	13	6	4	ON	1986	8.4342	8.83664	2.728	65.47	-4.8	-3.8
						OFF	32	8.4348	8.83662	2.727	65.45	-4.8	-2.8
192	3	1	11	6	4	ON	2873	8.3184	8.82687	2.881	48.81	-4.8	-2.9
						OFF	38	8.3125	8.82637	1.964	47.13	-4.8	-2.8
193	3	2	15	6	4	ON	1528	8.4174	8.83522	2.623	62.94	-4.8	-3.5
						OFF	37	8.4224	8.83564	2.654	63.78	-4.8	-3.8
195	7	3	11	6	4	ON	1544	8.4196	8.83541	2.637	63.28	-4.8	-2.7
						OFF	28	8.4234	8.83573	2.661	63.85	-4.8	-2.4
196	9	4	12	6	4	ON	2688	8.3656	8.83885	2.297	55.13	-4.8	-2.4
						OFF	35	8.3586	8.83825	2.253	54.87	-4.8	-2.7
197	5	4	79	6	4	ON	2151	8.4327	8.83651	2.719	65.25	-4.8	-1.1
						OFF	186	8.4137	8.83498	2.599	62.38	-4.8	-8.8
198	3	4	37	6	4	ON	1786	8.4338	8.83653	2.728	65.29	-4.8	-2.7
						OFF	86	8.4338	8.83661	2.726	65.42	-4.8	-3.2
199	4	6	48	6	4	ON	1894	8.4343	8.83664	2.729	65.49	-4.8	-3.4
						OFF	92	8.4342	8.83664	2.728	65.47	-4.8	-3.8
208	4	6	45	6	4	ON	2894	8.4334	8.83657	2.723	65.36	-4.8	-1.9
						OFF	184	8.4314	8.83648	2.711	65.86	-4.8	-8.4
213	7	2	16	6	4	ON	1759	8.4336	8.83658	2.724	65.38	-4.8	-2.9
						OFF	48	8.4339	8.83661	2.726	65.43	-4.8	-3.8
214	8	2	88	6	4	ON	1598	8.4293	8.83622	2.697	64.73	-3.1	-1.9
						OFF	184	8.4376	8.83692	2.749	65.98	-3.1	-2.8
216	1	3	61	6	4	ON	1865	8.4381	8.83697	2.753	66.86	-3.1	-2.1
						OFF	139	8.4388	8.83696	2.752	66.85	-3.1	-1.5
216	1	4	69	6	4	ON	2148	8.4366	8.83684	2.743	65.84	-3.1	8.2
						OFF	162	8.4214	8.83556	2.648	63.54	-3.1	8.5
217	6	2	42	6	4	ON	2876	8.4375	8.83691	2.749	65.97	-3.1	-8.8
						OFF	97	8.4363	8.83681	2.741	65.79	-3.1	8.6

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223	4	8	15	6	4	ON	2156	g.4365	g.83683	2.743	65.83	-3.1	8.4
						OFF	36	g.4358	g.83677	2.738	65.72	-3.1	8.9
231	4	4	19	6	4	ON	1864	g.4381	g.83697	2.753	66.86	-3.1	-1.9
						OFF	44	g.4382	g.83697	2.753	66.88	-3.1	-1.8
232	9	4	29	6	4	ON	1978	g.4381	g.83697	2.753	66.86	-3.1	-1.4
						OFF	68	g.4377	g.83693	2.758	66.81	-3.1	-8.9
232	9	5	73	6	4	ON	2188	g.4368	g.83679	2.748	65.75	-3.1	1.8
						OFF	174	g.4136	g.83498	2.599	62.37	-3.1	8.2
233	6	2	48	6	4	ON	2123	g.4378	g.83687	2.746	65.89	-3.1	8.8
						OFF	94	g.4331	g.83655	2.721	65.31	-3.1	1.8
233	6	4	36	6	4	ON	2391	g.4898	g.83451	2.578	61.67	-3.1	8.1
						OFF	91	g.3931	g.83316	2.478	59.27	-3.1	-8.7
233	6	8	52	6	4	ON	2976	g.3856	g.82579	1.928	46.89	-3.1	-3.5
						OFF	179	g.2887	g.82368	1.763	42.32	-3.1	-3.5

RAMP PROFILE

R= 6 A= 3 PERIOD= 3825
R= 8.3468 A= 8.1118

TUR	PER	CPS	ANG-V
4	4.474	8.2235	8.82822
188	4.445	8.2258	8.82835
288	4.366	8.2291	8.82872
388	4.243	8.2357	8.82132
488	4.086	8.2447	8.82214
588	3.986	8.2568	8.82315
688	3.713	8.2693	8.82436
788	3.517	8.2843	8.82571
888	3.325	8.3088	8.82728
988	3.141	8.3183	8.82879
1088	2.971	8.3366	8.83045
1188	2.818	8.3559	8.83219
1288	2.628	8.3886	8.83442
1388	2.474	8.4842	8.83656
1488	2.347	8.4261	8.83854
1588	2.246	8.4453	8.84827
1688	2.214	8.4516	8.84885
1788	2.286	8.4533	8.84188
1888	2.281	8.4543	8.84189
1988	2.288	8.4546	8.84112
2088	2.281	8.4544	8.84118
2188	2.285	8.4535	8.84182
2288	2.213	8.4519	8.84887
2388	2.233	8.4479	8.84851
2488	2.338	8.4291	8.83881
2588	2.453	8.4877	8.83687
2688	2.683	8.3842	8.83475
2788	2.788	8.3597	8.83253
2888	2.946	8.3394	8.83878
2988	3.115	8.3218	8.82984
3088	3.297	8.3833	8.82744

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3100	3.488	0.2867	0.02593
3200	3.684	0.2714	0.02455
3300	3.878	0.2579	0.02332
3400	4.068	0.2463	0.02228
3500	4.221	0.2369	0.02143
3600	4.358	0.2299	0.02079
3700	4.436	0.2254	0.02039
3800	4.473	0.2236	0.02022

RAMP PROFILE

R= 6 A= 4 PERIOD= 3625

R= 0.3468 AE= 0.0986

TUR	PER	CPS	ANG-V
0	4.166	0.2488	0.02171
100	4.144	0.2413	0.02182
200	4.084	0.2449	0.02215
300	3.989	0.2587	0.02267
400	3.868	0.2586	0.02339
500	3.726	0.2684	0.02428
600	3.571	0.2888	0.02532
700	3.412	0.2931	0.02651
800	3.252	0.3075	0.02781
900	3.098	0.3228	0.02919
1000	2.952	0.3387	0.03064
1100	2.812	0.3556	0.03216
1200	2.653	0.3769	0.03489
1300	2.516	0.3974	0.03594
1400	2.402	0.4163	0.03765
1500	2.318	0.4329	0.03915
1600	2.239	0.4466	0.04039
1700	2.217	0.4518	0.04079
1800	2.213	0.4519	0.04088
1900	2.211	0.4523	0.04091
2000	2.212	0.4528	0.04088
2100	2.217	0.4512	0.04088
2200	2.238	0.4484	0.04055
2300	2.298	0.4352	0.03936
2400	2.387	0.4198	0.03789
2500	2.498	0.4004	0.03621
2600	2.631	0.3881	0.03437
2700	2.787	0.3588	0.03245
2800	2.931	0.3412	0.03086
2900	3.076	0.3251	0.02941
3000	3.229	0.3097	0.02881
3100	3.388	0.2952	0.02678
3200	3.548	0.2819	0.02549
3300	3.703	0.2708	0.02442
3400	3.847	0.2599	0.02351
3500	3.973	0.2517	0.02277
3600	4.072	0.2456	0.02221
3700	4.137	0.2417	0.02186

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3800 4.165 0.2401 0.02171

RAMP PROFILE

R- 7 A- 3 PERIOD= 3825

R= 0.3325 A= 0.1110

TUR	PER	CPS	ANG-V
0	4.801	0.2083	0.01884
100	4.767	0.2098	0.01897
200	4.677	0.2138	0.01934
300	4.538	0.2203	0.01993
400	4.362	0.2293	0.02074
500	4.160	0.2404	0.02174
600	3.945	0.2535	0.02293
700	3.727	0.2683	0.02427
800	3.514	0.2846	0.02574
900	3.312	0.3019	0.02731
1000	3.125	0.3200	0.02894
1100	2.949	0.3391	0.03067
1200	2.751	0.3635	0.03288
1300	2.584	0.3871	0.03581
1400	2.446	0.4088	0.03697
1500	2.337	0.4278	0.03869
1600	2.255	0.4435	0.04012
1700	2.219	0.4507	0.04077
1800	2.213	0.4519	0.04087
1900	2.211	0.4523	0.04090
2000	2.213	0.4520	0.04088
2100	2.210	0.4509	0.04079
2200	2.244	0.4456	0.04030
2300	2.323	0.4304	0.03893
2400	2.420	0.4118	0.03725
2500	2.561	0.3905	0.03531
2600	2.724	0.3672	0.03321
2700	2.917	0.3420	0.03100
2800	3.098	0.3227	0.02919
2900	3.283	0.3046	0.02755
3000	3.483	0.2871	0.02597
3100	3.694	0.2707	0.02440
3200	3.912	0.2556	0.02312
3300	4.128	0.2422	0.02191
3400	4.333	0.2300	0.02087
3500	4.514	0.2215	0.02004
3600	4.660	0.2146	0.01941
3700	4.757	0.2102	0.01901
3800	4.799	0.2084	0.01885

CLOCK CORRELATION SUMMARY

ORDER FIT ONE

SYS TIME I/P

0.330407560 05

CL TIME I/P

0.4702763670 06

COMP SYS TM

0.3304074440 05

DELTA ST

0.0116

REV

8

STA



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0.778869130 05	0.5151225260 06	0.7788691430 05	-0.0015	16
0.330017930 05	0.1976640180 05	0.3300179180 05	0.0012	24
0.778713460 05	0.6463602500 05	0.7787134690 05	-0.0009	32
0.329485650 05	0.1061052310 06	0.3294856320 05	0.0018	40
0.778236150 05	0.1509080270 06	0.7782361330 05	0.0017	48
0.328534720 05	0.1924101170 06	0.3285347050 05	0.0015	56
0.723755100 05	0.2319401480 06	0.7237551130 05	-0.0013	63
0.386544030 05	0.2046190260 06	0.3865440240 05	0.0006	73
0.722261100 05	0.3181907270 06	0.7222611170 05	-0.0017	74
0.327659080 05	0.3651305120 06	0.3276590030 05	-0.0003	80
0.720855670 05	0.4044501610 06	0.7208556710 05	-0.0001	95
0.383494130 05	0.4571139940 06	0.3834941310 05	-0.0001	105
0.720181700 05	0.4907827500 06	0.7201817740 05	-0.0074	111
0.326210590 05	0.9147100000 03	0.3262106910 05	-0.0101	120
0.719935730 05	0.4028721400 05	0.7199357400 05	-0.0010	127
0.324622530 05	0.8715580000 05	0.3246225240 05	0.0006	136
0.719520510 05	0.1266464740 06	0.7195205620 05	-0.0052	143
0.324382200 05	0.1735310260 06	0.3243821900 05	0.0002	152
0.719290000 05	0.2130225990 06	0.7192900260 05	-0.0026	159
0.323276370 05	0.2598212220 06	0.3232763720 05	-0.0002	160
0.717303070 05	0.2992230820 06	0.7173030700 05	0.0000	175
0.322466500 05	0.3461402210 06	0.3224665760 05	-0.0076	184
0.716020420 05	0.3854963950 06	0.7160204130 05	0.0007	191
0.319911600 05	0.4322046990 06	0.3199115690 05	0.0031	200
0.714291700 05	0.4717227000 06	0.7142916770 05	0.0023	207
0.263829760 05	0.5130764910 06	0.2638296090 05	0.0071	215
0.711093100 05	0.2101191300 05	0.7110931400 05	0.0040	223
0.315799400 05	0.6700253100 05	0.3157994360 05	0.0044	232

AG=-0.43723573910 06 AI=0.1000000247670 01

SIGMA=0.00410 NO. POINTS= 29

RATIO OF CLOCK TIME TO SYS TIME= 0.9999997523310 00

ORDER FIT TWO

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.330407560 05	0.4702763670 06	0.3304075000 05	0.0060	0	
0.778869130 05	0.5151225260 06	0.7788691000 05	-0.0050	16	
0.330017930 05	0.1976640180 05	0.3300179510 05	-0.0021	24	
0.778713460 05	0.6463602500 05	0.7787134910 05	-0.0031	32	
0.329485650 05	0.1061052310 06	0.3294856450 05	0.0005	40	
0.778236150 05	0.1509080270 06	0.7782361370 05	0.0013	48	
0.328534720 05	0.1924101170 06	0.3285347030 05	0.0017	56	
0.723755100 05	0.2319401480 06	0.7237551050 05	-0.0005	63	
0.386544030 05	0.2046190260 06	0.3865440000 05	0.0022	73	
0.722261100 05	0.3181907270 06	0.7222610970 05	0.0003	74	
0.327659080 05	0.3651305120 06	0.3276590590 05	0.0021	80	
0.720855670 05	0.4044501610 06	0.7208556440 05	0.0026	95	
0.383494130 05	0.4571139940 06	0.3834941020 05	0.0020	105	
0.720181700 05	0.4907827500 06	0.7201817440 05	-0.0044	111	
0.326210590 05	0.9147100000 03	0.3262106600 05	-0.0070	120	
0.719935730 05	0.4028721400 05	0.7199357100 05	0.0012	127	
0.324622530 05	0.8715580000 05	0.3246224950 05	0.0035	136	

