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1029-2
CORONA "J" FLIC

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4 PAGES
(NOT INCLUDING PEST)

CORONA J-FLIGHT DATA BOOK

SYSTEM NO. J-27

VEHICLE NO. 1623

MISSION NO. 1829-2

CAMERA NOS. 178/179

DATE 2-14-66

PAGE 1

SYSTEM NO. J-27
VEHICLE NO. 1623
MISSION NO. 1829-2
CAMERA NOS. 178/179

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SYSTEM NO. J-27
VEHICLE NO. 1623
MISSION NO. 1829-2
CAMERA NOS. 178/179

GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 178

SLAVE CAMERA SERIAL NO. 179

S/I -1 SERIAL NO. D79/94/91

S/I -2 SERIAL NO. D76/78/94

LAUNCH DATE 2-2-66

REACTIVATION DATE N/A

REACTIVATION ORBIT N/A

ORBITAL PARAMETERS (REV. 128)

PERIOD 90.496 MIN ECCENTRICITY 0.81814

PERIGEE 188.683 NM PERIGEE LAT. 41.987

APOGEE 231.348 NM INCL. ANGLE 75.845

RECOVERY ORBIT NO. 168

RECOVERY DATE 2-12-66

SYSTEM NO. J-27
VEHICLE NO. 1623
MISSION NO. 1029-2
CAMERA NOS. 178/179

CYCLE PERIOD DATA

V/H LEVEL	RAMP AMPLITUDE	SETTING RAMP-SEC	TIME UP RAMP-SEC	---CALIBRATED---		---IN-FLIGHT---		ORB CYCLE PERIOD-SEC NO.
				MASTER CYCLE PERIOD-SEC	SLAVE CYCLE PERIOD-SEC	MASTER CYCLE PERIOD-SEC	SLAVE CYCLE PERIOD-SEC	
8	2		323	5.210	5.129	5.073	5.230	88
8	2		1988	2.203	2.200	2.215	2.250	94
8	2		398	5.041	4.968	4.920	4.875	119
8	2		1938	2.203	2.200	2.240	2.275	126
8	2		1975	2.204	2.200	2.229	2.271	142

NOTE

AN * OR -0 INDICATES NO DATA AVAILABLE.

A. 1829-2

B. DRY

C. PERFORMANCE ESTIMATE PART ONE

OPERATIONS SUMMARY

FWD PAN CAMERA NUMBER 178															
OPN	NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM		
81	3	1	27	ON	2 62 41	169 46E	689506	714678	2	23	46	39	11	5	85599
				OFF	2 58 37	174 39E	678477	694932	2	23	47	49	1126		85669
81	8	8	4	ON	2 55 53	177 13E	659151	683179	2	23	48	31	1137		85711
				OFF	2 54 29	178 21E	653813	677648	2	23	48	55	1142		85735
83	6	1	55	ON	2 62 31	124 19E	687324	712413	3	2	47	47	11	5	18867
				OFF	2 54 28	132 42E	652764	676551	3	2	58	3	1148		18283
84	4	1	139	ON	2 45 38	115 23E	625528	648284	3	4	22	57	12	4	15777
				OFF	2 25 33	122 36E	685281	627285	3	4	28	6	1238		16886
85	4	1	55	ON	2 66 35	71 48E	787683	733541	3	5	47	38	1834		28858
				OFF	2 58 32	83 24E	667726	692877	3	5	58	2	1123		21882
85	4	2	34	ON	2 55 34	86 8E	655883	679788	3	5	58	51	1135		21851
				OFF	2 58 28	89 58E	638459	661789	3	5	52	14	1151		21134
85	4	3	63	ON	2 37 33	96 1E	618416	632613	3	5	55	35	1219		21335
				OFF	2 28 38	98 57E	684776	626761	3	5	57	54	1233		21474
86	5	1	77	ON	2 53 32	64 55E	648814	671622	3	7	21	56	1141		26516
				OFF	2 42 29	71 12E	618286	648695	3	7	24	51	12	9	26691
87	5	1	121	ON	2 52 34	42 46E	644342	667812	3	8	52	44	1143		31964
				OFF	2 38 8	58 11E	618889	633184	3	8	56	33	1217		32193
88	6	8	9	ON	1 38 53	121 55W	1898488	1131879	3	18	2	19	154		36139
				OFF	1 41 47	128 44W	1871949	1111815	3	18	3	7	2	8	36187
88	6	1	22	ON	2 63 35	8 37E	689125	714283	3	18	28	11	1854		37211
				OFF	2 68 35	12 39E	674871	699491	3	18	21	4	1111		37264
88	6	2	24	ON	2 31 34	29 32E	685668	627688	3	18	28	44	1226		37724
				OFF	2 28 8	38 36E	685372	627388	3	18	29	39	1232		37779
88	6	3	21	ON	2 23 7	31 54E	687994	638188	3	18	38	53	1238		37853
				OFF	2 28 3	32 39E	611441	633676	3	18	31	39	1242		37899
89	7	1	55	ON	3 23 56	19 25E	887383	836943	3	12	13	17	1331		43997
				OFF	3 35 31	22 51E	894923	927921	3	12	16	16	1347		44176
94	7	1	23	ON	2 33 34	188 4W	686584	628637	3	19	31	25	1219		78285
				OFF	2 38 5	186 59W	685716	627737	3	19	32	18	1224		78338
96	3	1	51	ON	2 78 31	178 2E	724141	758623	3	22	22	7	942		88527
				OFF	2 63 41	174 11W	684113	789882	3	22	24	23	1847		88663
98	7	1	35	ON	2 66 38	135 8E	697349	722817	4	1	24	34	1825		5874
				OFF	2 61 35	143 5E	673888	697632	4	1	26	4	1858		5164
98	7	2	21	ON	2 47 29	154 46E	625923	648782	4	1	29	55	1149		5395
				OFF	2 44 27	156 18E	619441	641977	4	1	38	43	1155		5443
99	7	1	62	ON	2 78 24	181 56E	728868	747217	4	2	53	44	941		18424
				OFF	2 62 3	119 39E	674578	699186	4	2	56	27	1855		18587
99	7	2	42	ON	2 45 27	133 8E	621285	643887	4	3	8	58	1152		18858
				OFF	2 39 25	135 39E	611351	633584	4	3	2	32	12	5	18952
188	4	1	75	ON	2 56 32	188 55E	659331	683365	4	4	27	58	1111		16878
				OFF	2 47 26	189 8E	625269	648823	4	4	38	58	1147		16258
188	4	2	92	ON	2 34 35	114 35E	687118	629192	4	4	34	18	1212		16458

		OFF	2	21	38	118	19E	612691	634973	4	4	37	37	1238	16657			
181	3	1	69	ON	2	68	31	75	54E	666889	691125	4	5	57	56	11	1	21476
		OFF	2	58	27	84	32E	632582	655528	4	6	8	42	1138	21642			
181	3	2	63	ON	2	43	38	88	16E	617129	639578	4	6	2	31	1155	21751	
		OFF	2	34	28	91	48E	687896	629169	4	6	4	58	1212	21898			
182	4	2	119	ON	2	53	35	59	33E	641225	664578	4	7	38	22	1128	27822	
		OFF	2	36	34	68	15E	688395	638516	4	7	34	49	12	7	27289		
183	3	1	71	ON	2	61	38	28	52E	678374	694824	4	8	58	39	1854	32319	
		OFF	2	51	32	38	18E	634883	657916	4	9	1	27	1134	32487			
112	8	1	48	ON	2	69	58	166	38E	787347	733194	4	22	38	34	937	81834	
		OFF	2	64	41	178	55E	678418	783164	4	22	32	28	1828	81148			
116	3	1	35	ON	2	58	36	95	36E	651426	675164	5	4	36	6	1858	16566	
		OFF	2	53	32	188	2E	635513	658652	5	4	37	38	1117	16658			
116	3	2	61	ON	2	25	38	112	2E	611699	633944	5	4	44	43	1212	17883	
		OFF	2	16	33	114	16E	627593	658434	5	4	47	1	1224	17221			
117	6	1	119	ON	2	53	33	77	11E	635216	658344	5	6	8	8	1116	22888	
		OFF	2	36	27	85	53E	688179	638292	5	6	12	28	1156	22348			
118	3	1	83	ON	2	66	34	38	28E	683642	788592	5	7	34	44	18	8	27284
		OFF	2	55	3	53	12E	639189	662384	5	7	38	5	1118	27485			
119	4	8	18	ON	1	38	48	189	38W	1845796	1884648	5	8	48	28	129	31788	
		OFF	1	41	42	188	28W	1827385	1865428	5	8	49	8	135	31748			
119	4	1	21	ON	2	68	34	24	58E	657858	681887	5	9	7	2	1846	32822	
		OFF	2	57	33	28	18E	646498	678841	5	9	7	53	11	8	32873		
119	4	2	57	ON	2	54	34	38	46E	637357	668565	5	9	8	43	1111	32923	
		OFF	2	46	29	35	56E	618861	641375	5	9	18	52	1134	33852			
128	6	1	54	ON	3	11	2	28	45E	749429	776867	5	18	55	57	1251	39357	
		OFF	3	21	33	31	9E	819138	849221	5	18	58	38	13	3	39518		
126	6	1	28	ON	2	35	34	119	11W	688276	638393	5	19	47	6	1158	71226	
		OFF	2	32	31	118	18W	688623	638753	5	19	47	53	1155	71273			
128	8	1	28	ON	2	66	38	178	22E	676776	781468	5	22	39	39	18	1	81579
		OFF	2	62	39	176	54E	668168	684226	5	22	48	58	1828	81658			
129	8	1	35	ON	2	62	34	154	12E	659266	683298	6	8	11	28	1828	688	
		OFF	2	57	37	159	54E	642215	665686	6	8	12	45	1852	765			
129	8	2	21	ON	2	54	33	162	33E	633552	656618	6	8	13	35	11	3	815
		OFF	2	51	33	164	44E	626324	649118	6	8	14	24	1113	864			
131	5	1	82	ON	2	78	31	91	8E	696349	721779	6	3	9	41	914	11381	
		OFF	2	59	48	112	9E	647815	671416	6	3	13	7	1841	11587			
131	5	2	49	ON	2	43	35	123	38E	612796	635883	6	3	17	27	1131	11847	
		OFF	2	36	33	126	21E	688514	638648	6	3	19	16	1144	11956			
132	5	1	45	ON	2	78	38	68	23E	695455	728852	6	4	48	11	913	16811	
		OFF	2	64	43	82	25E	666188	698481	6	4	42	8	1811	16928			
132	5	2	56	ON	2	38	35	185	29E	618364	632559	6	4	51	16	1153	17476	
		OFF	2	22	38	187	42E	628771	643356	6	4	53	19	12	4	17599		
132	5	3	21	ON	2	19	41	188	23E	626538	649338	6	4	54	1	12	7	17641
		OFF	2	16	38	189	8E	634416	657512	6	4	54	49	1211	17689			
133	6	1	83	ON	2	47	38	75	54E	617628	648896	6	6	17	23	1121	22643	
		OFF	2	35	26	81	6E	688557	638685	6	6	28	38	1144	22838			
134	1	1	242	ON	2	69	58	24	31E	698766	715986	6	7	41	28	919	27688	
		OFF	2	36	29	57	55E	688595	638724	6	7	58	43	1142	28243			
135	5	1	46	ON	2	59	5	21	38E	644821	667488	6	9	15	12	1841	33312	
		OFF	2	52	35	27	7E	626695	649583	6	9	16	59	11	5	33419		

