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# 14000 40395

4 PAGES  
(NOT INCLUDING PEST)

CORONA J-FLIGHT DATA BOOK

SYSTEM NO. J-25

VEHICLE NO. 1620

MISSION NO. 1026-2

CAMERA NOS. 174/175

DATE 11-88-65

PAGE 1

Declassified and Released by the N R O

in Accordance with E. O. 12958

NOV 26 1997

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SYSTEM NO. J-25  
VEHICLE NO. 1628  
MISSION NO. 1826-2  
CAMERA NOS. 174/175

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SYSTEM NO. J-25  
VEHICLE NO. 162B  
MISSION NO. 1826-2  
CAMERA NOS. 174/175

GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 174

SLAVE CAMERA SERIAL NO. 175

S/I -1 SERIAL NO. D75/92/93

S/I -2 SERIAL NO. D72/89/85

LAUNCH DATE 11-28-65

REACTIVATION DATE N/A

REACTIVATION ORBIT N/A

ORBITAL PARAMETERS (REV. 122)

PERIOD 94.399 MIN

ECCENTRICITY 0.01869

PERIGEE 93.949 NM

PERIGEE LAT. 31.334

APOGEE 225.554 NM

INCL. ANGLE 74.972

RECOVERY ORBIT NO. 160

RECOVERY DATE 11-07-65

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SYSTEM NO. J-25  
VEHICLE NO. 1628  
MISSION NO. 1826-2  
CAMERA NOS. 1747175

CYCLE PERIOD DATA

V/H RAMP SETTING LEVEL	AMPLITUDE	TIME UP RAMP-SEC	---CALIBRATED---		---IN-FLIGHT---		ORBIT NO.
			CYCLE PERIOD-SEC MASTER	SLAVE	CYCLE PERIOD-SEC MASTER	SLAVE	
7	2	252	4.864	4.896	4.888	4.936	88
7	2	1685	2.222	2.229	2.248	2.245	94
7	2	1825	2.214	2.222	2.224	2.248	94
7	2	288	4.884	4.834	4.845	4.875	103
7	2	1855	2.213	2.221	2.248	2.248	118
7	2	1856	2.213	2.221	2.235	2.244	126
7	2	1858	2.213	2.221	2.258	2.258	142
6	3	1925	2.218	2.218	2.223	2.225	158

NOTE

NA \* OR -3 INDICATES NO DATA AVAILABLE.

A. 1826-2

B. DRY

C. FINAL PERFORMANCE ESTIMATE, PART ONE



OPERATIONS SUMMARY

FWD PAN CAMERA		NUMBER		174		HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM
OPN	NO FRA	0	LAT	LONG									
79	7 8	5 ON	2 36 23	126 52W	593352	614918	2	28	38	39	1211	74319	
		OFF	2 35 38	126 36W	591388	612782	2	28	38	51	1212	74331	
81	8 8	4 ON	2 54 54	177 38E	668838	692488	2	23	34	44	1125	84884	
		OFF	2 53 38	178 44E	668567	684648	2	23	35	8	1138	84988	
82	9 1	39 ON	2 55 38	154 13E	671182	695579	3	1	5	5	1121	3985	
		OFF	2 49 36	158 31E	648685	664818	3	1	6	43	1148	4883	
83	9 1	34 ON	2 46 37	137 23E	626857	649671	3	2	38	1	1147	9481	
		OFF	2 41 33	139 48E	687552	629642	3	2	39	28	1158	9568	
84	9 1	124 ON	2 41 41	116 54E	687511	629688	3	4	9	48	1157	14988	
		OFF	2 23 38	122 58E	569798	598468	3	4	14	24	1225	15264	
85	7 1	74 ON	2 64 32	75 18E	723354	749885	3	5	34	1	1834	28841	
		OFF	2 53 32	87 24E	657373	681334	3	5	37	18	1126	28238	
85	7 2	47 ON	3 1 7	185 29E	682517	624418	3	5	51	6	1253	21866	
		OFF	3 8 26	187 1E	638854	653817	3	5	52	56	13 1	21176	
86	8 1	188 ON	2 64 33	52 19E	722376	748791	3	7	4	38	1833	25478	
		OFF	2 49 35	67 14E	637658	668877	3	7	8	43	1137	25723	
86	8 2	35 ON	2 37 43	72 51E	594144	615732	3	7	11	49	12 3	25989	
		OFF	2 32 34	74 38E	581687	682818	3	7	13	8	1211	25988	
87	9 1	16 ON	2 52 29	42 31E	658496	674198	3	8	38	23	1128	31183	
		OFF	2 47 28	45 38E	627768	658616	3	8	39	44	1142	31184	
87	9 2	21 ON	2 44 38	47 9E	615972	638377	3	8	48	29	1149	31229	
		OFF	2 37 31	52 6E	593164	614716	3	8	42	18	12 2	31338	
88	1 2	17 ON	1 39 12	121 53W	1167172	1218778	3	9	47	55	148	35275	
		OFF	1 42 7	128 41W	1148569	1191442	3	9	48	43	145	35323	
88	1 1	131 ON	2 57 41	15 24E	677861	781764	3	18	7	38	11 9	36458	
		OFF	2 38 37	26 52E	595857	617589	3	18	12	34	12 8	36754	
89	2 1	82 ON	2 24 56	9 24E	568586	589137	3	11	47	32	1225	42452	
		OFF	2 8 43	12 18E	578788	599882	3	11	58	36	1239	42636	
94	1 1	21 ON	2 69 28	148 52W	758188	777574	3	19	6	46	943	68886	
		OFF	2 66 26	133 44W	727178	753766	3	19	7	45	1812	68865	
94	1 1	17 ON	2 41 28	111 12W	681956	623837	3	19	14	41	1149	69281	
		OFF	2 38 55	112 9W	594391	615989	3	19	15	28	1154	69328	
94	1 2	24 ON	2 33 29	188 13W	581441	682554	3	19	16	44	12 3	69484	
		OFF	2 29 53	187 5W	575384	596188	3	19	17	39	12 9	69459	
95	1 1	35 ON	2 69 21	163 44W	749148	776569	3	28	37	14	942	74234	
		OFF	2 64 27	152 54W	712165	738193	3	28	38	51	1827	74331	
98	3 1	41 ON	2 63 29	148 12E	782757	728429	4	1	18	33	1831	4233	
		OFF	2 57 22	147 31E	666884	691262	4	1	12	19	11 2	4339	
99	5 1	62 ON	2 66 23	112 16E	721629	748815	4	2	42	6	18 9	9686	
		OFF	2 57 24	124 41E	668223	698517	4	2	42	46	11 1	9766	
99	5 2	28 ON	2 45 29	132 51E	613243	635547	4	2	45	58	1137	9958	
		OFF	2 41 28	134 46E	599552	621343	4	2	47	3	1146	18823	



180	5	2	18	ON	2	63	25	94	48E	788484	726871	4	4	11	29	1838	15889	
				OFF	2	58	58	186	59E	633988	656987	4	4	15	1	1123	15381	
180	5	2	18	ON	2	31	38	115	38E	576899	597843	4	4	28	1	12	2	15681
				OFF	2	28	53	116	17E	573393	594286	4	4	28	41	12	5	15641
181	3	1	78	ON	2	78	29	55	48E	752349	779981	4	5	39	34	922	28374	
				OFF	2	59	36	76	48E	676665	781352	4	5	43	2	1258	28582	
182	6	1	82	ON	2	59	38	53	56E	676841	788785	4	7	13	29	1849	26889	
				OFF	2	47	48	63	15E	619839	642389	4	7	16	45	1129	26285	
183	1	8	18	ON	1	39	12	184	9W	1139933	1182465	4	8	24	57	128	38297	
				OFF	1	42	7	182	57W	1121237	1163835	4	8	25	45	133	38345	
183	1	1	159	ON	2	61	35	28	47E	686462	711519	4	8	43	22	1838	31482	
				OFF	2	38	37	44	36E	598688	612147	4	8	49	32	1148	31772	
184	1	1	21	ON	2	62	39	4	33E	691954	717218	4	18	13	38	1831	36818	
				OFF	2	59	34	8	24E	673988	698574	4	18	14	24	1848	36864	
184	1	2	78	ON	2	54	41	12	58E	648831	672471	4	18	15	46	11	7	36946
				OFF	2	44	32	19	15E	687628	629721	4	18	16	28	1135	37188	
185	6	1	48	ON	2	15	51	5	33E	572926	593724	4	11	56	12	1218	42972	
				OFF	2	8	38	7	7E	584358	685588	4	11	58	2	1226	43888	
118	8	1	28	ON	2	33	48	113	19W	578871	599889	4	19	23	49	1158	69829	
				OFF	2	38	42	112	28W	574583	595357	4	19	24	36	1155	69876	
116	7	1	84	ON	2	67	38	81	48E	712758	738881	5	4	17	3	944	15423	
				OFF	2	55	42	98	27E	644812	668388	5	4	28	35	1854	15635	
116	7	2	21	ON	2	22	51	113	8E	578297	598994	5	4	29	6	12	1	16146
				OFF	2	19	45	113	46E	571531	592274	5	4	29	53	12	4	16193
116	7	3	53	ON	2	5	26	116	55E	596591	618278	5	4	33	28	1221	16488	
				OFF	3	2	51	118	38E	625516	648279	5	4	35	33	1238	16533	
117	4	1	185	ON	2	62	48	68	1E	688872	784888	5	5	49	1	1821	28941	
				OFF	2	47	37	81	11E	611627	633878	5	5	53	18	1117	21198	
118	4	1	91	ON	2	59	38	49	11E	661822	685958	5	7	28	21	1837	26421	
				OFF	2	46	28	58	59E	687291	629372	5	7	23	53	1119	26633	
119	5	1	62	ON	2	51	35	33	9E	625177	647928	5	8	52	55	11	5	31975
				OFF	2	42	32	33	5E	595146	616772	5	8	55	18	1127	32118	
122	1	1	42	ON	2	53	36	8	55E	632789	655825	5	18	22	46	1258	37366	
				OFF	2	47	31	12	49E	649764	631938	5	18	24	23	1115	37463	
126	2	1	21	ON	2	36	4	118	55W	579294	688328	5	19	29	42	1133	78182	
				OFF	2	32	56	117	51W	575888	595882	5	19	38	38	1139	78238	
132	5	1	57	ON	2	56	48	136	19E	639692	662989	6	1	25	42	1839	5142	
				OFF	2	44	34	144	16E	689165	638279	6	1	27	55	11	5	5275
131	5	1	74	ON	2	69	21	95	17E	789584	735431	6	2	52	15	913	18335	
				OFF	2	58	46	113	34E	648892	671783	6	2	55	31	1829	18531	
131	5	2	57	ON	2	41	38	124	56E	588544	689923	6	3	8	6	1119	18886	
				OFF	2	33	24	128	1E	574783	595564	6	3	2	13	1134	18933	
132	5	1	95	ON	2	66	1	88	38E	686822	711862	6	4	23	44	945	15824	
				OFF	2	52	31	98	18E	628816	643484	6	4	27	36	1852	16856	
132	5	2	24	ON	2	28	35	128	49E	573818	593888	6	4	35	49	1151	16549	
				OFF	2	16	19	182	58E	578888	598998	6	4	36	53	1156	16613	
133	5	1	125	ON	2	59	44	66	59E	658598	674615	6	5	55	58	1823	21358	
				OFF	2	41	32	79	24E	587572	688915	6	6	8	51	1118	21651	
134	4	1	185	ON	2	58	37	45	24E	644834	668323	6	7	26	38	1828	26798	
				OFF	2	43	37	55	41E	592839	613549	6	7	38	39	1113	27839	
135	3	1	75	ON	2	59	37	21	33E	648719	672355	6	8	56	43	1822	32283	

