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CORONA "J" FLIGHT
DATA BOOK : 1040-2

[REDACTED]

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In Accordance with E. O. 12958

on NOV 26 1997

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4 PAGES
(NOT INCLUDING PES)

~~CORONA J-FLIGHT DATA BOOK~~

SYSTEM NO. J-35

~~VEHICLE NO. 1636~~

MISSION NO. 1040-2

CAMERA NOS. 196/197

DATE 04-10-67

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SYSTEM NO. J-35
VEHICLE NO. 1636
MISSION NO. 1848-2
CAMERA NOS. 196/197

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SYSTEM NO. J-35
VEHICLE NO. 1636
MISSION NO. 1848-2
CAMERA NOS. 196/197

~~GENERAL FLIGHT DATA~~

~~MASTER CAMERA SERIAL NO. 196~~

~~SLAVE CAMERA SERIAL NO. 197~~

~~S/I -1 SERIAL NO. 978/95/96~~

~~S/I -2 SERIAL NO. 092/79/118~~

~~LAUNCH DATE 83-32-67~~

~~REACTIVATION DATE N/A~~

~~REACTIVATION ORBIT N/A~~

~~ORBITAL PARAMETERS (REV. 118)~~

~~PERIOD 98.921 MIN ECCENTRICITY 0.81529~~

~~PERIGEE 186.083 NM PERIGEE LAT. 45.391~~

~~APOGEE 215.451 NM INCL. ANGLE 85.654~~

~~RECOVERY ORBIT NO. 145~~

~~RECOVERY DATE 84-08-67~~

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SYSTEM NO. J-35
VEHICLE NO. 1636
MISSION NO. 1848-2
CAMERA NOS. 196/197

CYCLE PERIOD DATA

V/F RAMP LEVEL	SETTING AMPLITUDE	TIME UP RAMP-SEC	CALIBRATED		IN-FLIGHT	
			MASTER	SLAVE	MASTER	SL
6	5	1781	2.212	2.236	2.225	2.
5	5	1999	2.289	2.224	2.225	2.
4	5	2654	2.211	2.234	2.235	2.

NOTE

A * OR -0 INDICATES NO DATA AVAILABLE.

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A. 1844-2

B. DRY

C. PERFORMANCE ESTIMATE - PART ONE

OPERATIONS SUMMARY

FWD PAN CAMERA NUMBER 197

OPN	NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-
71	4	5	5 ON	2 41 26	68 53E	618832	648528	4	5	45	44	1821	28
			OFF	2 48 38	68 57E	616728	639168	4	5	45	56	1821	28
72	6	8	4 ON	1 31 43	119 48W	1877448	1117536	4	6	49	27	2258	24
			OFF	1 33 7	119 36W	1874768	1118688	4	6	49	58	2251	24
72	7	1	28 ON	2 80 48	21 16E	752488	779968	4	7	6	1	831	25
			OFF	2 77 13	38 25E	735848	761952	4	7	6	59	9 8	25
72	7	2	64 ON	2 72 31	38 16E	765184	738968	4	7	8	43	941	25
			OFF	2 59 39	43 14E	664168	688488	4	7	11	26	18 4	25
72	7	7	19 ON	2 32 59	46 52E	627584	629688	4	7	17	59	1825	26
			OFF	2 29 54	47 3E	685888	627848	4	7	18	44	1826	26
73	9	2	14 ON	2 56 16	21 25E	652544	676336	4	8	42	28	18 8	31
			OFF	2 53 51	21 55E	645344	668864	4	8	43	4	1818	31
73	9	6	59 ON	2 5 45	25 16E	633768	656848	4	8	54	49	1835	32
			OFF	3 4 2	25 31E	665856	698144	4	8	57	13	1839	32
74	1	6	24 ON	2 24 58	2 8E	625664	627696	4	18	28	21	1828	37
			OFF	2 29 55	2 9E	647824	629936	4	18	21	18	1829	37
77	2	8	28 ON	3 18 21	64 48W	735776	762784	4	15	1	27	1842	54
			OFF	3 23 43	64 28W	766816	794896	4	15	2	46	1944	54
79	3	8	9 ON	2 41 36	112 27W	615552	637952	4	17	47	9	1817	64
			OFF	2 48 4	112 12W	613376	635696	4	17	47	31	1818	64
81	6	8	4 ON	2 62 6	168 45W	658368	682384	4	28	42	51	959	74
			OFF	2 58 34	168 22W	653632	677472	4	28	43	15	18 1	74
83	3	1	56 ON	2 73 14	146 44E	764448	738192	4	23	39	57	926	85
			OFF	2 63 51	152 42E	669288	693616	4	23	42	19	953	85
84	6	6	47 ON	3 14 34	136 32E	762648	728328	5	1	38	42	1836	8
			OFF	3 19 11	136 48E	747128	774488	5	1	32	49	1848	8
85	7	2	11 ON	2 73 21	161 19E	782888	728488	5	2	48	15	925	9
			OFF	2 71 19	183 12E	694724	728896	5	2	48	46	933	9
85	7	4	18 ON	2 52 27	116 41E	629872	652816	5	2	45	57	18 8	9
			OFF	2 47 27	111 8E	623632	646336	5	2	46	41	1811	14
86	3	2	32 ON	2 64 24	84 38E	658624	693824	5	4	12	48	958	15
			OFF	2 59 12	86 14E	652144	675928	5	4	13	57	958	15
86	3	4	163 ON	2 53 58	87 26E	637712	668944	5	4	15	15	18 5	15
			OFF	2 22 38	93 1E	625968	628816	5	4	21	27	1821	15
87	4	2	84 ON	2 76 28	52 11E	713184	739264	5	5	39	47	9 8	28
			OFF	2 68 25	61 26E	671288	695696	5	5	42	34	948	28
87	4	5	14 ON	2 52 31	65 3E	633664	656736	5	5	45	45	18 5	28
			OFF	2 52 12	65 26E	628368	651264	5	5	46	28	18 8	28
87	4	6	10 ON	2 32 34	67 5E	646336	628384	5	5	56	37	1819	21
			OFF	2 29 32	67 19E	625984	628832	5	5	51	22	1828	21
88	4	2	24 ON	2 59 25	41 54E	651392	675136	5	7	14	12	957	26
			OFF	2 55 27	41 51E	648432	663776	5	7	15	11	18 2	26
89	5	6	41 ON	2 5 37	22 53E	643248	666688	5	8	57	38	1829	32

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		OFF	3	1	14	23	3E	666728	691848	5	8	59	11	1831	3
98	8	1	28	ON	2	88	29	25	42W	728272	754928	5	18	9	5 826 3
		OFF	2	75	52	15	8W	787632	733584	5	18	18	21	918	3
98	8	8	22	ON	2	8	17	8	18E	636288	659392	5	18	27	8 1827 3
		OFF	2	4	34	8	16E	647136	678728	5	18	27	55	1829	3
92	618	28	ON	3	19	53	44	19W	758912	786728	5	13	34	11	1836 4
		OFF	3	23	51	44	18W	782896	818784	5	13	35	18	1838	4
98	1	1	57	ON	2	71	16	168	52E	681184	785968	5	22	12	34 928 7
		OFF	2	61	48	173	46E	658576	674384	5	22	14	56	958	8
108	1	4	15	ON	2	44	38	131	58E	613488	635888	6	1	19	26 18 6
		OFF	2	41	59	132	5E	618656	632888	6	1	26	3	18 8	
108	1	6	24	ON	3	3	2	134	4E	681984	786888	6	1	31	3 1827
		OFF	3	7	16	134	18E	788576	726176	6	1	32	5	1828	
108	1	7	63	ON	3	18	26	134	15E	715776	741952	6	1	32	52 1829
		OFF	3	22	29	134	39E	781848	818528	6	1	35	58	1834	
101	3	2	38	ON	2	73	15	99	9E	685368	718488	6	2	42	25 919
		OFF	2	67	2	183	42E	663952	688176	6	2	44	8	938	
101	3	4	76	ON	2	64	52	184	42E	657344	681328	6	2	44	32 943
		OFF	2	52	41	188	3E	626488	649296	6	2	47	33	959	1
101	3	6	77	ON	2	58	12	188	28E	621744	644384	6	2	48	9 18 2 1
		OFF	2	38	14	189	47E	687524	629688	6	2	51	5	1818	1
101	3	7	38	ON	2	36	5	189	56E	686512	628576	6	2	51	37 1811 1
		OFF	2	32	5	118	19E	686568	628624	6	2	53	5	1814	1
102	3	1	39	ON	2	74	1	75	41E	687152	712256	6	4	12	28 915 1
		OFF	2	67	38	88	44E	665128	689392	6	4	13	57	936	1
102	3	2	79	ON	2	64	9	82	21E	654488	678272	6	4	14	49 944 1
		OFF	2	51	31	85	37E	623728	646432	6	4	17	56	18 8 1	
102	3	6	22	ON	2	43	3	86	43E	611248	633488	6	4	28	1 18 6 1
		OFF	2	39	37	87	2E	688248	638368	6	4	28	51	18 9 1	
102	3	8	36	ON	2	33	52	87	27E	686888	628848	6	4	22	16 1812 1
		OFF	2	28	12	87	47E	687456	629552	6	4	23	39	1814	1
103	3	4	24	ON	2	58	13	61	37E	637768	668992	6	5	46	24 952 2
		OFF	2	54	26	62	27E	629848	651952	6	5	47	28	957	2
103	3	7	74	ON	2	47	14	63	36E	616248	638672	6	5	49	6 18 3 2
		OFF	2	35	41	64	42E	686288	628352	6	5	51	56	1818	2
104	4	6	42	ON	2	18	31	42	55E	619264	641888	6	7	26	13 1817 2
		OFF	2	12	8	43	8E	633328	656488	6	7	27	48	1828	2
104	4	8	38	ON	2	5	25	43	18E	652656	676448	6	7	29	25 1822 2
		OFF	3	1	4	43	29E	676576	781288	6	7	31	8	1824	2
105	2	4	23	ON	2	23	18	28	6E	612488	634768	6	8	55	9 1815 3
		OFF	2	19	34	28	15E	617856	648352	6	8	56	4	1817	3
106	4	5	29	ON	2	13	35	2	12W	638488	653368	6	18	27	37 1818 3
		OFF	2	8	58	2	2W	643136	666576	6	18	28	47	1828	3
109	2	9	41	ON	3	36	38	68	18W	881328	913824	6	15	18	16 1837 5
		OFF	3	45	42	67	28W	943888	977952	6	15	12	32	1842	5
111	3	8	17	ON	2	35	8	116	18W	686288	628336	6	17	52	52 18 7 6
		OFF	2	32	14	116	7W	686752	628832	6	17	53	32	18 9 6	
115	3	2	46	ON	2	66	11	147	17E	658688	674328	6	23	45	38 934 8
		OFF	2	58	51	149	53E	632488	655448	6	23	47	19	946	8
116	2	1	17	ON	2	53	7	128	31E	628816	643488	7	1	18	49 952
		OFF	2	58	26	128	58E	616656	639184	7	1	19	29	955	