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0.719528510 05	0.126646474D 06	0.7195285350 05	-0.0025 143
0.324382200 05	0.173531826D 06	0.3243821750 05	0.0025 152
0.719298800 05	0.213822599D 06	0.7192988650 05	-0.0006 159
0.323276370 05	0.259821222D 06	0.3232763570 05	0.0013 168
0.717383870 05	0.299223882D 06	0.7173838600 05	0.0018 175
0.322466580 05	0.346148221D 06	0.3224665730 05	-0.0073 184
0.716828420 05	0.385496395D 06	0.7168284180 05	0.0002 191
0.319911680 05	0.432284699D 06	0.3199115830 05	0.0017 200
0.714291780 05	0.471722780D 06	0.7142916990 05	0.0001 207
0.263829760 05	0.513876491D 06	0.2638297210 05	0.0039 215
0.711893180 05	0.218119138D 05	0.7118931840 05	-0.0004 223
0.315799480 05	0.678825318D 05	0.3157994920 05	-0.0012 232

A0=-0.4372357147D 06 A1= 0.188888819648D 01
A2= 0.2383995848378D-13
SIGMA=0.00388 NO. POINTS= 29

CLOCK OPERATIONS

FWD PAN CAMERA NUMBER		284					DEC		BINARY EQUIVALENT	
OPN NO	FR	H	M	S						
87	3 7	5	ON	8 3 22	361367	10101100010100000010111011000				
			OFF	8 3 34	361379	10101100010100011010010111000				
88	8 8	3	ON	9 10 41	365485	101011100011111010001101001000				
			OFF	9 11 4	365428	10101110001111111110100100000				
88	9 3	08	ON	9 29 18	366514	10101110110001000111101010000				
			OFF	9 32 29	366713	10101110110111001100010101000				
88	9 8	29	ON	9 48 29	367194	10101111000101110111110010000				
			OFF	9 41 36	367261	10101111000111111010101001000				
89	2 8	11	ON	10 38 48	370693	10110000110000101001110001000				
			OFF	10 39 34	370739	10110000110010000011100111000				
89	3 1	35	ON	10 59 27	371931	1011000101010011011101111000				
			OFF	11 8 47	372811	10110001011000101111111111000				
92	1 1	32	ON	15 43 14	388958	1011001011110000011100110000				
			OFF	15 44 31	389035	10110011000000110011111111000				
95	6 1	42	ON	20 3 7	484551	11000000111001111010101011000				
			OFF	20 4 41	484645	11000000111100110010010001000				
97	8 8	3	ON	22 58 25	415878	110001011111010111011100110000				
			OFF	22 58 49	415894	110001011111011101010011110000				
101	4 4	29	ON	4 57 36	436628	11010000001100100101011100000				
			OFF	4 58 43	436687	11010000001110101000010011000				
102	7 2	32	ON	6 27 18	441994	11010010110000100101100010000				
			OFF	6 28 23	442067	11010010110010110100000111000				
102	7 4	47	ON	6 29 35	442148	11010010110101000010101100000				
			OFF	6 31 28	442245	11010010111000001111110001000				
104	7 5	25	ON	9 27 1	452785	11010111110011110011011010000				
			OFF	9 28 2	452846	11010111110111110000110110000				
105	9 2	72	ON	18 58 44	458288	11011010100001110101110000000				
			OFF	11 1 28	458452	11011010100110110110000100000				
105	9 6	31	ON	11 13 23	459168	11011010111100101100100000000				
			OFF	11 14 42	459247	11011010111110001101100110000				
106	6 4	56	ON	12 33 59	464883	11011101010000001111101110000				

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109	3	8	15	OFF	12	36	5	464129	1101110101010000010111101000
				ON	17	8	39	460004	1110010011100010001111010000
				OFF	17	1	15	480048	1110010011100010001111010000
110	9	2	31	ON	18	35	43	489708	1110011110011010100001110000
				OFF	18	36	55	485788	1110011110011010100001110000
115	7	2	11	ON	1	52	36	511921	1111010000011010010110110100
				OFF	1	53	7	511952	11110100000111100010010000000
116	7	1	22	ON	3	28	4	517648	1111011011010101011101000000
				OFF	3	28	57	517781	11110110110110111110110001000
116	7	2	49	ON	3	29	23	517728	1111011011011111001110000000
				OFF	3	31	15	517849	1111011011011001110011000000
117	3	5	59	ON	5	1	47	523272	1111100110000011111101000000
				OFF	5	4	8	523485	11111001100101000011011001000
118	9	1	14	ON	6	21	51	528876	1111101111001110011001110000
				OFF	6	22	31	528116	11111011110100110100110010000
118	9	2	43	ON	6	22	58	528142	1111101111010110011101011000
				OFF	6	24	52	528256	1111101111100100011000000000
118	9	4	91	ON	6	27	14	528399	1111101111110101101010011000
				OFF	6	30	43	528688	1111110000000111010110000000
119	7	2	66	ON	7	56	4	533729	1111110100000000110111010000
				OFF	7	58	42	533887	11111101000100111100000011000
119	7	6	28	ON	7	59	17	533921	1111110100010111111001110100
				OFF	6	8	4	533968	1111110100011001101001000000
120	5	3	80	ON	9	26	14	2268	00000010001010011010110000
				OFF	9	29	21	2455	0000001001010111010111011000
121	9	4	33	ON	11	11	31	8585	000010000010111111100101000
				OFF	11	12	54	8668	0000100001000100001101100000
122	5	1	15	ON	12	33	18	13483	0000110011010110111011111000
				OFF	12	33	45	13518	0000110011100100010010110000
127	4	8	11	ON	20	2	23	48437	0001001101001000001010001000
				OFF	20	2	48	48462	0001001101001011001101011000
131	5	2	13	ON	1	52	8	61422	0001101010010011100110110000
				OFF	1	52	44	61458	0001101010011100011001010000
134	6	2	11	ON	6	22	41	77654	001001010000111001111110000
				OFF	6	23	11	77684	001001010000101011101010000
134	6	3	17	ON	6	27	49	77962	0010010100101100110110001000
				OFF	6	28	30	78003	0010010100110001110110011000
135	7	3	18	ON	7	55	42	83235	0010011110110000100001011100
				OFF	7	56	27	83288	0010011110110110000010000000
135	7	5	19	ON	7	57	12	83326	0010011110111011101000011000
				OFF	7	57	57	83371	00100111110000010001111111000
136	3	2	125	ON	9	24	43	88576	0010101000111100100000000000
				OFF	9	28	43	88816	0010101000101100111001100000
137	2	2	23	ON	11	2	59	94472	0010101000011000011101000000
				OFF	11	3	53	94526	0010101000010010110100011000
138	5	1	19	ON	12	32	34	99848	0010111110011100011110100000
				OFF	12	33	17	99891	0010111110100001101110111000
141	2	4	61	ON	17	11	58	116611	0011011110011010101110111000
				OFF	17	14	42	116775	0011011110101110110000101100
149	6	3	43	ON	5	3	33	159386	0100101111110110100010001000
				OFF	5	5	18	159483	010010000000010010111111000

150	7	5	41	ON	6	27	9	164323	0100111001011010111010111000
				OFF	6	28	42	164416	010011100110011001010100000000
151	5	4	68	ON	7	54	58	169592	010100001101111000100110000000
				OFF	7	57	13	169727	0101000011011101010000011000
152	5	1	22	ON	9	23	34	174987	0101001101100110111001111000
				OFF	9	24	27	174968	010100110110110101011011000000
152	5	3	22	ON	9	25	19	175013	01010011011100111110011001000
				OFF	9	26	11	175065	01010011011110100011110101000
152	5	6	16	ON	9	27	38	175152	0101001110000100110110000000
				OFF	9	28	16	175190	0101001110001001011111110000
152	5	7	58	ON	9	29	47	175281	01010011100101001001101101000
				OFF	9	31	58	175412	0101001110100100100100100000
154	7	4	25	ON	12	31	6	186159	0101000110001000111110011000
				OFF	12	32	3	186216	0101000110010110111001000000
156	9	3	14	ON	15	42	2	197616	0101110001110110000110000000
				OFF	15	42	43	197657	0101110010000000000110101000
157	2	4	57	ON	17	18	20	202914	0110000011000001110001101000
				OFF	17	12	55	203069	0110000011010100101101001000
159	3	4	14	ON	19	50	45	213019	0110010110010011010010111000
				OFF	19	59	18	213052	0110010110010111010100110000
165	7	7	42	ON	5	1	47	245601	011010100011100100101101000
				OFF	5	3	23	245697	0110101001010000100111101000
166	7	2	27	ON	6	19	36	250270	0110111010101101000100110000
				OFF	6	20	43	250337	011011101011110101101101000
166	7	3	34	ON	6	23	26	250499	01101110110010011111011000
				OFF	6	24	45	250578	0110111011111000100100100000
167	3	3	18	ON	7	51	4	255758	0111001111101000111010110000
				OFF	7	51	48	255802	0111001111100111010100100000
167	3	7	28	ON	7	55	33	256027	011101000010101010010111000
				OFF	7	56	18	256072	0111010000110101100101000000
168	3	2	16	ON	9	22	38	261252	0111100100100110001110100000
				OFF	9	23	16	261290	0111100100101111100000010000
168	3	7	59	ON	9	27	57	261571	01111001011010000010111000
				OFF	9	30	10	261704	0111100110010100100101000000
172	5	3	20	ON	15	36	28	203673	1000011101000100000110101000
				OFF	15	37	33	203746	1000011101001100111101010000
176	3	1	11	ON	21	41	10	305563	10010001010100001010111000
				OFF	21	41	45	305598	10010001011100001110011000
181	5	2	21	ON	4	54	28	331562	10011100001001111000001000
				OFF	4	55	16	331610	10011100001111101111001000
181	5	4	82	ON	4	58	5	331779	100111000101000101110111000
				OFF	5	1	14	331968	10011100100101101110000000
182	9	3	40	ON	6	19	11	336645	10100000100001100101110001000
				OFF	6	20	44	336730	1010000010010001101101101000
183	3	5	28	ON	7	50	44	342130	101000100100100111001001000
				OFF	7	51	48	342202	101000100101000101101001000
184	5	4	43	ON	9	21	32	347586	101010110111101111011101000
				OFF	9	23	9	347683	1010010111001001110001011000
184	5	7	71	ON	9	25	29	347822	101001011101101010111011000
				OFF	9	28	8	347981	10100101111011100010011001000
186	2	5	24	ON	12	20	57	358030	1010101100011010011111011000

88	8	8	3	OFF	8	3	47	361392	1010110001010011001111000000
				ON	9	18	54	365418	1010110001111101011000100000
				OFF	9	11	17	365441	1010110001000001011111110100
88	9	3	88	ON	9	29	23	366528	1010110110001100011000000000
				OFF	9	32	42	366727	1010110110111111001111110100
88	9	8	29	ON	9	48	42	367287	1010111100011001000100101100
				OFF	9	41	49	367274	1010111100100001010000001000
89	2	8	11	ON	18	39	1	378786	1011000011000100001100101000
				OFF	18	39	47	378752	1011000011001001110100000000
89	3	1	34	ON	18	59	48	371944	1011000101011011010101000000
				OFF	11	1	8	372824	1011000101100101000101100000
92	1	1	31	ON	15	43	27	388971	1011100101111001110011111000
				OFF	15	44	44	389848	1011100110000110011011000000
95	6	1	42	ON	28	3	28	484564	1100000011101001010000010000
				OFF	28	4	54	484658	1100000011101001011101010000
97	8	8	3	ON	22	58	38	415883	11000101111010101011111000
				OFF	22	59	2	415187	11000101111000000111011000
101	4	4	29	ON	4	57	49	436633	1101000000110011111010101000
				OFF	4	58	56	436788	1101000000111000001101000000
102	7	2	32	ON	6	27	23	442887	1101001011000011111011101100
				OFF	6	28	36	442888	1101001011001100110110000000
102	7	4	47	ON	6	29	48	442153	1101001011010101110000010100
				OFF	6	31	33	442258	1101001011100010100100101000
104	7	5	25	ON	9	27	14	452798	1101011111101001001100010000
				OFF	9	28	15	452859	1101011111110000101000111000
105	9	2	71	ON	18	58	57	458382	1101010100010010001000110000
				OFF	11	1	41	458466	1101010100011010001011010000
105	9	6	38	ON	11	13	36	459181	110101011110100010111001000
				OFF	11	14	55	459268	1101010111111000000011000000
106	6	4	55	ON	12	34	12	464816	1101101010000101001010000000
				OFF	12	36	18	464142	1101101010100001111101011000
109	3	8	15	ON	17	8	52	488817	1110010011100011110100110100
				OFF	17	1	28	488853	1110010011101000001110000100
118	9	2	31	ON	18	35	56	485721	1110011110011100000110101000
				OFF	18	37	8	485793	1110011110100100111001110100
115	7	2	11	ON	1	52	49	511934	1111010000011011111100011000
				OFF	1	53	28	511965	1111010000011111011101001000
116	7	1	22	ON	3	28	17	517662	1111010110101110010100110000
				OFF	3	29	18	517715	1111010110111011011000011000
116	7	2	48	ON	3	29	36	517741	1111010111000001100110001000
				OFF	3	31	28	517853	1111010111011100111101001000
117	3	5	59	ON	5	2	8	523285	1111001100001011001000001000
				OFF	5	4	13	523418	1111001100101011100110010000
118	9	1	13	ON	6	22	4	528889	1111101111001111111111010100
				OFF	6	22	44	528129	1111101111010100101111010000
118	9	2	43	ON	6	23	11	528156	1111101111011000001010100000
				OFF	6	25	5	528278	1111101111100110000101011000
118	9	4	98	ON	6	27	27	528412	1111101111110111011010110000
				OFF	6	38	56	528621	1111100000010000110111001000
119	7	2	65	ON	7	56	17	533742	1111110100000100000110110000
				OFF	7	58	55	533988	1111110100101010101011100000