			OFF	2	48	34	38	28E	685471	627484	6	8	59	43	11	1	32383
			ON	2	37	38	124	6W	577998	598974	6	19	34	54	1118		78494
			OFF	2	55	53	123	27W	575668	596566	6	19	35	21	1121		78521
144	1	2	ON	2	17	51	163	56W	578341	599338	6	22	48	34	1144		81634
			OFF	2	15	2	163	17W	583151	604327	6	22	41	17	1148		81677
148	1	1	ON	2	57	27	87	36E	638879	653814	7	4	31	34	1821		16294
			OFF	2	58	25	93	3E	685857	627854	7	4	33	29	1845		16489
148	1	2	ON	2	35	31	99	59E	574676	595537	7	4	37	21	1117		16641
			OFF	2	19	23	184	35E	577267	598224	7	4	41	26	1139		16886
149	2	1	ON	2	59	37	62	36E	638525	661778	7	6	1	16	1811		21676
			OFF	2	49	36	78	47E	682175	624865	7	6	4	8	1847		21848
158	2	1	ON	2	57	34	41	56E	629286	652192	7	7	32	8	1819		27128
			OFF	2	46	35	49	42E	593649	615219	7	7	35	5	1853		27385
151	1	1	ON	2	57	41	19	3E	629887	651985	7	9	2	24	1818		32544
			OFF	2	38	33	38	32E	577922	598985	7	9	7	28	11	9	32848

OPERATIONS SUMMARY

AFT PAN CAMERA		NUMBER		175														
OPN	NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM					
79	7	8	5	ON	2	37	12	127	13W	593352	614918	2	28	38	39	12	9	74319
				OFF	2	36	27	126	57W	591388	612782	2	28	38	51	1211		74331
81	8	4	ON	2	55	47	176	51E	668838	692488	2	23	34	44	1122		84884	
				OFF	2	54	22	178	8E	668567	684648	2	23	35	8	1127		84988
82	9	1	ON	2	56	38	153	23E	671182	695579	3	1	5	5	1118		3985	
				OFF	2	52	28	157	56E	648685	664818	3	1	6	43	1138		4883
83	9	1	ON	2	47	28	136	52E	626857	649671	3	2	38	1	1145		9481	
				OFF	2	42	23	139	22E	687552	629642	3	2	39	28	1156		9568
84	9	1	ON	2	42	32	116	29E	687511	629688	3	4	9	48	1155		14988	
				OFF	2	24	27	122	34E	569798	598468	3	4	14	24	1224		15264
85	7	1	ON	2	65	23	73	38E	723354	749885	3	5	34	1	1828		28841	
				OFF	2	54	24	86	41E	657373	681334	3	5	37	18	1123		28238
85	7	2	ON	3	8	15	185	16E	682517	624418	3	5	51	6	1252		21866	
				OFF	3	7	32	186	46E	638854	653817	3	5	52	56	13	8	21176
86	6	1	ON	2	65	24	58	46E	722376	748791	3	7	4	38	1827		25478	
				OFF	2	58	27	66	39E	637658	668877	3	7	8	43	1135		25723
86	6	2	ON	2	38	32	72	29E	594144	615732	3	7	11	49	12	1	25989	
				OFF	2	33	23	74	19E	581687	682818	3	7	13	8	1218		25988
87	9	1	ON	2	53	21	41	58E	658496	674198	3	8	38	23	1125		31183	
				OFF	2	48	19	45	6E	627768	658616	3	8	39	44	1148		31184
87	9	2	ON	2	45	21	46	41E	615972	638377	3	8	48	29	1147		31229	
				OFF	2	38	28	49	44E	593164	614716	3	8	42	18	12	1	31338
88	1	2	ON	1	37	35	122	36W	1167172	1218778	3	9	47	55	137		35275	
				OFF	1	42	32	121	27W	1148569	1191442	3	9	48	43	142		35323
88	1	1	ON	2	58	33	14	28E	677861	781764	3	18	7	38	11	5	36458	
				OFF	2	39	26	26	29E	595857	617589	3	18	12	34	1158		36754
89	2	1	ON	2	21	44	9	9E	568586	589137	3	11	47	32	1224		42452	
				OFF	2	9	32	11	56E	578788	599882	3	11	58	36	1238		42636
94	1	1	ON	2	78	4	143	15W	758188	777574	3	19	6	46	933		68886	
				OFF	2	67	15	135	32W	727178	753766	3	19	7	45	18	5	68865

94	1	0	17	ON	2	42	18	111	37W	601956	623837	3	19	14	41	1148	69281	
				OFF	2	39	45	110	32W	594391	615989	3	19	15	20	1153	69320	
94	1	2	24	ON	2	34	18	108	32W	581441	602554	3	19	16	44	12	2	69404
				OFF	2	30	41	107	23W	575304	596188	3	19	17	39	12	8	69459
95	1	1	35	ON	2	70	5	166	8W	749140	776569	3	20	37	14	932	74234	
				OFF	2	65	17	154	24W	712165	738193	3	20	38	51	1021	74331	
98	5	1	41	ON	2	60	19	138	49E	702757	728429	4	1	10	33	1025	4233	
				OFF	2	58	14	146	37E	666884	691202	4	1	12	19	1058	4339	
99	5	1	62	ON	2	67	11	110	29E	721629	748015	4	2	40	6	10	2	9606
				OFF	2	58	15	123	47E	666223	690917	4	2	42	46	1057	9766	
99	5	2	29	ON	2	46	19	132	22E	613243	635547	4	2	45	58	1135	9958	
				OFF	2	42	10	134	21E	599552	621343	4	2	47	3	1144	10023	
100	5	1	86	ON	2	64	15	93	17E	700484	726071	4	4	11	29	1024	15009	
				OFF	2	51	41	106	22E	633900	656987	4	4	15	1	1120	15301	
100	5	2	18	ON	2	32	19	115	12E	576899	597043	4	4	20	1	12	0	15601
				OFF	2	29	41	116	0E	573393	594206	4	4	20	41	12	4	15641
101	3	1	78	ON	2	71	9	53	0E	752349	779901	4	5	39	34	911	20374	
				OFF	2	60	27	75	45E	676665	701352	4	5	43	2	1046	20582	
102	6	1	83	ON	2	60	29	52	54E	676041	700705	4	7	13	29	1045	26009	
				OFF	2	48	30	62	44E	619039	642389	4	7	16	45	1127	26205	
103	1	0	10	ON	1	37	37	104	51W	1139933	1182465	4	8	24	57	125	30297	
				OFF	1	40	34	103	42W	1121237	1163035	4	8	25	45	130	30345	
103	1	1	159	ON	2	62	26	27	36E	686462	711519	4	8	43	22	1033	31402	
				OFF	2	39	27	44	14E	590688	612147	4	8	49	32	1146	31772	
104	1	1	21	ON	2	63	29	3	15E	691954	717210	4	10	13	30	1026	36810	
				OFF	2	60	25	7	22E	673900	698574	4	10	14	24	1043	36864	
104	1	2	70	ON	2	55	32	12	13E	648831	672471	4	10	15	46	11	4	36946
				OFF	2	45	22	18	47E	607628	629721	4	10	18	28	1133	37100	
105	8	1	48	ON	2	16	39	5	18E	572928	593724	4	11	56	12	1217	42972	
				OFF	2	9	28	6	54E	584350	605500	4	11	58	0	1225	43000	
110	8	1	21	ON	2	34	36	113	38W	578071	599089	4	19	23	49	1149	69829	
				OFF	2	31	30	112	38W	574503	595357	4	19	24	36	1154	69876	
116	7	1	84	ON	2	68	23	79	51E	712750	738001	5	4	17	3	936	15423	
				OFF	2	56	32	97	40E	644012	660300	5	4	20	35	1051	15635	
116	7	2	21	ON	2	23	39	112	44E	570297	590994	5	4	29	6	12	0	16146
				OFF	2	20	34	113	31E	571531	592274	5	4	29	53	12	3	16193
116	7	3	53	ON	2	6	17	116	42E	596591	610270	5	4	33	28	1220	16400	
				OFF	3	1	58	116	24E	625516	648279	5	4	35	33	1229	16533	
117	4	1	106	ON	2	63	30	66	45E	680072	704888	5	5	49	1	1016	20941	
				OFF	2	48	27	80	39E	611627	633870	5	5	53	10	1115	21190	
118	4	1	91	ON	2	60	20	48	18E	661822	685950	5	7	20	21	1033	26421	
				OFF	2	47	18	58	30E	607291	629372	5	7	23	53	1117	26633	
119	6	1	63	ON	2	52	25	32	32E	625177	647928	5	8	52	55	11	3	31975
				OFF	2	43	21	37	40E	595146	616772	5	8	55	10	1125	32110	
120	1	1	42	ON	2	54	27	0	13E	632789	655825	5	10	22	46	1055	37366	
				OFF	2	48	21	12	18E	609764	631938	5	10	24	23	1113	37463	
126	2	1	21	ON	2	36	53	119	16W	579294	600328	5	19	29	42	1132	70102	
				OFF	2	33	44	118	10W	575000	595882	5	19	30	30	1137	70230	
130	5	1	57	ON	2	57	38	137	29E	639692	662909	6	1	25	42	1035	5142	
				OFF	2	49	24	143	44E	600165	630279	6	1	27	55	11	2	5275
131	5	1	75	ON	2	70	2	93	2E	709504	735431	6	2	52	15	9	4	10335