142	4	0	17	ON	2	33	57	123	43W	618449	632648	6	19	55	5	1148	71785	
				OFF	2	31	25	122	55W	612851	634389	6	19	55	44	1144	71744	
143	4	1	22	ON	2	68	32	176	34W	677131	781837	6	21	16	3	929	76563	
				OFF	2	65	42	178	18W	664298	688528	6	21	16	59	955	76619	
144	9	1	29	ON	2	67	57	162	2E	673838	698411	6	22	46	41	934	82881	
				OFF	2	64	8	169	35E	657685	681658	6	22	47	54	18	6	82874
148	5	1	171	ON	2	44	35	95	18E	613867	635364	7	4	55	5	1115	17785	
				OFF	2	19	34	183	22E	634274	657366	7	5	1	28	1154	18888	
149	7	1	44	ON	2	67	38	49	4E	668657	693843	7	6	19	7	935	22747	
				OFF	2	61	39	59	6E	646558	678184	7	6	28	55	1817	22855	
149	7	2	35	ON	2	59	29	61	48E	639998	663386	7	6	21	32	1828	22892	
				OFF	2	54	31	66	16E	627657	658581	7	6	22	54	1847	22974	
149	7	3	21	ON	2	52	27	67	48E	623513	646281	7	6	23	28	1854	23888	
				OFF	2	49	31	69	42E	618635	641148	7	6	24	15	11	3	23855
158	1	1	212	ON	2	67	33	26	8E	668288	692668	7	7	49	33	934	28173	
				OFF	2	38	31	52	8E	618584	632787	7	7	57	33	1126	28653	
151	1	0	18	ON	1	38	44	119	58W	999828	1836843	7	9	3	28	1	4	32688
				OFF	1	41	39	118	48W	988784	1817816	7	9	4	16	1	9	32656
151	1	1	122	ON	2	57	33	18	1E	634873	657158	7	9	22	58	1835	33778	
				OFF	2	48	31	28	32E	618865	633879	7	9	27	29	1121	34849	
158	1	0	17	ON	2	34	13	128	48W	613213	635515	7	28	2	12	1126	72132	
				OFF	2	31	43	128	8W	615522	637911	7	28	2	58	1138	72178	

OPERATIONS SUMMARY

AFT PAN CAMERA NUMBER 179																		
OPN	NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM					
81	3	1	26	ON	2	63	31	168	29E	689586	714678	2	23	46	39	11	8	85599
				OFF	2	59	28	173	41E	678477	694932	2	23	47	49	1122		85669
81	0	0	4	ON	2	56	44	176	24E	659151	683179	2	23	48	31	1134		85711
				OFF	2	55	21	177	36E	653813	677648	2	23	48	55	1139		85735
83	6	1	53	ON	2	63	21	123	3E	687324	712413	3	2	47	47	11	0	18867
				OFF	2	55	28	131	57E	652764	676551	3	2	58	3	1137		18283
84	4	1	136	ON	2	46	38	114	53E	625528	648284	3	4	22	57	12	2	15777
				OFF	2	26	24	122	19E	685281	627285	3	4	28	6	1237		16886
85	4	1	54	ON	2	67	22	78	2E	787683	733541	3	5	47	38	1827		28858
				OFF	2	59	23	82	27E	667726	692877	3	5	58	2	1119		21882
85	4	2	34	ON	2	56	26	85	28E	655883	679788	3	5	58	51	1132		21851
				OFF	2	51	28	89	13E	638459	661789	3	5	52	14	1149		21134
85	4	3	62	ON	2	38	24	95	39E	618416	632613	3	5	55	35	1218		21335
				OFF	2	29	28	98	39E	684776	626761	3	5	57	54	1232		21474
86	5	1	75	ON	2	54	23	64	12E	648814	671622	3	7	21	56	1138		26516
				OFF	2	43	28	78	46E	618286	648695	3	7	24	51	12	7	26691
87	5	1	99	ON	2	53	26	42	6E	644342	667812	3	8	52	44	1141		31964
				OFF	2	38	51	49	49E	618889	633184	3	8	56	33	1215		32193
88	6	0	9	ON	1	37	22	122	35W	1898488	1131879	3	18	2	19	151		36139
				OFF	1	48	18	121	27W	1871949	1111815	3	18	3	7	157		36187
88	6	1	19	ON	2	64	24	7	15E	689125	714283	3	18	28	11	1849		37211
				OFF	2	61	25	11	33E	674871	699491	3	18	21	4	11	7	37264
88	6	2	23	ON	2	32	25	29	13E	685668	627688	3	18	28	44	1225		37724
				OFF	2	28	51	38	18E	685372	627388	3	18	29	39	1238		37779

88	6	3	28	ON	2	23	58	31	38E	687994	638188	3	18	38	53	1237	37853	
				OFF	2	28	55	32	24E	611441	633676	3	18	31	39	1241	37899	
89	7	1	54	ON	3	22	48	19	4E	887383	836943	3	12	13	17	1329	43997	
				OFF	3	34	16	22	21E	894923	927921	3	12	16	16	1345	44176	
94	7	1	23	ON	2	34	25	188	24W	686584	628637	3	19	31	25	1217	78285	
				OFF	2	38	56	187	18W	685716	627737	3	19	32	18	1223	78338	
96	3	1	58	ON	2	71	18	167	29E	724141	758623	3	22	22	7	932	88527	
				OFF	2	64	38	175	33W	684113	789882	3	22	24	23	1842	88663	
98	7	1	34	ON	2	67	16	133	25E	697349	722817	4	1	24	34	1818	5874	
				OFF	2	62	24	141	56E	673888	697632	4	1	26	4	1853	5164	
98	7	2	28	ON	2	48	28	154	14E	625923	648782	4	1	29	55	1146	5395	
				OFF	2	45	18	155	58E	619441	641977	4	1	38	43	1154	5443	
99	7	1	68	ON	2	71	4	99	25E	728868	747217	4	2	53	44	931	18424	
				OFF	2	62	52	118	27E	674578	699186	4	2	56	27	1858	18587	
99	7	2	41	ON	2	46	18	132	38E	621285	643887	4	3	8	58	1151	18858	
				OFF	2	48	16	135	16E	611351	633584	4	3	2	32	12	3	18952
188	4	1	74	ON	2	59	22	99	58E	659331	683365	4	4	27	58	11	7	16878
				OFF	2	48	17	188	36E	625269	648823	4	4	38	58	1145	16258	
188	4	2	89	ON	2	35	25	114	15E	687118	629192	4	4	34	18	1211	16458	
				OFF	2	22	22	118	3E	612691	634973	4	4	37	37	1229	16657	
181	3	1	68	ON	2	61	21	74	49E	666889	691125	4	5	57	56	1857	21476	
				OFF	2	51	18	83	56E	632582	655528	4	6	8	42	1136	21642	
181	3	2	61	ON	2	44	21	87	49E	617129	639578	4	6	2	31	1153	21751	
				OFF	2	35	19	91	27E	687896	629169	4	6	4	58	1218	21898	
182	4	2	116	ON	2	54	26	58	51E	641225	664578	4	7	38	22	1125	27822	
				OFF	2	37	25	67	53E	688395	638516	4	7	34	49	12	6	27289
183	3	1	69	ON	2	62	28	27	43E	678374	694824	4	8	58	39	1849	32319	
				OFF	2	52	23	37	32E	634883	657916	4	9	1	27	1131	32487	
112	8	1	39	ON	2	78	38	164	16E	787347	733194	4	22	38	34	927	81834	
				OFF	2	65	28	177	28E	678418	783164	4	22	32	28	1822	81148	
116	3	1	34	ON	2	59	26	94	48E	651426	675164	5	4	36	6	1854	16566	
				OFF	2	54	22	99	28E	635513	658652	5	4	37	38	1114	16658	
116	3	2	68	ON	2	26	38	111	45E	611699	633944	5	4	44	43	1211	17883	
				OFF	2	17	27	114	8E	627593	658434	5	4	47	1	1223	17221	
117	6	1	117	ON	2	54	23	76	38E	635216	658344	5	6	8	8	1114	22888	
				OFF	2	37	18	85	31E	688179	638292	5	6	12	28	1154	22348	
116	3	1	81	ON	2	67	19	36	46E	683642	788592	5	7	34	44	18	1	27284
				OFF	2	55	53	52	27E	639189	662384	5	7	38	5	11	7	27485
119	4	8	9	ON	1	37	21	118	16W	1845796	1884648	5	8	48	28	127	31788	
				OFF	1	48	17	189	9W	1827385	1865428	5	8	49	8	132	31748	
119	4	1	23	ON	2	61	23	23	55E	657858	681887	5	9	7	2	1842	32822	
				OFF	2	58	23	27	18E	646498	678841	5	9	7	53	1857	32873	
119	4	2	55	ON	2	55	25	32	1E	637357	668565	5	9	8	43	11	8	32923
				OFF	2	47	28	35	26E	618861	641375	5	9	18	52	1132	33852	
128	6	1	52	ON	3	9	58	28	28E	749429	776867	5	18	55	57	1249	39357	
				OFF	3	28	24	36	48E	819138	849221	5	18	58	38	13	1	39518
126	6	1	28	ON	2	36	25	119	32W	688276	638393	5	19	47	6	1148	71226	
				OFF	2	33	22	118	32W	688623	638753	5	19	47	53	1153	71273	
128	8	1	27	ON	2	67	15	168	41E	676776	781468	5	22	39	39	954	81579	
				OFF	2	63	27	175	41E	668168	684226	5	22	48	58	1823	81658	
129	8	1	34	ON	2	63	22	152	59E	659266	683298	6	8	11	28	1823	688	