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116	2	2	13	ON	2	43	55	129	48E	689488	631584	7	1	21	4	18	8	4
				OFF	2	41	51	138	8E	687982	638864	7	1	21	34	18	1	4
116	2	4	62	ON	3	16	18	132	28E	768288	788864	7	1	35	46	1825	5	
				OFF	3	28	29	132	48E	834728	865424	7	1	38	49	1838	5	
117	4	2	13	ON	2	73	2	97	17E	669664	694112	7	2	43	55	913	9	
				OFF	2	78	46	99	15E	662496	686672	7	2	44	38	921	9	
117	4	5	162	ON	2	35	34	187	53E	686368	628416	7	2	53	18	18	4	18
				OFF	2	18	3	189	8E	645768	669296	7	2	59	24	1815	18	
118	4	5	34	ON	2	53	47	83	8E	621128	643728	7	4	18	47	951	15	
				OFF	2	48	24	84	1E	613392	635712	7	4	28	6	956	15	
118	4	7	86	ON	2	32	36	85	27E	687288	629296	7	4	23	58	18	5	15
				OFF	2	19	5	86	5E	623568	646272	7	4	27	16	1811	16	
119	8	2	31	ON	2	75	37	48	56E	676464	781168	7	5	43	23	859	28	
				OFF	2	78	31	54	11E	668832	684112	7	5	44	42	921	28	
119	8	6	45	ON	2	49	19	61	16E	614176	636528	7	5	49	57	955	28	
				OFF	2	42	15	62	6E	687744	629856	7	5	51	41	18	8	21
119	8	8	37	ON	2	32	18	62	51E	687456	629552	7	5	54	6	18	5	21
				OFF	2	26	31	63	9E	612288	634488	7	5	55	31	18	8	21
128	4	1	57	ON	2	71	2	31	18E	668816	684912	7	7	14	37	919	26	
				OFF	2	61	53	35	52E	636336	659528	7	7	16	54	948	26	
128	4	2	33	ON	2	59	35	36	33E	631248	654248	7	7	17	28	943	26	
				OFF	2	54	25	37	46E	621376	644888	7	7	18	44	949	26	
128	4	3	56	ON	2	51	27	38	18E	616728	639168	7	7	19	29	952	26	
				OFF	2	42	48	39	25E	687936	638848	7	7	21	36	959	26	
128	4	7	58	ON	2	7	32	41	12E	655392	679288	7	7	38	12	1815	27	
				OFF	3	2	38	41	27E	694576	719952	7	7	32	48	1818	27	
124	1	7	29	ON	3	16	18	48	38W	768672	796848	7	13	36	17	1821	48	
				OFF	3	22	5	48	26W	882832	832328	7	13	37	43	1823	48	
125	7	8	28	ON	3	7	12	71	31W	721184	747568	7	15	4	5	1818	54	
				OFF	3	11	2	71	25W	744736	767856	7	15	5	1	1819	54	
127	3	8	17	ON	2	35	12	118	17W	687568	629688	7	17	53	49	18	8	64
				OFF	2	32	25	118	7W	689856	631216	7	17	54	29	18	2	64
131	3	1	9	ON	2	73	6	148	31E	658288	682288	7	23	44	35	9	6	85
				OFF	2	71	38	141	53E	653984	677824	7	23	44	58	912	85	
131	3	2	34	ON	2	69	52	143	13E	649216	672888	7	23	45	25	918	85	
				OFF	2	64	26	146	7E	635968	659136	7	23	46	47	931	85	
131	3	5	17	ON	2	61	31	147	18E	629848	652784	7	23	47	38	936	85	
				OFF	2	58	47	147	58E	624672	647424	7	23	48	11	948	85	
132	7	3	36	ON	2	71	41	119	13E	653448	677264	8	1	14	59	911	4	
				OFF	2	65	54	122	51E	638736	662816	8	1	16	26	927	4	
133	8	3	69	ON	2	68	53	182	8E	627696	658568	8	2	47	42	936	18	
				OFF	2	58	9	184	28E	612128	634488	8	2	58	21	948	18	
133	8	6	117	ON	2	27	36	186	27E	615448	637848	8	2	55	51	18	1	18
				OFF	2	8	42	187	8E	668592	684688	8	3	8	28	18	9	18
134	4	4	35	ON	2	53	34	81	17E	615696	638896	8	4	19	32	944	15	
				OFF	2	43	5	82	9E	618128	632328	8	4	28	53	949	15	
134	4	7	44	ON	2	38	23	83	41E	612352	634648	8	4	25	12	959	15	
				OFF	2	23	24	84	1E	622488	645856	8	4	26	54	18	3	18
135	4	2	15	ON	2	74	36	48	24E	659528	683584	8	5	44	19	857	28	
				OFF	2	72	7	51	8E	652464	676256	8	5	44	57	9	9	28
135	4	4	65	ON	2	64	13	55	44E	633376	656448	8	5	46	56	929	28	

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135	4	7	18	ON	2	46	58	59	41E	689288	631376	8	5	49	26	943	2
				OFF	2	44	34	59	57E	688888	638128	8	5	51	45	951	2
136	4	1	24	ON	2	71	2	29	18E	648888	672544	8	7	15	14	912	2
				OFF	2	67	8	31	48E	639248	662544	8	7	16	13	923	2
136	4	2	32	ON	2	59	12	34	47E	623368	646848	8	7	18	11	937	2
				OFF	2	54	5	35	57E	615792	638288	8	7	19	27	943	2
136	4	3	32	ON	2	51	7	36	29E	612448	634736	8	7	28	18	946	2
				OFF	2	46	8	37	18E	688648	638784	8	7	21	23	958	2
137	4	6	25	ON	3	3	36	16	59E	714888	748112	8	9	3	34	1811	3
				OFF	3	8	24	17	7E	737768	764768	8	9	4	45	1813	3
137	4	8	38	ON	3	26	25	17	43E	842888	873888	8	9	9	12	1828	3
				OFF	3	34	38	18	18E	896416	929488	8	9	11	15	1823	3
138	2	4	63	ON	2	38	29	6	45W	613216	635536	8	18	25	15	958	3
				OFF	2	28	19	6	17W	638328	653288	8	18	27	44	18	2
143	3	8	16	ON	2	35	15	128	6W	689824	632816	8	17	54	7	953	6
				OFF	2	32	27	119	55W	612272	634568	8	17	54	48	955	6

OPERATIONS SUMMARY

AFT PAN CAMERA NUMBER 196

OPN NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S
71	4	5	6	ON	2	41	27	68	49E	616544	638992	4
				OFF	2	48	38	68	54E	615296	637696	4
72	8	8	4	ON	1	31	8	119	48W	1873376	1113312	4
				OFF	1	32	26	119	44W	1866656	1186328	4
72	7	1	28	ON	2	88	51	28	31E	748328	775728	4
				OFF	2	77	23	38	2E	731184	757872	4
72	7	2	65	ON	2	78	38	38	6E	781568	727288	4
				OFF	2	59	43	43	18E	661288	685312	4
72	7	7	28	ON	2	32	58	46	58E	686888	628968	4
				OFF	2	29	53	47	1E	685536	627568	4
73	9	2	15	ON	2	56	19	21	22E	649888	673584	4
				OFF	2	53	53	21	51E	642848	666272	4
73	9	6	62	ON	2	5	46	25	12E	636248	659424	4
				OFF	3	3	58	25	27E	669392	693824	4
74	1	6	24	ON	2	24	49	1	56E	685984	628816	4
				OFF	2	28	54	2	6E	688568	638784	4
77	2	6	28	ON	3	18	18	64	45W	748672	767792	4
				OFF	3	23	29	64	32W	771312	799688	4
79	3	8	9	ON	2	41	35	112	24W	614224	636576	4
				OFF	2	42	4	112	15W	612224	634496	4
81	8	8	4	ON	2	62	9	162	49W	655568	679472	4
				OFF	2	52	37	162	23W	658928	674656	4
83	3	1	57	ON	2	73	21	146	32E	788928	726544	4
				OFF	2	63	56	152	35E	666176	698488	4
84	6	6	47	ON	3	18	25	136	27E	786976	732832	5
				OFF	3	18	58	136	43E	752168	779712	5
85	7	2	11	ON	2	73	28	181	7E	699312	724864	5
				OFF	2	71	26	183	1E	691328	716576	5
85	7	4	19	ON	2	58	28	118	38E	627984	658768	5

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	OFF	2	47	27	111	3E	621872	644512	5	2	46	54	1818	18
86 3 2	ON	2	64	29	84	25E	665632	689928	5	4	12	53	958	15
	OFF	2	59	15	86	11E	649584	673184	5	4	14	18	958	15
86 3 4	ON	2	53	59	87	23E	635488	658648	5	4	15	28	18	4 15
	OFF	2	28	37	89	58E	686128	628176	5	4	21	48	1821	15
87 4 2	ON	2	76	28	51	53E	789552	735488	5	5	48	8	9	7 28
	OFF	2	65	29	61	28E	668288	692592	5	5	42	47	947	28
87 4 5	ON	2	52	32	65	8E	631552	654568	5	5	45	58	18	5 28
	OFF	2	58	11	65	22E	626496	649312	5	5	46	33	18	7 28
87 4 8	ON	2	32	37	67	5E	686112	628168	5	5	58	58	1819	21
	OFF	2	29	31	67	16E	686888	628128	5	5	51	35	1828	21
88 4 2	ON	2	59	28	48	58E	648816	672464	5	7	14	25	957	26
	OFF	2	55	29	41	48E	638144	661392	5	7	15	24	18	2 26
89 9 6	ON	2	5	48	22	49E	646888	669632	5	8	57	43	1828	32
	OFF	3	1	9	22	59E	678256	694728	5	8	59	24	1831	32
98 8 1	ON	2	88	38	26	18W	724528	751848	5	18	9	18	823	36
	OFF	2	75	59	15	17W	784112	729856	5	18	18	34	9	9 36
98 8 8	ON	2	8	19	8	6E	638728	662888	5	18	27	13	1827	37
	OFF	2	4	37	8	12E	658848	673744	5	18	28	8	1828	37
92 618	ON	3	19	39	44	24W	764832	792848	5	13	34	24	1836	48
	OFF	3	23	35	44	15W	767472	816368	5	13	35	23	1838	48
98 1 1	ON	2	71	22	168	43E	677984	762736	5	22	12	47	927	79
	OFF	2	61	51	173	42E	648864	671696	5	22	15	9	949	88
108 1 4	ON	2	44	38	131	46E	612384	634672	6	1	19	39	18	6 4
	OFF	2	41	58	132	1E	689768	631936	6	1	28	16	18	8 4
108 1 6	ON	3	2	56	133	59E	685728	718768	6	1	31	16	1827	5
	OFF	3	7	8	134	6E	784816	738576	6	1	32	18	1828	5
108 1 7	ON	3	18	16	134	11E	728288	746648	6	1	33	5	1829	5
	OFF	3	22	13	134	34E	787232	816128	6	1	36	3	1834	5
101 3 2	ON	2	73	21	98	59E	682288	767128	6	2	42	38	918	9
	OFF	2	57	4	183	35E	651152	685264	6	2	44	13	938	9
101 3 4	ON	2	64	56	184	37E	654784	678576	6	2	44	45	943	9
	OFF	2	52	42	186	2E	624672	647488	6	2	47	46	959	18
101 3 6	ON	2	54	12	168	24E	626288	642784	6	2	48	22	18	1 18
	OFF	2	38	13	189	44E	687856	629136	6	2	51	18	1818	18
101 3 7	ON	2	35	4	189	54E	686288	628352	6	2	51	58	1811	18
	OFF	2	39	4	118	16E	686912	628992	6	2	53	18	1814	18
102 3 1	ON	2	74	7	75	32E	683968	728944	6	4	12	33	914	15
	OFF	2	67	42	88	38E	662328	686488	6	4	14	18	936	15
102 3 2	ON	2	64	12	82	17E	651776	675536	6	4	15	2	943	15
	OFF	2	51	32	85	34E	622864	644784	6	4	18	9	18	8 15
102 3 6	ON	2	43	3	86	39E	618328	632528	6	4	28	14	18	6 15
	OFF	2	39	36	95	58E	687632	629744	6	4	21	4	18	8 15
102 3 8	ON	2	33	58	87	25E	626888	628848	6	4	22	29	1811	15
	OFF	2	25	12	87	43E	628832	638168	6	4	23	52	1814	15
103 3 4	ON	2	50	15	61	34E	635568	658728	6	5	46	37	952	28
	OFF	2	54	25	62	25E	627184	658816	6	5	47	33	957	28
103 3 7	ON	2	47	14	63	32E	614944	637328	6	5	49	19	18	3 28
	OFF	2	35	48	64	39E	686896	628144	6	5	52	9	1818	21
104 4 6	ON	2	10	32	42	51E	628896	643584	6	7	26	26	1817	26
	OFF	2	12	2	43	4E	635696	658848	6	7	28	1	1828	26