**TITLE**

	OFF	2	59	38	112	37E	648892	671783	6	2	55	31	1826	18531				
58	ON	2	42	27	124	32E	588544	689923	6	3	8	6	1118	18886				
	OFF	2	34	12	127	42E	574783	595564	6	3	2	13	1133	18933				
132	5	1	93	ON	2	66	48	78	51E	686822	711862	6	4	23	44	939	15824	
	OFF	2	53	21	95	31E	628816	643484	6	4	27	36	1849	16856				
132	5	2	29	ON	2	21	23	188	34E	573818	593888	6	4	35	49	1158	16549	
	OFF	2	17	8	189	35E	578886	598998	6	4	36	53	1155	16613				
133	5	1	127	ON	2	68	33	65	59E	658898	674615	6	5	55	58	1819	21358	
	OFF	2	42	21	78	59E	587572	688915	6	6	8	51	1116	21651				
134	4	1	186	ON	2	59	26	44	28E	644834	668323	6	7	26	38	1824	26798	
	OFF	2	44	26	55	15E	592839	613549	6	7	38	39	1111	27839				
135	3	1	78	ON	2	68	26	28	33E	648719	672355	6	8	56	43	1818	32283	
	OFF	2	49	24	29	47E	685471	627484	6	8	59	43	1858	32383				
142	4	8	12	ON	2	38	26	124	27W	577998	598974	6	19	34	54	1117	78494	
	OFF	2	36	41	123	48W	575668	596566	6	19	35	21	1128	78521				
144	1	2	18	ON	2	18	48	164	11W	578341	599338	6	22	48	34	1143	81634	
	OFF	2	15	51	163	31W	583151	684327	6	22	41	17	1147	81677				
148	1	1	49	ON	2	58	16	86	45E	638879	653814	7	4	31	34	1818	16294	
	OFF	2	51	14	92	28E	685857	627854	7	4	33	29	1843	16489				
148	1	2	118	ON	2	36	19	99	38E	574676	595537	7	4	37	21	1115	16641	
	OFF	2	28	12	184	28E	577267	598224	7	4	41	26	1138	16886				
149	2	1	72	ON	2	68	25	61	37E	638525	661778	7	6	1	16	18	7	21676
	OFF	2	58	25	78	13E	682175	624865	7	6	4	8	1844	21848				
158	2	1	78	ON	2	58	23	41	5E	629286	652192	7	7	32	8	1816	27128	
	OFF	2	47	24	49	13E	593649	615219	7	7	35	5	1852	27385				
151	1	1	138	ON	2	58	29	18	12E	629887	651985	7	9	2	24	1815	32544	
	OFF	2	59	21	38	11E	577922	598985	7	9	7	28	11	8	32848			

**PHOTOGRAPHIC SUMMARY**

FWD PAN	CAMERA	NO	174	8.2258	SLIT	W/25	FILTER	3484	FILM			
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI			
79	7	8	5	13.2	ON	388	38.3	27.5	12.88	12.86	11.46	18.86
					OFF	381	39.8	27.8	12.89	12.86	11.46	18.86
81	8	8	4	16.6	ON	127	28.1	22.6	18.84	11.74	11.14	18.54
					OFF	127	21.5	22.8	18.84	11.79	11.19	18.59
82	9	1	39	183.2	ON	266	19.3	22.2	11.91	11.71	11.11	18.51
					OFF	288	25.4	23.2	11.98	11.98	11.38	18.78
83	9	1	34	89.9	ON	286	28.4	23.6	12.81	11.95	11.35	18.75
					OFF	294	33.4	24.8	12.85	12.81	11.41	18.81
84	9	1	124	328.8	ON	295	33.2	24.5	12.85	12.81	11.41	18.81
					OFF	389	58.8	32.5	12.12	12.18	11.58	18.98
85	7	1	74	195.7	ON	243	9.4	21.8	11.78	11.82	18.42	9.82
					OFF	272	21.4	21.9	11.94	11.79	11.19	18.59
85	7	2	47	124.3	ON	298	67.9	65.2	12.83	12.18	11.58	18.98
					OFF	277	69.9	84.3	11.97	12.18	11.58	18.98
86	8	1	138	264.5	ON	244	9.3	28.8	11.78	11.81	18.41	9.81
					OFF	281	25.4	22.3	11.99	11.98	11.38	18.78
86	8	2	35	92.8	ON	388	37.8	25.3	12.88	12.85	11.45	18.85
					OFF	385	41.9	27.2	12.11	12.88	11.48	18.88



1	1	16	22.5	ON 127	22.4	21.7	18.84	11.82	11.22	18.62
				OFF 127	27.5	22.5	18.84	11.94	11.34	18.74
2	2	21	55.5	ON 127	38.4	23.2	18.84	11.98	11.38	18.78
				OFF 127	37.2	25.2	18.84	12.85	11.45	18.85
1	8	18	26.5	ON 131	-54.8	35.7	18.89	8.88	8.88	8.88
				OFF 133	-52.2	33.4	18.91	8.88	8.88	8.88
1	1	131	346.5	ON 266	18.9	28.8	11.91	11.68	11.88	18.48
				OFF 381	36.2	24.5	12.89	12.84	11.44	18.84
2	1	82	216.9	ON 318	52.5	32.9	12.13	12.18	11.58	18.98
				OFF 383	62.5	45.5	12.89	12.18	11.58	18.98
1	1	21	55.5	ON 233	2.9	19.5	11.72	18.11	9.51	8.91
				OFF 242	6.7	19.3	11.77	18.78	18.18	9.58
1	8	17	45.8	ON 299	33.3	22.3	12.88	12.81	11.41	18.81
				OFF 382	35.8	23.8	12.89	12.84	11.44	18.84
1	2	24	63.5	ON 387	41.1	24.8	12.11	12.87	11.47	18.87
				OFF 389	44.5	26.3	12.12	12.89	11.49	18.89
1	1	35	92.6	ON 233	2.8	19.3	11.72	18.18	9.58	8.98
				OFF 249	9.8	19.1	11.81	18.98	18.38	9.78
5	1	41	186.4	ON 254	18.8	16.5	11.84	11.89	18.49	9.89
				OFF 278	16.9	18.8	11.93	11.68	11.88	18.48
5	1	52	164.8	ON 245	6.5	18.4	11.79	18.67	18.87	9.47
				OFF 278	16.8	18.6	11.93	11.68	11.88	18.48
5	2	28	74.1	ON 294	29.2	28.2	12.85	11.96	11.36	18.76
				OFF 388	33.4	21.2	12.88	12.81	11.41	18.81
5	1	36	227.5	ON 255	18.8	18.2	11.84	11.89	18.49	9.89
				OFF 284	23.7	19.1	12.88	11.86	11.26	18.66
5	2	18	47.6	ON 389	43.8	24.8	12.12	12.88	11.48	18.88
				OFF 318	45.5	25.8	12.13	12.89	11.49	18.89
3	1	78	286.3	ON 231	8.8	18.3	11.78	9.72	9.12	8.52
				OFF 265	14.3	18.1	11.98	11.45	18.85	18.25
6	1	82	216.9	ON 266	14.2	17.9	11.91	11.44	18.84	18.24
				OFF 291	26.9	19.2	12.84	11.93	11.33	18.73
1	8	18	26.5	ON 133	-56.9	32.1	18.91	8.88	8.88	8.88
				OFF 135	-54.2	29.8	18.93	8.88	8.88	8.88
1	1	159	428.6	ON 261	12.8	17.6	11.88	11.27	18.67	18.87
				OFF 384	36.8	28.9	12.18	12.84	11.44	18.84
1	1	21	55.5	ON 259	18.7	17.4	11.87	11.16	18.56	9.96
				OFF 267	14.2	17.5	11.91	11.44	18.84	18.24
1	2	78	185.1	ON 279	19.5	17.9	11.97	11.72	11.12	18.52
				OFF 297	38.1	19.3	12.86	11.98	11.38	18.78
6	1	48	127.8	ON 387	57.6	31.6	12.11	12.18	11.58	18.98
				OFF 388	63.7	39.2	12.88	12.18	11.58	18.98
6	1	28	52.9	ON 389	48.7	28.6	12.12	12.87	11.47	18.87
				OFF 318	43.7	21.6	12.13	12.89	11.49	18.89
7	1	84	222.2	ON 248	4.8	15.2	11.81	18.38	9.78	9.18
				OFF 288	17.9	15.4	11.98	11.65	11.85	18.45
7	2	21	55.5	ON 318	51.3	23.2	12.13	12.18	11.58	18.98
				OFF 388	54.2	24.9	12.12	12.18	11.58	18.98
7	2	53	142.2	ON 293	67.8	38.9	12.84	12.18	11.58	18.98
				OFF 278	72.8	56.4	11.97	12.18	11.58	18.98
7	4	185	277.7	ON 263	18.8	14.9	11.89	11.89	18.49	9.89

**SPORT**

				OFF 295	26.5	16.8	12.36	11.92	11.32	10.72
118	4	1	91	240.7	ON 272	13.7	14.8	11.94	11.48	10.80
				OFF 297	27.6	15.9	12.07	11.94	11.34	10.74
119	6	1	62	164.8	ON 289	22.2	15.1	12.03	11.82	11.22
				OFF 302	31.7	16.3	12.09	12.00	11.40	10.80
120	1	1	42	111.1	ON 285	20.8	14.7	12.01	11.74	11.14
				OFF 295	26.5	15.4	12.06	11.92	11.32	10.72
126	2	1	21	55.5	ON 308	38.1	15.9	12.12	12.85	11.45
				OFF 310	41.3	16.7	12.13	12.88	11.48	10.88
130	5	1	57	150.8	ON 276	16.1	12.5	11.96	11.56	10.96
				OFF 291	25.8	13.1	12.04	11.89	11.29	10.69
131	5	1	74	195.7	ON 235	8.7	12.6	11.73	9.71	9.11
				OFF 265	13.8	12.3	11.90	11.41	10.81	10.21
131	5	2	57	150.8	ON 295	32.2	13.8	12.06	12.00	11.40
				OFF 302	48.6	15.3	12.09	12.07	11.47	10.87
132	5	1	93	246.8	ON 246	5.2	12.1	11.80	10.48	9.68
				OFF 278	20.7	12.4	11.97	11.77	11.17	10.57
132	5	2	29	76.7	ON 302	53.5	19.2	12.09	12.10	11.50
				OFF 300	57.6	21.5	12.08	12.10	11.50	10.90
133	5	1	126	333.3	ON 263	12.6	11.9	11.89	11.32	10.72
				OFF 295	32.2	13.3	12.06	12.00	11.40	10.80
134	4	1	105	277.7	ON 273	13.9	11.7	11.95	11.41	10.81
				OFF 297	30.0	12.8	12.07	11.98	11.38	10.78
135	3	1	78	206.3	ON 271	12.7	11.5	11.94	11.32	10.72
				OFF 291	24.8	12.1	12.04	11.88	11.28	10.68
142	4	0	11	29.1	ON 302	35.9	11.8	12.09	12.04	11.44
				OFF 303	37.8	12.1	12.10	12.05	11.45	10.85
144	1	2	18	47.6	ON 297	56.8	16.4	12.07	12.10	11.50
				OFF 294	58.8	17.8	12.05	12.10	11.50	10.90
148	1	1	49	129.6	ON 286	14.4	9.0	12.01	11.45	10.85
				OFF 297	22.2	9.3	12.06	11.82	11.22	10.62
148	1	2	110	291.0	ON 308	37.9	10.7	12.12	12.05	11.45
				OFF 303	54.4	14.5	12.10	12.10	11.50	10.90
149	2	1	71	187.8	ON 282	11.9	8.8	11.99	11.26	10.66
				OFF 293	23.0	9.1	12.07	11.84	11.24	10.64
150	2	1	78	206.3	ON 287	14.2	8.6	12.02	11.44	10.84
				OFF 301	26.2	9.1	12.09	11.91	11.31	10.71
151	1	1	135	357.1	ON 287	14.0	8.4	12.02	11.42	10.82
				OFF 307	34.6	9.6	12.12	12.03	11.43	10.83