DRAFT
2015

	OFF	2	58	26	159	2E	642215	665686	6	8	12	45	1848	765				
129	8	2	28	ON	2	55	23	161	49E	633552	656618	6	8	13	35	11	8	815
	OFF	2	52	23	164	6E	626324	649118	6	8	14	24	1118	864				
131	5	1	88	ON	2	71	9	88	48E	696349	721779	6	3	9	41	9	4	11381
	OFF	2	68	29	111	9E	647815	671416	6	3	13	7	1837	11587				
131	5	2	48	ON	2	44	26	123	3E	612796	635883	6	3	17	27	1129	11847	
	OFF	2	37	24	125	59E	688514	638648	6	3	19	16	1143	11956				
132	5	1	43	ON	2	71	8	65	55E	695455	728852	6	4	48	11	9	3	16811
	OFF	2	65	29	88	59E	666188	698481	6	4	42	8	18	6	16928			
132	5	2	53	ON	2	31	26	185	18E	618364	632559	6	4	51	16	1151	17476	
	OFF	2	23	22	187	26E	628771	643356	6	4	53	19	12	3	17599			
132	5	3	28	ON	2	28	34	188	7E	626538	649338	6	4	54	1	12	6	17641
	OFF	2	17	24	188	52E	634416	657512	6	4	54	49	1218	17689				
133	6	1	82	ON	2	48	28	75	23E	617628	648896	6	6	17	23	1118	22643	
	OFF	2	36	17	88	45E	688557	638685	6	6	28	38	1143	22838				
134	1	1	236	ON	2	78	38	22	12E	698766	715986	6	7	41	28	918	27688	
	OFF	2	37	28	57	33E	688595	638724	6	7	58	43	1148	28243				
135	5	1	45	ON	2	59	54	28	33E	644821	667488	6	9	15	12	1837	33312	
	OFF	2	53	25	26	27E	626695	649583	6	9	16	59	11	2	33419			
142	4	8	16	ON	2	34	48	124	4W	618449	632648	6	19	55	5	1138	71785	
	OFF	2	32	17	123	14W	612851	634389	6	19	55	44	1142	71744				
143	4	1	21	ON	2	69	13	178	33W	677131	781837	6	21	16	3	921	76563	
	OFF	2	66	27	171	58W	664298	688528	6	21	16	59	949	76619				
144	9	1	28	ON	2	68	48	168	18E	673838	698411	6	22	46	41	927	82881	
	OFF	2	64	55	168	13E	657685	681658	6	22	47	54	18	8	82874			
148	5	1	168	ON	2	45	25	94	42E	613867	635364	7	4	55	5	1113	17785	
	OFF	2	28	28	183	6E	634274	657366	7	5	1	28	1153	18888				
149	7	1	43	ON	2	68	13	47	16E	668657	693843	7	6	19	7	928	22747	
	OFF	2	62	26	57	59E	646558	678184	7	6	28	55	1812	22855				
149	7	2	34	ON	2	68	17	68	42E	639998	663386	7	6	21	32	1824	22892	
	OFF	2	55	21	65	32E	627657	658581	7	6	22	54	1845	22974				
149	7	3	28	ON	2	53	17	67	9E	623513	646281	7	6	23	28	1852	23888	
	OFF	2	58	21	69	8E	618635	641148	7	6	24	15	11	8	23855			
150	1	1	286	ON	2	68	16	24	28E	668288	692668	7	7	49	33	926	28173	
	OFF	2	39	22	51	45E	618584	632787	7	7	57	33	1124	28653				
151	1	8	18	ON	1	37	21	128	27W	999828	1836843	7	9	3	28	1	1	32688
	OFF	1	48	18	119	19W	988784	1817816	7	9	4	16	1	6	32656			
151	1	1	128	ON	2	58	22	17	18E	634873	657158	7	9	22	58	1831	33778	
	OFF	2	41	22	28	7E	618865	633879	7	9	27	29	1128	34849				
158	1	8	16	ON	2	35	4	129	9W	613213	635515	7	28	2	12	1125	72132	
	OFF	2	32	34	128	19W	615522	637911	7	28	2	58	1129	72178				

PHOTOGRAPHIC SUMMARY

FWD PAN CAMERA NO		178 8.2758		SLIT W/25		FILTER		3484 FILM			
CPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI		
81	3	1	27	71.4	ON 286	9.5	18.4	11.54	11.83	18.43	9.83
					OFF 215	14.8	18.5	11.68	11.43	18.83	18.23
81	8	8	4	18.6	ON 93	17.8	18.8	18.48	11.61	11.81	18.41
					OFF 93	18.5	18.9	18.48	11.68	11.88	18.48
83	6	1	55	145.5	ON 218	9.6	18.8	11.57	11.85	18.45	9.85

				OFF 226	18.5	18.4	11.67	11.68	11.88	18.48	
84	4	1	139	367.7	ON 248	27.7	19.4	11.76	11.94	11.34	18.74
				OFF 251	47.4	25.5	11.82	12.18	11.58	18.98	
85	4	1	55	145.5	ON 288	4.8	17.7	11.58	18.43	9.83	9.23
				OFF 219	14.1	17.7	11.63	11.43	18.83	18.23	
85	4	2	34	89.9	ON 225	17.3	17.9	11.67	11.62	11.82	18.42
				OFF 233	22.7	18.5	11.72	11.83	11.23	18.63	
85	4	3	63	166.6	ON 248	35.8	28.9	11.88	12.84	11.44	18.84
				OFF 251	44.6	23.9	11.82	12.89	11.49	18.89	
86	5	1	77	283.7	ON 229	19.5	17.9	11.69	11.72	11.12	18.52
				OFF 243	38.9	19.6	11.78	11.99	11.39	18.79	
87	5	1	181	267.1	ON 231	28.5	17.8	11.71	11.76	11.16	18.56
				OFF 248	35.4	28.3	11.81	12.83	11.43	18.83	
88	6	8	9	23.8	ON 188	-58.6	32.8	18.58	8.88	8.88	8.88
				OFF 182	-56.8	38.3	18.53	8.88	8.88	8.88	
88	6	1	28	52.9	ON 218	8.4	17.8	11.57	18.91	18.31	9.71
				OFF 216	11.8	17.8	11.61	11.25	18.65	18.85	
88	6	2	24	63.5	ON 252	41.7	22.8	11.83	12.88	11.48	18.88
				OFF 252	45.2	23.3	11.83	12.89	11.49	18.89	
88	6	3	21	55.5	ON 251	49.8	25.6	11.83	12.18	11.58	18.98
				OFF 258	52.7	27.4	11.82	12.18	11.58	18.98	
89	7	1	55	145.5	ON 178	78.4	124.8	11.33	12.18	11.58	18.98
				OFF 157	61.7	144.4	11.15	12.18	11.58	18.98	
94	7	1	23	68.8	ON 251	39.9	19.8	11.83	12.87	11.47	18.87
				OFF 252	43.4	21.8	11.83	12.89	11.49	18.89	
96	3	1	51	134.9	ON 193	-8.8	15.9	11.44	8.88	8.88	8.88
				OFF 211	8.2	15.4	11.58	18.88	18.28	9.68	
98	7	1	35	92.6	ON 285	4.7	15.1	11.53	18.41	9.81	9.21
				OFF 217	18.6	15.8	11.61	11.14	18.54	9.94	
98	7	2	21	55.5	ON 241	25.9	16.1	11.77	11.91	11.31	18.71
				OFF 244	29.8	16.5	11.78	11.96	11.36	18.76	
99	7	1	62	164.8	ON 194	-8.7	15.3	11.45	8.88	8.88	8.88
				OFF 216	18.8	14.8	11.61	11.89	18.49	9.89	
99	7	2	42	111.1	ON 243	28.8	16.2	11.78	11.95	11.35	18.75
				OFF 249	34.2	17.2	11.81	12.82	11.42	18.82	
188	4	1	76	281.3	ON 224	14.8	14.7	11.66	11.43	18.83	18.23
				OFF 241	25.9	15.7	11.77	11.91	11.31	18.71	
188	4	2	98	238.8	ON 252	39.1	18.1	11.83	12.86	11.46	18.86
				OFF 258	51.9	22.9	11.82	12.18	11.58	18.98	
181	3	1	69	182.5	ON 228	11.8	14.5	11.64	11.25	18.65	18.85
				OFF 238	22.8	15.1	11.75	11.83	11.23	18.63	
181	3	2	63	166.6	ON 246	38.8	16.8	11.88	11.97	11.37	18.77
				OFF 252	39.2	17.8	11.83	12.86	11.46	18.86	
182	4	2	119	314.8	ON 233	19.4	14.6	11.72	11.72	11.12	18.52
				OFF 251	37.1	17.1	11.82	12.85	11.45	18.85	
183	3	1	71	187.8	ON 219	18.5	14.1	11.63	11.13	18.53	9.93
				OFF 237	21.6	14.6	11.74	11.88	11.28	18.68	
112	8	1	48	185.8	ON 288	-8.4	12.7	11.58	8.88	8.88	8.88
				OFF 214	6.7	12.3	11.59	18.78	18.18	9.58	
116	3	1	35	92.6	ON 228	13.7	11.5	11.69	11.41	18.81	18.21
				OFF 236	19.4	11.7	11.74	11.72	11.12	18.52	

SECRET

116	3	2	61	161.3	ON 251	48.3	16.4	11.83	12.18	11.58	18.98
					OFF 245	57.3	28.2	11.79	12.18	11.58	18.98
117	6	1	119	314.8	ON 237	19.3	11.5	11.74	11.71	11.11	18.51
					OFF 252	37.3	13.5	11.83	12.85	11.45	18.85
118	3	1	83	219.5	ON 212	4.2	11.2	11.58	18.34	9.74	9.14
					OFF 235	17.7	11.3	11.73	11.64	11.84	18.44
119	4	8	18	26.5	ON 184	-61.7	22.4	18.55	8.88	8.88	8.88
					OFF 186	-58.9	28.5	18.59	8.88	8.88	8.88
119	4	1	21	55.5	ON 225	11.5	18.9	11.67	11.22	18.62	18.82
					OFF 231	14.9	11.8	11.78	11.48	18.88	18.28
119	4	2	57	158.8	ON 236	18.2	11.1	11.74	11.67	11.87	18.47
					OFF 246	26.9	11.7	11.79	11.93	11.33	18.73
128	6	1	54	142.8	ON 198	79.7	75.5	11.48	12.18	11.58	18.98
					OFF 174	77.8	129.4	11.38	12.18	11.58	18.98
126	6	1	28	52.9	ON 253	38.2	11.4	11.83	12.86	11.46	18.86
					OFF 253	41.4	11.9	11.84	12.88	11.48	18.88
128	8	1	28	74.1	ON 215	4.8	9.3	11.68	18.31	9.71	9.11
					OFF 223	8.8	9.2	11.66	18.96	18.36	9.76
129	8	1	35	92.6	ON 224	8.9	9.8	11.66	18.97	18.37	9.77
					OFF 233	14.6	9.8	11.72	11.47	18.87	18.27
129	8	2	21	55.5	ON 238	18.1	9.8	11.75	11.66	11.86	18.46
					OFF 242	21.3	9.2	11.77	11.79	11.19	18.59
131	5	1	82	216.9	ON 284	-1.7	9.1	11.53	8.88	8.88	8.88
					OFF 238	12.3	8.5	11.78	11.29	18.69	18.89
131	5	2	49	129.6	ON 258	29.8	9.3	11.82	11.97	11.37	18.77
					OFF 253	37.2	18.8	11.83	12.85	11.45	18.85
132	5	1	45	119.8	ON 284	-1.7	8.9	11.52	8.88	8.88	8.88
					OFF 219	6.2	8.4	11.62	18.64	18.84	9.44
132	5	2	56	148.1	ON 251	43.4	18.7	11.82	12.89	11.49	18.89
					OFF 247	51.7	12.5	11.88	12.18	11.58	18.98
132	5	3	21	55.5	ON 245	54.5	13.4	11.79	12.18	11.58	18.98
					OFF 242	57.7	14.5	11.77	12.18	11.58	18.98
133	6	1	83	219.5	ON 245	25.7	8.6	11.79	11.98	11.38	18.78
					OFF 251	38.4	9.7	11.83	12.86	11.46	18.86
134	1	1	242	648.1	ON 286	-8.9	8.4	11.54	8.88	8.88	8.88
					OFF 251	37.3	9.3	11.83	12.85	11.45	18.85
135	5	1	46	121.7	ON 231	12.8	7.8	11.78	11.34	18.74	18.14
					OFF 248	28.1	7.9	11.76	11.75	11.15	18.55
142	4	8	17	45.8	ON 251	39.8	7.6	11.83	12.87	11.47	18.87
					OFF 251	42.5	7.9	11.82	12.88	11.48	18.88
143	4	1	22	58.2	ON 212	8.9	6.6	11.58	9.75	9.15	8.55
					OFF 219	4.7	6.3	11.63	18.42	9.82	9.22
144	9	1	29	76.7	ON 214	1.7	6.3	11.68	9.98	9.38	8.78
					OFF 223	6.6	6.1	11.65	18.69	18.89	9.49
148	5	1	171	452.3	ON 252	28.5	5.4	11.83	11.95	11.35	18.75
					OFF 245	54.7	8.8	11.79	12.18	11.58	18.98
149	7	1	44	116.4	ON 219	2.2	5.3	11.63	9.99	9.39	8.79
					OFF 231	9.5	5.8	11.71	11.84	18.44	9.84
149	7	2	35	92.6	ON 236	12.1	5.8	11.73	11.28	18.68	18.88
					OFF 243	17.7	5.8	11.78	11.64	11.84	18.44
149	7	3	21	55.5	ON 245	28.8	5.8	11.79	11.74	11.14	18.54