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184	4	8	38	ON	2	5	29	43	14E	655688	679688	6	7	29	38	1822	28	
				OFF	3	8	58	43	24E	688288	786128	6	7	31	13	1824	27	
185	2	4	23	ON	2	23	18	28	3E	613632	635968	6	8	55	22	1815	32	
				OFF	2	19	34	28	11E	619424	641984	6	8	56	17	1816	31	
186	4	5	29	ON	2	13	37	2	14W	632624	655664	6	18	27	58	1818	37	
				OFF	2	8	52	2	6W	645888	669448	6	18	29	8	1822	37	
189	2	9	41	ON	3	36	13	68	24W	887296	928816	6	15	18	29	1836	54	
				OFF	3	45	12	67	36W	949184	984288	6	15	12	45	1842	54	
111	3	8	17	ON	2	34	59	116	27W	686328	628368	6	17	53	5	18	7	64
				OFF	2	32	13	116	18W	687184	629184	6	17	53	45	18	8	64
115	3	2	46	ON	2	66	14	147	11E	648192	671824	6	23	45	43	934	85	
				OFF	2	53	52	149	58E	638448	653488	6	23	47	32	946	85	
116	2	1	17	ON	2	53	8	128	28E	619344	641888	7	1	19	2	952	4	
				OFF	2	58	26	128	55E	615392	637792	7	1	19	42	955	4	
116	2	2	13	ON	2	43	55	129	44E	688784	638848	7	1	21	17	18	8	4
				OFF	2	41	58	129	57E	687456	629568	7	1	21	47	18	1	4
116	2	4	61	ON	3	15	57	132	15E	765344	793392	7	1	35	59	1824	5	
				OFF	3	28	9	132	43E	848464	871392	7	1	39	2	1829	5	
117	4	2	14	ON	2	73	5	97	8E	666848	691184	7	2	44	8	912	5	
				OFF	2	78	59	99	9E	659824	683984	7	2	44	43	921	5	
117	4	5	162	ON	2	35	33	187	51E	686496	628568	7	2	53	23	18	4	1
				OFF	2	18	6	188	56E	648528	672176	7	2	59	37	1815	1	
118	4	5	35	ON	2	53	48	83	6E	619632	642192	7	4	19	8	951	1	
				OFF	2	48	23	83	57E	612352	634648	7	4	28	19	955	1	
118	4	7	67	ON	2	32	35	85	24E	627648	629768	7	4	24	11	18	5	1
				OFF	2	19	6	86	2E	625488	648176	7	4	27	29	1811	1	
119	8	2	32	ON	2	75	42	48	45E	673584	698176	7	5	43	36	858	2	
				OFF	2	78	35	54	5E	657424	681488	7	5	44	55	921	2	
119	8	6	45	ON	2	49	19	61	12E	613128	635424	7	5	58	18	954	2	
				OFF	2	42	14	62	2E	687296	629392	7	5	51	54	959	2	
119	8	8	37	ON	2	32	18	62	48E	687936	638848	7	5	54	19	18	5	2
				OFF	2	26	38	63	7E	613312	635632	7	5	55	44	18	7	2
128	4	1	58	ON	2	71	6	31	4E	658176	682176	7	7	14	58	918	28	
				OFF	2	61	54	35	49E	634384	657488	7	7	17	7	948	28	
128	4	2	33	ON	2	55	35	35	31E	629376	652288	7	7	17	41	943	28	
				OFF	2	54	25	37	44E	619672	642432	7	7	18	57	949	28	
128	4	3	56	ON	2	51	27	38	16E	615456	637856	7	7	19	42	952	28	
				OFF	2	42	47	39	21E	687456	629552	7	7	21	49	959	28	
128	4	7	59	ON	2	7	36	41	8E	658488	682496	7	7	38	25	1814	27	
				OFF	3	2	23	41	23E	698624	724144	7	7	32	53	1818	27	
124	1	7	29	ON	3	16	4	48	43W	773856	882248	7	13	36	38	1821	48	
				OFF	3	21	48	48	31W	848328	838816	7	13	37	56	1823	48	
125	7	3	27	ON	3	7	2	71	36W	725696	752256	7	15	4	18	1817	54	
				OFF	3	12	52	71	32W	745488	772784	7	15	5	14	1819	54	
127	3	8	17	ON	2	35	9	115	27W	687968	638896	7	17	54	2	18	8	64
				OFF	2	32	24	116	5W	689712	631888	7	17	54	42	18	1	64
131	3	1	9	ON	2	73	10	142	24E	655696	679688	7	23	44	48	9	6	85
				OFF	2	71	41	141	46E	651688	675368	7	23	45	11	912	85	
131	3	2	34	ON	2	69	55	143	7E	646912	678496	7	23	45	38	917	85	
				OFF	2	64	27	146	3E	634832	657128	7	23	47	8	931	85	
131	3	5	17	ON	2	61	32	147	7E	628896	658976	7	23	47	43	935	85	

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132	7	3	37	ON	2	58	48	147	55E	623128	645888	7	23	48	24	939	85
				OFF	2	71	44	118	6E	651848	674784	8	1	15	12	911	4
				ON	2	65	56	122	47E	636784	659984	8	1	16	39	927	4
133	8	3	78	ON	2	68	54	182	5E	625984	648784	8	2	47	55	936	18
				OFF	2	58	9	184	25E	611296	633536	8	2	58	34	948	18
133	8	6	117	ON	2	27	36	186	23E	616784	639152	8	2	56	4	18	1
				OFF	2	8	46	187	3E	663728	687936	8	3	8	41	18	8
134	4	4	31	ON	2	53	33	81	14E	614624	636992	8	4	19	45	944	15
				OFF	2	48	4	82	6E	689536	631712	8	4	21	6	949	15
134	4	7	38	ON	2	38	23	83	38E	613344	638664	8	4	25	25	959	15
				OFF	2	23	24	83	57E	624888	646888	8	4	27	7	18	2
135	4	2	17	ON	2	74	48	48	15E	657888	688976	8	5	44	32	857	24
				OFF	2	72	18	58	53E	658112	673824	8	5	45	18	9	8
135	4	4	73	ON	2	64	14	55	41E	631584	654512	8	5	47	9	929	28
				OFF	2	54	5	58	31E	614968	637344	8	5	49	39	943	28
135	4	7	18	ON	2	46	54	59	38E	628784	638848	8	5	51	24	949	21
				OFF	2	44	34	59	55E	627712	629824	8	5	51	58	951	21
136	4	1	24	ON	2	71	4	29	12E	646628	678176	8	7	15	27	912	26
				OFF	2	67	18	31	43E	637232	668448	8	7	16	26	923	26
136	4	2	33	ON	2	59	13	34	44E	621872	644512	8	7	18	24	937	26
				OFF	2	54	5	35	55E	614688	637856	8	7	19	48	943	26
136	4	3	32	ON	2	51	7	36	26E	611584	633848	8	7	28	23	945	26
				OFF	2	46	7	37	7E	628168	638288	8	7	21	36	949	26
137	4	6	25	ON	3	3	27	16	55E	718328	744592	8	9	3	47	1811	32
				OFF	3	8	13	17	2E	742416	769688	8	9	4	58	1812	32
137	4	6	34	ON	3	26	4	17	38E	848488	879712	8	9	9	25	1819	32
				OFF	3	34	12	18	4E	982336	935632	8	9	11	28	1823	33
138	2	4	64	ON	2	32	28	6	48E	614256	636688	8	18	25	28	958	37
				OFF	2	24	28	6	21E	632368	655488	8	18	27	57	18	2
143	3	6	16	ON	2	35	14	128	8E	618528	632736	8	17	54	28	953	64
				OFF	2	32	27	119	59E	613248	635568	8	17	55	1	954	64

PHOTOGRAPHIC SUMMARY

OP. NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI
71	4	5	13.2 ON	293	47.4 -32.5	12.84	12.42	11.82	11.22
			OFF	293	48.1 -33.8	12.85	12.42	11.82	11.22
72	1	2	13.6 ON	168	-49.1 326.2	11.25	8.8	8.8	8.8
			OFF	168	-47.9 327.1	11.25	8.8	8.8	8.8
72	7	1	52.9 ON	238	11.8 -27.8	11.75	11.58	18.98	18.38
			OFF	245	14.6 -21.2	11.79	11.79	11.19	18.59
72	7	2	59.4 ON	257	21.1 -22.7	11.86	12.18	11.58	18.98
			OFF	274	31.3 -25.2	11.95	12.31	11.71	11.11
72	7	7	58.3 ON	296	54.3 -38.8	12.86	12.42	11.82	11.22
			OFF	295	55.7 -41.8	12.86	12.42	11.82	11.22
73	9	2	57.2 ON	279	34.3 -26.3	11.98	12.34	11.74	11.14
			OFF	282	36.5 -27.1	11.99	12.36	11.76	11.16
73	9	6	56.1 ON	283	68.3 -85.4	12.88	12.42	11.82	11.22
			OFF	278	67.2 -89.4	11.93	12.42	11.82	11.22
74	1	6	63.5 ON	296	68.2 -48.8	12.86	12.42	11.82	11.22

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			OFF	294	62.7	-53.6	12.85	12.42	11.82	11.22
77	2	8	28	74.1 ON	246	59.8-133.4	11.79	12.42	11.82	11.22
			OFF	236	55.1-139.2	11.74	12.42	11.82	11.22	
79	3	8	9	23.8 ON	293	47.1 -33.6	12.85	12.42	11.82	11.22
			OFF	294	48.3 -34.6	12.85	12.42	11.82	11.22	
81	8	4	4	18.6 ON	168	38.8 -26.1	11.25	12.31	11.71	11.11
			OFF	168	32.2 -26.6	11.25	12.32	11.72	11.12	
83	3	1	56	148.1 ON	256	18.6 -23.4	11.85	12.88	11.48	18.88
			OFF	271	27.3 -25.4	11.94	12.25	11.65	11.85	
84	6	6	47	124.3 ON	257	63.1-121.3	11.86	12.42	11.82	11.22
			OFF	242	57.8-133.5	11.77	12.42	11.82	11.22	
85	7	2	11	29.1 ON	257	18.5 -23.6	11.86	12.88	11.48	18.68
			OFF	268	28.4 -24.8	11.88	12.88	11.48	18.88	
85	7	4	16	47.6 ON	288	39.4 -38.8	12.82	12.38	11.78	11.18
			OFF	298	42.8 -31.4	12.83	12.48	11.88	11.28	
86	3	2	32	84.6 ON	271	26.8 -25.7	11.93	12.25	11.65	11.85
			OFF	278	31.6 -27.1	11.97	12.31	11.71	11.11	
86	3	4	163	431.1 ON	264	36.2 -28.8	12.88	12.36	11.76	11.16
			OFF	295	56.9 -45.5	12.86	12.42	11.82	11.22	
87	4	2	64	169.3 ON	252	15.6 -23.1	11.83	11.85	11.25	18.65
			OFF	278	25.9 -25.5	11.93	12.23	11.63	11.23	
87	4	5	14	37.8 ON	266	37.5 -29.5	12.81	12.37	11.77	11.17
			OFF	298	39.6 -38.4	12.82	12.38	11.78	11.18	
87	4	8	18	58.3 ON	296	53.9 -41.6	12.86	12.42	11.82	11.22
			OFF	295	56.2 -44.7	12.86	12.42	11.82	11.22	
88	4	2	24	63.5 ON	278	31.3 -27.2	11.97	12.31	11.71	11.11
			OFF	283	34.9 -28.5	12.88	12.35	11.75	11.15	
89	9	8	41	128.4 ON	278	66.7 -86.8	11.97	12.42	11.82	11.22
			OFF	269	66.1-182.6	11.92	12.42	11.82	11.22	
92	8	1	28	74.1 ON	245	11.4 -22.8	11.79	11.54	18.94	18.34
			OFF	254	16.1 -23.6	11.84	11.88	11.28	18.68	
92	8	8	22	58.2 ON	281	66.3 -84.7	11.99	12.42	11.82	11.22
			OFF	276	66.6 -89.3	11.96	12.42	11.82	11.22	
92	8	12	21	52.9 ON	236	56.7-133.3	11.74	12.42	11.82	11.22
			OFF	238	53.8-137.4	11.78	12.42	11.82	11.22	
98	1	1	57	188.3 ON	255	24.5 -25.5	11.98	12.88	11.48	18.88
			OFF	278	29.1 -27.8	11.97	12.28	11.68	11.88	
102	1	4	18	39.7 ON	294	44.1 -35.8	12.85	12.41	11.81	11.21
			OFF	295	46.1 -36.5	12.85	12.42	11.82	11.22	
102	1	8	21	63.5 ON	252	64.5-186.2	11.89	12.42	11.82	11.22
			OFF	255	63.1-114.3	11.85	12.42	11.82	11.22	
102	1	7	68	186.8 ON	258	61.6-119.7	11.82	12.42	11.82	11.22
			OFF	229	54.2-135.1	11.69	12.42	11.82	11.22	
101	3	2	30	182.5 ON	265	18.6 -25.4	11.98	12.88	11.48	18.88
			OFF	275	24.4 -26.8	11.95	12.19	11.59	18.99	
101	3	4	70	281.1 ON	277	26.3 -27.3	11.97	12.24	11.64	11.84
			OFF	291	37.1 -31.2	12.84	12.37	11.77	11.17	
101	3	6	77	283.7 ON	293	39.3 -32.3	12.85	12.38	11.78	11.18
			OFF	298	49.1 -39.2	12.87	12.42	11.82	11.22	
101	3	7	30	188.3 ON	298	52.7 -48.9	12.87	12.42	11.82	11.22
			OFF	297	55.1 -46.4	12.87	12.42	11.82	11.22	