PHOTOGRAPHIC SUMMARY

AFT PAN CAMERA NO 175 0.1500 SLIT W/21				FILTER		3404 FILM					
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI		
79	7	0	5	13.2	ON 456	37.5	26.9	12.68	12.70	12.10	11.50
					OFF 457	38.2	27.2	12.69	12.71	12.11	11.51
81	0	0	4	10.6	ON 189	19.1	21.7	11.41	12.36	11.76	11.16
					OFF 189	20.6	21.9	11.41	12.41	11.81	11.21
82	9	1	39	103.2	ON 403	18.4	21.4	12.51	12.32	11.72	11.12
					OFF 424	24.6	22.5	12.58	12.53	11.93	11.33

				ON 434	27.6	22.9	12.61	12.59	11.99	11.39
				OFF 446	32.6	24.2	12.65	12.66	12.86	11.46
84	9 1	124	328.8	ON 447	32.4	24.8	12.65	12.65	12.85	11.45
				OFF 469	49.3	31.8	12.73	12.73	12.15	11.55
85	7 1	74	195.7	ON 368	8.4	19.5	12.37	11.56	18.96	18.36
				OFF 412	28.5	21.1	12.54	12.41	11.81	11.21
85	7 2	48	127.8	ON 439	67.5	63.2	12.63	12.75	12.15	11.55
				OFF 419	69.8	81.8	12.56	12.75	12.15	11.55
86	6 1	181	267.1	ON 368	8.3	19.3	12.38	11.55	18.95	18.35
				OFF 426	24.5	21.6	12.59	12.53	11.93	11.33
86	6 2	36	95.2	ON 456	36.3	24.7	12.68	12.69	12.89	11.49
				OFF 463	41.2	26.6	12.71	12.72	12.12	11.52
87	9 1	16	42.3	ON 189	21.5	28.9	11.41	12.44	11.84	11.24
				OFF 189	26.6	21.8	11.41	12.57	11.97	11.37
87	9 2	21	55.5	ON 189	29.6	22.5	11.41	12.62	12.82	11.42
				OFF 189	36.5	24.5	11.41	12.69	12.89	11.49
88	1 8	18	26.5	ON 194	-56.2	36.6	11.45	8.88	8.88	8.88
				OFF 197	-53.7	33.9	11.48	8.88	8.88	8.88
88	1 1	131	346.5	ON 488	16.8	19.9	12.58	12.28	11.68	11.88
				OFF 454	35.4	24.8	12.68	12.68	12.88	11.48
89	2 1	32	216.9	ON 468	51.9	32.2	12.72	12.75	12.15	11.55
				OFF 456	61.9	44.2	12.68	12.75	12.15	11.55
94	1 1	21	55.5	ON 349	1.8	17.2	12.38	18.57	9.97	9.37
				OFF 364	5.6	17.6	12.36	11.28	18.68	18.88
94	1 8	17	45.8	ON 454	32.5	21.7	12.67	12.65	12.85	11.45
				OFF 454	35.8	22.4	12.68	12.68	12.88	11.48
94	1 2	24	63.5	ON 463	48.3	24.2	12.71	12.72	12.12	11.52
				OFF 468	43.8	25.7	12.71	12.74	12.14	11.54
95	1 1	35	92.6	ON 358	1.7	17.8	12.38	18.55	9.95	9.35
				OFF 374	8.8	17.6	12.48	11.52	18.92	18.32
98	5 1	41	188.4	ON 384	9.8	17.2	12.44	11.63	11.83	18.43
				OFF 428	15.9	17.9	12.52	12.28	11.68	11.88
99	5 1	62	164.8	ON 378	5.4	16.7	12.38	11.18	18.58	9.98
				OFF 428	15.9	17.7	12.52	12.19	11.59	18.99
99	5 2	29	76.7	ON 445	28.4	19.7	12.65	12.68	12.88	11.48
				OFF 454	32.6	28.6	12.68	12.66	12.86	11.46
107	5 1	66	227.5	ON 385	9.8	16.8	12.44	11.63	11.23	18.43
				OFF 431	22.8	18.5	12.68	12.48	11.88	11.28
107	5 2	18	47.6	ON 468	42.2	23.4	12.72	12.73	12.13	11.53
				OFF 478	44.7	24.5	12.73	12.74	12.14	11.54
101	3 1	78	286.3	ON 342	-2.3	15.8	12.38	8.88	8.88	8.88
				OFF 488	13.3	17.1	12.58	12.83	11.43	18.83
102	5 1	83	219.5	ON 483	13.3	16.9	12.51	12.82	11.42	18.82
				OFF 441	26.1	18.6	12.64	12.56	11.96	11.36
103	1 8	18	26.5	ON 198	-56.3	32.9	11.48	8.88	8.88	8.88
				OFF 241	-55.7	38.3	11.51	8.88	8.88	8.88
103	1 1	159	428.6	ON 395	11.8	16.4	12.48	11.83	11.23	18.63
				OFF 468	35.2	28.4	12.78	12.68	12.88	11.48
104	1 1	21	55.5	ON 391	9.7	16.1	12.46	11.71	11.11	18.51
				OFF 483	13.3	16.5	12.51	12.82	11.42	18.82
104	1 2	78	185.1	ON 422	18.6	17.1	12.57	12.33	11.73	11.13

**SECRET**

			OFF 449	29.2	18.8	12.66	12.61	12.81	11.41
110	8 1	48	ON 465	56.9	38.7	12.71	12.75	12.15	11.55
			OFF 454	63.8	38.8	12.68	12.75	12.15	11.55
118	8 1	21	ON 468	39.9	28.1	12.72	12.72	12.12	11.52
			OFF 478	42.9	21.1	12.73	12.73	12.13	11.53
116	7 1	84	ON 374	2.9	13.4	12.48	18.78	18.18	9.58
			OFF 422	17.8	14.6	12.57	12.26	11.66	11.86
116	7 2	21	ON 468	58.5	22.7	12.72	12.75	12.15	11.55
			OFF 466	53.5	24.3	12.72	12.75	12.15	11.55
116	7 3	53	ON 442	66.3	37.5	12.64	12.75	12.15	11.55
			OFF 419	72.3	53.9	12.56	12.75	12.15	11.55
117	4 1	186	ON 397	9.1	13.7	12.48	11.64	11.84	18.44
			OFF 445	25.6	15.4	12.65	12.55	11.95	11.35
118	4 1	91	ON 418	12.7	13.8	12.53	11.98	11.38	18.78
			OFF 448	26.8	15.4	12.66	12.57	11.97	11.37
119	6 1	63	ON 436	21.3	14.5	12.62	12.44	11.84	11.24
			OFF 456	38.8	15.8	12.68	12.64	12.84	11.44
128	1 1	42	ON 438	19.1	14.8	12.68	12.36	11.76	11.16
			OFF 446	25.6	14.8	12.65	12.55	11.95	11.35
126	2 1	21	ON 466	37.2	15.5	12.72	12.78	12.18	11.58
			OFF 468	48.4	16.3	12.72	12.72	12.12	11.52
138	5 1	57	ON 416	15.2	11.7	12.55	12.15	11.55	18.95
			OFF 448	24.1	12.6	12.63	12.52	11.92	11.32
131	5 1	75	ON 356	-8.3	18.4	12.33	8.88	8.88	8.88
			OFF 482	12.8	11.4	12.58	11.99	11.39	18.79
131	5 2	58	ON 458	31.4	13.3	12.66	12.64	12.84	11.44
			OFF 462	39.8	14.9	12.78	12.72	12.12	11.52
132	5 1	83	ON 374	4.1	18.6	12.48	18.98	18.38	9.78
			OFF 424	19.8	11.7	12.58	12.38	11.78	11.18
132	5 2	29	ON 451	52.7	18.7	12.78	12.75	12.15	11.55
			OFF 457	56.8	28.8	12.69	12.75	12.15	11.55
133	5 1	127	ON 488	11.7	18.9	12.58	11.89	11.29	18.69
			OFF 458	31.4	12.9	12.66	12.64	12.84	11.44
134	4 1	186	ON 415	12.9	18.8	12.55	11.99	11.39	18.79
			OFF 452	29.2	12.4	12.67	12.61	12.81	11.41
135	3 1	76	ON 412	11.7	18.5	12.54	11.98	11.38	18.78
			OFF 443	23.9	11.5	12.64	12.51	11.91	11.31
142	4 6	12	ON 461	35.1	11.4	12.78	12.68	12.88	11.48
			OFF 462	36.9	11.7	12.78	12.78	12.18	11.58
144	1 2	18	ON 452	55.2	15.9	12.67	12.75	12.15	11.55
			OFF 447	58.8	17.2	12.66	12.75	12.15	11.55
148	1 1	49	ON 436	13.5	8.2	12.62	12.84	11.44	18.84
			OFF 452	21.3	8.7	12.67	12.44	11.84	11.24
148	1 2	116	ON 478	37.1	18.3	12.73	12.78	12.18	11.58
			OFF 462	53.6	14.8	12.78	12.75	12.15	11.55
149	2 1	72	ON 438	18.9	7.9	12.68	11.83	11.23	18.63
			OFF 454	22.1	8.6	12.68	12.46	11.86	11.26
150	3 1	78	ON 437	13.2	7.8	12.62	12.82	11.42	18.82
			OFF 468	25.3	8.6	12.78	12.55	11.95	11.35
151	1 1	135	ON 437	13.1	7.6	12.62	12.81	11.41	18.81
			OFF 468	33.8	9.2	12.72	12.67	12.87	11.47