119	7	6	28	ON	7	59	38	533934	11111111101001100101111110110000
				OFF	8	8	17	533981	111111110100111110011101001000
125	5	3	79	ON	9	26	27	2281	00000001000101100111000101000
				OFF	9	29	34	2468	0000001001010101000101000000
121	9	4	32	ON	11	11	44	8598	00001000001100110001111110000
				OFF	11	13	7	8681	0000100001000111011000101000
122	5	1	15	ON	12	33	23	13497	00001100110111111001010101000
				OFF	12	33	58	13532	0000110011100111101101100000
127	4	8	18	ON	28	2	36	48458	0001001101001001001101111101000
				OFF	28	3	1	48475	0001001101001100110010101111000
131	5	2	13	ON	1	52	21	61436	00011010100101111000001100000
				OFF	1	52	57	61472	00011010100111111110100000000
134	6	2	18	ON	6	22	54	77668	00100101000010001111010100000
				OFF	6	23	24	77698	00100101000010001001111010000
134	6	3	17	ON	6	28	2	77976	00100101001011101000111000000
				OFF	6	28	43	78817	00100101001100111000111101000
135	7	3	18	ON	7	55	55	83249	00100111101100100011101101000
				OFF	7	56	48	83294	00100111101101111011100110000
135	7	5	19	ON	7	57	25	83339	00100111101111010101101111000
				OFF	7	58	18	83384	00100111110000101011011000000
136	3	2	184	ON	9	24	56	88598	0010101000111110001010110000
				OFF	9	28	56	88838	0010101001011011100000110000
137	2	2	23	ON	11	3	12	94486	0010110100011011110000110000
				OFF	11	4	6	94548	0010110100010100100001110000
138	5	1	18	ON	12	32	47	99861	0010111110011110000100001000
				OFF	12	33	38	99984	0010111101000110101000000000
141	2	4	68	ON	17	12	11	116625	001101110011100011100110101000
				OFF	17	14	55	116789	001101110110000011100001000
149	6	3	42	ON	5	3	46	159328	01001011111110000011111000000
				OFF	5	5	23	159417	010010000001000001010101000
158	7	5	48	ON	6	27	22	164336	0100110010111001000110000000
				OFF	6	28	55	164429	0100110011001111110011001000
151	5	4	59	ON	7	55	11	169685	0101000110111111011110001000
				OFF	7	57	26	169748	0101000111100000011011100000
152	5	1	22	ON	9	23	47	174921	0101001101101000101010101000
				OFF	9	24	48	174974	0101001101101110010000110000
152	5	3	22	ON	9	25	32	175826	01010011011010101011101010000
				OFF	9	26	24	175878	0101001101110111101001110000
152	5	6	16	ON	9	27	51	175165	0101001100001100111001001000
				OFF	9	28	29	175283	01010011100010110001010111000
152	5	7	57	ON	9	38	8	175294	01010011100101100011000110000
				OFF	9	32	11	175425	01010011101001100010111101000
154	7	4	25	ON	12	31	19	186173	0101100011000110001110010000
				OFF	12	32	16	186238	010110001100110001110010000
156	9	3	14	ON	15	42	15	197629	0101100011001101001001110000
				OFF	15	42	56	197678	0101100011000001101000110000
157	2	4	56	ON	17	18	33	282927	01100000110000110101110011000
				OFF	17	13	8	283882	0110000011010100100100010000
159	3	8	13	ON	19	58	58	213832	011001011001010011100010000
				OFF	19	59	31	213865	0110010110011000111000101000
165	7	7	41	ON	5	2	8	245614	01110101000111100010110110000

166	7	2	27	OFF	5	3	36	245718	01110101001010011110010110000
				ON	6	19	49	250203	01110111010110000001111111000
				OFF	6	20	56	250350	01110111011000000100110110000
166	7	3	34	ON	6	23	39	250513	01110111011101000011001101000
				OFF	6	24	50	250592	0111011101111101110110110000000
167	3	3	18	ON	7	51	17	255772	01111001111101100010101100000
				OFF	7	52	1	255816	01111001111110111000101000000
167	3	7	19	ON	7	55	46	256040	011110100001011011100001000000
				OFF	7	56	31	256085	011110100001110001100000010000
168	3	2	16	ON	9	22	51	261265	01111100100101001011001101000
				OFF	9	23	29	261303	01111100100110011001011011000
168	3	7	59	ON	9	28	10	261585	01111100101110111100001101000
				OFF	9	30	23	261710	011111001100101111111111110000
172	5	3	28	ON	15	36	33	283687	10000111010001011100001011000
				OFF	15	37	46	283760	1000011101001111111111110000000
176	3	1	11	ON	21	41	23	305576	10010001101101011100001000000
				OFF	21	41	58	305611	100100011011101000000111111000
181	5	2	20	ON	4	54	41	331575	10011110000110110111011011000
				OFF	4	55	29	331623	10011110001000010101001011000
181	5	4	82	ON	4	58	18	331792	10011110001101011111010000000
				OFF	5	1	27	331981	10011110010011010000011001000
182	9	3	40	ON	6	19	24	336658	10100000100001111111001010000
				OFF	6	20	57	336751	10100000100100110100110011000
183	3	5	28	ON	7	50	57	342151	10100011001001100111101011000
				OFF	7	52	1	342215	10100011001011100100101011000
184	5	4	42	ON	9	21	45	347599	10100101101111111000010011000
				OFF	9	23	22	347696	10100101110010110101110000000
184	5	7	70	ON	9	25	42	347836	10100101110111000111001100000
				OFF	9	28	21	347995	10100101111011111110110111000
186	2	5	23	ON	12	29	10	358844	10101110001110000110011000000
				OFF	12	30	6	358900	10101110010001100001001000000
189	3	0	9	ON	16	53	34	374700	10110010101011001011100100000
				OFF	16	53	57	374731	101100101010111111000011111000
191	3	0	13	ON	19	54	2	385536	10110111110101110100000000000
				OFF	19	54	34	385560	10110111110110100110100000000
192	3	1	11	ON	21	38	35	391809	10110101101010000111111010000
				OFF	21	39	13	391847	10110101101100001100010110000
193	3	2	15	ON	22	45	56	395850	10111001100000110001000100000
				OFF	22	46	33	395887	10111001100011000001100110000
195	7	3	11	ON	1	45	14	406600	11000001111000101100010000000
				OFF	1	45	42	406636	11000001111001100010111100000
196	9	4	12	ON	3	33	8	413002	11000100111110010000110010000
				OFF	3	33	43	413117	11000100111111010101010010000
197	5	4	79	ON	4	55	16	418010	11000110101001010011100100000
				OFF	4	58	22	418196	11000110110101010101001000000
198	3	4	37	ON	6	17	37	422951	11001001101011011100001011000
				OFF	6	19	3	423037	11001001101110000100010110000
199	4	6	40	ON	7	50	30	428524	11001100010101100000111000000
				OFF	7	52	2	428616	11001100011000010100101000000
200	4	6	45	ON	9	23	34	434100	11001110111111111011001100000
				OFF	9	25	18	434212	11001110000110001100101000000

213	7	2	16	ON	4	44	24	5g3758	1111000000110101110010110000
				OFF	4	45	4	5g3798	11110000001110101100011110000
214	8	2	88	ON	6	11	18	5g8972	111100101011001001010111100000
				OFF	6	14	22	5g9156	111100101100100011010101000000
216	1	3	61	ON	9	15	19	528813	1111011111101100010011001000
				OFF	9	17	38	528152	11111000000001110001111000000
216	1	4	69	ON	9	20	1	528295	11111000000110001001001011000
				OFF	9	22	43	528457	11111000001011000101100101000
217	6	2	42	ON	10	40	31	525665	1111101010101000011000110001000
				OFF	10	50	8	525782	11111010101011001001101110000
223	4	8	15	ON	19	48	1	21184	00001010000100000010110000000
				OFF	19	48	37	21148	000010100001010010010001000000
231	4	4	19	ON	7	48	34	63857	00011110011100110000101101000
				OFF	7	41	18	63981	00011110011110000110101001000
232	9	4	29	ON	9	12	3	69346	00100001000100010001011010000
				OFF	9	13	11	69414	00100001000110010110001110000
232	9	5	73	ON	9	15	32	69555	00100001001010101001100111000
				OFF	9	18	26	69729	00100001001111111101011101000
233	6	2	48	ON	18	44	9	74872	00100011101100111010011000000
				OFF	18	45	43	74966	00100011101111110001111110000
233	6	4	36	ON	18	48	37	75148	00100011110101000101110100000
				OFF	18	50	8	75231	00100011110111110111100011000
233	6	8	52	ON	18	58	21	75725	00100100000110111100011001000
				OFF	11	1	28	75984	00100100001100011010000000000

- NOTE - OPERATION 87-3-7 CONSISTED OF 14 MORE FRAMES ON BOTH THE FWD PAN CAMERA AND THE AFT PAN CAMERA THAN REPORTED HERE. THESE FRAMES WERE INCLUDED IN THE A MISSION RECOVERY BUCKET.
- NOTE - OPERATION 88-8-8 WAS THE CUT AND WRAP OPERATION OCCURRING AT THE A TO B TRANSFER.
- NOTE - OPERATION 97-8-8 WAS THE LENS STOWING OPERATION OCCURRING AT THE TIME OF THE MISSION RECOVERY.
- NOTE - OPERATION 135-7-3 AND 135-7-5 DID NOT COVER THE EXACT LATITUDE RANGE AS PROGRAMMED PRE-FLIGHT DUE TO A STATION COMMANDING ERROR WHICH RESULTED IN THE H-TIMER BEING BIASED.
- NOTE - T/M DATA INDICATE NORMAL CAMERA SYSTEM PERFORMANCE FOR THE ENTIRE B MISSION.

A. 1842-2

B. WET

C. PERFORMANCE ESTIMATE - PART ONE

SECRET

OPERATIONS SUMMARY

FWD PAN CAMERA NUMBER		284												
OPN NO	FRA	0	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM		
87	3 7	5 ON	2 41 28	67 51E	595944	618656	22	8	3	22	1234	29882		
		OFF	2 48 33	68 3E	595984	617584	22	8	3	34	1235	29814		
88	8 8	3 ON	1 45 58	189 44W	929664	964816	22	9	18	41	151	33841		
		OFF	1 47 12	189 18W	923456	957568	22	9	11	4	153	33864		
88	9 3	88 ON	2 57 22	39 12E	638736	653712	22	9	29	18	12 5	34158		
		OFF	2 44 17	44 27E	681184	623856	22	9	32	29	1238	34349		
88	9 8	29 ON	2 11 58	58 12E	683952	625928	22	9	48	29	13 1	34829		
		OFF	2 7 25	58 44E	613888	636224	22	9	41	36	13 4	34896		
89	2 8	11 ON	1 38 51	134 11W	958816	994384	22	18	38	48	142	38328		
		OFF	1 41 46	133 29W	945872	988848	22	18	39	34	145	38374		
89	3 1	35 ON	2 55 45	17 27E	625712	648496	22	18	59	27	12 9	39567		
		OFF	2 58 32	19 46E	612968	635264	22	11	8	47	1219	39647		
92	1 1	32 ON	3 1 26	38 43W	641968	665368	22	15	43	14	13 8	56594		
		OFF	3 6 39	38 7W	661568	685696	22	15	44	31	1312	56671		
95	6 1	42 ON	2 37 38	112 9W	591448	612944	22	28	3	7	1234	72187		
		OFF	2 31 9	118 54W	588328	689696	22	28	4	41	1241	72281		
97	8 8	3 ON	2 54 13	162 41W	617984	648488	22	22	58	25	12 7	82785		
		OFF	2 52 46	162 2W	614648	637888	22	22	58	49	1218	82729		
101	4 4	29 ON	2 55 14	186 21E	617856	648336	23	4	57	36	12 3	17856		
		OFF	2 58 58	188 17E	688224	638352	23	4	58	43	1211	17923		
102	7 2	32 ON	2 56 14	83 14E	619768	642328	23	6	27	18	12 8	23238		
		OFF	2 51 28	85 25E	689848	631288	23	6	28	23	1218	23383		
102	7 4	47 ON	2 46 39	87 9E	688336	622176	23	6	29	35	1218	23375		
		OFF	2 39 39	89 4E	591616	613128	23	6	31	28	1227	23488		
104	7 5	25 ON	2 56 53	37 34E	651168	674912	23	9	27	1	1157	34821		
		OFF	2 52 56	39 38E	639984	663232	23	9	28	2	12 6	34882		
105	9 2	72 ON	2 58 18	17 57E	632128	655152	23	18	58	44	1218	39524		
		OFF	2 39 17	21 18E	611872	634144	23	11	1	28	1226	39688		
105	9 6	31 ON	3 8 53	28 3E	682512	787424	23	11	13	23	13 5	48483		
		OFF	3 14 9	28 41E	786224	732832	23	11	14	42	13 9	48482		
106	6 4	56 ON	2 29 12	8 31E	684888	625968	23	12	33	59	1236	45239		
		OFF	2 28 44	1 49E	686728	628784	23	12	36	5	1243	45365		
109	3 8	15 ON	2 42 34	78 15W	614688	636976	23	17	8	39	1219	61239		
		OFF	2 48 9	69 38W	611184	633424	23	17	1	15	1222	61275		
110	9 2	31 ON	2 22 9	88 59W	685632	627664	23	18	35	43	1239	66943		
		OFF	2 17 19	88 19W	618688	632832	23	18	36	55	1243	67815		
115	7 2	11 ON	2 72 54	138 12E	698832	724368	24	1	52	36	1833	6756		
		OFF	2 71 8	133 57E	691136	716384	24	1	53	7	1848	6787		
116	7 1	22 ON	2 52 29	127 51E	638512	653488	24	3	28	4	1159	12484		
		OFF	2 49 8	129 12E	622968	645648	24	3	28	57	12 5	12537		
116	7 2	49 ON	2 47 16	129 47E	619616	642176	24	3	29	23	12 8	12563		
		OFF	2 39 48	131 52E	688576	638728	24	3	31	15	1218	12675		
117	3 5	59 ON	2 37 36	189 43E	686328	628384	24	5	1	47	1228	18187		