SECRET

151	1	1	122	322.7	OFF 112	-61.1	8.8	18.66	8.88	8.88	8.88
151	1	0	18	26.5	ON 189	-64.2	9.7	18.62	8.88	8.88	8.88
158	1	0	17	45.8	ON 254	39.3	3.6	11.84	12.86	11.46	18.86
					OFF 253	41.9	3.7	11.84	12.88	11.48	18.88

PHOTOGRAPHIC SUMMARY

AFT PAN	CAMERA NO	NO	179	0.1750	SLIT	W/21	FILTER	3484	FILM		
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI		
81	3	1	26	68.8	ON 317	8.5	17.1	12.16	11.57	18.97	18.37
					OFF 338	13.1	17.6	12.22	12.81	11.41	18.81
81	0	0	4	18.6	ON 145	16.1	17.9	11.84	12.21	11.61	11.81
					OFF 145	17.6	18.1	11.84	12.29	11.69	11.89
83	6	1	53	148.2	ON 322	8.7	16.8	12.18	11.59	18.99	18.39
					OFF 346	17.6	17.7	12.29	12.29	11.69	11.89
84	4	1	136	359.7	ON 367	26.8	18.8	12.37	12.57	11.97	11.37
					OFF 384	46.6	24.9	12.44	12.75	12.15	11.55
85	4	1	54	142.8	ON 387	3.8	16.8	12.11	18.91	18.31	9.71
					OFF 335	13.2	16.8	12.24	12.81	11.41	18.81
85	4	2	34	89.9	ON 344	16.4	17.1	12.28	12.22	11.62	11.82
					OFF 357	21.8	17.8	12.33	12.45	11.85	11.25
85	4	3	52	164.7	ON 379	34.9	28.4	12.42	12.68	12.88	11.48
					OFF 384	43.8	23.4	12.44	12.74	12.14	11.54
86	5	1	75	198.4	ON 358	18.6	17.2	12.38	12.33	11.73	11.13
					OFF 372	38.8	19.8	12.39	12.63	12.83	11.43
87	5	1	99	261.9	ON 352	19.6	17.1	12.31	12.38	11.78	11.18
					OFF 378	34.5	19.8	12.41	12.68	12.88	11.48
88	6	0	9	23.8	ON 155	-68.8	33.7	11.13	8.88	8.88	8.88
					OFF 158	-57.4	38.9	11.16	8.88	8.88	8.88
88	6	1	19	58.3	ON 328	7.4	15.7	12.17	11.44	18.84	18.24
					OFF 338	18.9	16.8	12.22	11.82	11.22	18.62
88	6	2	23	68.8	ON 383	48.9	21.5	12.43	12.72	12.12	11.52
					OFF 383	44.4	22.8	12.43	12.74	12.14	11.54
88	6	3	28	52.9	ON 382	49.8	25.8	12.43	12.75	12.15	11.55
					OFF 381	51.9	26.7	12.42	12.75	12.15	11.55
89	7	1	54	142.8	ON 272	71.1	122.2	11.94	12.75	12.15	11.55
					OFF 241	62.9	143.3	11.76	12.75	12.15	11.55
94	7	1	23	68.8	ON 382	39.1	19.4	12.43	12.71	12.11	11.51
					OFF 383	42.5	28.4	12.43	12.73	12.13	11.53
96	3	1	52	132.3	ON 294	-1.9	13.4	12.85	8.88	8.88	8.88
					OFF 322	7.2	14.1	12.18	11.41	18.81	18.21
98	7	1	34	89.9	ON 313	3.7	13.5	12.14	18.98	18.38	9.78
					OFF 338	9.6	13.9	12.22	11.78	11.18	18.58
98	7	2	28	52.9	ON 367	25.8	15.5	12.37	12.54	11.94	11.34
					OFF 371	28.1	16.8	12.39	12.68	12.88	11.48
99	7	1	68	158.7	ON 296	-1.8	12.8	12.86	8.88	8.88	8.88



UL 99 7 2	41	188.4	OFF 329	9.1	13.7	12.21	11.64	11.84	18.44
			ON 378	27.1	15.6	12.39	12.58	11.98	11.38
188 4 1	74	195.7	OFF 378	33.3	16.7	12.41	12.66	12.86	11.46
			ON 345	13.1	13.8	12.28	12.81	11.41	18.81
188 4 2	88	232.8	OFF 371	25.8	15.1	12.39	12.54	11.94	11.34
			ON 386	38.2	17.6	12.45	12.71	12.11	11.51
181 3 1	68	179.9	OFF 384	51.1	22.3	12.44	12.75	12.15	11.55
			ON 339	18.8	13.4	12.26	11.81	11.21	18.61
181 3 2	61	161.3	OFF 365	21.8	14.5	12.36	12.46	11.86	11.26
			ON 378	29.1	15.5	12.41	12.61	12.81	11.41
182 4 2	116	386.8	OFF 386	38.3	17.4	12.45	12.71	12.11	11.51
			ON 359	18.5	13.9	12.34	12.33	11.73	11.13
183 3 1	69	182.5	OFF 385	36.2	16.6	12.44	12.69	12.89	11.49
			ON 336	9.5	12.9	12.25	11.68	11.88	18.48
112 8 1	39	183.2	OFF 363	28.7	13.9	12.36	12.42	11.82	11.22
			ON 388	-1.4	18.4	12.12	8.88	8.88	8.88
116 3 1	34	89.9	OFF 329	5.7	18.9	12.22	11.21	18.61	18.81
			ON 351	12.8	18.6	12.31	11.98	11.38	18.78
116 3 2	68	158.7	OFF 363	18.4	11.1	12.36	12.33	11.73	11.13
			ON 386	47.4	15.9	12.44	12.75	12.15	11.55
117 5 1	117	389.5	OFF 376	56.4	19.6	12.41	12.75	12.15	11.55
			ON 361	18.4	18.9	12.35	12.33	11.73	11.13
118 3 1	81	214.2	OFF 384	36.4	13.8	12.44	12.69	12.89	11.49
			ON 323	3.2	9.6	12.19	18.82	18.22	9.62
119 4 8	9	23.8	OFF 358	16.7	18.5	12.33	12.24	11.64	11.84
			ON 168	-63.2	22.9	11.18	8.88	8.88	8.88
119 4 1	28	52.9	OFF 164	-68.3	28.7	11.21	8.88	8.88	8.88
			ON 343	18.5	9.9	12.28	11.78	11.18	18.58
119 4 2	55	145.5	OFF 351	13.9	18.1	12.31	12.87	11.47	18.87
			ON 359	17.3	18.4	12.34	12.27	11.67	11.87
128 6 1	52	137.5	OFF 374	26.8	11.1	12.48	12.56	11.96	11.36
			ON 382	79.4	69.7	12.89	12.75	12.15	11.55
126 6 1	28	52.9	OFF 267	77.8	125.4	11.91	12.75	12.15	11.55
			ON 384	37.4	11.8	12.44	12.78	12.18	11.58
126 8 1	27	71.4	OFF 385	48.5	11.5	12.44	12.72	12.12	11.52
			ON 327	3.1	7.7	12.21	18.79	18.19	9.59
129 8 1	34	89.9	OFF 348	7.9	8.8	12.26	11.58	18.98	18.38
			ON 341	7.9	7.8	12.27	11.51	18.91	18.31
129 8 2	28	52.9	OFF 355	13.7	8.1	12.32	12.85	11.45	18.85
			ON 362	17.1	8.3	12.35	12.26	11.66	11.86
131 5 1	88	211.6	OFF 368	28.4	8.6	12.38	12.41	11.81	11.21
			ON 312	-2.7	6.7	12.14	8.88	8.88	8.88
131 5 2	48	127.8	OFF 358	11.3	7.6	12.38	11.86	11.26	18.66
			ON 388	28.9	8.8	12.42	12.61	12.81	11.41
132 5 1	43	113.7	OFF 384	36.3	9.7	12.44	12.69	12.89	11.49
			ON 311	-2.7	6.5	12.13	8.88	8.88	8.88
132 5 2	53	148.2	OFF 333	5.2	7.1	12.23	11.15	18.55	9.95
			ON 382	42.5	18.3	12.43	12.73	12.13	11.53
132 5 3	28	52.9	OFF 376	58.8	12.1	12.41	12.75	12.15	11.55
			ON 373	53.6	12.9	12.39	12.75	12.15	11.55
			OFF 368	56.8	14.8	12.38	12.75	12.15	11.55

PLATE

133	6	1	82	216.9	ON 374	24.8	8.8	12.48	12.53	11.93	11.38
					OFF 383	37.5	9.3	12.43	12.78	12.18	11.58
134	1	1	236	624.2	ON 314	-1.9	6.2	12.15	8.88	8.88	8.88
					OFF 383	36.4	8.9	12.43	12.69	12.89	11.49
135	5	1	45	119.8	ON 352	11.9	6.9	12.31	11.91	11.31	18.71
					OFF 366	19.2	7.3	12.37	12.36	11.76	11.16
142	4	8	16	42.3	ON 383	38.9	7.3	12.43	12.71	12.11	11.51
					OFF 382	41.6	7.6	12.43	12.73	12.13	11.53
143	4	1	21	55.5	ON 324	-8.1	4.6	12.19	8.88	8.88	8.88
					OFF 334	3.7	4.9	12.24	18.91	18.31	9.71
144	9	1	28	74.1	ON 327	8.7	4.5	12.21	18.35	9.75	9.15
					OFF 348	5.7	4.8	12.26	11.21	18.61	18.81
148	5	1	168	444.4	ON 384	27.6	5.8	12.44	12.59	11.99	11.39
					OFF 374	53.7	7.7	12.48	12.75	12.15	11.55
149	7	1	43	113.7	ON 335	1.2	3.6	12.24	18.45	9.85	9.25
					OFF 353	8.6	4.8	12.32	11.58	18.98	18.38
149	7	2	34	89.9	ON 368	11.1	4.1	12.34	11.84	11.24	18.64
					OFF 378	16.8	4.3	12.38	12.24	11.64	11.84
149	7	3	28	52.9	ON 374	19.1	4.4	12.48	12.35	11.75	11.15
					OFF 379	22.3	4.5	12.42	12.47	11.87	11.27
158	1	1	286	544.9	ON 335	1.1	3.4	12.24	18.43	9.83	9.23
					OFF 387	34.8	4.9	12.45	12.67	12.87	11.47
151	1	8	18	26.5	ON 168	-65.7	9.6	11.25	8.88	8.88	8.88
					OFF 173	-62.6	8.6	11.29	8.88	8.88	8.88
151	1	1	128	317.4	ON 365	13.3	3.8	12.36	12.82	11.42	18.82
					OFF 387	31.9	4.6	12.45	12.65	12.85	11.45
158	1	8	16	42.3	ON 387	38.4	3.3	12.45	12.71	12.11	11.51
					OFF 386	41.8	3.4	12.44	12.72	12.12	11.52