SECRET

STELLAR-INDEX SUMMARY

CAMERA DATA ET FILM FILTER GRID ASSEMBLY NO D72

STELLAR 2.8 4481 NONE 89  
INDEX 1/500 4488 W/21 85

PERFORMANCE SUMMARY

OPN	NO	FR	STEL FEET	INDX FEET	H	M	S	Q	ON LAT	ON LONG	Q	OFF LAT	OFF LONG	SEC CUR
79	7	0	0.10	0.20	20	38	39	2	36	126W	2	35	126W	12
82	9	1	0.59	1.19	1	5	5	2	55	154E	2	49	158E	98
83	9	1	0.50	0.99	2	38	1	2	46	137E	2	41	139E	79
84	9	1	1.68	3.37	4	9	48	2	41	116E	2	23	122E	276
85	7	1	1.89	2.18	5	34	1	2	64	75E	2	53	87E	189
85	7	2	0.69	1.39	5	51	6	3	1	105E	3	8	107E	110
86	6	1	1.39	2.77	7	4	30	2	64	52E	2	49	67E	253
86	6	2	0.50	0.99	7	11	49	2	37	72E	2	32	74E	79
87	9	1	0.20	0.40	8	38	23	2	52	42E	2	47	45E	81
87	9	2	0.30	0.59	8	40	29	2	44	47E	2	37	50E	109
88	1	0	0.20	0.40	9	47	55	1	39	121W	1	42	120W	46
88	1	1	1.76	3.56	10	7	30	2	57	15E	2	38	26E	304
89	2	1	1.19	2.38	11	47	32	2	20	9E	2	8	12E	184
94	1	1	0.30	0.59	19	6	46	2	69	140W	2	66	133W	59
94	1	6	0.20	0.40	19	14	41	2	41	111W	2	38	110W	39
94	1	2	0.40	0.79	19	16	44	2	33	108W	2	29	107W	55
95	1	1	0.50	0.99	20	37	14	2	69	163W	2	64	152W	97
96	5	1	0.59	1.19	1	18	33	2	63	148E	2	57	147E	106
99	5	1	0.89	1.78	2	40	6	2	66	112E	2	57	124E	160
99	5	2	0.40	0.79	2	45	58	2	45	132E	2	41	134E	65
100	5	1	1.19	2.38	4	11	29	2	63	94E	2	50	106E	212
100	5	2	0.20	0.40	4	20	1	2	31	115E	2	28	116E	40
101	5	1	1.19	2.38	5	39	34	2	70	55E	2	59	76E	200
102	6	1	1.89	2.18	7	13	29	2	59	53E	2	47	63E	196
103	1	0	0.20	0.40	8	24	57	1	39	104W	1	42	102W	46
103	1	1	2.18	4.36	8	43	22	2	61	28E	2	38	44E	370
104	1	1	0.30	0.59	10	13	30	2	62	4E	2	59	8E	54
104	1	2	0.99	1.98	10	15	46	2	54	12E	2	44	19E	162
105	0	1	0.69	1.39	11	56	12	2	15	5E	2	8	7E	100
110	6	1	0.30	0.59	19	23	49	2	33	113W	2	37	112W	47
116	7	1	1.19	2.38	4	17	3	2	67	81E	2	55	98E	212
116	7	2	0.30	0.59	4	29	6	2	22	113E	2	19	113E	47
110	7	3	0.79	1.58	4	33	28	2	5	116E	3	2	118E	125
117	4	1	1.48	2.97	5	49	1	2	62	68E	2	47	81E	240
118	4	1	1.29	2.57	7	20	21	2	59	49E	2	46	58E	212
119	6	1	0.89	1.78	8	52	55	2	51	33E	2	42	38E	143
120	1	1	0.59	1.19	10	22	46	2	53	8E	2	47	12E	97
126	2	1	0.30	0.59	19	29	42	2	36	118W	2	32	117W	46
130	5	1	0.79	1.58	1	25	42	2	56	138E	2	48	144E	133
131	5	1	0.99	1.98	2	52	15	2	69	95E	2	58	113E	196

SECRET

131	5	2	8	8.79	1.58	3	8	6	2	41	124E	2	33	128E	127
132	5	1	14	1.39	2.77	4	23	44	2	66	88E	2	52	96E	232
132	5	2	4	8.48	8.79	4	35	49	2	28	188E	2	16	189E	64
133	5	1	18	1.78	3.56	5	55	58	2	59	66E	2	41	79E	293
134	4	1	15	1.48	2.97	7	26	38	2	58	45E	2	43	55E	241
135	3	1	11	1.89	2.18	8	56	43	2	59	21E	2	48	38E	188
142	4	8	2	8.28	8.48	19	34	54	2	37	124W	2	35	123W	27
144	1	2	2	8.28	8.48	22	48	34	2	17	163W	2	15	163W	43
148	1	1	7	8.69	1.39	4	31	34	2	57	87E	2	58	93E	115
148	1	2	16	1.58	3.17	4	37	21	2	35	99E	2	19	184E	245
149	2	1	12	8.99	1.98	6	1	16	2	59	62E	2	49	78E	164
150	2	1	11	1.89	2.18	7	32	8	2	57	41E	2	46	49E	177
151	1	1	19	1.88	3.76	9	2	24	2	57	19E	2	38	38E	384

**SECRET**

NOTES -  
 TM DATA INDICATE NORMAL SYSTEM PERFORMANCE.

THE FMC PROGRAMMER WAS NOT STARTED FOR REV 87, DUE TO A COMMANDING PROBLEM. THE PAN CAMERAS WERE THEREFORE OPERATING AT THE SLOWEST RATE FOR THE RAMP, YIELDING SLOWER EXPOSURE TIMES AND FMC THAN DESIRABLE.

A RESET BIAS WAS INTRODUCED AT [REDACTED] ON REV 128, IN ORDER TO DISPLACE OPN 132-5-2 BY 3 DEG SOUTHWARDS. OPERATIONS AFFECTED WERE 132-5-1, 131-5-1, 131-5-2, 132-5-1, AND 132-5-2. THE BIAS WAS REMOVED AT [REDACTED] ON REV 133, AND SUBSEQUENT OPERATIONS APPEAR NORMAL.

PREDICTED NOMINAL FWD PAN CAMERA FILM DEPLETION WOULD OCCUR AT APPROX FRAME 42 OF OPN 151-1-1, AND AFT DEPLETION AT APPROX FRAME 73 OF OPN 152-2-1. AN ENGINEERING OPERATION ON REV 158 INDICATED TOTAL OUTAGE OF PAN AND S/I FILM SUPPLIES.

A LIGHT ENGINEERING OPERATION (183-1-8) WAS TAKEN WHICH APPEARS TO SATISFY REQUIREMENTS OF [REDACTED] THE BEST ESTIMATE OF REQUESTED INFORMATION. (BASED UPON ABOVE DEPLETION DATA) HAS BEEN TELEPHONICALLY TRANSMITTED TO [REDACTED]

**SECRET**

A. 1826-2

B. DRY

C. FINAL PERFORMANCE ESTIMATE PART TWO



RATE ESTIMATE

FWD PAN CAMERA NUMBER 174

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG VEL	SCAN R/SEC	RATE I/SEC	PCT CALIB	RATE REQD		
79	7	0	5	7	2 ON	1685	0.4498	0.03788	2.821	67.78	-4.1	-2.3
					OFF	12	0.4499	0.03796	2.827	67.84	-4.1	-2.4
81	8	0	4	7	2 ON	0	0.1982	0.01685	1.195	28.68	-4.1	-113.8
					OFF	24	0.1982	0.01685	1.195	28.68	-4.1	-115.5
82	9	1	39	7	2 ON	1388	0.3982	0.03368	2.582	68.25	-4.1	-1.2
					OFF	98	0.4178	0.03525	2.625	63.88	-4.1	-1.3
83	9	1	34	7	2 ON	1535	0.4275	0.03687	2.686	64.46	-4.1	-1.4
					OFF	79	0.4396	0.03789	2.762	66.29	-4.1	-1.9
84	9	1	124	7	2 ON	1616	0.4482	0.03714	2.766	66.38	-4.1	-1.8
					OFF	276	0.4628	0.03899	2.983	69.67	-4.1	-3.7
85	7	1	74	7	2 ON	1242	0.3637	0.03869	2.285	54.85	-4.1	-2.3
					OFF	189	0.4868	0.03432	2.556	61.34	-4.1	-1.3
85	7	2	47	7	2 ON	2268	0.4338	0.03654	2.721	65.38	-4.1	-4.3
					OFF	118	0.4137	0.03491	2.599	62.38	-4.1	-3.9
86	6	1	128	7	2 ON	1244	0.3643	0.03874	2.289	54.93	-4.1	-2.3
					OFF	253	0.4199	0.03543	2.639	63.33	-4.1	-1.3
86	6	2	30	7	2 ON	1683	0.4487	0.03786	2.819	67.67	-4.1	-2.2
					OFF	79	0.4568	0.03847	2.865	68.76	-4.1	-2.8
87	9	1	16	7	2 ON	0	0.1982	0.01685	1.195	28.68	-4.1	-119.1
					OFF	81	0.1982	0.01685	1.195	28.68	-4.1	-127.5
87	9	2	21	7	2 ON	0	0.1982	0.01685	1.195	28.68	-4.1	-132.1
					OFF	189	0.1982	0.01685	1.195	28.68	-4.1	-141.5
88	1	0	18	7	2 ON	286	0.1969	0.01661	1.237	29.69	-3.8	-12.8
					OFF	48	0.1998	0.01685	1.255	38.12	-3.8	-12.4
88	1	1	131	7	2 ON	1388	0.3982	0.03368	2.582	68.24	-3.8	-8.3
					OFF	384	0.4584	0.03888	2.838	67.91	-3.8	-1.5
89	2	1	82	7	2 ON	1956	0.4637	0.03913	2.914	69.93	-3.8	-3.6
					OFF	184	0.4523	0.03817	2.842	68.21	-3.8	-4.2
84	1	1	21	7	2 ON	1175	0.3482	0.02938	2.188	52.51	-3.8	-2.8
					OFF	59	0.3626	0.03859	2.278	54.67	-3.8	-2.1
94	1	2	17	7	2 ON	1658	0.4466	0.03768	2.886	67.35	-3.8	-1.3
					OFF	39	0.4518	0.03885	2.834	68.88	-3.8	-1.6
94	1	2	24	7	2 ON	1773	0.4589	0.03872	2.883	69.28	-3.8	-2.2
					OFF	55	0.4624	0.03898	2.923	69.66	-3.8	-2.7
95	1	1	35	7	2 ON	1177	0.3485	0.02941	2.198	52.56	-3.8	-2.8
					OFF	97	0.3723	0.03141	2.339	56.14	-3.8	-1.6
95	5	1	41	7	2 ON	1388	0.3794	0.03281	2.384	57.21	-3.8	-1.2
					OFF	186	0.4838	0.03488	2.532	68.77	-3.8	-8.7
99	5	1	62	7	2 ON	1246	0.3662	0.03898	2.381	55.23	-3.8	-1.9
					OFF	168	0.4231	0.03481	2.533	68.79	-3.8	-8.8
99	5	2	20	7	2 ON	1598	0.4394	0.03787	2.761	66.25	-3.8	-8.9