SECRET

118	9	1	OFF	2	28	48	111	26E	683184	625848	24	5	4	8	1229	18248	
			14 ON	2	75	6	58	52E	786768	732688	24	6	21	51	18	5	22911
			OFF	2	73	2	61	55E	696896	722352	24	6	22	31	1838	22951	
118	9	2	43 ON	2	71	38	65	18E	698224	715448	24	6	22	58	1844	22978	
			OFF	2	64	48	74	45E	664448	688688	24	6	24	52	1123	23892	
118	9	4	91 ON	2	55	35	81	6E	637288	668496	24	6	27	14	1151	23234	
			OFF	2	41	47	86	4E	618648	632864	24	6	38	43	1215	23443	
119	7	2	66 ON	2	68	8	55	53E	649824	672688	24	7	56	4	1139	28564	
			OFF	2	49	43	68	59E	623424	646128	24	7	58	42	12	2	28722
119	7	6	28 ON	2	47	27	61	46E	619872	641688	24	7	59	17	12	6	28757
			OFF	2	44	22	62	43E	613984	636336	24	8	8	4	1218	28884	
128	5	3	88 ON	2	59	15	33	43E	646272	669848	24	9	26	14	1141	33974	
			OFF	2	47	2	39	16E	618864	648568	24	9	29	21	12	6	34161
121	9	4	33 ON	3	2	6	24	58E	665288	689552	24	11	11	31	1258	48291	
			OFF	3	7	42	25	28E	687928	713848	24	11	12	54	1254	48374	
122	5	1	15 ON	2	31	32	2	17W	683368	625312	24	12	33	18	1223	45198	
			OFF	2	29	18	1	53W	683472	625424	24	12	33	45	1226	45225	
127	4	8	11 ON	2	33	56	115	58W	683776	625744	24	28	2	23	1218	72143	
			OFF	2	32	16	115	39W	683536	625488	24	28	2	46	1228	72168	
131	5	2	13 ON	2	72	42	128	19E	684896	789872	25	1	52	8	1825	6728	
			OFF	2	78	41	132	27E	676144	788832	25	1	52	44	1842	6764	
134	6	2	11 ON	2	78	28	65	8E	672648	697288	25	6	22	41	1843	22961	
			OFF	2	68	35	67	52E	666368	698688	25	6	23	11	1854	22991	
134	6	3	17 ON	2	58	51	88	54E	628256	642832	25	6	27	49	1151	23269	
			OFF	2	48	9	81	52E	615776	638192	25	6	28	38	1156	23318	
135	7	3	18 ON	2	58	55	54	16E	637216	668432	25	7	55	42	1132	28542	
			OFF	2	56	2	55	55E	638384	653344	25	7	56	27	1148	28587	
135	7	5	19 ON	2	53	1	57	21E	624848	646768	25	7	57	12	1146	28632	
			OFF	2	58	2	58	34E	618568	641872	25	7	57	57	1152	28677	
136	3	2	185 ON	2	62	26	29	8E	646832	669584	25	9	24	43	1121	33883	
			OFF	2	46	47	37	3E	613328	635648	25	9	28	43	1156	34123	
137	2	2	23 ON	2	29	26	18	25E	684992	627888	25	11	2	59	1216	39779	
			OFF	2	25	49	19	8E	687344	629448	25	11	3	53	1219	39833	
138	5	1	19 ON	2	38	51	4	27W	684656	626656	25	12	32	34	1214	45154	
			OFF	2	27	57	3	57W	686832	628888	25	12	33	17	1217	45197	
141	2	4	61 ON	3	7	55	67	28W	783216	728912	25	17	11	58	1242	61918	
			OFF	3	18	52	65	58W	758592	786384	25	17	14	42	1258	62882	
149	6	3	43 ON	2	23	27	187	44E	613448	635768	26	5	3	33	1214	18213	
			OFF	2	16	55	188	39E	624544	647288	26	5	5	18	1219	18318	
158	7	5	41 ON	2	48	45	79	38E	613536	635856	26	6	27	9	1145	23229	
			OFF	2	42	36	81	22E	687568	629664	26	6	28	42	1154	23322	
151	5	4	68 ON	2	56	57	53	15E	626496	649312	26	7	54	58	1128	28498	
			OFF	2	48	4	57	6E	612496	634784	26	7	57	13	1145	28633	
152	5	1	22 ON	2	61	59	27	28E	637888	668384	26	9	23	34	1112	33814	
			OFF	2	58	38	29	39E	629528	652448	26	9	24	27	1123	33867	
152	5	3	22 ON	2	55	13	31	32E	622928	645616	26	9	25	19	1131	33919	
			OFF	2	51	49	33	4E	617296	639768	26	9	26	11	1138	33971	
152	5	6	16 ON	2	46	3	35	7E	618224	632432	26	9	27	38	1148	34858	
			OFF	2	43	33	35	51E	688112	638248	26	9	28	16	1151	34896	
152	5	7	58 ON	2	37	26	37	21E	685536	627568	26	9	29	47	1159	34187	
			OFF	2	28	37	39	2E	688672	638816	26	9	31	58	12	8	34318

154	7	4	25	ON	2	31	21	6	41W	686912	628992	26	12	31	6	12	4	45866
				OFF	2	27	38	6	1W	689872	632864	26	12	32	3	12	7	45120
156	9	3	14	ON	3	13	38	46	8W	742224	769488	26	15	42	2	1237		56522
				OFF	3	16	24	45	47W	756864	784688	26	15	42	43	1239		56563
157	2	4	57	ON	3	7	14	69	31W	711312	737328	26	17	18	28	1232		61828
				OFF	3	17	37	68	15W	764272	792288	26	17	12	55	1239		61975
159	3	8	14	ON	2	38	36	121	17W	685136	627152	26	19	58	45	1153		71925
				OFF	2	36	25	128	48W	685288	627216	26	19	59	18	1156		71958
165	7	7	42	ON	2	23	22	185	43E	617552	648832	27	5	1	47	12	4	18187
				OFF	2	16	56	186	37E	638288	653168	27	5	3	23	12	9	18283
166	7	2	27	ON	2	78	38	68	24E	651128	674864	27	6	19	36	1821		22776
				OFF	2	66	37	66	18E	648176	663584	27	6	28	43	1845		22843
166	7	3	34	ON	2	56	16	74	14E	619888	641536	27	6	23	26	1128		23886
				OFF	2	51	6	76	36E	611952	634224	27	6	24	45	1131		23885
167	3	3	18	ON	2	64	47	45	38E	635232	658384	27	7	51	4	1853		28264
				OFF	2	61	59	47	57E	629888	652888	27	7	51	48	11	3	28388
167	3	7	28	ON	2	47	22	55	19E	688224	638352	27	7	55	33	1136		28533
				OFF	2	44	21	56	14E	686328	628384	27	7	56	18	1141		28578
168	3	2	16	ON	2	58	15	27	53E	621664	644288	27	9	22	38	1114		33758
				OFF	2	55	47	29	15E	617632	648112	27	9	23	16	1128		33796
168	3	7	59	ON	2	37	9	35	25E	685328	627344	27	9	27	57	1149		34877
				OFF	2	28	14	37	6E	611488	633744	27	9	38	18	1158		34218
172	5	3	28	ON	2	1	4	49	49W	684752	789768	27	15	36	28	1217		56188
				OFF	3	3	49	49	15W	785688	731472	27	15	37	33	1228		56253
176	3	1	11	ON	3	28	46	137	38W	796592	825848	27	21	41	18	1238		78878
				OFF	3	23	6	137	18W	818168	839928	27	21	41	45	1232		78185
181	5	2	21	ON	2	43	6	99	57E	686248	628288	28	4	54	28	1134		17668
				OFF	2	39	55	188	46E	686448	628512	28	4	55	16	1138		17716
181	5	4	82	ON	2	28	33	183	2E	615184	637584	28	4	58	5	1158		17885
				OFF	2	15	52	184	53E	648568	663984	28	5	1	14	12	8	18874
182	9	3	48	ON	2	63	11	67	43E	625768	648544	28	6	19	11	1858		22751
				OFF	2	57	13	71	51E	616368	638888	28	6	28	44	11	8	22844
183	3	5	28	ON	2	56	32	49	37E	615248	637648	28	7	58	44	11	9	28244
				OFF	2	52	19	51	37E	618768	632992	28	7	51	48	1118		28388
184	5	4	43	ON	2	52	41	28	52E	618976	633288	28	9	21	32	1117		33692
				OFF	2	46	14	31	13E	686992	629872	28	9	23	9	1128		33789
184	5	7	71	ON	2	36	57	33	37E	688816	638144	28	9	25	29	1139		33929
				OFF	2	26	18	35	34E	619528	642888	28	9	28	8	1158		34888
186	2	5	24	ON	2	21	32	8	55W	629568	652496	28	12	28	57	1153		44937
				OFF	2	17	44	8	24W	638416	661688	28	12	29	53	1156		44993
189	3	8	18	ON	2	41	58	88	34W	687528	629616	28	16	53	21	1131		68881
				OFF	2	48	17	88	11W	687984	638816	28	16	53	44	1132		68824
191	3	8	14	ON	2	38	22	124	57W	689312	631472	28	19	53	49	1134		71629
				OFF	2	36	14	124	29W	618784	632928	28	19	54	21	1136		71661
192	3	1	12	ON	3	28	56	139	23W	818576	848368	28	21	38	22	1228		77982
				OFF	3	23	27	139	1W	825312	855648	28	21	39	8	1222		77948
193	3	2	15	ON	2	68	26	173	19E	632352	655392	28	22	45	43	1819		81943
				OFF	2	66	12	176	5E	627928	658784	28	22	46	28	1838		81988
195	7	3	12	ON	2	69	34	126	26E	633728	656816	29	1	45	1	1818		6381
				OFF	2	67	51	128	53E	638248	653288	29	1	45	29	1821		6329
196	9	4	11	ON	3	2	17	127	54E	716272	742464	29	3	32	55	12	4	12775

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	OFF	3	4	36	128	18E	727888	753688	29	3	33	38	12	6	1281			
197	5	4	81	ON	2	28	35	181	18E	628928	643536	29	4	55	3	1148	177888	
	OFF	2	16	3	183	8E	648728	672368	29	4	58	9	1158		17889			
198	3	4	38	ON	2	58	17	69	31E	614672	637848	29	6	17	24	1855	22644	
	OFF	2	52	39	72	23E	689888	632888	29	6	18	58	11	8	22738			
199	4	6	41	ON	2	46	4	52	18E	687776	629888	29	7	58	17	1119	28217	
	OFF	2	39	55	53	51E	689328	631488	29	7	51	49	1127		28389			
288	4	6	46	ON	2	32	52	32	44E	615696	638112	29	9	23	21	1134	33881	
	OFF	2	25	53	33	56E	626592	649488	29	9	25	5	1148		33985			
213	7	2	17	ON	2	57	27	91	2E	612328	634688	38	4	44	11	1848	17851	
	OFF	2	54	52	92	24E	618752	632976	38	4	44	51	1854		17891			
214	8	2	81	ON	2	68	19	58	53E	624496	647232	38	6	11	5	18	6	22265
	OFF	2	56	41	68	52E	611888	634864	38	6	14	9	1849		22449			
216	1	3	61	ON	2	58	57	26	28E	689984	632896	38	9	15	6	11	8	33386
	OFF	2	41	44	29	15E	612448	634736	38	9	17	25	1114		33445			
216	1	4	71	ON	2	32	7	31	28E	623128	645888	38	9	19	48	1125	33588	
	OFF	2	21	15	33	5E	645472	669888	38	9	22	38	1134		33758			
217	6	2	43	ON	2	37	9	7	44E	616784	639152	38	18	48	18	1119	38898	
	OFF	2	38	38	9	1E	625856	648688	38	18	49	55	1126		38995			
223	4	8	16	ON	2	32	58	126	55W	624432	647168	38	19	47	48	1128	71268	
	OFF	2	38	24	126	28W	628688	651584	38	19	48	24	1122		71384			
231	4	4	19	ON	2	53	42	46	21E	611168	633488	1	7	48	21	1845	27621	
	OFF	2	58	48	47	34E	611368	633688	1	7	41	5	1831		27665			
232	9	4	38	ON	2	46	39	26	27E	612992	635296	1	9	11	58	1857	33118	
	OFF	2	42	8	27	45E	616248	638672	1	9	12	58	11	4	33178			
232	9	5	75	ON	2	32	41	29	58E	628624	651528	1	9	15	19	1114	33319	
	OFF	2	21	8	31	44E	654928	678888	1	9	18	13	1125		33493			
233	6	2	41	ON	2	37	5	6	22E	622128	644768	1	18	43	56	11	9	38636
	OFF	2	38	47	7	36E	632416	655456	1	18	45	38	1115		38738			
233	6	4	37	ON	2	19	6	9	24E	668864	684976	1	18	48	24	1126	38984	
	OFF	2	12	59	18	11E	688688	785456	1	18	49	55	1138		38995			
233	6	8	52	ON	3	19	59	14	7E	836784	867568	1	18	58	8	1154	39488	
	OFF	3	31	46	15	57E	985936	939376	1	11	1	7	12	4	39667			