STELLAR-INDEX SUMMARY

CAMERA DATA	ET	FILM	FILTER	GRID	ASSEMBLY NO
STELLAR	2.8	4481	NONE	78	D76
INDEX	1/500	4488	W/21	94	

PERFORMANCE SUMMARY

OPN	NO	FR	STEL FEET	INDX FEET	H	M	S	Q	ON LAT	ON LONG	OFF Q	OFF LAT	OFF LONG	SEC DUR
81	3	1	8.38	8.59	23	46	39	2	62	169E	2	58	174E	78
83	6	1	8.79	1.58	2	47	47	2	62	124E	2	54	132E	136
84	4	1	1.98	3.96	4	22	57	2	45	115E	2	25	122E	389
85	4	1	8.79	1.58	5	47	38	2	66	71E	2	58	83E	144
85	4	2	8.48	8.79	5	58	51	2	55	86E	2	58	89E	83
85	4	3	8.89	1.78	5	55	35	2	37	96E	2	28	98E	139
86	5	1	1.89	2.18	7	21	56	2	53	64E	2	42	71E	175
87	5	1	1.48	2.97	8	52	44	2	52	42E	2	38	58E	229
88	5	8	8.18	8.28	18	2	19	1	38	121W	1	41	128W	48
88	6	1	8.38	8.59	18	28	11	2	63	8E	2	68	12E	53
88	6	2	8.38	8.59	18	28	44	2	31	29E	2	28	38E	55
88	6	3	8.38	8.59	18	38	53	2	23	31E	2	28	32E	46
89	7	1	8.79	1.58	12	13	17	3	23	19E	3	35	22E	179
94	7	1	8.48	8.79	19	31	25	2	33	188W	2	38	186W	53

ULUT.

96	3	1	7	0.69	1.39	22	22	7	2	70	170E	2	63	174W	136
98	7	1	5	0.50	0.99	1	24	34	2	66	135E	2	61	143E	98
98	7	2	3	0.30	0.59	1	29	55	2	47	154E	2	44	156E	48
99	7	1	9	0.89	1.78	2	53	44	2	70	181E	2	62	119E	163
99	7	2	6	0.59	1.19	3	0	58	2	45	133E	2	39	135E	94
100	4	1	11	1.09	2.18	4	27	58	2	58	100E	2	47	109E	188
100	4	2	12	1.19	2.38	4	34	18	2	34	114E	2	21	118E	199
101	3	1	10	0.99	1.98	5	57	56	2	60	75E	2	50	84E	166
101	3	2	9	0.89	1.78	6	2	31	2	43	88E	2	34	91E	139
102	4	2	17	1.68	3.37	7	30	22	2	53	59E	2	36	68E	267
103	3	1	10	0.99	1.98	8	58	39	2	61	28E	2	51	38E	168
112	8	1	6	0.59	1.19	22	30	34	2	69	166E	2	64	178E	106
116	3	1	5	0.50	0.99	4	36	6	2	58	95E	2	53	100E	84
116	3	2	9	0.89	1.78	4	44	43	2	25	112E	2	16	114E	138
117	6	1	17	1.68	3.37	6	8	0	2	53	77E	2	36	85E	268
118	3	1	12	1.19	2.38	7	34	44	2	66	38E	2	55	53E	201
119	4	0	1	0.10	0.20	8	48	20	1	38	109W	1	41	108W	48
119	4	1	3	0.30	0.59	9	7	2	2	60	24E	2	57	28E	51
119	4	2	6	0.79	1.58	9	8	43	2	54	30E	2	46	35E	129
120	6	1	8	0.79	1.58	10	55	57	3	11	28E	3	21	31E	161
126	6	1	3	0.30	0.59	19	47	6	2	35	119W	2	32	118W	47
128	8	1	4	0.40	0.79	22	39	39	2	66	170E	2	62	176E	71
129	8	1	5	0.50	0.99	0	11	20	2	62	154E	2	57	159E	85
129	8	2	3	0.30	0.59	0	13	35	2	54	162E	2	51	164E	49
131	5	1	12	1.19	2.38	3	9	41	2	70	91E	2	59	112E	206
131	5	2	7	0.69	1.39	3	17	27	2	43	123E	2	36	126E	109
132	5	1	6	0.59	1.19	4	40	11	2	70	68E	2	64	82E	117
132	5	2	0	0.79	1.58	4	51	16	2	30	185E	2	22	107E	123
132	5	3	3	0.30	0.59	4	54	1	2	19	100E	2	16	109E	48
133	6	1	12	1.19	2.38	6	17	23	2	47	75E	2	35	81E	187
134	1	1	34	3.37	6.73	7	41	20	2	69	24E	2	36	57E	563
135	5	1	7	0.69	1.39	9	15	12	2	59	21E	2	52	27E	107
142	4	0	2	0.20	0.40	19	55	5	2	33	123W	2	31	122W	39
143	4	1	4	0.40	0.79	21	16	3	2	68	176W	2	65	170W	56
144	9	1	4	0.40	0.79	22	46	41	2	67	162E	2	64	169E	73
148	5	1	24	2.38	4.75	4	55	5	2	44	95E	2	19	103E	383
149	7	1	6	0.59	1.19	6	19	7	2	67	49E	2	61	59E	108
149	7	2	5	0.50	0.99	6	21	32	2	59	61E	2	54	66E	82
149	7	3	3	0.30	0.59	6	23	28	2	52	67E	2	49	69E	47
150	1	1	31	3.07	6.14	7	49	33	2	67	26E	2	38	52E	400
151	1	0	1	0.10	0.20	9	3	28	1	38	119W	1	41	118W	48
151	1	1	18	1.78	3.56	9	22	58	2	57	18E	2	40	28E	271
150	1	0	2	0.20	0.40	20	2	12	2	34	128W	2	31	128W	38

NOTE - THE SECOND MISSION RECOVERY CAPSULE CONTAINS ONLY THE FOLLOWING PORTION OF OPERATION 081-03-1
 CAMERA 178 - FRAMES 23 THROUGH 27
 CAMERA 179 - FRAMES 21 THROUGH 26

NOTE - OPERATION 081-00-0 IS THE CUT AND WRAP OPERATION

OCcurring AT THE TIME OF FIRST MISSION SEPARATION.

NOTE - T/M DATA INDICATE THE PANORAMIC CAMERAS WERE OUT OF FILM PRIOR TO THE START OF OPERATION 151-81-8

NOTE - T/M DATA INDICATED THE SECOND MISSION STELLAR/INDEX CAMERA WAS NOT FUNCTIONING PRIOR TO OR DURING THE OBSERVATION MADE ON REV. 126. IT WAS, HOWEVER, FUNCTIONING DURING THE OBSERVATION MADE ON REV 142. IT IS NOT KNOWN WHEN NORMAL OPERATION BEGAN.

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SECRET
CONFIDENTIAL

A. 1029-2

B. DRY

C. PERFORMANCE ESTIMATE PART TWO



RATE ESTIMATE

FWD PAN CAMERA NUMBER 178

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG VEL	SCAN RATE R/SEC I/SEC	PCT RATE CALIB REQD
81	3	1	27	8	2 ON	1333	0.3774 0.83185	2.371 56.91 -0.7 -3.8
					OFF	70	0.3934 0.83328	2.472 59.33 -0.7 -2.6
81	0	0	4	8	2 ON	0	0.1788 0.81441	1.873 25.75 -0.7 -140.7
					OFF	24	0.1788 0.81441	1.873 25.75 -0.7 -142.7
83	6	1	55	8	2 ON	1358	0.3836 0.83236	2.418 57.84 -0.7 -2.5
					OFF	136	0.4131 0.83486	2.596 62.38 -0.7 -0.5
84	4	1	139	8	2 ON	1637	0.4381 0.83696	2.752 66.86 -0.7 0.8
					OFF	389	0.4584 0.83868	2.888 69.12 -0.7 1.9
85	4	1	55	8	2 ON	1287	0.3659 0.83887	2.299 55.17 -0.7 -4.2
					OFF	144	0.3997 0.83372	2.511 68.27 -0.7 -1.4
85	4	2	34	8	2 ON	1488	0.4188 0.83467	2.581 61.95 -0.7 -0.6
					OFF	83	0.4259 0.83594	2.676 64.22 -0.7 0.2
85	4	3	63	8	2 ON	1765	0.4523 0.83816	2.842 68.21 -0.7 1.5
					OFF	139	0.4584 0.83868	2.888 69.13 -0.7 1.8
86	5	1	77	8	2 ON	1515	0.4177 0.83525	2.625 62.99 -0.7 -0.2
					OFF	175	0.4446 0.83751	2.793 67.84 -0.7 1.1
87	5	1	181	8	2 ON	1533	0.4229 0.83569	2.657 63.78 -0.3 0.5
					OFF	229	0.4538 0.83829	2.851 68.43 -0.3 1.9
88	6	0	9	8	2 ON	279	0.1829 0.81544	1.149 27.59 -0.3 -38.1
					OFF	48	0.1868 0.81576	1.174 28.17 -0.3 -29.8
88	6	1	20	8	2 ON	1351	0.3834 0.83235	2.489 57.82 -0.3 -2.2
					OFF	53	0.3952 0.83335	2.483 59.59 -0.3 -1.4
88	6	2	24	8	2 ON	1864	0.4598 0.83888	2.889 69.33 -0.3 2.3
					OFF	55	0.4686 0.83886	2.894 69.46 -0.3 2.4
88	6	3	21	8	2 ON	1992	0.4592 0.83875	2.885 69.25 -0.3 2.6
					OFF	46	0.4571 0.83857	2.872 68.92 -0.3 2.7
89	7	1	55	8	2 ON	2707	0.3258 0.82749	2.847 49.13 -0.3 -1.4
					OFF	179	0.2871 0.82423	1.884 43.38 -0.3 -2.9
94	7	1	23	8	2 ON	1847	0.4592 0.83875	2.885 69.25 -0.3 2.3
					OFF	53	0.4685 0.83885	2.893 69.44 -0.3 2.4
96	3	1	51	8	2 ON	1238	0.3524 0.82974	2.214 53.15 -0.3 -5.5
					OFF	136	0.3865 0.83261	2.428 58.28 -0.3 -2.2
98	7	1	35	8	2 ON	1317	0.3752 0.83166	2.357 56.58 -0.3 -3.2
					OFF	98	0.3961 0.83342	2.489 59.73 -0.3 -1.5
98	7	2	21	8	2 ON	1639	0.4483 0.83715	2.767 66.48 -0.3 1.4
					OFF	48	0.4461 0.83764	2.883 67.27 -0.3 1.6
99	7	1	62	8	2 ON	1238	0.3546 0.82992	2.228 53.47 -0.3 -5.4
					OFF	163	0.3947 0.83338	2.488 59.51 -0.3 -1.6
99	7	2	42	8	2 ON	1673	0.4448 0.83753	2.795 67.88 -0.3 1.6
					OFF	94	0.4542 0.83833	2.854 68.49 -0.3 2.8
100	4	1	75	8	2 ON	1463	0.4898 0.83458	2.575 61.88 -0.1 -0.3
					OFF	188	0.4412 0.83723	2.772 66.54 -0.1 1.5