**SECRET**

100	5	1	86	7	OFF	65	0.4478	0.83778	2.813	67.52	-3.8	-1.1
					2 ON	1385	0.3886	0.83211	2.391	57.39	-3.8	-1.2
					OFF	212	0.4252	0.83588	2.672	64.12	-3.8	-8.7
100	5	2	18	7	2 ON	1817	0.4615	0.83894	2.988	69.68	-3.8	-2.5
					OFF	48	0.4638	0.83987	2.989	69.82	-3.8	-2.8
101	3	1	78	7	2 ON	1164	0.3453	0.82913	2.169	52.87	-3.8	-3.3
					OFF	288	0.3957	0.83339	2.486	59.67	-3.8	-1.8
102	6	1	82	7	2 ON	1379	0.3979	0.83357	2.508	68.88	-3.8	-8.5
					OFF	196	0.4353	0.83673	2.735	65.64	-3.8	-8.7
103	1	8	10	7	2 ON	242	0.1991	0.81688	1.251	38.83	-3.8	-13.7
					OFF	48	0.2824	0.81788	1.272	38.52	-3.8	-14.8
103	1	1	159	7	2 ON	1347	0.3986	0.83296	2.454	58.98	-3.8	-8.7
					OFF	378	0.4539	0.83838	2.852	68.44	-3.8	-1.6
104	1	1	21	7	2 ON	1331	0.3869	0.83264	2.431	58.34	-3.8	-8.6
					OFF	54	0.3985	0.83362	2.584	68.89	-3.8	-8.7
104	1	2	70	7	2 ON	1466	0.4163	0.83513	2.616	62.78	-3.8	-8.3
					OFF	162	0.4433	0.83748	2.785	66.84	-3.8	-1.8
105	8	1	48	7	2 ON	2869	0.4584	0.83868	2.888	69.13	-3.8	-3.9
					OFF	188	0.4488	0.83788	2.815	67.56	-3.8	-4.1
110	8	1	28	7	2 ON	1889	0.4611	0.83891	2.897	69.53	-3.8	-2.2
					OFF	47	0.4638	0.83987	2.989	69.82	-3.8	-2.6
116	7	1	84	7	2 ON	1266	0.3718	0.83138	2.331	55.94	-3.8	-1.9
					OFF	212	0.4178	0.83525	2.625	63.88	-3.8	-8.6
116	7	2	21	7	2 ON	1989	0.4627	0.83984	2.987	69.77	-3.8	-3.4
					OFF	47	0.4627	0.83887	2.894	69.47	-3.8	-3.6
116	7	3	53	7	2 ON	2251	0.4372	0.83689	2.747	65.93	-3.8	-4.3
					OFF	125	0.4155	0.83586	2.611	62.66	-3.8	-4.4
117	4	1	185	7	2 ON	1361	0.3936	0.83322	2.473	59.36	-3.8	-8.9
					OFF	249	0.4485	0.83717	2.768	66.43	-3.8	-8.9
118	4	1	91	7	2 ON	1419	0.4864	0.83429	2.554	61.29	-3.8	-8.6
					OFF	212	0.4434	0.83742	2.786	66.87	-3.8	-1.8
119	8	1	62	7	2 ON	1552	0.4315	0.83641	2.711	65.87	-3.8	-8.7
					OFF	143	0.4511	0.83886	2.834	68.82	-3.8	-1.5
120	1	1	42	7	2 ON	1519	0.4261	0.83595	2.677	64.25	-3.8	-8.7
					OFF	97	0.4414	0.83724	2.773	66.56	-3.8	-1.1
126	2	1	21	7	2 ON	1888	0.4629	0.83889	2.896	69.58	-3.8	-2.1
					OFF	48	0.4629	0.83986	2.988	69.88	-3.8	-2.5
130	5	1	57	7	2 ON	1445	0.4118	0.83475	2.588	62.18	-3.8	-3.8
					OFF	133	0.4356	0.83675	2.737	65.68	-3.8	-2.7
131	5	1	74	7	2 ON	1216	0.3589	0.82961	2.285	52.91	-5.9	-8.2
					OFF	196	0.3956	0.83338	2.486	59.66	-5.9	-5.7
131	5	2	57	7	2 ON	1688	0.4412	0.83723	2.772	66.54	-5.9	-4.9
					OFF	127	0.4512	0.83687	2.835	68.24	-5.9	-5.2
132	5	1	95	7	2 ON	1266	0.3678	0.83184	2.311	55.47	-5.9	-7.8
					OFF	232	0.4163	0.83512	2.616	62.77	-5.9	-5.1
132	5	2	29	7	2 ON	2311	0.4519	0.83813	2.839	68.14	-5.9	-5.3
					OFF	64	0.4482	0.83782	2.816	67.59	-5.9	-5.2
133	5	1	126	7	2 ON	1488	0.3937	0.83322	2.474	59.36	-5.9	-5.7
					OFF	293	0.4414	0.83725	2.773	66.56	-5.9	-5.1
134	5	1	125	7	2 ON	1471	0.4882	0.83444	2.565	61.56	-5.9	-3.8
					OFF	241	0.4435	0.83742	2.787	66.88	-5.9	-3.7

**SECRET**

LINE	FR	R	A	TUR/DUR	INST	INST	SCAN	RATE	PCT	RATE		
135	3	1	78	7	2 ON	1456	0.4852	0.03419	2.546	61.18	-5.9	-3.1
					OFF	188	0.4347	0.03668	2.731	65.55	-5.9	-3.4
142	4	0	11	7	2 ON	1822	0.4517	0.03812	2.838	68.12	-5.9	-4.4
					OFF	27	0.4527	0.03828	2.844	68.27	-5.9	-4.7
144	1	2	18	7	2 ON	2128	0.4434	0.03741	2.786	66.86	-5.9	-6.3
					OFF	43	0.4391	0.03785	2.759	66.22	-5.9	-6.4
148	1	1	49	6	3 ON	1528	0.4277	0.03689	2.687	64.49	-5.9	-8.7
					OFF	115	0.4433	0.03748	2.785	66.85	-5.9	-1.4
148	1	2	117	6	3 ON	1867	0.4604	0.03884	2.893	69.42	-5.9	-3.1
					OFF	245	0.4538	0.03822	2.846	68.31	-5.9	-4.2
149	2	1	71	6	3 ON	1486	0.4228	0.03561	2.652	63.64	-5.9	-8.7
					OFF	164	0.4451	0.03755	2.796	67.11	-5.9	-1.5
150	2	1	78	6	3 ON	1525	0.4285	0.03615	2.692	64.61	-5.9	-8.7
					OFF	177	0.4585	0.03882	2.831	67.94	-5.9	-1.8
151	1	1	135	6	3 ON	1526	0.4286	0.03616	2.693	64.63	-5.9	-8.7
					OFF	384	0.4591	0.03874	2.885	69.23	-5.9	-2.8

RATE ESTIMATE

AFT PAN CAMERA NUMBER 175

OPN	NG	FR	R	A	TUR/DUR	INST	INST	SCAN	RATE	PCT	RATE	
						CPS	ANG VEL	R/SEC	I/SEC	CALIB	REQD	
79	7	0	0	7	2 ON	1685	0.4539	0.03838	2.852	68.44	-3.4	-1.2
					OFF	12	0.4548	0.03838	2.858	68.59	-3.4	-1.3
81	0	0	4	7	2 ON	8	0.1882	0.01588	1.183	28.38	-3.4	-115.2
					OFF	24	0.1882	0.01588	1.183	28.38	-3.4	-117.8
82	9	1	39	7	2 ON	1388	0.4818	0.03398	2.525	68.59	-3.4	-8.3
					OFF	98	0.4219	0.03568	2.651	63.62	-3.4	-8.4
83	9	1	34	7	2 ON	1535	0.4318	0.03644	2.713	65.12	-3.4	-8.3
					OFF	79	0.4443	0.03749	2.791	66.99	-3.4	-8.8
84	9	1	124	7	2 ON	1616	0.4449	0.03754	2.795	67.89	-3.4	-8.7
					OFF	276	0.4673	0.03943	2.936	78.47	-3.4	-2.5
85	7	1	74	7	2 ON	1242	0.3664	0.03892	2.382	55.25	-3.4	-1.6
					OFF	189	0.4186	0.03465	2.588	61.92	-3.4	-8.3
85	7	2	40	7	2 ON	2268	0.4375	0.03692	2.749	65.98	-3.4	-3.2
					OFF	118	0.4177	0.03524	2.624	62.98	-3.4	-3.8
86	5	1	101	7	2 ON	1244	0.3678	0.03896	2.386	55.34	-3.4	-1.6
					OFF	253	0.4241	0.03578	2.665	63.95	-3.4	-8.3
86	5	2	30	7	2 ON	1683	0.4536	0.03828	2.858	68.41	-3.4	-1.1
					OFF	79	0.4611	0.03898	2.897	69.53	-3.4	-1.7
87	0	1	10	7	2 ON	8	0.1882	0.01588	1.183	28.38	-3.4	-121.4
					OFF	81	0.1882	0.01588	1.183	28.38	-3.4	-129.9
87	0	2	21	7	2 ON	8	0.1882	0.01588	1.183	28.38	-3.4	-134.5
					OFF	189	0.1882	0.01588	1.183	28.38	-3.4	-144.8
88	1	0	10	7	2 ON	286	0.1937	0.01634	1.217	29.28	-3.7	-13.9
					OFF	48	0.1966	0.01659	1.235	29.64	-3.7	-14.3
88	1	1	101	7	2 ON	1382	0.3988	0.03365	2.586	68.13	-3.7	-8.1
					OFF	384	0.4528	0.03814	2.848	68.15	-3.7	-1.1
89	0	1	00	7	2 ON	1956	0.4656	0.03928	2.925	78.21	-3.7	-3.1
					OFF	184	0.4539	0.03838	2.852	68.45	-3.7	-3.8