OPERATIONS SUMMARY

AFT PAN CAMERA NUMBER 285																						
OPN NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM										
87	3	7	6	ON	2	41	18	67	48E	595768	617424	22	8	3	35	1234	29815					
				OFF	2	48	32	68	8E	594784	616416	22	8	3	47	1235	29827					
88	8	8	3	ON	1	45	21	189	57W	925792	968888	22	9	18	54	158	33854					
				OFF	1	46	44	189	32W	919568	953536	22	9	11	17	152	33877					
88	9	3	88	ON	2	57	23	39	8E	628336	651216	22	9	29	23	12	5	34163				
				OFF	2	44	16	44	24E	599768	621584	22	9	32	42	1238	34362					
88	9	8	29	ON	2	11	57	58	8E	685696	627728	22	9	48	42	13	1	34842				
				OFF	2	7	25	58	48E	616128	638568	22	9	41	49	13	4	34989				
89	2	8	11	ON	1	38	21	134	23W	955888	998336	22	18	39	1	141	38341					
				OFF	1	41	17	133	42W	942864	976896	22	18	39	47	144	38387					
89	3	1	34	ON	2	55	46	17	24E	623456	646168	22	18	59	48	12	9	39588				
				OFF	2	58	32	19	42E	611872	633312	22	11	1	8	1219	39668					
92	1	1	31	ON	3	1	24	38	46W	645136	668648	22	15	43	27	13	8	56687				

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95	6	1	42	ON	2	37	27	112	12W	598784	612176	22	28	3	28	1234	72288
				OFF	2	31	7	118	56W	588192	689568	22	28	4	54	1248	72294
97	8	8	3	ON	2	54	13	162	44W	615936	638352	22	22	58	38	12	7
				OFF	2	52	46	162	5W	612784	635888	22	22	59	2	1218	82742
141	4	4	29	ON	2	55	14	186	18E	615792	638288	23	4	57	49	12	2
				OFF	2	58	49	188	15E	686512	628576	23	4	58	56	1211	17936
182	7	2	32	ON	2	56	14	83	11E	617632	648112	23	6	27	23	1159	23243
				OFF	2	51	27	85	23E	687328	629424	23	6	28	36	12	9
182	7	4	47	ON	2	46	38	87	6E	598976	628752	23	6	29	48	1218	23388
				OFF	2	39	37	89	1E	598848	612336	23	6	31	33	1227	23493
184	7	5	25	ON	2	56	56	37	29E	648576	672224	23	9	27	14	1156	34834
				OFF	2	52	58	39	26E	637584	668816	23	9	28	15	12	5
185	9	2	71	ON	2	58	12	17	53E	638896	653848	23	18	58	87	1218	39537
				OFF	2	39	16	21	7E	618728	632944	23	11	1	41	1225	39781
185	9	6	38	ON	3	8	46	27	58E	686384	711376	23	11	13	36	13	5
				OFF	3	14	1	28	36E	718528	736496	23	11	14	55	13	9
186	6	4	55	ON	2	29	11	8	28E	683984	625872	23	12	34	12	1235	45252
				OFF	2	28	43	1	46E	687536	629632	23	12	36	18	1243	45378
189	3	8	15	ON	2	42	34	78	18W	613264	635584	23	17	8	52	1219	61252
				OFF	2	48	9	69	41W	618848	632248	23	17	1	28	1222	61288
118	9	2	31	ON	2	22	8	89	2W	686352	628416	23	18	35	56	1239	66956
				OFF	2	17	19	88	22W	611872	634128	23	18	37	8	1243	67828
115	7	2	11	ON	2	73	8	129	53E	695584	728928	24	1	52	49	1832	6769
				OFF	2	71	14	133	42E	687928	713848	24	1	53	28	1847	6888
116	7	1	22	ON	2	52	38	127	47E	628528	651488	24	3	28	17	1159	12497
				OFF	2	49	1	129	8E	621288	643824	24	3	29	18	12	5
116	7	2	48	ON	2	47	16	129	44E	617984	648488	24	3	29	36	12	8
				OFF	2	39	47	131	49E	687616	629712	24	3	31	28	1218	12688
117	3	5	59	ON	2	37	35	189	48E	685616	627648	24	5	2	8	1228	18128
				OFF	2	28	39	111	23E	683328	625288	24	5	4	13	1229	18253
118	9	1	13	ON	2	75	12	55	27E	783392	729184	24	6	22	4	18	3
				OFF	2	73	8	61	37E	693616	718968	24	6	22	44	1829	22964
118	9	2	43	ON	2	71	36	65	2E	687848	712144	24	6	23	11	1843	22991
				OFF	2	64	44	74	37E	681664	685888	24	6	25	5	1123	23185
118	9	4	98	ON	2	55	37	81	2E	635184	658248	24	6	27	27	1151	23247
				OFF	2	41	47	86	1E	689536	631712	24	6	38	56	1214	23456
119	7	2	65	ON	2	68	3	55	48E	646528	678896	24	7	56	17	1139	28577
				OFF	2	49	44	68	55E	621688	644384	24	7	58	55	12	2
119	7	6	28	ON	2	47	28	61	43E	617528	648888	24	7	59	38	12	6
				OFF	2	44	22	62	48E	612688	634992	24	8	8	17	1218	28817
128	5	3	79	ON	2	59	17	33	39E	643856	667328	24	9	26	27	1148	33987
				OFF	2	47	2	39	13E	616592	639848	24	9	29	34	12	6
121	9	4	32	ON	3	2	2	24	45E	668688	693888	24	11	11	44	1258	48384
				OFF	3	7	35	25	24E	691856	717136	24	11	13	7	1254	48387
122	5	1	15	ON	2	31	31	2	28W	683328	625264	24	12	33	23	1223	45283
				OFF	2	29	9	1	55W	683696	625664	24	12	33	58	1226	45238
127	4	8	18	ON	2	33	55	116	1W	683632	625584	24	28	2	36	1218	72156
				OFF	2	32	15	115	42W	683536	625488	24	28	3	1	1219	72181
131	5	2	13	ON	2	72	47	128	4E	681888	785952	25	1	52	21	1824	6741
				OFF	2	78	46	132	15E	673232	697888	25	1	52	57	1841	6777

	OFF	2	28	14	37	3E	612544	634832	27	9	38	23	1158	34223				
172	5	3	28	ON	2	1	18	49	54W	688384	713836	27	15	36	33	1216	56193	
	OFF	3	3	41	49	28W	789728	735688	27	15	37	46	1228	56266				
176	3	1	11	ON	3	28	29	137	45W	881696	831136	27	21	41	23	1238	78883	
	OFF	3	22	48	137	25W	815488	845376	27	21	41	58	1232	78118				
181	5	2	28	ON	2	43	5	99	55E	686248	628384	28	4	54	41	1134	17681	
	OFF	2	39	54	188	43E	686688	628752	28	4	55	29	1138	17729				
181	5	4	82	ON	2	28	33	182	59E	616416	638848	28	4	58	18	1158	17898	
	OFF	2	15	54	184	49E	642976	666488	28	5	1	27	12	8	18887			
182	9	3	48	ON	2	63	12	67	39E	624248	646976	28	6	19	24	1849	22764	
	OFF	2	57	13	71	48E	615232	637616	28	6	28	57	11	8	22857			
183	3	5	28	ON	2	56	32	49	34E	614224	636576	28	7	58	57	11	9	28257
	OFF	2	52	18	51	38E	618888	632192	28	7	52	1	1118	28321				
184	5	4	42	ON	2	52	48	28	49E	618288	632416	28	9	21	45	1116	33785	
	OFF	2	46	14	31	18E	686752	628816	28	9	23	22	1127	33882				
184	5	7	78	ON	2	36	56	33	34E	688544	638688	28	9	25	42	1139	33942	
	OFF	2	26	19	35	31E	621888	643616	28	9	28	21	1158	34181				
186	2	5	23	ON	2	21	33	8	59W	631584	654496	28	12	29	18	1152	44958	
	OFF	2	17	46	8	28W	648752	664896	28	12	38	6	1155	45886				
189	3	8	9	ON	2	41	49	88	37W	687728	629848	28	16	53	34	1138	68814	
	OFF	2	48	16	88	14W	688248	638368	28	16	53	57	1132	68837				
191	3	8	13	ON	2	38	22	125	8W	689856	632848	28	19	54	2	1133	71642	
	OFF	2	36	13	124	32W	611392	633632	28	19	54	34	1136	71674				
192	3	1	11	ON	3	28	38	139	38W	815688	845664	28	21	38	35	1228	77915	
	OFF	3	23	8	139	9W	838576	861128	28	21	39	13	1222	77953				
193	3	2	15	ON	2	68	27	173	13E	638688	653664	28	22	45	56	1818	81956	
	OFF	2	66	12	176	1E	626432	649248	28	22	46	33	1838	81993				
195	7	3	11	ON	2	69	35	126	21E	632888	655184	29	1	45	14	1818	6314	
	OFF	2	67	52	128	48E	628672	651568	29	1	45	42	1828	6342				
196	9	4	12	ON	3	2	8	127	49E	728352	746784	29	3	33	8	12	4	12788
	OFF	3	4	26	128	4E	731216	757984	29	3	33	43	12	5	12823			
197	5	4	79	ON	2	28	35	181	15E	622416	645872	29	4	55	16	1148	17716	
	OFF	2	16	6	183	3E	651312	675856	29	4	58	22	1158	17982				
198	3	4	37	ON	2	58	16	69	29E	613768	636896	29	6	17	37	1855	22657	
	OFF	2	52	38	72	28E	689488	631584	29	6	19	3	11	8	22743			
199	4	6	48	ON	2	46	3	52	7E	687768	629872	29	7	58	38	1118	28238	
	OFF	2	39	54	53	48E	689848	632832	29	7	52	2	1127	28322				
200	4	6	45	ON	2	32	52	32	42E	616832	639288	29	9	23	34	1134	33814	
	OFF	2	25	54	33	53E	628368	651248	29	9	25	18	1148	33918				
213	7	2	16	ON	2	57	27	98	59E	611768	634816	38	4	44	24	1848	17864	
	OFF	2	54	51	92	21E	618368	632576	38	4	45	4	1854	17184				
214	8	2	88	ON	2	68	19	58	49E	623264	645952	38	6	11	18	18	6	22278
	OFF	2	56	48	68	58E	611296	633536	38	6	14	22	1849	22462				
216	1	3	61	ON	2	58	56	26	17E	689824	632816	38	9	15	19	11	8	33319
	OFF	2	41	44	29	11E	613856	635368	38	9	17	38	1114	33458				
216	1	4	69	ON	2	32	7	31	17E	624528	647288	38	9	28	1	1124	33681	
	OFF	2	21	18	33	1E	647792	671488	38	9	22	43	1134	33763				
217	6	2	42	ON	2	37	9	7	41E	617744	648224	38	18	48	31	1119	38911	
	OFF	2	38	39	8	57E	627488	658256	38	18	58	8	1125	39888				
223	4	8	15	ON	2	32	51	126	58W	625984	648688	38	19	48	1	1119	71281	
	OFF	2	38	25	126	32W	638248	653288	38	19	48	37	1122	71317				

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231	4	4	19	ON	2	53	41	46	18E	611152	633392	1	7	48	34	1845	27634	
				OFF	2	58	47	47	31E	611552	633888	1	7	41	18	1851	27678	
232	9	4	29	ON	2	46	39	26	24E	613528	635848	1	9	12	3	1857	33123	
				OFF	2	42	8	27	42E	617872	639536	1	9	13	11	11	3	33191
232	9	5	73	ON	2	32	43	29	47E	638288	653168	1	9	15	32	1114	33332	
				OFF	2	21	4	31	39E	657448	681488	1	9	18	26	1124	33586	
233	6	2	48	ON	2	37	6	6	19E	623392	646896	1	18	44	9	11	9	38649
				OFF	2	38	49	7	33E	634168	657264	1	18	45	43	1115	38743	
233	6	4	36	ON	2	19	11	9	28E	663552	687768	1	18	48	37	1125	38917	
				OFF	2	13	6	18	7E	683776	788752	1	18	58	8	1138	39888	
233	6	8	52	ON	3	19	38	13	59E	841824	872888	1	18	58	21	1154	39581	
				OFF	3	31	19	15	48E	911152	944784	1	11	1	28	12	4	39688