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102 3 1	39	103.2 ON	264	17.9 -25.3	11.98	11.97	11.37	10.77
		OFF	274	23.8 -26.8	11.95	12.18	11.58	10.98
102 3 2	79	209.8 ON	279	27.8 -27.6	11.98	12.25	11.65	11.85
		OFF	292	30.1 -31.8	12.84	12.37	11.77	11.17
102 3 6	22	58.2 ON	297	45.2 -36.1	12.87	12.41	11.81	11.21
		OFF	298	47.9 -38.3	12.87	12.42	11.82	11.22
102 3 8	36	95.2 ON	298	52.3 -42.9	12.87	12.42	11.82	11.22
		OFF	296	56.3 -48.6	12.86	12.42	11.82	11.22
103 3 4	24	63.5 ON	286	32.3 -29.5	12.81	12.32	11.72	11.12
		OFF	298	35.6 -38.8	12.83	12.35	11.75	11.15
103 3 7	74	195.7 ON	295	41.7 -33.9	12.86	12.40	11.80	11.20
		OFF	298	50.9 -41.5	12.87	12.42	11.82	11.22
104 4 6	48	105.8 ON	298	61.7 -62.3	12.83	12.42	11.82	11.22
		OFF	284	64.2 -74.3	12.88	12.42	11.82	11.22
104 4 8	30	108.5 ON	275	65.2 -88.1	11.96	12.42	11.82	11.22
		OFF	266	64.6 -102.8	11.91	12.42	11.82	11.22
105 2 4	23	60.3 ON	294	59.1 -55.2	12.85	12.42	11.82	11.22
		OFF	291	61.1 -68.8	12.84	12.42	11.82	11.22
106 4 5	29	76.7 ON	285	63.5 -71.4	12.81	12.42	11.82	11.22
		OFF	268	64.7 -81.8	11.98	12.42	11.82	11.22
109 2 9	41	108.4 ON	289	42.6 -144.5	11.56	12.48	11.88	11.28
		OFF	198	35.8 -148.6	11.48	12.35	11.75	11.15
111 3 0	17	45.8 ON	298	51.1 -43.3	12.87	12.42	11.82	11.22
		OFF	297	53.2 -45.8	12.87	12.42	11.82	11.22
115 5 2	40	121.7 ON	288	25.1 -25.6	11.98	12.21	11.61	11.81
		OFF	268	31.6 -32.8	12.82	12.31	11.71	11.11
116 2 1	17	45.8 ON	293	36.5 -33.8	12.85	12.36	11.76	11.16
		OFF	295	38.7 -34.2	12.86	12.38	11.78	11.18
116 2 2	13	34.4 ON	298	44.6 -37.6	12.87	12.41	11.81	11.21
		OFF	292	45.7 -39.9	12.87	12.41	11.81	11.21
116 2 4	62	104.8 ON	235	57.2 -126.4	11.73	12.42	11.82	11.22
		OFF	218	49.6 -138.5	11.62	12.42	11.82	11.22
117 4 2	10	34.4 ON	271	18.9 -27.2	11.93	12.01	11.41	10.81
		OFF	274	20.9 -27.8	11.95	12.18	11.58	10.98
117 4 5	102	428.5 ON	298	50.4 -43.7	12.87	12.42	11.82	11.22
		OFF	278	63.4 -79.5	11.97	12.42	11.82	11.22
118 4 5	34	39.9 ON	293	35.9 -33.8	12.85	12.36	11.76	11.16
		OFF	296	40.4 -35.4	12.86	12.39	11.79	11.19
118 4 7	80	227.5 ON	297	52.4 -46.5	12.87	12.42	11.82	11.22
		OFF	268	63.3 -63.4	12.82	12.42	11.82	11.22
119 6 2	31	62.8 ON	269	16.4 -25.8	11.92	11.90	11.30	10.70
		OFF	276	21.2 -28.8	11.96	12.18	11.58	10.98
119 6 6	40	119.8 ON	297	39.6 -35.1	12.87	12.38	11.78	11.18
		OFF	299	45.3 -39.8	12.88	12.41	11.81	11.21
119 6 8	67	97.9 ON	298	52.6 -46.9	12.87	12.42	11.82	11.22
		OFF	295	53.3 -53.2	12.86	12.42	11.82	11.22
120 4 1	57	100.5 ON	276	20.7 -28.8	11.96	12.09	11.49	10.89
		OFF	288	28.9 -32.4	12.82	12.28	11.68	11.08
120 4 2	30	57.3 ON	298	30.9 -31.1	12.83	12.31	11.71	11.11
		OFF	294	35.3 -33.8	12.85	12.35	11.75	11.15
120 4 3	50	100.1 ON	296	37.8 -34.2	12.86	12.37	11.77	11.17

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123 4 7	58	153.4	OFF	299	44.8	-38.8	12.88	12.41	11.81	11.21
			ON	274	63.4	-84.7	11.95	12.42	11.82	11.22
			OFF	258	62.6	-184.6	11.87	12.42	11.82	11.22
124 1 7	29	76.7	ON	233	56.2	-125.7	11.72	12.42	11.82	11.22
			OFF	225	52.5	-132.1	11.67	12.42	11.82	11.22
125 7 8	28	52.9	ON	248	68.6	-112.7	11.81	12.42	11.82	11.22
			OFF	241	58.9	-118.6	11.77	12.42	11.82	11.22
127 3 8	17	45.8	ON	298	54.2	-45.5	12.87	12.42	11.82	11.22
			OFF	297	52.1	-48.8	12.87	12.42	11.82	11.22
131 3 1	9	23.8	ON	276	18.8	-28.8	11.96	12.81	11.41	18.81
			OFF	279	28.1	-29.1	11.97	12.87	11.47	18.87
131 3 2	34	89.9	ON	281	21.7	-29.6	11.99	12.12	11.52	18.92
			OFF	287	26.5	-31.8	12.82	12.24	11.64	11.84
131 3 5	17	45.8	ON	298	29.1	-31.8	12.83	12.28	11.68	11.88
			OFF	293	31.4	-32.7	12.85	12.31	11.71	11.11
132 7 3	35	95.2	ON	279	24.1	-29.2	11.98	12.87	11.47	18.87
			OFF	286	25.2	-38.7	12.81	12.21	11.61	11.81
133 8 3	69	182.5	ON	269	29.6	-32.3	12.83	12.29	11.69	11.89
			OFF	296	38.5	-36.5	12.86	12.38	11.78	11.18
133 8 6	117	349.5	ON	292	54.8	-54.8	12.84	12.42	11.82	11.22
			OFF	278	62.6	-83.3	11.93	12.42	11.82	11.22
134 4 4	35	92.6	ON	295	35.7	-35.1	12.86	12.36	11.76	11.16
			OFF	297	42.2	-37.7	12.87	12.39	11.79	11.19
134 4 7	44	116.4	ON	293	53.8	-51.1	12.85	12.42	11.82	11.22
			OFF	288	57.6	-59.4	12.82	12.42	11.82	11.22
135 4 2	18	39.7	ON	274	17.4	-28.9	11.95	11.95	11.35	18.75
			OFF	277	19.7	-29.5	11.97	12.85	11.45	18.85
135 4 4	68	171.9	ON	287	26.7	-31.5	12.82	12.24	11.64	11.84
			OFF	295	35.3	-35.8	12.86	12.35	11.75	11.15
135 4 7	18	39.7	ON	297	41.1	-38.5	12.87	12.39	11.79	11.19
			OFF	297	42.9	-39.8	12.87	12.48	11.88	11.28
136 4 1	24	63.5	ON	279	24.7	-29.8	11.98	12.89	11.49	18.89
			OFF	284	24.1	-38.8	12.88	12.19	11.59	18.99
136 4 2	32	84.6	ON	291	31.8	-33.2	12.84	12.31	11.71	11.11
			OFF	295	35.3	-35.1	12.86	12.35	11.75	11.15
136 4 5	32	84.6	ON	296	37.7	-36.5	12.86	12.37	11.77	11.17
			OFF	297	41.7	-39.8	12.87	12.48	11.88	11.28
137 4 6	28	68.1	ON	248	62.5	-196.1	11.81	12.42	11.82	11.22
			OFF	242	58.9	-113.9	11.76	12.42	11.82	11.22
137 4 8	32	128.5	ON	214	48.5	-134.5	11.59	12.42	11.82	11.22
			OFF	223	42.4	-148.2	11.52	12.48	11.88	11.28
138 2 4	88	186.8	ON	253	52.7	-51.6	12.85	12.42	11.82	11.22
			OFF	264	58.2	-64.2	12.88	12.42	11.82	11.22
138 3 8	18	42.3	ON	255	49.4	-47.8	12.86	12.42	11.82	11.22
			OFF	293	51.2	-58.3	12.85	12.42	11.82	11.22

PHOTOGRAPHIC SUMMARY

AFT PAN CAMERA NO	126	E.1752	SLIT W/21	FILTER	3484	FILM	
OPN NO	FRM	FEET	ET	S-EL	S-DIR	EV	FULL INT PRI
71	4	5		15.8	362	47.4 -32.7	12.43 12.75 12.15 11.55