94	1	1	21	7	2 ON	1175	8.3479	8.82935	2.188	52.46	-3.7	-2.7
					OFF	59	8.3625	8.83859	2.278	54.66	-3.7	-2.1
94	1	8	17	7	2 ON	1658	8.4481	8.83781	2.818	67.58	-3.7	-8.9
					OFF	39	8.4526	8.83819	2.844	68.25	-3.7	-1.3
94	1	2	24	7	2 ON	1773	8.4687	8.83887	2.894	69.47	-3.7	-1.8
					OFF	55	8.4638	8.83913	2.914	69.93	-3.7	-2.3
95	1	1	35	7	2 ON	1177	8.3482	8.82938	2.188	52.58	-3.7	-2.9
					OFF	97	8.3724	8.83142	2.348	56.15	-3.7	-1.6
98	5	1	41	7	2 ON	1388	8.3828	8.83223	2.488	57.68	-3.2	-8.5
					OFF	186	8.4862	8.83428	2.552	61.26	-3.2	8.1
99	5	1	62	7	2 ON	1246	8.3685	8.83118	2.315	55.57	-3.2	-1.2
					OFF	168	8.4863	8.83429	2.553	61.28	-3.2	8.8
99	5	2	29	7	2 ON	1598	8.4435	8.83742	2.787	66.88	-3.2	8.8
					OFF	65	8.4522	8.83815	2.841	68.18	-3.2	-8.4
188	5	1	86	7	2 ON	1385	8.3833	8.83234	2.488	57.88	-3.2	-8.5
					OFF	212	8.4298	8.83628	2.696	64.78	-3.2	8.2
138	5	2	18	7	2 ON	1817	8.4663	8.83934	2.938	78.31	-3.2	-1.4
					OFF	48	8.4678	8.83947	2.939	78.54	-3.2	-1.7
191	3	1	78	7	2 ON	1164	8.3478	8.82928	2.181	52.33	-3.2	-2.6
					OFF	288	8.3987	8.83364	2.585	68.13	-3.2	-8.2
192	6	1	83	7	2 ON	1379	8.4818	8.83384	2.528	68.47	-3.2	8.3
					OFF	196	8.4393	8.83787	2.768	66.25	-3.2	8.2
193	1	8	18	7	2 ON	242	8.1971	8.81663	1.239	29.73	-3.2	-14.9
					OFF	48	8.2885	8.81692	1.268	38.24	-3.2	-15.8
193	1	1	159	7	2 ON	1347	8.3935	8.83321	2.473	59.34	-3.2	8.8
					OFF	378	8.4584	8.83868	2.888	69.13	-3.2	-8.6
194	1	1	21	7	2 ON	1331	8.3897	8.83288	2.449	58.77	-3.2	-8.1
					OFF	54	8.4816	8.83389	2.523	68.56	-3.2	8.1
194	1	2	73	7	2 ON	1466	8.4199	8.83543	2.638	63.32	-3.2	8.5
					OFF	162	8.4475	8.83776	2.812	67.49	-3.2	-8.1
125	8	1	48	7	2 ON	2869	8.4631	8.83987	2.918	69.63	-3.2	-2.6
					OFF	188	8.4524	8.83817	2.843	68.22	-3.2	-3.1
118	8	1	21	7	2 ON	1829	8.4658	8.83931	2.927	78.25	-3.2	-1.2
					OFF	47	8.4678	8.83947	2.939	78.54	-3.2	-1.5
116	7	1	84	7	2 ON	1266	8.3722	8.83141	2.339	56.13	-3.5	-1.5
					OFF	212	8.4281	8.83545	2.639	63.35	-3.5	-8.1
116	7	2	21	7	2 ON	1989	8.4658	8.83932	2.928	78.26	-3.5	-2.7
					OFF	47	8.4639	8.83914	2.915	69.95	-3.5	-2.9
116	7	3	58	7	2 ON	2251	8.4399	8.83712	2.764	66.34	-3.5	-3.7
					OFF	125	8.4178	8.83525	2.625	63.88	-3.5	-3.8
117	4	1	129	7	2 ON	1361	8.3954	8.83336	2.484	59.62	-3.5	-8.5
					OFF	249	8.4433	8.83748	2.785	66.85	-3.5	-8.3
116	4	1	91	7	2 ON	1419	8.4885	8.83447	2.566	61.68	-3.5	-8.1
					OFF	212	8.4463	8.83766	2.884	67.38	-3.5	-8.4
119	8	1	88	7	2 ON	1558	8.4341	8.83663	2.727	65.46	-3.5	-8.1
					OFF	143	8.4541	8.83832	2.853	68.48	-3.5	-8.8
128	1	1	42	7	2 ON	1519	8.4285	8.83616	2.693	64.62	-3.5	-8.1
					OFF	97	8.4442	8.83748	2.791	66.98	-3.5	-8.4
126	8	1	21	7	2 ON	1888	8.4642	8.83917	2.916	69.99	-3.5	-1.4
					OFF	48	8.4662	8.83933	2.929	78.29	-3.5	-1.8
134	5	1	57	7	2 ON	1445	8.4148	8.83493	2.681	62.42	-3.5	-2.4

**SECRET**

131	5	1	75	7	2	ON	1216	0.3546	0.02992	2.228	53.48	-3.5	-2.1
						OFF	133	0.4383	0.03698	2.754	66.89	-4.8	-7.1
						OFF	196	0.4888	0.03381	2.518	60.43	-4.8	-4.4
131	5	2	58	7	2	ON	1688	0.4477	0.03778	2.813	67.52	-4.8	-3.4
						OFF	127	0.4588	0.03865	2.878	69.87	-4.8	-3.6
132	5	1	93	7	2	ON	1286	0.3721	0.03148	2.338	56.12	-4.8	-5.8
						OFF	232	0.4228	0.03561	2.652	63.64	-4.8	-3.7
132	5	2	29	7	2	ON	2011	0.4587	0.03878	2.882	69.17	-4.8	-3.8
						OFF	64	0.4549	0.03839	2.858	68.68	-4.8	-3.7
133	5	1	127	7	2	ON	1488	0.3987	0.03364	2.585	60.13	-4.8	-4.4
						OFF	293	0.4479	0.03788	2.814	67.55	-4.8	-3.5
134	4	1	186	7	2	ON	1471	0.4137	0.03491	2.599	62.39	-4.8	-1.6
						OFF	241	0.4581	0.03798	2.828	67.87	-4.8	-2.2
135	3	1	78	7	2	ON	1456	0.4186	0.03465	2.588	61.92	-4.8	-1.7
						OFF	188	0.4418	0.03721	2.771	66.58	-4.8	-1.9
142	4	8	12	7	2	ON	1822	0.4586	0.03869	2.881	69.15	-4.8	-2.9
						OFF	27	0.4596	0.03678	2.868	69.38	-4.8	-3.1
144	1	2	18	7	2	ON	2128	0.4588	0.03797	2.827	67.85	-4.8	-4.7
						OFF	43	0.4456	0.03768	2.888	67.19	-4.8	-4.8
148	1	1	49	6	3	ON	1528	0.4341	0.03662	2.727	65.45	-4.8	0.7
						OFF	115	0.4582	0.03798	2.829	67.88	-4.8	0.1
148	1	2	118	6	3	ON	1867	0.4678	0.03947	2.939	70.54	-4.8	-1.5
						OFF	245	0.4682	0.03883	2.892	69.48	-4.8	-2.6
149	2	1	72	6	3	ON	1486	0.4282	0.03613	2.691	64.57	-4.8	0.8
						OFF	164	0.4528	0.03814	2.848	68.16	-4.8	0.8
152	2	1	75	6	3	ON	1525	0.4349	0.03678	2.733	65.58	-4.8	0.8
						OFF	177	0.4577	0.03862	2.876	69.81	-4.8	-0.2
151	1	1	138	6	3	ON	1526	0.4358	0.03678	2.733	65.59	-4.8	0.8
						OFF	384	0.4665	0.03936	2.931	72.35	-4.8	-1.1

RAMP PROFILE

R= 7 A= 2 PERIOD= 3837

R= 0.3423 A= 0.1419

TUR	PER	CPS	ANG V
0	5.242	0.1984	0.01794
178	5.244	0.1999	0.01808
268	4.897	0.2042	0.01847
362	4.732	0.2113	0.01911
488	4.525	0.2211	0.02082
588	4.287	0.2333	0.02118
682	4.237	0.2477	0.02242
782	3.788	0.2642	0.02329
882	3.548	0.2819	0.02549
988	3.325	0.3009	0.02722
1088	3.117	0.3208	0.02981
1188	2.932	0.3413	0.03387
1288	2.716	0.3682	0.03338
1388	2.537	0.3941	0.03565
1488	2.392	0.4181	0.03781



~~SECRET~~

1500	2.277	0.4392	0.83972
1600	2.189	0.4567	0.84131
1700	2.128	0.4700	0.84251
1800	2.090	0.4786	0.84329
1900	2.074	0.4821	0.84368
2000	2.081	0.4805	0.84346
2100	2.111	0.4738	0.84285
2200	2.164	0.4622	0.84180
2300	2.241	0.4462	0.84035
2400	2.346	0.4263	0.83855
2500	2.480	0.4033	0.83647
2600	2.646	0.3780	0.83419
2700	2.846	0.3513	0.83178
2800	3.046	0.3283	0.82969
2900	3.245	0.3082	0.82787
3000	3.463	0.2888	0.82612
3100	3.696	0.2704	0.82446
3200	3.945	0.2535	0.82293
3300	4.195	0.2384	0.82156
3400	4.438	0.2253	0.82030
3500	4.659	0.2146	0.81941
3600	4.843	0.2065	0.81868
3700	4.972	0.2011	0.81819
3800	5.035	0.1986	0.81796

RAMP PROFILE

R= 6 A= 3 PERIOD= 3837

R= 0.3612 A= 0.1284

TUR	PER	CPS	ANG V
00	4.296	0.2328	0.82106
100	4.271	0.2341	0.82117
200	4.201	0.2380	0.82153
300	4.090	0.2445	0.82211
400	3.940	0.2533	0.82291
500	3.780	0.2644	0.82391
600	3.605	0.2774	0.82509
700	3.420	0.2921	0.82642
800	3.240	0.3083	0.82789
900	3.070	0.3256	0.82945
1000	2.911	0.3435	0.83107
1100	2.760	0.3621	0.83275
1200	2.597	0.3865	0.83445
1300	2.440	0.4099	0.83708
1400	2.317	0.4316	0.83904
1500	2.219	0.4507	0.84076
1600	2.140	0.4666	0.84220
1700	2.090	0.4786	0.84328
1800	2.050	0.4863	0.84399
1900	2.040	0.4895	0.84427

~~SECRET~~

~~SECRET~~

2000	2.849	0.4880	0.84414
2100	2.875	0.4820	0.84359
2200	2.121	0.4715	0.84264
2300	2.188	0.4578	0.84133
2400	2.278	0.4398	0.83971
2500	2.391	0.4182	0.83782
2600	2.538	0.3953	0.83575
2700	2.694	0.3712	0.83357
2800	2.855	0.3583	0.83168
2900	3.011	0.3321	0.83084
3000	3.179	0.3146	0.82845
3100	3.356	0.2980	0.82695
3200	3.538	0.2827	0.82557
3300	3.718	0.2698	0.82433
3400	3.889	0.2572	0.82326
3500	4.041	0.2475	0.82238
3600	4.164	0.2401	0.82172
3700	4.251	0.2353	0.82123
3800	4.292	0.2338	0.82107