PHOTOGRAPHIC SUMMARY

FWD PAN CAMERA NO 284		0.2888 SLIT W/23A FILTER		3484 FILM								
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI			
87	3	7	5	13.2	ON	339	78.8	37.3	12.26	12.42	11.82	11.22
					OFF	339	71.4	38.7	12.26	12.42	11.82	11.22
88	8	8	3	7.9	ON	167	-16.3	12.1	11.23	8.8	8.8	8.8
					OFF	167	-14.9	12.1	11.23	8.8	8.8	8.8
88	9	3	88	232.8	ON	332	56.1	28.9	12.23	12.42	11.82	11.22
					OFF	338	68.3	32.3	12.25	12.42	11.82	11.22
88	9	8	29	76.7	ON	338	71.7	141.2	12.25	12.42	11.82	11.22
					OFF	336	68.8	148.5	12.25	12.42	11.82	11.22
89	2	8	11	29.1	ON	175	-23.4	12.4	11.38	8.8	8.8	8.8
					OFF	178	-28.5	12.2	11.33	8.8	8.8	8.8
89	3	1	35	92.6	ON	336	57.7	21.5	12.24	12.42	11.82	11.22
					OFF	337	62.7	25.2	12.25	12.42	11.82	11.22
92	1	1	32	84.6	ON	322	68.3	157.9	12.18	12.42	11.82	11.22
					OFF	318	55.3	168.8	12.13	12.42	11.82	11.22
95	6	1	42	111.1	ON	339	74.3	41.6	12.26	12.42	11.82	11.22
					OFF	339	78.3	62.7	12.26	12.42	11.82	11.22
97	8	8	3	7.9	ON	167	59.2	28.4	11.23	12.42	11.82	11.22
					OFF	167	68.6	21.3	11.23	12.42	11.82	11.22
181	4	4	29	76.7	ON	337	58.2	18.5	12.25	12.42	11.82	11.22
					OFF	338	62.5	21.2	12.25	12.42	11.82	11.22
182	7	2	32	84.6	ON	337	57.2	17.8	12.25	12.42	11.82	11.22
					OFF	338	61.9	28.4	12.25	12.42	11.82	11.22
182	7	4	47	124.3	ON	339	66.5	24.3	12.26	12.42	11.82	11.22
					OFF	339	72.9	33.7	12.26	12.42	11.82	11.22
184	7	5	25	66.1	ON	316	56.5	16.9	12.16	12.42	11.82	11.22
					OFF	323	68.5	18.9	12.19	12.42	11.82	11.22
185	9	2	72	198.4	ON	328	63.2	28.4	12.21	12.42	11.82	11.22
					OFF	337	73.3	33.8	12.25	12.42	11.82	11.22
185	9	6	31	82.8	ON	389	54.1	164.6	12.12	12.42	11.82	11.22
					OFF	298	48.9	166.3	12.87	12.42	11.82	11.22
186	6	4	56	148.1	ON	336	88.4	66.6	12.24	12.42	11.82	11.22
					OFF	336	88.8	118.2	12.24	12.42	11.82	11.22
189	3	8	15	39.7	ON	334	78.5	26.1	12.24	12.42	11.82	11.22
					OFF	335	72.7	29.5	12.24	12.42	11.82	11.22



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118	9	2	31	82.8	ON	336	81.2	111.8	12.24	12.42	11.82	11.22
					OFF	335	78.5	134.2	12.24	12.42	11.82	11.22
115	7	2	11	29.1	ON	272	39.8	18.8	11.94	12.38	11.78	11.18
					OFF	278	41.1	18.9	11.97	12.39	11.79	11.19
116	7	1	22	58.2	ON	323	68.9	15.6	12.19	12.42	11.82	11.22
					OFF	329	64.4	17.6	12.21	12.42	11.82	11.22
116	7	2	49	129.6	ON	332	66.1	18.8	12.23	12.42	11.82	11.22
					OFF	335	73.2	26.7	12.24	12.42	11.82	11.22
117	3	5	59	156.1	ON	335	75.3	29.9	12.24	12.42	11.82	11.22
					OFF	336	81.8	63.8	12.24	12.42	11.82	11.22
118	9	1	14	37.8	ON	266	36.2	18.3	11.91	12.36	11.76	11.16
					OFF	274	38.8	18.3	11.95	12.38	11.78	11.18
118	9	2	43	113.7	ON	278	48.7	18.3	11.97	12.39	11.79	11.19
					OFF	298	48.3	11.2	12.87	12.42	11.82	11.22
118	9	4	91	248.7	ON	318	57.8	13.7	12.17	12.42	11.82	11.22
					OFF	335	71.4	23.1	12.24	12.42	11.82	11.22
119	7	2	66	174.6	ON	389	53.2	12.1	12.12	12.42	11.82	11.22
					OFF	329	63.7	16.1	12.21	12.42	11.82	11.22
119	7	6	28	52.9	ON	332	65.9	17.5	12.23	12.42	11.82	11.22
					OFF	334	69.8	28.8	12.24	12.42	11.82	11.22
128	5	3	88	211.6	ON	312	54.8	12.8	12.14	12.42	11.82	11.22
					OFF	334	66.4	17.5	12.23	12.42	11.82	11.22
121	9	4	33	87.3	ON	318	61.8	165.7	12.13	12.42	11.82	11.22
					OFF	297	56.3	167.8	12.87	12.42	11.82	11.22
122	5	1	15	39.7	ON	336	88.5	44.1	12.24	12.42	11.82	11.22
					OFF	336	82.1	56.2	12.24	12.42	11.82	11.22
127	4	8	11	29.1	ON	336	78.9	32.1	12.24	12.42	11.82	11.22
					OFF	336	88.3	37.3	12.24	12.42	11.82	11.22
131	5	2	13	34.4	ON	282	38.9	7.9	11.99	12.38	11.78	11.18
					OFF	288	41.3	7.9	12.82	12.48	11.88	11.28
134	6	2	11	29.1	ON	298	41.7	7.3	12.83	12.48	11.88	11.28
					OFF	295	43.7	7.4	12.86	12.41	11.81	11.21
134	6	3	17	45.8	ON	332	62.5	18.8	12.23	12.42	11.82	11.22
					OFF	335	65.2	11.9	12.24	12.42	11.82	11.22
135	7	3	18	47.6	ON	316	54.1	8.4	12.16	12.42	11.82	11.22
					OFF	322	57.1	9.8	12.18	12.42	11.82	11.22
135	7	5	19	58.3	ON	327	68.2	9.8	12.21	12.42	11.82	11.22
					OFF	332	63.3	18.8	12.23	12.42	11.82	11.22
136	3	2	185	277.7	ON	318	58.4	7.6	12.16	12.42	11.82	11.22
					OFF	335	66.6	11.8	12.24	12.42	11.82	11.22
137	2	2	23	68.8	ON	336	83.1	48.6	12.24	12.42	11.82	11.22
					OFF	336	85.3	71.1	12.24	12.42	11.82	11.22
138	5	1	19	58.3	ON	336	82.8	33.8	12.24	12.42	11.82	11.22
					OFF	336	84.3	49.2	12.24	12.42	11.82	11.22
141	2	4	61	161.3	ON	295	57.2	172.8	12.86	12.42	11.82	11.22
					OFF	278	46.1	174.4	11.93	12.42	11.82	11.22
149	6	3	43	113.7	ON	335	87.2	188.1	12.24	12.42	11.82	11.22
					OFF	334	82.4	158.9	12.24	12.42	11.82	11.22
158	7	5	41	188.4	ON	335	64.4	6.3	12.24	12.42	11.82	11.22
					OFF	336	78.7	8.1	12.24	12.42	11.82	11.22
151	5	4	68	158.7	ON	338	55.8	4.7	12.22	12.42	11.82	11.22

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152	5	1	22	58.2	OFF	335	68.1	6.1	12.24	12.42	11.82	11.22
					ON	321	58.5	4.1	12.18	12.42	11.82	11.22
152	5	3	22	58.2	OFF	326	54.1	4.3	12.28	12.42	11.82	11.22
					ON	331	57.6	4.6	12.22	12.42	11.82	11.22
152	5	6	16	42.3	OFF	333	61.2	5.1	12.23	12.42	11.82	11.22
					ON	334	67.1	6.2	12.24	12.42	11.82	11.22
152	5	7	58	153.4	OFF	334	59.7	6.9	12.24	12.42	11.82	11.22
					ON	335	75.9	9.8	12.24	12.42	11.82	11.22
154	7	4	25	66.1	OFF	335	84.6	25.8	12.24	12.42	11.82	11.22
					ON	335	82.8	15.8	12.24	12.42	11.82	11.22
156	9	3	14	37.8	OFF	334	85.7	28.5	12.24	12.42	11.82	11.22
					ON	274	52.8	177.1	11.95	12.42	11.82	11.22
157	2	4	57	158.8	OFF	267	49.2	177.3	11.91	12.42	11.82	11.22
					ON	288	58.5	176.9	12.82	12.42	11.82	11.22
159	3	8	14	37.8	OFF	264	48.8	177.5	11.98	12.42	11.82	11.22
					ON	335	74.6	5.2	12.24	12.42	11.82	11.22
165	7	7	42	111.1	OFF	335	76.9	6.8	12.24	12.42	11.82	11.22
					ON	334	89.5	98.8	12.23	12.42	11.82	11.22
166	7	2	27	71.4	OFF	338	83.4	175.8	12.22	12.42	11.82	11.22
					ON	388	48.5	1.3	12.12	12.39	11.79	11.19
166	7	3	34	89.9	OFF	317	45.8	1.8	12.16	12.41	11.81	11.21
					ON	333	56.2	8.9	12.23	12.42	11.82	11.22
167	3	3	18	47.6	OFF	334	61.6	8.9	12.24	12.42	11.82	11.22
					ON	321	47.8	8.8	12.18	12.42	11.82	11.22
167	3	7	28	52.9	OFF	325	58.1	8.7	12.28	12.42	11.82	11.22
					ON	334	65.4	8.7	12.24	12.42	11.82	11.22
168	3	2	16	42.3	OFF	335	68.5	8.7	12.24	12.42	11.82	11.22
					ON	331	54.8	8.4	12.22	12.42	11.82	11.22
168	3	7	59	156.1	OFF	333	56.6	8.4	12.23	12.42	11.82	11.22
					ON	335	75.9	8.4	12.24	12.42	11.82	11.22
72	5	3	28	74.1	OFF	334	85.8	8.8	12.24	12.42	11.82	11.22
					ON	388	67.5	181.3	12.88	12.42	11.82	11.22
76	3	1	11	29.1	OFF	289	62.5	181.1	12.83	12.42	11.82	11.22
					ON	251	45.4	181.5	11.82	12.41	11.81	11.21
81	5	2	21	55.5	OFF	247	43.8	181.4	11.88	12.48	11.88	11.28
					ON	335	69.4	-4.9	12.24	12.42	11.82	11.22
81	5	4	82	216.9	OFF	335	72.6	-5.9	12.24	12.42	11.82	11.22
					ON	334	84.1	-17.4	12.24	12.42	11.82	11.22
82	9	3	48	185.8	OFF	324	82.5	-166.1	12.19	12.42	11.82	11.22
					ON	328	48.3	-2.5	12.21	12.42	11.82	11.22
83	3	5	28	74.1	OFF	334	54.7	-3.1	12.24	12.42	11.82	11.22
					ON	334	55.4	-3.4	12.24	12.42	11.82	11.22
84	5	4	43	113.7	OFF	335	59.8	-3.9	12.24	12.42	11.82	11.22
					ON	335	59.4	-4.1	12.24	12.42	11.82	11.22
84	5	7	71	187.8	OFF	335	66.8	-5.3	12.24	12.42	11.82	11.22
					ON	335	75.5	-8.8	12.24	12.42	11.82	11.22
86	2	5	24	63.5	OFF	334	85.9	-32.6	12.24	12.42	11.82	11.22
					ON	331	87.2	-118.2	12.22	12.42	11.82	11.22
89	3	8	18	26.4	OFF	326	84.2	-154.3	12.28	12.42	11.82	11.22
					ON	335	78.3	-8.6	12.24	12.42	11.82	11.22
					OFF	335	71.9	-9.3	12.24	12.42	11.82	11.22

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191	3	8	14	37.8	ON	335	73.7	-11.4	12.24	12.42	11.82	11.22
					OFF	335	75.8	-13.2	12.24	12.42	11.82	11.22
192	3	1	12	31.7	ON	246	45.6	184.8	11.79	12.41	11.81	11.21
					OFF	241	43.8	184.5	11.77	12.48	11.88	11.28
193	3	2	15	39.7	ON	323	42.2	-4.1	12.19	12.48	11.88	11.28
					OFF	326	44.6	-4.4	12.28	12.41	11.81	11.21
195	7	3	12	31.7	ON	324	48.8	-4.3	12.19	12.39	11.79	11.19
					OFF	327	42.7	-4.6	12.21	12.48	11.88	11.28
196	9	4	11	29.1	ON	282	64.4	189.1	11.99	12.42	11.82	11.22
					OFF	277	62.1	188.4	11.97	12.42	11.82	11.22
197	5	4	81	214.2	ON	334	82.6	-33.6	12.24	12.42	11.82	11.22
					OFF	328	82.2	-148.3	12.17	12.42	11.82	11.22
198	3	4	38	188.5	ON	334	53.8	-6.7	12.24	12.42	11.82	11.22
					OFF	335	58.8	-7.9	12.24	12.42	11.82	11.22
199	4	6	41	188.4	ON	335	65.5	-18.4	12.24	12.42	11.82	11.22
					OFF	335	71.7	-13.9	12.24	12.42	11.82	11.22
288	4	6	46	121.7	ON	335	78.5	-23.1	12.24	12.42	11.82	11.22
					OFF	333	84.3	-52.3	12.23	12.42	11.82	11.22
213	7	2	17	45.8	ON	335	53.2	-18.4	12.24	12.42	11.82	11.22
					OFF	335	55.9	-11.1	12.24	12.42	11.82	11.22
214	8	2	81	214.2	ON	338	41.5	-8.1	12.22	12.48	11.88	11.28
					OFF	336	53.9	-18.8	12.24	12.42	11.82	11.22
216	1	3	61	161.3	ON	337	59.7	-13.3	12.25	12.42	11.82	11.22
					OFF	336	68.9	-19.8	12.25	12.42	11.82	11.22
216	1	4	71	187.8	ON	335	77.8	-33.8	12.24	12.42	11.82	11.22
					OFF	324	83.2	-97.1	12.19	12.42	11.82	11.22
217	6	2	43	113.7	ON	336	73.1	-24.5	12.24	12.42	11.82	11.22
					OFF	335	78.9	-38.6	12.24	12.42	11.82	11.22
223	4	8	16	42.3	ON	335	76.4	-35.3	12.24	12.42	11.82	11.22
					OFF	335	78.4	-42.3	12.24	12.42	11.82	11.22
231	4	4	19	58.3	ON	337	55.5	-13.8	12.25	12.42	11.82	11.22
					OFF	337	59.8	-17.4	12.25	12.42	11.82	11.22
232	9	4	38	79.3	ON	337	63.8	-28.2	12.25	12.42	11.82	11.22
					OFF	336	67.3	-24.8	12.25	12.42	11.82	11.22
232	9	5	75	198.4	ON	335	75.6	-39.4	12.24	12.42	11.82	11.22
					OFF	318	88.9	-94.6	12.17	12.42	11.82	11.22
233	6	2	41	188.4	ON	336	71.9	-38.9	12.24	12.42	11.82	11.22
					OFF	333	77.8	-45.2	12.23	12.42	11.82	11.22
233	6	4	37	97.9	ON	314	88.4	-185.8	12.15	12.42	11.82	11.22
					OFF	382	77.2	-133.5	12.89	12.42	11.82	11.22
233	6	8	52	137.5	ON	234	46.8	-166.5	11.73	12.42	11.82	11.22
					OFF	215	35.1	191.2	11.68	12.35	11.75	11.15