100	4	2	90	8	2	ON	1843	0.4598	0.03879	2.889	69.33	-0.1	2.5
						OFF	199	0.4576	0.03861	2.875	69.00	-0.1	3.0
101	3	1	69	8	2	ON	1431	0.4029	0.03400	2.532	60.76	-0.1	-0.8
						OFF	166	0.4343	0.03665	2.729	65.49	-0.1	1.1
101	3	2	63	8	2	ON	1707	0.4496	0.03793	2.825	67.79	-0.1	2.0
						OFF	139	0.4598	0.03879	2.889	69.33	-0.1	2.5
102	4	2	119	8	2	ON	1549	0.4267	0.03600	2.681	64.34	-0.1	0.8
						OFF	267	0.4584	0.03868	2.880	69.12	-0.1	2.4
103	3	1	71	8	2	ON	1417	0.3997	0.03372	2.511	60.27	-0.1	-1.0
						OFF	168	0.4323	0.03647	2.716	65.10	-0.1	1.1
112	8	1	40	8	2	ON	1278	0.3657	0.03085	2.298	55.14	-0.1	-4.3
						OFF	106	0.3912	0.03301	2.458	58.99	-0.1	-1.9
116	3	1	35	8	2	ON	1497	0.4168	0.03517	2.619	62.85	-0.1	0.1
						OFF	84	0.4316	0.03642	2.712	65.00	-0.1	1.0
116	3	2	61	8	2	ON	2014	0.4589	0.03873	2.884	69.21	-0.1	3.1
						OFF	138	0.4477	0.03778	2.813	67.51	-0.1	3.4
117	6	1	119	8	2	ON	1582	0.4332	0.03656	2.722	65.33	0.1	1.3
						OFF	266	0.4609	0.03889	2.896	69.50	0.1	2.9
118	3	1	83	8	2	ON	1362	0.3875	0.03270	2.435	58.43	0.1	-2.0
						OFF	201	0.4293	0.03622	2.697	64.74	0.1	1.1
119	4	0	10	8	2	ON	348	0.1899	0.01602	1.193	28.63	0.1	-31.2
						OFF	40	0.1945	0.01641	1.222	29.33	0.1	-30.6
119	4	1	21	8	2	ON	1470	0.4121	0.03477	2.589	62.14	0.1	-0.1
						OFF	51	0.4217	0.03558	2.650	63.59	0.1	0.5
119	4	2	57	8	2	ON	1570	0.4312	0.03638	2.709	65.03	0.1	1.2
						OFF	129	0.4493	0.03791	2.823	67.75	0.1	2.2
120	6	1	54	8	2	ON	2578	0.3619	0.03054	2.274	54.58	0.1	1.1
						OFF	161	0.3190	0.02692	2.005	48.11	0.1	-1.9
126	6	1	20	8	2	ON	1885	0.4619	0.03898	2.902	69.66	0.1	3.2
						OFF	47	0.4622	0.03900	2.904	69.70	0.1	3.3
128	8	1	28	8	2	ON	1383	0.3926	0.03313	2.467	59.20	0.1	-1.8
						OFF	71	0.4000	0.03442	2.563	61.52	0.1	-0.6
129	8	1	35	8	2	ON	1459	0.4096	0.03457	2.574	61.77	0.1	-0.3
						OFF	85	0.4259	0.03593	2.676	64.22	0.1	0.8
129	8	2	21	8	2	ON	1594	0.4351	0.03671	2.734	65.61	0.1	1.5
						OFF	49	0.4420	0.03729	2.777	66.65	0.1	1.8
131	5	1	02	8	2	ON	1306	0.3737	0.03153	2.348	56.35	0.1	-3.7
						OFF	206	0.4200	0.03544	2.639	63.33	0.1	0.3
131	5	2	49	8	2	ON	1772	0.4565	0.03852	2.868	68.84	0.1	2.0
						OFF	109	0.4610	0.03896	2.901	69.63	0.1	3.2
132	5	1	45	8	2	ON	1309	0.3722	0.03140	2.338	56.12	-0.5	-4.3
						OFF	117	0.3994	0.03370	2.509	60.22	-0.5	-1.7
132	5	2	56	8	2	ON	1974	0.4587	0.03870	2.882	69.16	-0.5	2.9
						OFF	123	0.4515	0.03810	2.837	68.09	-0.5	3.1
132	5	3	21	8	2	ON	2140	0.4469	0.03771	2.808	67.39	-0.5	3.1
						OFF	48	0.4414	0.03724	2.773	66.56	-0.5	3.1
133	6	1	53	8	2	ON	1714	0.4485	0.03784	2.818	67.63	-0.5	1.8
						OFF	187	0.4593	0.03876	2.886	69.27	-0.5	2.7
134	1	1	2-2	8	2	ON	1324	0.3760	0.03173	2.362	56.70	-0.5	-4.0
						OFF	563	0.4591	0.03874	2.885	69.23	-0.5	2.6
135	5	1	46	8	2	ON	1531	0.4216	0.03557	2.649	63.57	-0.5	0.1

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142 4 1 17

142	4	1	17	B	2	ON	1943	0.4593	0.03876	2.886	69.26	-0.5	3.0
						OFF	187	0.4387	0.03701	2.756	66.15	-0.5	1.2
143	4	1	22	B	2	ON	1375	0.3883	0.03276	2.448	58.55	-0.5	-2.9
						OFF	56	0.4003	0.03378	2.515	60.37	-0.5	-1.8
144	9	1	29	B	2	ON	1390	0.3919	0.03387	2.462	59.10	-0.5	-2.4
						OFF	73	0.4074	0.03438	2.560	61.43	-0.5	-1.1
148	5	1	171	B	2	ON	1794	0.4603	0.03884	2.892	69.40	0.6	3.6
						OFF	383	0.4477	0.03777	2.813	67.51	0.6	4.5
149	7	1	44	B	2	ON	1409	0.4006	0.03381	2.517	60.42	0.6	-1.0
						OFF	108	0.4229	0.03569	2.657	63.78	0.6	0.8
149	7	2	35	B	2	ON	1554	0.4305	0.03632	2.705	64.91	0.6	1.5
						OFF	82	0.4433	0.03740	2.785	66.84	0.6	2.4
149	7	3	21	B	2	ON	1670	0.4483	0.03782	2.816	67.59	0.6	2.8
						OFF	47	0.4534	0.03825	2.849	68.37	0.6	3.1
150	1	1	212	B	2	ON	1412	0.4012	0.03385	2.521	60.50	0.6	-0.9
						OFF	480	0.4642	0.03917	2.917	70.00	0.6	4.0
151	1	0	10	B	2	ON	422	0.1988	0.01677	1.249	29.98	0.6	-31.8
						OFF	48	0.2043	0.01724	1.284	30.81	0.6	-30.9
151	1	1	122	B	2	ON	1592	0.4369	0.03686	2.745	65.88	0.6	2.0
						OFF	271	0.4635	0.03911	2.912	69.89	0.6	3.9
158	1	0	17	B	2	ON	1979	0.4635	0.03911	2.912	69.89	0.6	4.3
						OFF	38	0.4621	0.03899	2.903	69.68	0.6	4.4

RATE ESTIMATE
AFT PAN CAMERA NUMBER 179

OPN NO	FR	R	A	TUR/	DUR	INST	INST	SCAN	RATE	PCT	RATE		
						CPS	ANG VEL	R/SEC	I/SEC	CALIB	REQD		
81	3	1	26	B	2	ON	1333	0.3681	0.03106	2.313	55.51	-3.3	-6.4
						OFF	70	0.3835	0.03236	2.410	57.83	-3.3	-5.3
81	0	0	4	B	2	ON	0	0.1694	0.01430	1.065	25.55	-3.3	-142.6
						OFF	24	0.1694	0.01430	1.065	25.55	-3.3	-144.7
83	6	1	53	B	2	ON	1350	0.3740	0.03156	2.350	56.40	-3.3	-5.1
						OFF	136	0.4024	0.03395	2.520	60.60	-3.3	-3.2
84	4	1	136	B	2	ON	1637	0.4264	0.03598	2.679	64.30	-3.3	-1.9
						OFF	369	0.4459	0.03763	2.802	67.24	-3.3	-0.8
85	4	1	54	B	2	ON	1287	0.3570	0.03012	2.243	53.83	-3.3	-6.7
						OFF	144	0.3895	0.03286	2.447	58.73	-3.3	-4.1
85	4	2	34	B	2	ON	1400	0.4002	0.03377	2.515	60.35	-3.3	-3.2
						OFF	83	0.4147	0.03499	2.606	62.53	-3.3	-2.5
85	4	3	62	B	2	ON	1765	0.4401	0.03713	2.765	66.36	-3.3	-1.3
						OFF	139	0.4460	0.03763	2.802	67.25	-3.3	-0.9
86	5	1	75	B	2	ON	1515	0.4068	0.03433	2.556	61.35	-3.3	-2.9
						OFF	175	0.4327	0.03651	2.718	65.24	-3.3	-1.7
87	5	1	99	B	2	ON	1533	0.4095	0.03456	2.573	61.76	-3.5	-2.8
						OFF	229	0.4390	0.03705	2.759	66.21	-3.5	-1.4
88	6	0	9	B	2	ON	279	0.1801	0.01520	1.132	27.16	-3.5	-32.1
						OFF	48	0.1836	0.01551	1.155	27.72	-3.5	-31.9
88	6	1	19	B	2	ON	1351	0.3717	0.03137	2.336	56.06	-3.5	-5.5
						OFF	53	0.3830	0.03232	2.407	57.76	-3.5	-4.7