CLOCK SUMMARY

ORDER FIT 1

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.379451300 05	0.705812700 04	0.3794513710 05	0.0009	9	
0.775228750 05	0.466358700 05	0.775228800 05	-0.0029	16	
0.331580530 05	0.886630430 05	0.3315805290 05	0.0051	24	
0.727992300 05	0.1283122260 06	0.7279923590 05	0.0021	31	
0.337557850 05	0.1756687740 06	0.3375578380 05	0.0012	48	
0.732930100 05	0.2152060880 06	0.7329301770 05	0.0003	47	
0.341302400 05	0.2624432340 06	0.3413024360 05	-0.0036	56	
0.738440770 05	0.3021570690 06	0.7384407850 05	-0.0015	63	
0.348531200 05	0.3495661160 06	0.3485312550 05	0.0025	72	
0.743516700 05	0.3898646720 06	0.7435168140 05	-0.0034	79	
0.353397400 05	0.4364527460 06	0.3533975530 05	-0.0073	88	
0.694047500 05	0.4705977480 06	0.6940475720 05	0.0008	94	
0.303616600 05	0.5178746570 06	0.3036166620 05	0.0018	103	
0.699103610 05	0.2055244200 05	0.6991036310 05	-0.0021	110	
0.307714000 05	0.6781355780 05	0.3077147800 05	0.0050	119	
0.703024500 05	0.1073445370 06	0.7030245790 05	-0.0029	126	
0.310362100 05	0.1544782980 06	0.3103621880 05	-0.0008	135	
0.705458700 05	0.1939879590 06	0.7054587980 05	-0.0018	142	
0.314430400 05	0.2412851280 06	0.3144304870 05	-0.0007	151	
0.708617700 05	0.2807038470 06	0.7086176760 05	0.0064	158	

A0= 0.3088701010 05 A1= 0.9999999981740 00  
 SIGMA=0.00317 NO. POINTS= 20  
 RATIO OF CLOCK TIME TO SYS TIME= 0.1000000001630 01

ORDER FIT 2

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.379451300 05	0.705812700 04	0.3794513930 05	-0.0013	9	

~~SECRET~~

0.775228780 05	0.466358780 05	0.7752288160 05	-0.0036	16
0.331588580 05	0.886635390 05	0.3315885390 05	0.0041	24
0.727992380 05	0.1283122260 05	0.7279923630 05	0.0017	31
0.337557850 05	0.1756687740 06	0.3375578370 05	0.0013	48
0.732938180 05	0.2152868880 06	0.7329381720 05	0.0008	47
0.341382480 05	0.2624432340 06	0.3413824280 05	-0.0028	56
0.738448770 05	0.3821578690 06	0.7384487750 05	-0.0005	63
0.348531280 05	0.3495661160 06	0.3485312420 05	0.0038	72
0.743516780 05	0.3898646720 06	0.7435168810 05	-0.0021	79
0.353397480 05	0.4364527460 06	0.3533975480 05	-0.0068	88
0.694847580 05	0.4705977480 06	0.6948475680 05	0.0028	94
0.323616680 05	0.5178746570 06	0.3236166510 05	0.0029	103
0.699183610 05	0.2855244280 05	0.6991836220 05	-0.0012	118
0.387714830 05	0.6781355780 05	0.3877147750 05	0.0055	119
0.783824550 05	0.1873445370 06	0.7838245780 05	-0.0028	126
0.318362180 05	0.1544782980 06	0.3183621920 05	-0.0012	135
0.725458780 05	0.1939879590 06	0.7254588870 05	-0.0027	142
0.314438430 05	0.2412851280 06	0.3144385830 05	-0.0023	151
0.788617740 05	0.2887838470 06	0.7886176990 05	0.0041	158

AH= 0.32887812460 05 A1= 0.9999999882430 08  
A2= 0.21888842741270-13  
SIGMA=0.00295 NO. POINTS= 20

CLOCK OPERATIONS

CPN	NO	FR		H	M	S	DEC	BINARY	
79	7	0	0	ON	28	38	39	389831	10111001100000010010001011000
				OFF	28	38	51	389843	10111001100000101001100111000
81	8	0	0	ON	23	34	44	399597	1011110100010101110111001000
				OFF	23	35	8	399621	1011110100011011101110001000
82	4	1	30	ON	1	5	5	425818	1100000100100000101011001000
				OFF	1	6	43	425116	110000010010100101001100000
83	9	1	34	ON	2	38	1	418594	1100001111001001010101101000
				OFF	2	39	22	418673	11000011110100101111101101000
84	9	1	124	ON	4	9	48	416181	1102011001101001100101010201000
				OFF	4	14	24	416377	11000110100010110100010101000
85	7	1	74	ON	5	34	1	421154	11001000110100100110011010000
				OFF	5	37	18	421343	11001000111010010111100011000
85	7	2	47	ON	5	51	6	422179	11001001010011111000010111000
				OFF	5	52	56	422289	11201001010111001111001101000
86	6	1	187	ON	7	4	38	426583	11001011011010010001111011000
				OFF	7	8	43	426836	110010111000100000000000100000
86	6	2	30	ON	7	11	49	427222	11001011100111101010110110000
				OFF	7	13	8	427181	11001011101010000101101001000
87	6	1	10	ON	8	38	23	432216	11001110000110001011111000000
				OFF	8	39	44	432297	11001110001000101010000101000
87	6	2	21	ON	8	42	29	432342	11001110001010000001111110000
				OFF	8	42	18	432451	11001110001101010110110111000
88	1	0	10	ON	9	47	55	436368	11010000000101100000010100000
				OFF	9	48	43	436436	11010000000110111110000100000



88	1	1	131	ON	18	7	38	437563	11010000101001010111001111000
				OFF	18	12	34	437867	11010000110010101000111111000
89	2	1	82	ON	11	47	32	443565	11010011100000100001111001000
				OFF	11	50	36	443749	11010011100110001001010001000
94	1	1	21	ON	19	6	46	469919	11100000000100110010100011000
				OFF	19	7	45	469978	11100000000110100101110010000
94	1	8	17	ON	19	14	41	478394	11100000010011010010010010000
				OFF	19	15	20	478433	11100000010100011110011101000
94	1	2	24	ON	19	16	44	478517	11100000010111000010100001000
				OFF	19	17	39	478572	11100000011000101101111100000
95	1	1	35	ON	20	37	14	475347	11100010101010011100000111000
				OFF	20	38	51	475444	11100010101101011001100100000
98	5	1	41	ON	1	18	33	491745	11101010011110110111011010000
				OFF	1	12	19	491851	11101010100010000110011111000
99	5	1	62	ON	2	40	6	497119	11101101000010110111100011000
				OFF	2	42	46	497279	11101101000111110000000011000
99	5	2	28	ON	2	45	58	497471	11101101001101100111000011000
				OFF	2	47	3	497536	11101101001111100110000000000
100	5	1	80	ON	4	11	29	502602	11101111101010001100100010000
				OFF	4	15	1	502814	11101111110000101010100110000
100	5	2	18	ON	4	20	1	503114	11101111111001110100100010000
				OFF	4	20	41	503154	11101111111011000010101010000
101	3	1	70	ON	5	39	34	507887	11110010001011011110110011000
				OFF	5	43	2	508095	11110010010001110101000011000
102	6	1	80	ON	7	13	29	513522	11110100110111011100101010000
				OFF	7	16	45	513710	11110100111101011011011110000
103	1	2	10	ON	8	24	57	517010	11110110111010010011101010000
				OFF	8	25	45	517858	11110110111011110001011010000
103	1	1	100	ON	8	43	22	518915	11110111011100000001110111000
				OFF	8	49	32	519285	11110111100111010100100001000
104	1	1	21	ON	10	13	30	524323	11111010000001000100010111000
				OFF	10	14	24	524377	11111010000010101101110101000
104	1	2	70	ON	10	15	46	524459	11111010000101001101111111000
				OFF	10	16	26	524621	11111010001010001010011001000
105	0	1	40	ON	11	56	12	530485	11111100111101000111100001000
				OFF	11	50	0	530593	11111101000000011010011101000
106	0	1	20	ON	19	23	49	20471	00001001110000101110011011000
				OFF	19	24	36	20518	00001001110010001010001110000
106	7	1	04	ON	4	17	3	52465	00011001000001000110101101000
				OFF	4	21	35	52677	00011001000111100100110001000
106	7	2	21	ON	4	29	6	53100	00011001010111001010110100000
				OFF	4	29	53	53235	000110010110001001110100111000
106	7	3	50	ON	4	33	28	53450	00011001011111001010100010000
				OFF	4	35	33	53575	00011001100010111110101011000
107	0	1	100	ON	5	49	1	57983	00011011101001100000000011000
				OFF	5	53	10	58232	00011011110001000110011000000
108	4	1	01	ON	7	20	21	63463	00011110010000101111001011000
				OFF	7	23	53	63675	0001111001011100101001111000
109	0	1	00	ON	8	52	55	69017	0010000011010001110110101000
				OFF	8	55	18	69160	00100000111101001100010000000
109	1	1	40	ON	10	22	46	74409	00100011011110110010000101000





126 2 1 21  
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131 5 1 74  
131 5 2 57  
132 5 1 93  
132 5 2 29  
133 5 1 120  
134 4 1 100  
135 3 1 70  
142 4 0 11  
144 1 2 10  
148 1 1 40  
148 1 2 110  
149 2 1 71  
150 2 1 70  
151 1 1 130

OFF 18 24 23 74586  
ON 19 29 42 107224  
OFF 19 30 30 107272  
ON 1 25 42 128584  
OFF 1 27 55 128717  
ON 2 52 15 133777  
OFF 2 55 31 133973  
ON 3 0 6 134248  
OFF 3 2 13 134375  
ON 4 23 44 139266  
OFF 4 27 36 139498  
ON 4 35 49 139991  
OFF 4 36 53 140055  
ON 5 55 58 144800  
OFF 6 0 51 145093  
ON 7 26 30 150240  
OFF 7 30 39 150481  
ON 8 56 43 155645  
OFF 8 59 43 155825  
ON 19 34 54 193936  
OFF 19 35 21 193963  
ON 22 40 34 205076  
OFF 22 41 17 205119  
ON 4 31 34 226136  
OFF 4 33 29 226251  
ON 4 37 21 226483  
OFF 4 41 26 226728  
ON 6 1 16 231518  
OFF 6 4 0 231602  
ON 7 32 0 236970  
OFF 7 35 5 237147  
ON 9 2 24 242386  
OFF 9 7 28 242690

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0011