PHOTOGRAPHIC SUMMARY

AFT PAN CAMERA NO		285	8.1588	SLIT	W/21	FILTER	3484	FILM				
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI			
87	3	7	6	15.9	ON	448	78.8	37.8	12.66	12.75	12.15	11.55
					OFF	449	71.5	38.5	12.66	12.75	12.15	11.55
88	8	8	3	7.9	ON	221	-16.8	11.7	11.64	8.8	8.8	8.8
					OFF	221	-15.4	11.6	11.64	8.8	8.8	8.8

SECRET

88	9	3	88	232.8	ON	439	56.8	28.3	12.63	12.75	12.15	11.55
					OFF	448	68.4	32.8	12.66	12.75	12.15	11.55
88	9	8	29	76.7	ON	447	71.8	141.3	12.66	12.75	12.15	11.55
					OFF	446	68.8	148.5	12.65	12.75	12.15	11.55
89	2	8	11	29.1	ON	232	-23.9	12.1	11.71	8.8	8.8	8.8
					OFF	236	-21.8	11.9	11.74	8.8	8.8	8.8
89	3	1	34	89.9	ON	444	57.6	21.8	12.65	12.75	12.15	11.55
					OFF	446	62.7	24.8	12.65	12.75	12.15	11.55
92	1	1	31	82.8	ON	426	68.3	157.9	12.59	12.75	12.15	11.55
					OFF	418	55.4	168.9	12.53	12.75	12.15	11.55
95	6	1	42	111.1	ON	449	74.3	41.4	12.66	12.75	12.15	11.55
					OFF	449	78.4	62.7	12.66	12.75	12.15	11.55
97	8	8	3	7.9	ON	221	59.2	19.7	11.64	12.75	12.15	11.55
					OFF	221	68.6	28.6	11.64	12.75	12.15	11.55
181	4	4	29	76.7	ON	446	58.2	18.1	12.65	12.75	12.15	11.55
					OFF	448	62.5	28.8	12.66	12.75	12.15	11.55
182	7	2	32	84.6	ON	446	57.2	17.3	12.65	12.75	12.15	11.55
					OFF	447	61.9	28.8	12.66	12.75	12.15	11.55
182	7	4	47	124.3	ON	448	66.6	24.8	12.66	12.75	12.15	11.55
					OFF	449	72.9	33.5	12.66	12.75	12.15	11.55
184	7	5	25	66.1	ON	418	56.5	16.4	12.56	12.75	12.15	11.55
					OFF	428	68.5	18.5	12.59	12.75	12.15	11.55
185	9	2	71	187.8	ON	434	63.2	28.8	12.61	12.75	12.15	11.55
					OFF	446	73.3	32.7	12.65	12.75	12.15	11.55
185	9	6	38	79.3	ON	489	54.2	164.7	12.53	12.75	12.15	11.55
					OFF	394	49.1	166.4	12.47	12.75	12.15	11.55
186	6	4	55	145.5	ON	444	88.4	66.4	12.65	12.75	12.15	11.55
					OFF	444	88.8	118.3	12.65	12.75	12.15	11.55
189	3	8	15	39.7	ON	442	78.5	25.7	12.64	12.75	12.15	11.55
					OFF	443	72.7	29.2	12.64	12.75	12.15	11.55
118	9	2	31	82.8	ON	444	81.2	111.8	12.65	12.75	12.15	11.55
					OFF	443	78.5	134.3	12.64	12.75	12.15	11.55
115	7	2	11	29.1	ON	368	38.9	8.7	12.34	12.71	12.11	11.51
					OFF	368	41.8	9.2	12.37	12.72	12.12	11.52
116	7	1	22	58.2	ON	427	68.9	15.2	12.59	12.75	12.15	11.55
					OFF	435	64.4	17.2	12.62	12.75	12.15	11.55
116	7	2	48	127.8	ON	438	66.1	18.4	12.63	12.75	12.15	11.55
					OFF	443	73.3	26.4	12.64	12.75	12.15	11.55
117	3	5	59	156.1	ON	443	75.3	29.6	12.64	12.75	12.15	11.55
					OFF	444	81.9	62.9	12.65	12.75	12.15	11.55
118	9	1	13	34.4	ON	352	36.8	7.5	12.31	12.69	12.89	11.49
					OFF	362	38.7	8.1	12.35	12.71	12.11	11.51
118	9	2	43	113.7	ON	368	48.5	8.6	12.38	12.72	12.12	11.52
					OFF	393	48.2	18.3	12.47	12.75	12.15	11.55
118	9	4	98	238.8	ON	428	57.7	13.2	12.57	12.75	12.15	11.55
					OFF	443	71.4	22.8	12.64	12.75	12.15	11.55
119	7	2	65	171.9	ON	488	53.2	11.4	12.52	12.75	12.15	11.55
					OFF	434	63.7	15.7	12.61	12.75	12.15	11.55
119	7	6	28	52.9	ON	439	65.9	17.2	12.63	12.75	12.15	11.55
					OFF	442	69.8	19.6	12.64	12.75	12.15	11.55
128	5	3	79	289.8	ON	489	53.9	11.4	12.53	12.75	12.15	11.55

121	9	4	32	84.6	OFF	437	66.4	17.1	12.62	12.75	12.15	11.55
					ON	486	61.9	165.8	12.52	12.75	12.15	11.55
122	5	1	15	39.7	OFF	389	56.4	167.9	12.48	12.75	12.15	11.55
					ON	441	88.6	43.9	12.64	12.75	12.15	11.55
127	4	8	18	26.4	OFF	441	82.1	56.8	12.64	12.75	12.15	11.55
					ON	441	78.9	31.8	12.64	12.75	12.15	11.55
131	5	2	13	34.4	OFF	441	80.3	37.1	12.64	12.75	12.15	11.55
					ON	369	38.8	5.9	12.38	12.71	12.11	11.51
134	6	2	18	26.4	OFF	377	41.2	6.3	12.41	12.73	12.13	11.53
					ON	388	41.6	5.8	12.42	12.73	12.13	11.53
134	6	3	17	45.8	OFF	387	43.6	6.1	12.45	12.74	12.14	11.54
					ON	435	62.5	18.4	12.62	12.75	12.15	11.55
135	7	3	18	47.6	OFF	439	65.2	11.5	12.63	12.75	12.15	11.55
					ON	415	54.1	7.8	12.55	12.75	12.15	11.55
135	7	5	19	58.3	OFF	422	57.1	8.5	12.57	12.75	12.15	11.55
					ON	429	68.2	9.4	12.68	12.75	12.15	11.55
136	3	2	184	275.1	OFF	435	63.3	18.4	12.62	12.75	12.15	11.55
					ON	417	58.3	6.9	12.55	12.75	12.15	11.55
137	2	2	23	68.8	OFF	448	66.6	11.4	12.63	12.75	12.15	11.55
					ON	441	83.2	48.3	12.64	12.75	12.15	11.55
138	5	1	18	47.6	OFF	441	85.3	71.8	12.64	12.75	12.15	11.55
					ON	441	82.1	32.6	12.64	12.75	12.15	11.55
141	2	4	68	158.7	OFF	441	84.3	48.9	12.64	12.75	12.15	11.55
					ON	387	57.3	172.9	12.45	12.75	12.15	11.55
149	6	3	42	111.1	OFF	354	46.3	174.5	12.32	12.75	12.15	11.55
					ON	448	87.2	188.8	12.63	12.75	12.15	11.55
158	7	5	48	185.8	OFF	439	82.4	159.1	12.63	12.75	12.15	11.55
					ON	448	64.4	5.9	12.63	12.75	12.15	11.55
151	5	4	59	156.1	OFF	441	78.7	7.8	12.64	12.75	12.15	11.55
					ON	432	55.8	4.2	12.61	12.75	12.15	11.55
152	5	1	22	58.2	OFF	448	65.1	5.7	12.63	12.75	12.15	11.55
					ON	424	58.4	3.3	12.58	12.75	12.15	11.55
152	5	3	22	58.2	OFF	432	54.8	3.7	12.61	12.75	12.15	11.55
					ON	438	57.6	4.1	12.63	12.75	12.15	11.55
152	5	6	16	42.3	OFF	442	61.2	4.6	12.64	12.75	12.15	11.55
					ON	443	67.1	5.8	12.64	12.75	12.15	11.55
152	5	7	57	158.8	OFF	443	69.7	6.6	12.64	12.75	12.15	11.55
					ON	444	75.9	9.4	12.64	12.75	12.15	11.55
154	7	4	25	66.1	OFF	443	84.6	25.2	12.64	12.75	12.15	11.55
					ON	443	82.8	14.6	12.64	12.75	12.15	11.55
156	9	3	14	37.8	OFF	443	85.7	27.9	12.64	12.75	12.15	11.55
					ON	363	52.2	177.2	12.35	12.75	12.15	11.55
157	2	4	56	148.1	OFF	354	49.4	177.4	12.32	12.75	12.15	11.55
					ON	382	58.7	177.8	12.43	12.75	12.15	11.55
159	3	8	13	34.4	OFF	358	48.2	177.7	12.38	12.75	12.15	11.55
					ON	444	74.6	4.9	12.64	12.75	12.15	11.55
165	7	7	41	188.4	OFF	444	76.9	5.7	12.64	12.75	12.15	11.55
					ON	442	89.6	97.2	12.64	12.75	12.15	11.55
166	7	2	27	71.4	OFF	437	83.4	176.2	12.62	12.75	12.15	11.55
					ON	488	48.4	-8.3	12.53	12.72	12.12	11.52
					OFF	419	45.8	8.8	12.56	12.74	12.14	11.54

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166	7	3	34	89.9	ON	441	56.2	8.4	12.64	12.75	12.15	11.55
					OFF	442	61.6	8.5	12.64	12.75	12.15	11.55
167	3	3	18	47.6	ON	424	47.8	-8.1	12.58	12.75	12.15	11.55
					OFF	431	58.1	-8.8	12.68	12.75	12.15	11.55
167	3	7	19	58.3	ON	443	65.4	8.3	12.64	12.75	12.15	11.55
					OFF	443	68.5	8.4	12.64	12.75	12.15	11.55
168	3	2	16	42.3	ON	438	54.8	-8.2	12.63	12.75	12.15	11.55
					OFF	441	56.6	-8.1	12.64	12.75	12.15	11.55
168	3	7	59	156.1	ON	444	75.9	8.8	12.64	12.75	12.15	11.55
					OFF	443	85.8	8.2	12.64	12.75	12.15	11.55
172	5	3	28	74.1	ON	397	67.6	181.5	12.49	12.75	12.15	11.55
					OFF	383	62.6	181.2	12.43	12.75	12.15	11.55
176	3	1	11	29.1	ON	333	45.7	181.7	12.23	12.74	12.14	11.54
					OFF	327	43.3	181.6	12.21	12.74	12.14	11.54
181	5	2	28	52.9	ON	444	69.4	-5.3	12.64	12.75	12.15	11.55
					OFF	444	72.6	-6.2	12.64	12.75	12.15	11.55
181	5	4	82	216.9	ON	443	84.8	-17.9	12.64	12.75	12.15	11.55
					OFF	429	82.6	-165.6	12.68	12.75	12.15	11.55
182	9	3	48	185.8	ON	426	48.3	-3.3	12.59	12.75	12.15	11.55
					OFF	434	54.7	-3.6	12.61	12.75	12.15	11.55
183	3	5	28	74.1	ON	435	55.4	-3.9	12.61	12.75	12.15	11.55
					OFF	435	59.8	-4.3	12.62	12.75	12.15	11.55
184	5	4	42	111.1	ON	435	59.4	-4.5	12.62	12.75	12.15	11.55
					OFF	436	66.8	-5.6	12.62	12.75	12.15	11.55
184	5	7	78	185.1	ON	436	75.5	-9.1	12.62	12.75	12.15	11.55
					OFF	435	85.9	-33.8	12.62	12.75	12.15	11.55
186	2	5	23	68.8	ON	438	87.1	-117.3	12.68	12.75	12.15	11.55
					OFF	423	84.2	-153.7	12.58	12.75	12.15	11.55
189	3	8	9	23.8	ON	436	78.3	-8.9	12.62	12.75	12.15	11.55
					OFF	436	71.9	-9.6	12.62	12.75	12.15	11.55
191	3	8	13	34.4	ON	436	73.7	-11.7	12.62	12.75	12.15	11.55
					OFF	436	75.8	-13.5	12.62	12.75	12.15	11.55
192	3	1	11	29.1	ON	328	45.9	185.8	12.17	12.75	12.15	11.55
					OFF	314	43.3	184.8	12.15	12.74	12.14	11.54
193	3	2	15	39.7	ON	419	42.1	-5.3	12.56	12.73	12.13	11.53
					OFF	424	44.6	-5.4	12.58	12.74	12.14	11.54
195	7	3	11	29.1	ON	421	48.8	-5.6	12.57	12.72	12.12	11.52
					OFF	425	42.7	-5.7	12.58	12.73	12.13	11.53
196	9	4	12	31.7	ON	367	64.6	189.3	12.37	12.75	12.15	11.55
					OFF	368	62.3	188.6	12.34	12.75	12.15	11.55
197	5	4	79	289.8	ON	435	82.6	-33.9	12.61	12.75	12.15	11.55
					OFF	415	82.3	-147.8	12.55	12.75	12.15	11.55
198	3	4	37	97.9	ON	435	53.8	-7.3	12.62	12.75	12.15	11.55
					OFF	436	58.8	-8.4	12.62	12.75	12.15	11.55
199	4	6	48	185.8	ON	436	65.5	-18.7	12.62	12.75	12.15	11.55
					OFF	436	71.7	-14.2	12.62	12.75	12.15	11.55
200	4	6	45	119.8	ON	435	78.5	-23.4	12.62	12.75	12.15	11.55
					OFF	433	84.3	-52.5	12.61	12.75	12.15	11.55
213	7	2	16	42.3	ON	435	53.2	-18.9	12.62	12.75	12.15	11.55
					OFF	436	55.9	-11.6	12.62	12.75	12.15	11.55
214	8	2	88	211.6	ON	431	41.5	-9.2	12.68	12.73	12.13	11.53