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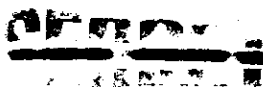
88	6	2	23	8	2	ON	1864	0.4448	0.83753	2.795	67.87	-3.5	-1.8
						OFF	55	0.4455	0.83759	2.799	67.18	-3.5	-0.9
88	6	3	28	8	2	ON	1992	0.4442	0.83748	2.791	66.98	-3.5	-0.7
						OFF	46	0.4422	0.83731	2.778	66.68	-3.5	-0.6
89	7	1	54	8	2	ON	2787	0.3167	0.82672	1.998	47.75	-3.5	-4.3
						OFF	179	0.2797	0.82368	1.757	42.18	-3.5	-5.7
94	7	1	23	8	2	ON	1847	0.4442	0.83748	2.791	66.98	-3.5	-1.8
						OFF	53	0.4454	0.83758	2.799	67.17	-3.5	-0.9
96	3	1	58	8	2	ON	1238	0.3422	0.82887	2.158	51.59	-3.5	-8.7
						OFF	136	0.3747	0.83162	2.354	56.58	-3.5	-5.4
98	7	1	34	8	2	ON	1317	0.3639	0.83878	2.286	54.87	-3.5	-6.4
						OFF	98	0.3839	0.83239	2.412	57.89	-3.5	-4.7
98	7	2	28	8	2	ON	1639	0.4261	0.83596	2.678	64.26	-3.5	-1.9
						OFF	48	0.4317	0.83643	2.712	65.18	-3.5	-1.7
99	7	1	68	8	2	ON	1238	0.3442	0.82985	2.163	51.91	-3.5	-8.5
						OFF	163	0.3825	0.83228	2.483	57.68	-3.5	-4.8
99	7	2	41	8	2	ON	1673	0.4385	0.83632	2.785	64.91	-3.5	-1.7
						OFF	94	0.4394	0.83788	2.761	66.27	-3.5	-1.3
108	4	1	74	8	2	ON	1463	0.4887	0.83381	2.518	68.43	-2.4	-2.5
						OFF	188	0.4318	0.83637	2.788	65.88	-2.4	-8.8
108	4	2	88	8	2	ON	1843	0.4489	0.83788	2.821	67.69	-2.4	8.2
						OFF	199	0.4468	0.83778	2.887	67.37	-2.4	8.7
101	3	1	68	8	2	ON	1431	0.3948	0.83325	2.476	59.42	-2.4	-3.8
						OFF	166	0.4243	0.83581	2.666	63.99	-2.4	-1.2
101	3	2	61	8	2	ON	1787	0.4391	0.83785	2.759	66.21	-2.4	-8.4
						OFF	139	0.4489	0.83788	2.821	67.69	-2.4	8.2
102	4	2	116	8	2	ON	1549	0.4178	0.83518	2.628	62.88	-2.4	-1.5
						OFF	267	0.4475	0.83776	2.812	67.49	-2.4	8.1
103	3	1	69	8	2	ON	1417	0.3989	0.83299	2.456	58.95	-2.4	-3.3
						OFF	168	0.4224	0.83564	2.654	63.69	-2.4	-1.3
112	6	1	39	8	2	ON	1278	0.3581	0.83822	2.258	54.88	-2.4	-6.5
						OFF	186	0.3827	0.83238	2.485	57.72	-2.4	-4.1
116	3	1	34	8	2	ON	1497	0.4874	0.83438	2.568	61.44	-2.4	-2.1
						OFF	64	0.4217	0.83559	2.658	63.68	-2.4	-1.3
116	3	2	68	8	2	ON	2814	0.4481	0.83781	2.816	67.57	-2.4	8.8
						OFF	138	0.4373	0.83689	2.747	65.94	-2.4	1.1
117	6	1	117	8	2	ON	1582	0.4193	0.83538	2.634	63.23	-3.1	-1.9
						OFF	268	0.4457	0.83761	2.888	67.21	-3.1	-8.4
118	3	1	81	8	2	ON	1362	0.3756	0.83169	2.368	56.64	-3.1	-5.3
						OFF	281	0.4155	0.83586	2.611	62.66	-3.1	-2.2
119	4	2	9	8	2	ON	348	0.1867	0.81575	1.173	28.15	-3.1	-33.5
						OFF	48	0.1912	0.81613	1.281	28.83	-3.1	-32.9
119	4	1	22	8	2	ON	1478	0.3991	0.83367	2.587	68.18	-3.1	-3.3
						OFF	51	0.4883	0.83445	2.565	61.56	-3.1	-2.8
119	4	2	55	8	2	ON	1578	0.4173	0.83521	2.622	62.93	-3.1	-2.8
						OFF	129	0.4346	0.83667	2.731	65.54	-3.1	-1.1
122	6	1	52	8	2	ON	2578	0.3511	0.82963	2.286	52.95	-3.1	-1.9
						OFF	161	0.3182	0.82617	1.949	46.77	-3.1	-4.8
126	6	1	27	8	2	ON	1885	0.4467	0.83769	2.887	67.36	-3.1	-8.1
						OFF	47	0.4478	0.83771	2.888	67.48	-3.1	8.8
128	6	1	27	8	2	ON	1383	0.3884	0.83218	2.398	57.37	-3.1	-5.8

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				OFF	71	0.3951	0.83334	2.483	59.58	-3.1	-3.8	
129	8	1	34	8	2 ON	1459	0.3967	0.83348	2.493	59.83	-3.1	-3.6
				OFF	85	0.4122	0.83478	2.590	62.16	-3.1	-2.5	
129	8	2	20	8	2 ON	1594	0.4218	0.83553	2.646	63.49	-3.1	-1.8
				OFF	49	0.4276	0.83688	2.687	64.48	-3.1	-1.4	
131	5	1	80	8	2 ON	1386	0.3624	0.83857	2.277	54.64	-3.1	-7.8
				OFF	286	0.4866	0.83431	2.555	61.32	-3.1	-2.9	
131	5	2	48	8	2 ON	1772	0.4415	0.83725	2.774	66.58	-3.1	-8.5
				OFF	109	0.4465	0.83768	2.886	67.34	-3.1	-8.1	
132	5	1	43	8	2 ON	1389	0.3614	0.83858	2.271	54.58	-3.6	-7.4
				OFF	117	0.3875	0.83269	2.435	58.43	-3.6	-4.9	
132	5	2	53	8	2 ON	1974	0.4442	0.83748	2.791	66.98	-3.6	-8.3
				OFF	123	0.4374	0.83698	2.748	65.95	-3.6	-8.8	
132	5	3	20	8	2 ON	2140	0.4329	0.83653	2.728	65.29	-3.6	-8.1
				OFF	48	0.4276	0.83688	2.687	64.49	-3.6	8.8	
133	6	1	82	8	2 ON	1714	0.4345	0.83666	2.738	65.52	-3.6	-1.3
				OFF	187	0.4448	0.83753	2.795	67.88	-3.6	-8.5	
134	1	1	235	8	2 ON	1324	0.3651	0.83881	2.294	55.85	-3.6	-7.1
				OFF	563	0.4446	0.83752	2.794	67.85	-3.6	-8.5	
135	5	1	45	8	2 ON	1531	0.4887	0.83448	2.568	61.63	-3.6	-3.1
				OFF	187	0.4251	0.83587	2.671	64.18	-3.6	-2.8	
142	4	2	15	8	2 ON	1943	0.4448	0.83753	2.795	67.88	-3.6	-8.2
				OFF	39	0.4441	0.83747	2.798	66.97	-3.6	-8.8	
143	4	1	21	8	2 ON	1375	0.3768	0.83188	2.368	56.82	-3.6	-6.8
				OFF	56	0.3884	0.83277	2.448	58.56	-3.6	-4.9	
144	9	1	23	8	2 ON	1398	0.3883	0.83289	2.398	57.35	-3.6	-5.6
				OFF	73	0.3951	0.83334	2.483	59.59	-3.6	-4.3	
148	5	1	168	8	2 ON	1794	0.4464	0.83767	2.885	67.32	-2.4	8.6
				OFF	383	0.4344	0.83665	2.729	65.58	-2.4	1.6	
149	7	1	43	8	2 ON	1489	0.3893	0.83285	2.446	58.71	-2.4	-4.8
				OFF	188	0.4187	0.83465	2.588	61.93	-2.4	-2.1	
149	7	2	34	8	2 ON	1554	0.4179	0.83526	2.626	63.82	-2.4	-1.5
				OFF	82	0.4382	0.83638	2.783	64.87	-2.4	-8.6	
149	7	3	22	8	2 ON	1678	0.4349	0.83678	2.733	65.59	-2.4	-8.2
				OFF	47	0.4398	0.83711	2.764	66.33	-2.4	8.1	
150	1	1	285	8	2 ON	1412	0.3898	0.83289	2.449	58.78	-2.4	-3.9
				OFF	488	0.4582	0.83799	2.829	67.89	-2.4	1.1	
151	1	8	12	8	2 ON	422	0.1959	0.81653	1.231	29.53	-2.4	-33.8
				OFF	48	0.2811	0.81697	1.264	38.33	-2.4	-32.9	
151	1	1	123	8	2 ON	1592	0.4248	0.83578	2.664	63.94	-2.4	-1.8
				OFF	271	0.4496	0.83793	2.825	67.79	-2.4	1.8	
158	1	2	16	8	2 ON	1979	0.4496	0.83793	2.825	67.79	-2.4	1.4
				OFF	38	0.4482	0.83782	2.816	67.58	-2.4	1.5	

RAMP PROFILE

R= 8 A= 2 PERIOD= 3842
R= 0.3169 A= 0.1449
TUR PER CPS ANG V
-2 5.814 0.1728 0.81556
100 5.764 0.1735 0.81569



ULC

200	5.621	0.1779	0.01689
300	5.401	0.1852	0.01675
400	5.125	0.1951	0.01765
500	4.818	0.2076	0.01877
600	4.499	0.2223	0.02018
700	4.186	0.2389	0.02161
800	3.890	0.2571	0.02325
900	3.616	0.2765	0.02501
1000	3.369	0.2968	0.02685
1100	3.148	0.3177	0.02873
1200	2.897	0.3452	0.03122
1300	2.691	0.3716	0.03361
1400	2.525	0.3961	0.03582
1500	2.394	0.4177	0.03778
1600	2.296	0.4356	0.03940
1700	2.226	0.4492	0.04063
1800	2.183	0.4580	0.04143
1900	2.166	0.4617	0.04176
2000	2.173	0.4601	0.04161
2100	2.206	0.4533	0.04100
2200	2.265	0.4416	0.03994
2300	2.351	0.4253	0.03847
2400	2.468	0.4051	0.03664
2500	2.620	0.3817	0.03452
2600	2.810	0.3559	0.03219
2700	3.042	0.3287	0.02973
2800	3.275	0.3051	0.02759
2900	3.514	0.2846	0.02574
3000	3.777	0.2648	0.02395
3100	4.065	0.2460	0.02225
3200	4.373	0.2287	0.02068
3300	4.691	0.2132	0.01928
3400	5.005	0.1998	0.01807
3500	5.296	0.1885	0.01708
3600	5.541	0.1805	0.01632
3700	5.716	0.1749	0.01582
3800	5.806	0.1722	0.01558

CLOCK SUMMARY

SYS TIME I/P	ORDER FIT 1 CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.387985330 05	0.108718380 06	0.387985427 05	-0.0097	9	
0.764221360 05	0.148339984 06	0.784201440 05	-0.0060	16	
0.394221960 05	0.195742044 06	0.394222007 05	-0.0027	25	
0.735858530 05	0.229905700 06	0.735858544 05	-0.0014	31	
0.345239990 05	0.277243844 06	0.345239951 05	0.0039	40	
0.741259910 05	0.316845837 06	0.741259854 05	0.0056	47	
0.351060230 05	0.364227873 06	0.351080181 05	0.0049	56	
0.747450050 05	0.403864863 06	0.747450054 05	-0.0004	63	
0.356661740 05	0.451186031 06	0.356661701 05	-0.0001	72	