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72 8 8	4	18.6 ON	358	18.1 -23.2	12.45	12.75	12.15	11.55
		OFF	218	-48.6 325.5	11.62	8.8	8.8	8.8
72 7 1	28	52.9 ON	318	18.8 -23.7	12.13	11.81	11.21	10.61
		OFF	319	14.4 -23.2	12.17	12.10	11.50	10.90
72 7 2	65	171.9 ON	335	21.8 -23.5	12.24	12.43	11.83	11.23
		OFF	358	31.2 -25.5	12.33	12.64	12.04	11.44
72 7 7	28	52.9 ON	385	54.3 -39.8	12.44	12.75	12.15	11.55
		OFF	385	56.7 -41.9	12.44	12.75	12.15	11.55
73 9 2	15	39.7 ON	364	34.3 -26.6	12.36	12.67	12.07	11.47
		OFF	368	36.5 -27.4	12.38	12.69	12.09	11.49
73 9 6	62	158.7 ON	369	68.3 -85.3	12.38	12.75	12.15	11.55
		OFF	353	67.8 -109.2	12.31	12.75	12.15	11.55
74 1 6	24	63.5 ON	385	68.2 -48.1	12.44	12.75	12.15	11.55
		OFF	384	62.6 -53.7	12.44	12.75	12.15	11.55
77 2 8	28	74.1 ON	328	59.1 -133.2	12.17	12.75	12.15	11.55
		OFF	327	55.2 -138.8	12.12	12.75	12.15	11.55
79 3 8	8	23.8 ON	383	47.1 -33.8	12.43	12.75	12.15	11.55
		OFF	384	49.3 -34.8	12.44	12.75	12.15	11.55
81 8 8	4	18.5 ON	218	38.7 -26.5	11.62	12.63	12.03	11.43
		OFF	218	32.1 -26.9	11.62	12.65	12.05	11.45
83 8 1	57	152.3 ON	334	18.4 -24.5	12.24	12.33	11.73	11.13
		OFF	354	27.3 -25.9	12.32	12.58	11.98	11.38
84 8 6	47	124.3 ON	335	63.1 -121.8	12.24	12.75	12.15	11.55
		OFF	315	57.9 -133.2	12.15	12.75	12.15	11.55
85 7 2	11	29.1 ON	335	13.3 -24.7	12.24	12.32	11.72	11.12
		OFF	348	29.3 -24.9	12.26	12.40	11.80	11.20
85 7 4	19	56.3 ON	376	39.3 -38.2	12.41	12.71	12.11	11.51
		OFF	379	41.9 -31.6	12.42	12.73	12.13	11.53
86 8 2	32	84.6 ON	356	25.7 -26.1	12.33	12.57	11.97	11.37
		OFF	356	31.5 -27.4	12.37	12.64	12.04	11.44
86 8 4	188	439.1 ON	374	36.2 -29.8	12.40	12.69	12.09	11.49
		OFF	357	56.9 -45.6	12.45	12.75	12.15	11.55
87 4 2	67	177.2 ON	338	15.4 -24.8	12.22	12.17	11.57	10.97
		OFF	355	25.8 -26.8	12.32	12.56	11.96	11.36
87 4 5	18	39.7 ON	376	37.5 -29.7	12.41	12.70	12.10	11.50
		OFF	379	39.5 -38.6	12.42	12.71	12.11	11.51
87 4 8	21	52.9 ON	387	53.9 -41.9	12.45	12.75	12.15	11.55
		OFF	357	56.2 -44.8	12.45	12.75	12.15	11.55
88 4 2	22	88.1 ON	386	31.3 -27.6	12.37	12.64	12.04	11.44
		OFF	372	34.8 -28.7	12.39	12.68	12.08	11.48
89 9 8	41	180.4 ON	365	66.6 -86.7	12.37	12.75	12.15	11.55
		OFF	353	66.1 -102.4	12.32	12.75	12.15	11.55
90 8 1	28	74.1 ON	321	11.2 -25.5	12.18	11.85	11.25	10.65
		OFF	333	15.9 -25.1	12.23	12.20	11.60	11.00
90 8 8	22	58.2 ON	389	65.3 -88.7	12.39	12.75	12.15	11.55
		OFF	363	66.6 -89.2	12.36	12.75	12.15	11.55
92 0 8	21	52.9 ON	312	56.8 -133.8	12.13	12.75	12.15	11.55
		OFF	381	54.8 -137.8	12.09	12.75	12.15	11.55
98 1 1	50	153.4 ON	347	23.4 -26.3	12.29	12.48	11.88	11.28
		OFF	356	29.1 -28.1	12.37	12.61	12.01	11.41

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100 1 4	10	421.0 ON	330	44.9 -33.2	12.45	12.74	12.14	11.54
		OFF	336	46.1 -36.7	12.45	12.75	12.15	11.54
100 1 6	24	63.5 ON	344	64.5 -185.9	12.28	12.75	12.15	11.55
		OFF	335	63.1 -113.9	12.24	12.75	12.15	11.55
100 1 7	64	169.3 ON	328	61.6 -119.3	12.21	12.75	12.15	11.55
		OFF	331	54.3 -134.7	12.88	12.75	12.15	11.55
101 3 2	36	188.5 ON	343	18.5 -26.5	12.27	12.33	11.73	11.10
		OFF	355	24.3 -27.3	12.33	12.52	11.92	11.32
101 3 4	78	286.3 ON	359	26.3 -27.8	12.34	12.56	11.96	11.36
		OFF	377	37.1 -31.4	12.41	12.78	12.18	11.58
101 3 6	78	286.3 ON	379	39.2 -32.5	12.42	12.71	12.11	11.51
		OFF	384	49.2 -39.3	12.44	12.75	12.15	11.55
101 3 7	39	133.2 ON	384	58.7 -41.8	12.44	12.75	12.15	11.55
		OFF	384	55.1 -46.5	12.44	12.75	12.15	11.55
102 3 1	39	143.2 ON	342	17.8 -26.5	12.27	12.38	11.78	11.18
		OFF	355	23.7 -27.3	12.32	12.51	11.91	11.31
102 3 2	81	211.6 ON	361	26.9 -28.1	12.35	12.58	11.98	11.38
		OFF	378	38.1 -32.8	12.42	12.78	12.18	11.58
102 3 6	22	58.2 ON	384	45.2 -36.3	12.44	12.74	12.14	11.54
		OFF	384	47.9 -38.5	12.44	12.75	12.15	11.55
102 3 8	36	95.2 ON	384	52.3 -43.8	12.44	12.75	12.15	11.55
		OFF	383	56.3 -48.7	12.43	12.75	12.15	11.55
103 3 4	24	63.5 ON	378	32.2 -29.8	12.38	12.65	12.85	11.45
		OFF	375	35.5 -31.8	12.42	12.68	12.88	11.48
103 3 7	70	193.4 ON	382	41.7 -34.1	12.43	12.73	12.13	11.53
		OFF	384	53.9 -41.6	12.44	12.75	12.15	11.55
104 4 6	41	145.4 ON	376	61.7 -62.4	12.41	12.75	12.15	11.55
		OFF	367	64.1 -74.3	12.37	12.75	12.15	11.55
104 4 8	30	148.5 ON	356	65.1 -88.8	12.33	12.75	12.15	11.55
		OFF	344	64.6 -181.8	12.28	12.75	12.15	11.55
105 2 4	23	68.6 ON	381	59.1 -55.3	12.42	12.75	12.15	11.55
		OFF	377	61.1 -68.9	12.41	12.75	12.15	11.55
106 4 5	29	76.7 ON	369	63.4 -71.4	12.38	12.75	12.15	11.55
		OFF	362	64.6 -88.9	12.35	12.75	12.15	11.55
109 2 9	41	168.4 ON	278	42.9 -144.1	11.93	12.73	12.13	11.53
		OFF	255	35.4 -146.2	11.85	12.68	12.88	11.48
111 3 8	17	45.2 ON	364	51.1 -43.4	12.44	12.75	12.15	11.55
		OFF	384	53.8 -45.9	12.44	12.75	12.15	11.55
115 3 2	45	121.7 ON	363	25.6 -29.1	12.35	12.54	11.94	11.34
		OFF	374	31.5 -31.8	12.48	12.64	12.84	11.44
116 2 1	17	45.2 ON	358	36.4 -33.2	12.42	12.69	12.89	11.49
		OFF	383	35.7 -34.4	12.43	12.71	12.11	11.51
116 2 2	10	64.4 ON	384	44.2 -37.8	12.44	12.74	12.14	11.54
		OFF	384	45.7 -39.8	12.44	12.74	12.14	11.54
116 2 4	61	101.3 ON	384	57.2 -126.8	12.18	12.75	12.15	11.55
		OFF	282	48.8 -138.1	11.99	12.75	12.15	11.55
117 4 2	14	37.7 ON	351	18.6 -28.2	12.31	12.34	11.74	11.14
		OFF	355	28.9 -28.5	12.32	12.42	11.82	11.22
117 4 5	162	426.5 ON	384	58.4 -43.8	12.44	12.75	12.15	11.55
		OFF	358	63.3 -79.4	12.34	12.75	12.15	11.55
118 4 5	35	92.5 ON	384	35.0 -33.2	12.42	12.69	12.89	11.49

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118 4 7	87	238.1	ON	384	48.3	-35.6	12.44	12.72	12.12	11.52
			OFF	384	52.4	-46.6	12.44	12.75	12.15	11.55
			OFF	373	68.3	-63.5	12.48	12.75	12.15	11.55
119 8 2	32	84.6	ON	346	16.3	-28.3	12.29	12.22	11.62	11.82
			OFF	357	21.1	-28.8	12.33	12.43	11.83	11.23
119 8 6	46	121.7	ON	384	39.6	-35.3	12.44	12.71	12.11	11.51
			OFF	384	45.2	-39.2	12.44	12.74	12.14	11.54
119 8 8	37	97.9	ON	384	52.6	-47.1	12.44	12.75	12.15	11.55
			OFF	381	56.3	-53.3	12.42	12.75	12.15	11.55
120 4 1	58	153.4	ON	356	28.6	-28.8	12.33	12.41	11.81	11.21
			OFF	371	28.8	-38.8	12.39	12.61	12.81	11.41
120 4 2	33	67.3	ON	374	38.8	-31.8	12.48	12.64	12.84	11.44
			OFF	388	35.3	-33.2	12.42	12.68	12.88	11.48
120 4 3	56	148.1	ON	382	37.8	-34.4	12.43	12.78	12.18	11.58
			OFF	384	44.8	-39.8	12.44	12.74	12.14	11.54
120 4 7	59	156.1	ON	354	63.3	-84.6	12.32	12.75	12.15	11.55
			OFF	333	62.5	-184.3	12.23	12.75	12.15	11.55
124 1 7	25	76.7	ON	388	56.2	-125.3	12.88	12.75	12.15	11.55
			OFF	289	52.6	-131.6	12.83	12.75	12.15	11.55
125 7 8	24	52.9	ON	328	68.6	-112.3	12.17	12.75	12.15	11.55
			OFF	311	58.9	-118.2	12.13	12.75	12.15	11.55
127 3 8	17	45.4	ON	384	52.2	-45.7	12.44	12.75	12.15	11.55
			OFF	384	52.1	-48.1	12.44	12.75	12.15	11.55
131 3 1	5	23.8	ON	357	18.7	-29.8	12.33	12.34	11.74	11.14
			OFF	359	28.1	-39.8	12.34	12.39	11.79	11.19
131 3 2	34	39.9	ON	362	21.7	-32.3	12.35	12.45	11.85	11.25
			OFF	371	26.5	-31.4	12.39	12.57	11.97	11.37
131 3 5	17	45.2	ON	375	29.8	-32.2	12.48	12.61	12.81	11.41
			OFF	378	31.4	-33.8	12.41	12.64	12.84	11.44
132 7 3	37	97.9	ON	362	22.8	-32.1	12.34	12.39	11.79	11.19
			OFF	369	25.2	-31.2	12.38	12.54	11.94	11.34
133 2 3	71	165.1	ON	377	29.6	-32.6	12.41	12.62	12.82	11.42
			OFF	385	38.5	-36.7	12.44	12.71	12.11	11.51
133 2 6	117	329.5	ON	352	54.8	-54.1	12.42	12.75	12.15	11.55
			OFF	352	61.9	-83.2	12.31	12.75	12.15	11.55
134 4 4	31	82.2	ON	385	25.7	-35.3	12.44	12.69	12.89	11.49
			OFF	366	42.2	-37.9	12.44	12.72	12.12	11.52
134 4 7	32	132.5	ON	383	53.4	-51.2	12.43	12.75	12.15	11.55
			OFF	375	57.1	-59.5	12.42	12.75	12.15	11.55
135 4 2	17	45.1	ON	357	17.4	-36.1	12.33	12.28	11.68	11.88
			OFF	362	19.7	-36.4	12.35	12.38	11.78	11.18
135 4 4	72	193.1	ON	374	26.7	-31.9	12.42	12.57	11.97	11.37
			OFF	364	35.3	-35.3	12.44	12.68	12.88	11.48
135 4 7	26	42.3	ON	386	41.1	-38.7	12.44	12.72	12.12	11.52
			OFF	386	42.9	-44.8	12.44	12.73	12.13	11.53
136 4 1	24	53.5	ON	364	22.6	-38.6	12.36	12.41	11.81	11.21
			OFF	37P	24.1	-31.4	12.38	12.52	11.92	11.32
136 4 2	32	57.3	ON	362	31.4	-33.5	12.42	12.64	12.84	11.44
			OFF	365	35.2	-35.4	12.44	12.68	12.88	11.48
136 4 3	32	34.6	ON	385	37.7	-36.7	12.44	12.78	12.18	11.58
			OFF	366	41.7	-39.2	12.44	12.73	12.13	11.53