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216	1	3	61	161.3	ON	439	53.9	-11.3	12.63	12.75	12.15	11.55
					OFF	448	59.7	-13.7	12.63	12.75	12.15	11.55
216	1	4	69	182.5	ON	438	68.8	-19.3	12.63	12.75	12.15	11.55
					OFF	423	83.1	-96.7	12.58	12.75	12.15	11.55
217	6	2	42	111.1	ON	439	73.1	-24.8	12.63	12.75	12.15	11.55
					OFF	438	78.8	-38.8	12.63	12.75	12.15	11.55
223	4	8	15	39.7	ON	438	76.4	-35.5	12.63	12.75	12.15	11.55
					OFF	438	78.3	-42.5	12.63	12.75	12.15	11.55
231	4	4	19	58.3	ON	448	56.1	-16.4	12.63	12.75	12.15	11.55
					OFF	448	59.8	-17.8	12.63	12.75	12.15	11.55
232	9	4	29	76.7	ON	448	63.8	-28.5	12.63	12.75	12.15	11.55
					OFF	448	67.3	-24.4	12.63	12.75	12.15	11.55
232	9	5	73	193.1	ON	438	75.6	-39.6	12.63	12.75	12.15	11.55
					OFF	415	88.8	-94.2	12.55	12.75	12.15	11.55
233	6	2	48	185.8	ON	439	71.8	-31.1	12.63	12.75	12.15	11.55
					OFF	435	76.9	-45.3	12.62	12.75	12.15	11.55
233	6	4	36	95.2	ON	411	88.4	-185.4	12.53	12.75	12.15	11.55
					OFF	395	77.3	-133.8	12.48	12.75	12.15	11.55
233	6	8	52	137.5	ON	387	47.2	-166.2	12.11	12.75	12.15	11.55
					OFF	282	35.5	191.5	11.99	12.68	12.88	11.48

STELLAR-INDEX SUMMARY

CAMERA DATA	ET	FILM	FILTER	GRID	ASSEMBLY NO	D898
STELLAR INDEX	1.8	4481	NONE	121		
PERFORMANCE SUMMARY	1/500	4488	W/21	118		

OPN NO	FR	STEL FEET	INDX FEET	H	M	S	Q	LAT	LONG	Q	LAT	LONG	SEC DUR		
87	3	7	1	8.18	8.28	8	3	22	2	41	67E	2	48	68E	25
88	9	3	13	1.29	2.57	9	29	18	2	57	39E	2	44	44E	212
88	9	8	5	8.49	8.99	9	48	29	2	11	58E	2	7	58E	88
89	2	8	2	8.28	8.48	18	38	48	1	38	134W	1	41	133W	59
89	3	1	6	8.59	1.19	18	59	27	2	55	17E	2	58	19E	93
92	1	1	5	8.49	8.99	15	43	14	3	1	38W	3	6	38W	98
95	6	1	7	8.69	1.39	28	3	7	2	37	112W	2	31	118W	187
181	4	4	5	8.49	8.99	4	57	36	2	55	186E	2	58	188E	88
182	7	2	5	8.49	8.99	6	27	18	2	56	83E	2	51	85E	86
182	7	4	8	8.79	1.58	6	29	35	2	46	87E	2	39	89E	118
184	7	5	4	8.48	8.79	9	27	1	2	56	37E	2	52	39E	74
185	9	2	11	1.89	2.18	18	58	44	2	58	17E	2	39	21E	177
185	9	6	5	8.49	8.99	11	13	23	3	8	28E	3	14	28E	92
186	6	4	9	8.89	1.78	12	33	59	2	29	8E	2	28	1E	139
189	3	8	3	8.38	8.59	17	8	39	2	42	78W	2	48	69W	49
118	9	2	5	8.49	8.99	18	35	43	2	22	88W	2	17	88W	85
115	7	2	2	8.28	8.48	1	52	36	2	72	138E	2	71	133E	44
116	7	1	4	8.48	8.79	3	28	4	2	52	127E	2	49	129E	66
116	7	2	8	8.79	1.58	3	29	23	2	47	129E	2	39	131E	125
117	3	5	9	8.89	1.78	5	1	47	2	37	189E	2	28	111E	146
118	9	1	3	8.38	8.59	6	21	51	2	75	55E	2	73	61E	53

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118	9	2	7	0.69	1.39	6	22	58	2	71	65E	2	64	74E	127
118	9	4	14	1.39	2.77	6	27	14	2	85	81E	2	41	86E	222
119	7	2	18	0.99	1.98	7	56	4	2	60	55E	2	49	68E	171
119	7	6	4	0.48	0.79	7	59	17	2	47	61E	2	44	62E	68
120	5	3	12	1.19	2.38	9	26	14	2	59	33E	2	47	39E	288
121	9	4	5	0.49	0.99	11	11	31	3	2	24E	3	7	25E	96
122	5	1	3	0.38	0.59	12	33	18	2	31	2W	2	29	1W	48
127	4	8	2	0.28	0.48	28	2	23	2	33	115W	2	32	115W	38
131	5	2	3	0.38	0.59	1	52	8	2	72	128E	2	78	132E	49
134	6	2	2	0.28	0.48	6	22	41	2	78	65E	2	68	67E	43
134	6	3	3	0.38	0.59	6	27	49	2	58	88E	2	48	81E	54
135	7	3	3	0.38	0.59	7	55	42	2	58	54E	2	56	55E	58
135	7	5	3	0.38	0.59	7	57	12	2	53	57E	2	58	58E	58
136	3	2	16	1.58	3.17	9	24	43	2	62	29E	2	46	37E	253
137	2	2	4	0.48	0.79	11	2	59	2	29	18E	2	25	19E	67
138	5	1	4	0.48	0.79	12	32	34	2	38	4W	2	27	3W	56
141	2	4	9	0.89	1.78	17	11	58	3	7	67W	3	18	65W	177
149	6	3	7	0.69	1.39	5	3	33	2	23	187E	2	16	188E	118
158	7	5	7	0.69	1.39	6	27	9	2	48	79E	2	42	81E	186
151	5	4	9	0.89	1.78	7	54	58	2	56	53E	2	48	57E	148
152	5	1	4	0.48	0.79	9	23	34	2	61	27E	2	58	29E	66
152	5	3	4	0.48	0.79	9	25	19	2	55	31E	2	51	33E	65
152	5	6	3	0.38	0.59	9	27	38	2	46	35E	2	43	35E	51
152	5	7	9	0.89	1.78	9	29	47	2	37	37E	2	28	39E	144
154	7	4	4	0.48	0.79	12	31	6	2	31	6W	2	27	6W	78
156	9	3	3	0.38	0.59	15	42	2	3	13	46W	3	16	45W	54
157	2	4	9	0.89	1.78	17	18	28	3	7	69W	3	17	68W	168
159	3	8	3	0.38	0.59	19	58	45	2	38	121W	2	36	128W	46
165	7	7	7	0.69	1.39	5	1	47	2	23	185E	2	16	186E	189
166	7	2	5	0.49	0.99	6	19	36	2	78	68E	2	66	66E	88
166	7	3	6	0.59	1.19	6	23	26	2	56	74E	2	51	76E	92
167	3	3	3	0.38	0.59	7	51	4	2	64	45E	2	61	47E	57
167	3	7	4	0.48	0.79	7	55	33	2	47	55E	2	44	56E	58
168	3	2	3	0.38	0.59	9	22	38	2	58	27E	2	55	29E	51
168	3	7	9	0.89	1.78	9	27	57	2	37	35E	2	28	37E	146
172	5	3	5	0.49	0.99	15	36	28	2	1	49W	3	3	49W	86
176	3	1	2	0.28	0.48	21	41	18	3	28	137W	3	23	137W	48
181	5	2	4	0.48	0.79	4	54	28	2	43	99E	2	39	188E	61
181	5	4	13	1.29	2.57	4	58	5	2	28	183E	2	15	184E	282
182	9	3	7	0.69	1.39	6	19	11	2	63	67E	2	57	71E	186
183	3	5	5	0.49	0.99	7	58	44	2	56	49E	2	52	51E	77
184	5	4	7	0.69	1.39	9	21	32	2	52	28E	2	46	31E	118
184	5	7	11	1.89	2.18	9	25	29	2	36	33E	2	26	35E	172
186	2	5	4	0.48	0.79	12	28	57	2	21	8W	2	17	8W	69
169	3	8	2	0.28	0.48	16	53	21	2	41	88W	2	48	88W	36
191	3	8	3	0.38	0.59	19	53	49	2	38	124W	2	36	124W	45
192	3	1	2	0.28	0.48	21	38	22	3	28	139W	3	23	139W	51
193	3	2	3	0.38	0.59	22	45	43	2	68	173E	2	66	176E	58
195	7	3	3	0.38	0.59	1	45	1	2	69	126E	2	67	128E	41
196	9	4	2	0.28	0.48	3	32	55	3	2	127E	3	4	128E	48
197	5	4	12	1.19	2.38	4	55	3	2	28	181E	2	16	183E	199

3	4	6	8.59	1.19	6	17	24	2	58	69E	2	52	72E	99
3	4	6	8.69	1.39	7	58	17	2	46	52E	2	39	53E	185
8	4	6	8.59	1.39	9	23	21	2	32	32E	2	25	33E	117
3	7	2	8.38	8.59	4	44	11	2	57	91E	2	54	92E	53
4	8	2	1.19	2.38	6	11	5	2	68	58E	2	56	68E	197
6	1	3	8.99	1.98	9	15	6	2	58	26E	2	41	29E	152
6	1	4	1.89	2.18	9	19	48	2	32	31E	2	21	33E	175
7	6	2	8.69	1.39	18	48	18	2	37	7E	2	38	9E	118
3	4	8	8.38	8.59	19	47	48	2	32	126W	2	38	126W	49
1	4	4	8.48	8.79	7	48	21	2	53	46E	2	58	47E	57
2	9	4	8.49	8.99	9	11	58	2	46	26E	2	42	27E	61
2	9	5	1.19	2.38	9	15	19	2	32	29E	2	21	31E	187
3	6	2	8.69	1.39	18	43	56	2	37	6E	2	38	7E	187
3	6	4	8.59	1.19	18	48	24	2	19	9E	2	12	18E	184
3	6	8	8.79	1.58	18	58	8	3	19	14E	3	31	15E	192

- NOTE - OPERATION 87-3-7 CONSISTED OF 14 MORE FRAMES ON BOTH THE FWD PAN CAMERA AND THE AFT PAN CAMERA THAN REPORTED HERE. THESE FRAMES WERE INCLUDED IN THE A MISSION RECOVERY BUCKET.
- NOTE - OPERATION 88-8-8 WAS THE CUT AND WRAP OPERATION OCCURRING AT THE A TO B TRANSFER.
- NOTE - OPERATION 97-8-8 WAS THE LENS STOWING OPERATION OCCURRING AT THE TIME OF THE MISSION RECOVERY.
- NOTE - OPERATION 135-7-3 AND 135-7-5 DID NOT COVER THE EXACT LATITUDE RANGE AS PROGRAMMED PRE-FLIGHT DUE TO A STATION COMMANDING ERROR WHICH RESULTED IN THE H-TIMER BEING BIASED.
- NOTE - T/M DATA INDICATE NORMAL CAMERA SYSTEM PERFORMANCE FOR THE ENTIRE B MISSION.