ULC

0.75259823D 05 0.498778884D 06 0.752598204D 05 0.0026 79
 0.36288038D 05 0.125698980D 04 0.362880341D 05 0.0039 88
 0.78288658D 05 0.353296050D 05 0.782886477D 05 0.0103 94
 0.36679628D 05 0.881285830D 05 0.366796221D 05 0.0059 104
 0.31688948D 05 0.169537912D 06 0.316889455D 05 0.0025 119
 0.71284098D 05 0.209133071D 06 0.712841018D 05 -0.0038 126
 0.32220777D 05 0.256469750D 06 0.322207775D 05 -0.0005 135
 0.71755674D 05 0.296004653D 06 0.717556770D 05 -0.0030 142
 0.32680070D 05 0.343329056D 06 0.326800775D 05 -0.0075 151
 0.72197180D 05 0.382846165D 06 0.721971830D 05 -0.0038 158

A0=-0.6991982975D 05 A1=0.999999930962D 08
 SIGMA=0.00489 NO. POINTS= 19
 RATIO OF CLOCK TIME TO SYS TIME= 0.100000006904D 01

ORDER FIT 2

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.38798533D 05	0.100718380D 06	0.387985350D 05	-0.0020	9	
0.78420138D 05	0.148339984D 06	0.784201386D 05	-0.0006	16	
0.39422196D 05	0.195742044D 06	0.394221970D 05	0.0002	25	
0.73585853D 05	0.229905700D 06	0.735858530D 05	0.0000	31	
0.34523999D 05	0.277243844D 06	0.345239956D 05	0.0034	40	
0.74125991D 05	0.316845837D 06	0.741259871D 05	0.0039	47	
0.35100023D 05	0.364227873D 06	0.351000211D 05	0.0019	56	
0.74745005D 05	0.403864863D 06	0.747450092D 05	-0.0042	63	
0.35666170D 05	0.451186031D 06	0.356661745D 05	-0.0045	72	
0.75259823D 05	0.498778884D 06	0.752598251D 05	-0.0021	79	
0.36288038D 05	0.125698980D 04	0.362880380D 05	-0.0000	88	
0.78288658D 05	0.353296050D 05	0.782886523D 05	0.0057	94	
0.36679628D 05	0.881285830D 05	0.366796260D 05	0.0020	104	
0.31688948D 05	0.169537912D 06	0.316889475D 05	0.0005	119	
0.71284098D 05	0.209133071D 06	0.712841025D 05	-0.0045	126	
0.32220777D 05	0.256469750D 06	0.322207765D 05	0.0005	135	
0.71755674D 05	0.296004653D 06	0.717556750D 05	-0.0010	142	
0.32680070D 05	0.343329056D 06	0.326800723D 05	-0.0023	151	
0.72197180D 05	0.382846165D 06	0.721971763D 05	0.0037	158	

A0=-0.6991984502D 05 A1=0.1000000000051D 01
 A2=-0.7511963527891D-13
 SIGMA=0.00279 NO. POINTS= 19

CLOCK OPERATIONS

OPN NO	FR	H	M	S	DEC	BINARY	
81	3 1	27	ON	23	46	39 501119	11101110111100111100000011000
			OFF	23	47	49 501109	1110111011111000100110001000
81	0 0	4	ON	23	48	31 501231	1110111000000010110110011000
			OFF	23	48	55 501255	1110111000001000101101011000
83	6 1	55	ON	2	47	47 511987	11110100001000100110100111000
			OFF	2	50	3 512123	11110100001100110000001111000
84	4 1	139	ON	4	22	57 517697	11110110110110110110111101000
			OFF	4	28	6 518006	1111011000000010010011110000



SLUIN

85	4	1	55	ON	5	47	38	522777	11111001010001111000110101000
				OFF	5	50	2	522921	11111001010110010001000101000
85	4	2	34	ON	5	50	51	522970	11111001010111110001110010000
				OFF	5	52	14	523053	111110010110100100011111001000
85	4	3	63	ON	5	55	35	523255	111110011000000011110011011000
				OFF	5	57	54	523394	11111001100100101101111010000
86	5	1	77	ON	7	21	56	528436	11111011111110100101100100000
				OFF	7	24	51	528611	11111100000011111011010111000
87	5	1	101	ON	8	52	44	533004	1111110100100110110001100000
				OFF	8	56	33	534113	11111101010111110101011101000
88	6	0	9	ON	10	2	19	1188	00000000100100010000001010000
				OFF	10	3	7	1236	00000000100101101110000100000
88	6	1	20	ON	10	20	11	2259	00000001000100111100000111000
				OFF	10	21	4	2312	00000001000110100011101000000
88	6	2	24	ON	10	28	44	2773	00000001010100101000000001000
				OFF	10	29	39	2828	00000001010110010011011100000
88	6	3	21	ON	10	30	53	2901	00000001011000100010000001000
				OFF	10	31	39	2947	00000001011001111011110111000
89	7	1	55	ON	12	13	17	9046	0000010001010000001111110000
				OFF	12	16	16	9225	00000100011001100001100101000
94	7	1	23	ON	19	31	25	35334	00010000110110010011101110000
				OFF	19	32	10	35307	00010000110111111011001111000
96	3	1	51	ON	22	22	7	45576	00010101101110110111101000000
				OFF	22	24	23	45712	00010101110011000000101000000
98	7	1	35	ON	1	24	34	56523	00011010111100111100011111000
				OFF	1	26	4	56613	0001101011111101100010001000
98	7	2	21	ON	1	29	55	56844	00011011000110101111011100000
				OFF	1	30	43	56892	00011011001000001101001100000
99	7	1	62	ON	2	53	44	61073	00011011000000001101101101000
				OFF	2	56	27	62036	00011011001010011000001000000
99	7	2	42	ON	3	0	58	62307	000110110110101011101010111000
				OFF	3	2	32	62401	0001101110000010100111101000
100	4	1	76	ON	4	27	58	67527	00100000001100110000101011000
				OFF	4	30	58	67707	00100000010010010000001111000
100	4	2	90	ON	4	34	18	67907	00100000011000010110110111000
				OFF	4	37	37	68106	00100000011110011011100010000
101	3	1	69	ON	5	57	56	72925	00100010110001011111101001000
				OFF	6	0	42	73091	00100010110110100011110111000
101	3	2	63	ON	6	2	31	73200	00100010111001111100011000000
				OFF	6	4	50	73339	00100010111110001000001111000
102	4	2	119	ON	7	30	22	78471	001001010110101011111101011000
				OFF	7	34	49	78738	00100101100010111001001010000
103	3	1	71	ON	8	58	39	83768	00100111111100011001011000000
				OFF	9	1	27	83936	00101000000001100001100000000
112	0	1	40	ON	22	32	34	132483	00111111001011000011110111000
				OFF	22	32	20	132509	00111111001110010010111001000
116	3	1	35	ON	4	36	6	154415	01001001101000010111110011000
				OFF	4	37	30	154499	01001001101010111011110111000
116	3	2	61	ON	4	44	43	154932	01001001111000001001100100000
				OFF	4	47	1	155070	01001001111100010111000110000
117	6	1	119	ON	6	0	0	159929	01001100010000101001010101000

CPART

	OFF	6	12	28	168197	01001100011000110100110001000
118 3 7	ON	7	34	44	165133	0100111010111011011011001000
	OFF	7	38	5	165334	0100111011010110010111110000
119 4 8	ON	8	48	28	169549	01010000110110001110011001000
	OFF	8	49	8	169597	01010000110111101100001001000
119 4 1	ON	9	7	2	170671	010100001011000011101110011000
	OFF	9	7	53	170722	0101000010110100000001011010000
119 4 2	ON	9	8	43	170772	010100001011011000011000100000
	OFF	9	10	52	170901	010100001011111011111000001000
120 6 1	ON	10	55	57	177206	01010100011111111001011110000
	OFF	10	58	38	177367	01010100100100110011111011000
126 6 1	ON	19	47	6	209075	01100011101100011101100111000
	OFF	19	47	53	209122	01100011101101111001011010000
128 8 1	ON	22	39	39	219428	01101000101000011010010100000
	OFF	22	40	50	219499	01101000101010100100111111000
129 8 1	ON	0	11	20	224929	0110101010000010010011101000
	OFF	0	12	45	225014	0110101010010111000011110000
129 8 2	ON	0	13	35	225064	0110101010100011010001000000
	OFF	0	14	24	225113	0110101010101111001110101000
131 5 1	ON	3	9	41	235630	01110000010110110110110110000
	OFF	3	13	7	235836	01110000011101001001001100000
131 5 2	ON	3	17	27	236096	0111000010010100010100000000
	OFF	3	19	16	236205	01110000101000011001111001000
132 5 1	ON	4	40	11	241059	01110010111100100010010111000
	OFF	4	42	8	241176	0111001100000000010111000000
132 5 2	ON	4	51	16	241725	01110011010000110111001001000
	OFF	4	53	19	241848	01110011010100100111011000000
132 5 3	ON	4	54	1	241890	01110011010101111001011010000
	OFF	4	54	49	241938	01110011010111010111001010000
133 6 1	ON	6	17	23	246892	01110101101110100010111100000
	OFF	6	20	30	247079	01110101110100010000001011000
134 1 1	ON	7	41	20	251928	01111000001000001110111000000
	OFF	7	50	43	252491	01111000011001011010011111000
135 5 1	ON	9	15	12	257561	01111010110100001000110101000
	OFF	9	16	59	257668	01111010110111011001110100000
142 4 0	ON	19	55	5	295954	10001101000111110011001010000
	OFF	19	55	44	295993	10001101001000111111010101000
143 4 1	ON	21	16	3	300611	10001111011100000001011111000
	OFF	21	16	59	300867	10001111011101101110110111000
144 9 1	ON	22	46	41	306250	10010010000010000000100010000
	OFF	22	47	54	306323	10010010000100001111000111000
148 5 1	ON	4	55	5	328354	10011100100100100100011010000
	OFF	5	1	28	328737	10011100110000010000011101000
149 7 1	ON	6	19	7	333396	10011110111110011100000100000
	OFF	6	20	55	333504	10011111000001101111000000000
149 7 2	ON	6	21	32	333541	10011111000010110111010001000
	OFF	6	22	54	333623	10011111000101010111011011000
149 7 3	ON	6	23	26	333657	10011111000110011001110101000
	OFF	6	24	15	333704	10011111000111110101101000000
150 1 1	ON	7	49	33	338022	10100001100100000001101100000
	OFF	7	57	33	339302	10100001110010101011001110000

151	1	0	10	ON	9	3	20	343257	10100011101011010111110101000
				OFF	9	4	16	343305	10100011101100110101100101000
151	1	1	122	ON	9	22	58	344427	10100100001111000100111111000
				OFF	9	27	29	344698	10100100010111010110010010000
158	1	0	17	ON	20	2	12	382701	10110110100001100011001001000
				OFF	20	2	50	382819	10110110100010101101010111000

EOF

ULTRA

ULTRA