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137 4 6	25	66.1	ON	323	68.5-185.8	12.19	12.75	12.15	11.55
			OFF	312	58.9-113.8	12.14	12.75	12.15	11.55
137 4 8	38	188.5	ON	278	48.7-134.1	11.97	12.75	12.15	11.55
			OFF	264	42.7-139.8	11.98	12.73	12.13	11.53
138 2 4	64	169.3	ON	382	52.7 -51.7	12.43	12.75	12.15	11.55
			OFF	378	58.1 -64.3	12.38	12.75	12.15	11.55
143 3 8	16	42.3	ON	385	49.3 -47.9	12.44	12.75	12.15	11.55
			OFF	383	51.2 -58.4	12.43	12.75	12.15	11.55

STELLAR-INDEX SUMMARY

CAMERA DATA ET FILM FILTER GRID ASSEMBLY NO 0 92

STELLAR 2.8 4481 NONE 79

INDEX 1/588 4488 W/21 118

PERFORMANCE SUMMARY

OPN	NO	FR	STEL	INDX	ON	ON	OFF	OFF	SEC
			FEET	FEET	H	M	S	Q LAT LONG Q LAT LONG	DUR
71	4	5	1	8.18	8.24	5	45	44 2 41 68E 2 48 68E	25
72	7	1	3	8.38	8.59	7	6	1 2 88 21E 2 77 38E	71
72	7	2	14	8.99	1.98	7	8	43 2 78 38E 2 59 43E	176
72	7	7	3	8.38	8.59	7	17	59 2 32 46E 2 29 47E	58
73	9	2	3	8.38	8.59	8	42	28 2 56 21E 2 53 21E	49
73	9	6	9	8.89	1.78	8	54	49 2 5 25E 3 4 25E	157
74	1	6	4	8.48	8.79	18	22	21 2 24 2E 2 28 2E	78
77	2	8	5	8.49	8.99	15	1	27 3 18 64W 3 23 64W	92
79	3	2	5	8.28	8.42	17	47	9 2 41 112W 2 48 112W	35
83	3	1	9	8.89	1.78	23	39	57 2 73 146E 2 63 152E	155
84	6	6	7	8.69	1.39	1	38	42 3 18 136E 3 19 136E	148
85	7	2	2	8.28	8.48	2	48	15 2 73 181E 2 71 183E	44
85	7	4	3	8.38	8.59	2	45	57 2 58 118E 2 47 111E	57
86	3	2	5	8.49	8.99	4	12	46 2 64 84E 2 59 86E	98
86	3	4	24	2.38	4.75	4	15	15 2 53 87E 2 28 98E	385
87	4	2	18	8.99	1.98	5	39	47 2 76 52E 2 65 61E	188
87	4	5	3	8.38	8.59	5	45	45 2 52 65E 2 58 65E	48
87	4	8	3	8.38	8.59	5	56	37 2 32 67E 2 29 67E	58
88	4	2	4	8.48	8.79	7	14	12 2 59 48E 2 55 41E	72
89	9	6	7	8.69	1.39	8	57	38 2 5 22E 3 1 23E	114
92	8	1	5	8.49	8.99	18	9	5 2 88 25W 2 75 15W	89
98	8	8	4	8.48	8.79	18	27	8 2 8 8E 2 4 8E	68
92	8	13	3	8.38	8.59	13	34	11 3 19 44W 3 23 44W	72
92	1	1	9	8.89	1.78	22	12	34 2 71 168E 2 61 173E	155
1.2	1	4	4	8.38	8.59	1	19	26 2 44 131E 2 41 132E	58
1.2	1	6	4	8.48	8.79	1	31	3 3 3 134E 3 7 134E	75
1.2	1	7	12	8.99	1.98	1	32	52 3 18 134E 3 22 134E	191
1.1	3	2	6	8.59	1.19	2	42	25 2 73 99E 2 67 183E	188
1.1	3	4	12	1.19	2.38	2	44	32 2 64 184E 2 52 188E	194
1.1	3	6	12	1.19	2.38	2	48	9 2 58 188E 2 38 189E	189
1.1	3	7	3	8.59	1.19	2	51	37 2 36 189E 2 38 118E	181
1.2	3	1	6	8.59	1.19	4	12	28 2 74 75E 2 67 88E	118
1.2	3	2	12	1.19	2.38	4	14	49 2 64 82E 2 51 85E	288
1.2	3	6	4	8.48	8.79	4	28	1 2 43 86E 2 39 87E	63

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182	3	8	6	8.59	1.19	4	22	16	2	33	87E	2	28	87E	96
183	3	4	4	8.48	8.79	5	46	24	2	58	61E	2	54	62E	69
183	3	7	11	1.89	2.18	5	49	6	2	47	63E	2	35	64E	183
184	4	6	6	2.59	1.19	7	26	13	2	18	42E	2	12	43E	188
184	4	8	6	8.59	1.19	7	29	25	2	5	43E	3	1	43E	188
185	2	4	4	8.48	8.79	8	55	9	2	23	28E	2	19	28E	68
186	4	5	5	8.49	8.99	18	27	37	2	13	2W	2	8	2W	83
189	2	9	6	8.59	1.19	15	18	16	3	36	68W	3	45	67W	149
111	3	8	3	8.38	8.59	17	52	52	2	35	116W	2	32	116W	53
115	3	2	7	8.69	1.39	23	45	38	2	66	147E	2	58	149E	122
116	2	1	3	8.38	8.59	1	18	49	2	53	128E	2	58	128E	53
116	2	2	3	8.38	8.59	1	21	4	2	43	129E	2	41	138E	43
116	2	4	9	8.89	1.78	1	35	46	3	16	132E	3	28	132E	196
117	4	2	3	8.38	8.59	2	43	55	2	73	97E	2	78	99E	48
117	4	5	24	2.38	4.75	2	53	18	2	35	187E	2	18	189E	387
118	4	5	6	8.59	1.19	4	18	47	2	53	83E	2	48	84E	92
118	4	7	13	1.29	2.57	4	23	58	2	32	85E	2	19	86E	211
119	6	2	5	8.49	8.99	5	43	23	2	75	48E	2	78	54E	92
119	6	6	7	8.69	1.39	5	49	57	2	49	61E	2	42	62E	117
119	8	8	6	8.59	1.19	5	54	6	2	32	62E	2	26	63E	98
122	4	1	9	8.89	1.78	7	14	37	2	71	31E	2	61	35E	158
122	4	2	6	8.59	1.19	7	17	28	2	59	36E	2	54	37E	89
128	4	3	9	2.89	1.78	7	19	29	2	51	38E	2	42	39E	148
128	4	7	9	8.89	1.78	7	36	12	2	7	41E	3	2	41E	161
124	1	7	5	8.49	8.99	13	36	17	3	16	48W	3	22	48W	99
125	7	8	4	8.48	8.79	15	4	5	3	7	71W	3	11	71W	69
127	3	8	3	8.38	8.59	17	53	49	2	35	118W	2	32	118W	53
131	3	1	2	8.28	8.48	23	44	35	2	73	148E	2	71	141E	36
131	3	2	6	8.59	1.19	23	45	25	2	69	143E	2	64	146E	95
131	3	5	3	8.38	8.59	23	47	38	2	61	147E	2	58	147E	54
132	7	3	6	8.59	1.19	1	14	59	2	71	119E	2	65	122E	188
133	6	3	11	1.89	2.18	2	47	42	2	68	182E	2	58	184E	172
133	6	6	17	1.68	3.37	2	55	51	2	27	186E	2	8	187E	298
134	4	4	6	8.59	1.19	4	19	32	2	53	81E	2	48	82E	94
134	4	7	7	8.69	1.39	4	25	12	2	38	83E	2	23	84E	115
135	4	2	3	8.38	8.59	5	44	19	2	74	48E	2	72	51E	51
135	4	4	18	8.99	1.98	5	46	56	2	64	55E	2	54	58E	163
135	4	7	3	8.38	8.59	5	51	11	2	46	59E	2	44	59E	47
136	4	1	4	8.48	8.79	7	15	14	2	71	29E	2	67	31E	72
136	4	2	5	8.49	8.99	7	18	11	2	59	34E	2	54	35E	89
136	4	3	5	8.49	8.99	7	24	18	2	51	36E	2	46	37E	85
137	4	6	4	8.48	8.79	9	3	34	3	3	16E	3	8	17E	84
137	4	6	6	8.59	1.19	9	9	12	3	26	17E	3	34	18E	136
138	2	4	12	1.98	1.98	18	25	15	2	38	6W	2	28	6W	162
143	3	8	3	8.38	8.59	17	54	7	2	35	128W	2	32	119W	54

NOTE - MISSION 1842 IS BEING FLOWN WITH THE AGENA MOVING NOSE-FIRST THROUGH ORBIT INSTEAD OF THE USUAL TAIL-FIRST FLIGHT. AS A RESULT OF THIS CHANGE IN AGENA ORIENTATION THE FOLLOWING VARIATIONS IN ORGAL SYSTEM PARAMETERS SHOULD BE NOTED -

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- (1) AT THE DESCENDING NODE THE STELLAR CAMERA NOW LOOKS WESTWARD INSTEAD OF EASTWARD.
- (2) THE MASTER PAN CAMERA, INSTRUMENT 196, IS THE AFT LOOKING CAMERA AND THE SLAVE PAN CAMERA, INSTRUMENT 197, IS THE FORWARD LOOKING CAMERA.

NOTE - THE LAST FIVE FRAMES OF THE FORWARD PAN CAMERA AND THE LAST FRAMES OF THE AFT PAN CAMERA FOR OPERATION 71-4-5 ARE CONTAINED IN THE B MISSION RECOVERY CAPSULE. THE REMAINING FRAMES OF OPERATION WERE IN THE A MISSION RECOVERY CAPSULE.

NOTE - OPERATION 72-8-8 WAS THE CUT AND WRAP OPERATION OCCURRING AT THE A TO B TRANSFER.

NOTE - OPERATION 81-2-8 WAS THE LENS STOWING OPERATION OCCURRING AT THE TIME OF THE A MISSION RECOVERY.

NOTE - TLM DATA OBSERVED ON OPERATION 143-3-8 INDICATE THAT THE MASTER PAN CAMERA, INSTRUMENT 196, WAS OUT OF FILM PRIOR TO THE OPERATION WHILE THE SLAVE PAN CAMERA, INSTRUMENT 197, RAN OUT OF FILM AT 13 CYCLES OF THIS OPERATION.

NOTE - TLM DATA INDICATE NORMAL CAMERA SYSTEM PERFORMANCE DURING THE ENTIRE MISSION.

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A. 1848-2

B. ORY

C. PERFORMANCE ESTIMATE - PART TWO

RATE ESTIMATE

FWD PAN CAMERA NUMBER 197

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG-VEL	SCAN RATE R/SEC	I/SEC	PGT RATE CALIB	REQD
71 4 5	5	6	5	ON 1737	8.4372	8.83689	2.747	65.92	-1.7	-1.6
				OFF 12	8.4379	8.83695	2.752	66.84	-1.7	-1.6
72 4 2	4	6	5	ON 8	8.1789	8.81442	1.874	25.78	-1.7	-42.4
				OFF 23	8.1789	8.81442	1.874	25.78	-1.7	-43.4
72 7 1	28	6	5	ON 1145	8.3568	8.83884	2.237	53.68	-1.7	-1.2
				OFF 58	8.3665	8.83892	2.382	55.26	-1.7	-8.8
72 7 2	64	6	5	ON 1386	8.3845	8.83244	2.416	57.98	-1.7	-8.4
				OFF 163	8.4898	8.83458	2.575	61.88	-1.7	-8.4
72 7 7	19	6	5	ON 1862	8.4424	8.83733	2.788	66.71	-1.7	-2.2
				OFF 45	8.4427	8.83736	2.782	66.76	-1.7	-2.4
73 9 2	14	6	5	ON 1523	8.4168	8.83517	2.619	62.85	-1.7	-8.6
				OFF 36	8.4212	8.83554	2.647	63.52	-1.7	-8.7
73 9 6	59	6	5	ON 2264	8.4229	8.83569	2.657	63.78	-1.7	-2.1
				OFF 144	8.4842	8.83418	2.539	68.95	-1.7	-1.4
74 1 6	24	6	5	ON 1991	8.4428	8.83738	2.777	66.66	-1.7	-2.6
				OFF 57	8.4488	8.83713	2.765	66.36	-1.7	-2.6
77 2 8	28	6	5	ON 2631	8.3673	8.83899	2.388	55.39	-1.7	-8.3
				OFF 79	8.3529	8.82978	2.217	53.21	-1.7	-8.8
79 3 6	9	6	5	ON 1759	8.4385	8.83788	2.755	66.12	-1.7	-1.7
				OFF 22	8.4397	8.83718	2.762	66.38	-1.7	-1.8
81 8 8	4	6	5	ON 8	8.1638	8.81382	1.829	24.78	-1.7	-153.6
				OFF 24	8.1638	8.81382	1.829	24.78	-1.7	-155.5
83 3 1	56	6	5	ON 1299	8.3833	8.83234	2.488	57.88	-1.7	-8.9
				OFF 142	8.4858	8.83424	2.558	61.19	-1.7	-8.6
84 6 6	47	6	5	ON 2533	8.3845	8.83244	2.416	57.98	-1.7	-8.7
				OFF 127	8.3621	8.83856	2.275	54.61	-1.7	-8.1
85 7 2	11	6	5	ON 1364	8.3842	8.83248	2.413	57.91	-1.7	-8.9
				OFF 31	8.3893	8.83285	2.446	58.78	-1.7	-8.8
85 7 4	18	6	5	ON 1646	8.4322	8.83638	2.783	64.87	-1.7	-1.2
				OFF 44	8.4348	8.83662	2.727	65.44	-1.7	-1.4
86 3 2	32	6	5	ON 1444	8.4251	8.83418	2.545	61.88	-1.9	-8.9
				OFF 77	8.4156	8.83587	2.611	62.67	-1.9	-1.8
86 3 4	163	6	5	ON 1599	8.4245	8.83582	2.667	64.81	-1.9	-1.2
				OFF 372	8.4414	8.83725	2.774	66.56	-1.9	-2.7
87 4 2	84	6	5	ON 1264	8.3763	8.83175	2.365	56.75	-1.9	-1.4
				OFF 167	8.4233	8.83483	2.534	68.82	-1.9	-8.9
87 4 5	15	6	5	ON 1622	8.4269	8.83682	2.682	64.38	-1.9	-1.3
				OFF 35	8.4382	8.83638	2.783	64.87	-1.9	-1.4
87 4 6	19	6	5	ON 1914	8.4417	8.83727	2.775	66.68	-1.9	-2.6
				OFF 45	8.4416	8.83726	2.775	66.59	-1.9	-2.6
88 4 2	24	6	5	ON 1522	8.4157	8.83587	2.612	62.68	-1.9	-1.1
				OFF 59	8.4226	8.83566	2.656	63.73	-1.9	-1.2

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89	9	6	41	6	5	ON	2319	8.4154	8.83585	2.618	62.64	-1.9	-2.3
						OFF	181	8.4815	8.83387	2.522	68.54	-1.9	-1.9
98	8	1	28	6	5	ON	1287	8.3663	8.83891	2.382	55.24	-1.9	-1.8
						OFF	76	8.3796	8.83283	2.385	57.25	-1.9	-1.3
98	8	8	22	6	5	ON	2282	8.4199	8.83543	2.638	63.32	-1.9	-2.4
						OFF	55	8.4131	8.83486	2.596	62.38	-1.9	-2.3
92	618	28	6	5	ON	2783	8.3536	8.82983	2.222	53.32	-1.9	-8.8	
						OFF	59	8.3438	8.82981	2.168	51.84	-1.9	-8.4
98	1	1	57	6	5	ON	1379	8.3954	8.83337	2.485	59.63	-1.9	-1.3
						OFF	142	8.4157	8.83587	2.612	62.68	-1.9	-1.2
108	1	4	15	6	5	ON	1785	8.4387	8.83782	2.757	66.16	-1.9	-2.8
						OFF	37	8.4482	8.83715	2.766	66.39	-1.9	-2.1
108	1	6	24	6	5	ON	2482	8.3919	8.83387	2.463	59.18	-1.9	-1.9
						OFF	62	8.3816	8.83228	2.398	57.55	-1.9	-1.7
108	1	7	63	6	5	ON	2598	8.3737	8.83153	2.348	56.35	-1.9	-1.5
						OFF	178	8.3428	8.82893	2.154	51.78	-1.9	-8.7
101	3	2	38	6	5	ON	1363	8.3959	8.83341	2.488	59.78	-1.2	-8.5
						OFF	95	8.4184	8.83463	2.578	61.88	-1.2	-8.3
101	3	4	76	6	5	ON	1498	8.4147	8.83499	2.686	62.53	-1.2	-8.3
						OFF	181	8.4347	8.83668	2.731	65.55	-1.2	-8.7
101	3	6	77	6	5	ON	1787	8.4375	8.83692	2.749	65.98	-1.2	-8.8
						OFF	176	8.4451	8.83755	2.796	67.11	-1.2	-1.6
101	3	7	32	6	5	ON	1915	8.4451	8.83756	2.797	67.12	-1.2	-1.7
						OFF	68	8.4441	8.83747	2.798	66.97	-1.2	-1.9
102	3	1	30	6	5	ON	1357	8.3949	8.83332	2.481	59.55	-1.2	-8.5
						OFF	97	8.4698	8.83458	2.575	61.79	-1.2	-8.3
102	3	2	79	6	5	ON	1586	8.4168	8.83517	2.619	62.86	-1.2	-8.3
						OFF	187	8.4365	8.83683	2.743	65.82	-1.2	-8.7
102	3	6	22	6	5	ON	1818	8.4435	8.83742	2.787	66.88	-1.2	-1.3
						OFF	58	8.4449	8.83754	2.795	67.89	-1.2	-1.5
102	3	8	36	6	5	ON	1952	8.4451	8.83755	2.796	67.12	-1.2	-1.8
						OFF	83	8.4438	8.83738	2.783	66.88	-1.2	-2.6
103	3	4	24	6	5	ON	1594	8.4273	8.83685	2.685	64.43	-1.2	-8.5
						OFF	56	8.4329	8.83653	2.728	65.28	-1.2	-8.7
103	3	7	74	6	5	ON	1756	8.4437	8.83718	2.769	66.45	-1.2	-1.1
						OFF	178	8.4451	8.83756	2.797	67.12	-1.2	-1.8
104	4	0	48	6	5	ON	2181	8.4336	8.83659	2.725	65.39	-1.2	-2.1
						OFF	95	8.4232	8.83576	2.663	63.91	-1.2	-2.8
104	4	6	38	6	5	ON	2372	8.4115	8.83472	2.586	62.86	-1.2	-1.7
						OFF	95	8.3972	8.83351	2.495	59.89	-1.2	-1.4
105	2	4	23	6	5	ON	2112	8.4389	8.83783	2.758	66.18	-1.2	-2.1
						OFF	55	8.4347	8.83668	2.731	65.55	-1.2	-2.1
106	4	5	29	6	5	ON	2256	8.4262	8.83596	2.678	64.27	-1.2	-1.9
						OFF	72	8.4178	8.83525	2.625	63.88	-1.2	-1.8
109	2	9	41	6	5	ON	3812	8.3128	8.82648	1.966	47.17	-1.2	3.1
						OFF	136	8.2962	8.82499	1.861	44.67	-1.2	4.9
111	3	0	17	6	5	ON	1959	8.4451	8.83755	2.796	67.11	-1.2	-1.8
						OFF	46	8.4442	8.83748	2.791	66.98	-1.2	-1.9
115	3	2	46	6	5	ON	1514	8.4184	8.83538	2.629	63.89	-1.1	-8.5
						OFF	189	8.4389	8.83636	2.787	64.98	-1.1	-8.6
106	2	1	17	6	5	ON	1712	8.4384	8.83699	2.754	66.11	-1.1	-8.8

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						OFF	48	8.4418	8.83721	2.771	66.58	-1.1	-8.9
116	2	2	13	6	5	ON	1847	8.4449	8.83754	2.796	67.18	-1.1	-1.3
						OFF	38	8.4456	8.83768	2.888	67.19	-1.1	-1.4
116	2	4	62	6	5	ON	2729	8.3528	8.82978	2.212	53.88	-1.1	-1.8
						OFF	183	8.3264	8.82754	2.851	49.21	-1.1	1.5
117	4	2	13	6	5	ON	1418	8.4858	8.83417	2.545	61.87	-1.1	-8.7
						OFF	35	8.4181	8.83461	2.577	61.85	-1.1	-8.6
117	4	5	162	6	5	ON	1973	8.4454	8.83758	2.798	67.16	-1.1	-1.7
						OFF	374	8.4154	8.83585	2.618	62.65	-1.1	-1.9
118	4	5	34	6	5	ON	1718	8.4383	8.83698	2.754	66.89	-1.1	-8.6
						OFF	79	8.4429	8.83737	2.783	66.79	-1.1	-1.8
118	4	7	86	6	5	ON	2821	8.4441	8.83747	2.798	66.96	-1.1	-1.8
						OFF	198	8.4385	8.83632	2.785	64.92	-1.1	-2.1
119	8	2	31	6	5	ON	1386	8.4814	8.83387	2.522	68.53	-8.7	-8.5
						OFF	79	8.4132	8.83487	2.596	62.31	-8.7	-8.2
119	8	6	45	6	5	ON	1788	8.4439	8.83746	2.789	66.94	-8.7	-8.7
						OFF	184	8.4471	8.83773	2.889	67.42	-8.7	-1.1
119	8	8	37	6	5	ON	2829	8.4453	8.83757	2.798	67.14	-8.7	-1.5
						OFF	85	8.4487	8.83719	2.769	66.46	-8.7	-1.7
120	4	1	57	6	5	ON	1461	8.4126	8.83482	2.593	62.22	-8.7	-8.3
						OFF	137	8.4293	8.83627	2.781	64.81	-8.7	-8.2
120	4	2	33	6	5	ON	1632	8.4332	8.83655	2.722	65.32	-8.7	-8.2
						OFF	76	8.4397	8.83718	2.763	66.38	-8.7	-8.4
120	4	3	56	6	5	ON	1752	8.4425	8.83734	2.788	66.73	-8.7	-8.6
						OFF	127	8.4471	8.83772	2.889	67.42	-8.7	-1.8
120	4	7	58	6	5	ON	2396	8.4198	8.83468	2.576	61.83	-8.7	-1.6
						OFF	148	8.3564	8.83268	2.428	58.26	-8.7	-1.4
124	1	7	29	6	5	ON	2761	8.3482	8.82938	2.188	52.51	-8.7	-8.9
						OFF	86	8.3363	8.82838	2.113	58.71	-8.7	8.3
125	7	8	24	6	5	ON	2638	8.3713	8.83133	2.333	55.99	-8.7	-1.3
						OFF	55	8.3618	8.83846	2.268	54.43	-8.7	-1.3
127	3	8	17	6	5	ON	2814	8.4458	8.83762	2.881	67.22	-8.7	-1.3
						OFF	48	8.4442	8.83748	2.791	66.98	-8.7	-1.5
131	3	1	9	6	5	ON	1465	8.4132	8.83487	2.596	62.31	-8.7	-8.5
						OFF	23	8.4164	8.83514	2.616	62.79	-8.7	-8.4
131	3	2	34	6	5	ON	1515	8.4198	8.83543	2.638	63.31	-8.7	-8.4
						OFF	82	8.4296	8.83625	2.699	64.78	-8.7	-8.3
131	3	5	17	6	5	ON	1639	8.4339	8.83661	2.726	65.42	-8.7	-8.3
						OFF	41	8.4375	8.83691	2.749	65.97	-8.7	-8.3
132	7	3	35	6	5	ON	1491	8.4168	8.83517	2.619	62.85	-8.7	-8.4
						OFF	87	8.4276	8.83688	2.687	64.48	-8.7	-8.3
133	8	3	69	6	5	ON	1855	8.4325	8.83658	2.718	65.22	-1.4	-1.8
						OFF	159	8.4426	8.83735	2.781	66.74	-1.4	-1.3
133	8	6	117	6	5	ON	2144	8.4359	8.83678	2.739	65.73	-1.4	-2.2
						OFF	277	8.4437	8.83487	2.537	68.88	-1.4	-2.3
134	4	4	35	6	5	ON	1768	8.4485	8.83717	2.768	66.43	-1.4	-1.2
						OFF	81	8.4437	8.83744	2.788	66.98	-1.4	-1.4
134	4	7	44	6	5	ON	2128	8.4384	8.83699	2.755	66.11	-1.4	-2.2
						OFF	132	8.4381	8.83629	2.782	64.86	-1.4	-2.4
135	4	2	15	6	5	ON	1456	8.4494	8.83454	2.572	61.73	-1.4	-1.2
						OFF	38	8.4147	8.83499	2.686	62.54	-1.4	-1.1

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135	4	4	65	6	5	ON	1614	8.4286	8.83617	2.693	64.63	-1.4	-8.9
						OFF	158	8.4484	8.83716	2.767	66.48	-1.4	-1.1
135	4	7	15	6	5	ON	1869	8.4441	8.83747	2.798	66.97	-1.4	-1.5
						OFF	34	8.4443	8.83749	2.792	67.88	-1.4	-1.6
136	4	1	24	6	5	ON	1514	8.4172	8.83528	2.621	62.91	-1.4	-1.1
						OFF	59	8.4243	8.83588	2.666	63.99	-1.4	-1.8
136	4	2	32	6	5	ON	1691	8.4355	8.83675	2.737	65.68	-1.4	-1.8
						OFF	76	8.4485	8.83717	2.768	66.43	-1.4	-1.2
136	4	3	32	6	5	ON	1818	8.4425	8.83733	2.788	66.72	-1.4	-1.3
						OFF	73	8.4443	8.83749	2.792	67.88	-1.4	-1.5
137	4	6	25	6	5	ON	2617	8.3713	8.83133	2.333	55.99	-1.4	-2.4
						OFF	71	8.3585	8.83825	2.252	54.86	-1.4	-2.4
137	4	8	38	6	5	ON	2954	8.3198	8.82699	2.818	48.23	-1.4	8.5
						OFF	123	8.3842	8.82567	1.911	45.87	-1.4	2.2
138	2	4	63	6	5	ON	2128	8.4376	8.83692	2.749	65.98	-1.4	-2.2
						OFF	149	8.4239	8.83576	2.663	63.92	-1.4	-2.5
143	3	8	16	6	5	ON	2869	8.4487	8.83718	2.769	66.45	-1.4	-2.1
						OFF	41	8.4382	8.83698	2.753	66.88	-1.4	-2.2

RATE ESTIMATE

AFT-PAW CAMERA NUMBER 196

PT - PAN - CAME - A - NUMBER - 190				TUR/	INST	INST	SCAN	RATE	PCT	RATE
JPW NO	FR	R	A	DUR	CPS	ANG-VEL	R/SEC	I/SEC	CALIB	REQD
71 4 5	5	6	5 ON	1758	8.4441	8.83748	2.791	66.98	-1.2	-8.2
			OFF	12	8.4449	8.83754	2.795	67.89	-1.2	-8.3
72 8 8	4	6	5 ON	13	8.1718	8.81449	1.879	25.98	-1.2	-42.3
			OFF	23	8.1718	8.81449	1.879	25.98	-1.2	-43.3
72 7 1	28	6	5 ON	1158	8.3623	8.83848	2.264	54.34	-1.2	-8.6
			OFF	58	2.3711	8.83131	2.332	55.96	-1.2	-8.1
72 7 2	65	6	5 ON	1319	8.3896	8.83288	2.448	58.76	-1.2	8.4
			OFF	163	8.4158	8.83588	2.612	62.69	-1.2	8.5
72 7 7	29	6	5 ON	1875	8.4471	8.83773	2.889	67.42	-1.2	-1.2
			OFF	45	8.4472	8.83773	2.818	67.43	-1.2	-1.4
73 9 2	15	6	5 ON	1536	8.4239	8.83569	2.658	63.79	-1.2	8.4
			OFF	36	8.4275	8.83688	2.686	64.47	-1.2	8.4
73 9 6	67	6	5 ON	2277	8.4293	8.83623	2.698	64.74	-1.2	-8.2
			OFF	144	8.4299	8.83459	2.576	61.81	-1.2	8.6
74 1 8	24	6	5 ON	2824	8.4471	8.83772	2.889	67.41	-1.2	-1.4
			OFF	57	8.4467	8.83769	2.887	67.37	-1.2	-1.8
77 2 5	25	6	5 ON	2644	8.3728	8.83139	2.337	56.89	-1.2	1.6
			OFF	79	8.3572	8.83814	2.244	53.86	-1.2	1.9
79 5 8	9	6	5 ON	1772	8.4455	8.83759	2.799	67.18	-1.2	-8.3
			OFF	22	8.4467	8.83769	2.887	67.36	-1.2	-8.4
81 8 8	4	6	5 ON	13	8.1646	8.81389	1.834	24.82	-1.2	-153.5
			OFF	24	8.1646	8.81389	1.834	24.82	-1.2	-155.4
83 3 1	57	6	5 ON	1312	8.3894	8.83277	2.448	58.56	-1.2	-8.1
			OFF	142	8.4116	8.83473	2.586	62.87	-1.2	8.3
84 6 6	47	6	5 ON	2546	8.3896	8.83288	2.448	58.75	-1.2	1.3
			OFF	127	8.3667	8.83294	2.384	55.29	-1.2	1.9
85 7 2	11	6	5 ON	1317	8.3892	8.83284	2.445	58.68	-1.2	-8.1

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					OFF	31	8.3946	8.83329	2.479	59.58	-1.2	8.1
85	7	4	19	6	5 ON	1659	8.4369	8.83686	2.745	65.88	-1.2	8.8
					OFF	44	8.4488	8.83719	2.778	66.47	-1.2	-8.1
86	3	2	32	6	5 ON	1457	8.4138	8.83492	2.688	62.41	-8.8	8.8
					OFF	77	8.4248	8.83584	2.669	64.86	-8.8	8.8
86	3	4	166	6	5 ON	1612	8.4381	8.83663	2.728	65.46	-8.8	8.7
					OFF	372	8.4493	8.83791	2.823	67.75	-8.8	-8.8
87	4	2	67	6	5 ON	1277	8.3848	8.83248	2.413	57.98	-8.8	8.1
					OFF	167	8.4128	8.83476	2.589	62.13	-8.8	8.8
87	4	5	15	6	5 ON	1635	8.4366	8.83684	2.744	65.84	-8.8	8.6
					OFF	35	8.4488	8.83713	2.765	66.36	-8.8	8.5
87	4	8	28	6	5 ON	1927	8.4493	8.83791	2.823	67.76	-8.8	-8.8
					OFF	45	8.4493	8.83791	2.823	67.75	-8.8	-8.8
88	4	2	25	6	5 ON	1535	8.4249	8.83585	2.678	64.87	-8.8	8.7
					OFF	59	8.4322	8.83647	2.715	65.17	-8.8	8.7
89	9	6	41	6	5 ON	2332	8.4246	8.83583	2.668	64.83	-8.8	8.3
					OFF	131	8.4181	8.83468	2.577	61.84	-8.8	8.8
98	3	1	28	6	5 ON	1228	8.3736	8.83153	2.348	56.34	-8.8	-8.4
					OFF	76	8.3874	8.83269	2.434	58.42	-8.8	8.2
98	8	8	22	6	5 ON	2295	8.4293	8.83623	2.698	64.74	-8.8	8.2
					OFF	55	8.4222	8.83563	2.653	63.67	-8.8	8.4
92	6	18	25	6	5 ON	2716	8.3685	8.83842	2.265	54.36	-8.8	1.9
					OFF	59	8.3583	8.82956	2.281	52.83	-8.8	2.2
98	1	1	58	6	5 ON	1392	8.4838	8.83487	2.537	68.89	-8.8	8.3
					OFF	142	8.4249	8.83585	2.678	64.87	-8.8	8.6
100	1	4	16	6	5 ON	1798	8.4488	8.83787	2.828	67.68	-8.8	8.1
					OFF	37	8.4491	8.83789	2.822	67.72	-8.8	-8.3
100	1	6	24	6	5 ON	2495	8.4882	8.83377	2.514	68.35	-8.8	8.8
					OFF	62	8.3895	8.83286	2.447	58.73	-8.8	1.8
100	1	7	64	6	5 ON	2643	8.3813	8.83217	2.395	57.49	-8.8	1.2
					OFF	178	8.3494	8.82948	2.195	52.68	-8.8	1.9
101	3	2	38	6	5 ON	1376	8.3982	8.83368	2.582	68.84	-1.5	-8.4
					OFF	95	8.4129	8.83484	2.595	62.27	-1.5	-8.1
101	3	4	78	6	5 ON	1533	8.4174	8.83522	2.623	62.94	-1.5	-8.1
					OFF	151	8.4388	8.83695	2.752	66.84	-1.5	-8.2
101	3	6	78	6	5 ON	1728	8.4429	8.83728	2.778	66.48	-1.5	-8.3
					OFF	176	8.4462	8.83763	2.882	67.25	-1.5	-1.4
101	3	7	39	6	5 ON	1928	8.4462	8.83763	2.882	67.25	-1.5	-1.6
					OFF	83	8.4458	8.83762	2.881	67.22	-1.5	-1.5
102	3	1	59	6	5 ON	1374	8.3971	8.83358	2.495	59.88	-1.5	-8.4
					OFF	97	8.4123	8.83479	2.591	62.18	-1.5	-8.1
102	3	2	81	6	5 ON	1519	8.4196	8.83548	2.636	63.27	-1.5	-8.8
					OFF	187	8.4398	8.83711	2.764	66.32	-1.5	-8.3
102	3	6	22	6	5 ON	1831	8.4457	8.83761	2.888	67.21	-1.5	-8.9
					OFF	54	8.4459	8.83763	2.882	67.24	-1.5	-1.3
102	3	8	36	6	5 ON	1965	8.4462	8.83763	2.882	67.25	-1.5	-1.6
					OFF	83	8.4456	8.83768	2.888	67.28	-1.5	-1.3
103	3	4	24	6	5 ON	1627	8.4323	8.83631	2.784	64.89	-1.5	-8.2
					OFF	56	8.4361	8.83688	2.748	65.76	-1.5	-8.3
103	3	7	78	6	5 ON	1769	8.4441	8.83747	2.792	66.97	-1.5	-8.5
					OFF	172	8.4467	8.83763	2.882	67.25	-1.5	-1.6

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184	4	6	41	6	5	ON	2194	8.4369	8.83686	2.745	65.88	-1.5	-1.1
						OFF	95	8.4268	8.83681	2.681	64.36	-1.5	-8.9
184	4	8	38	6	5	ON	2385	8.4142	8.83495	2.682	62.45	-1.5	-8.6
						OFF	95	8.3994	8.83378	2.518	68.23	-1.5	-8.3
185	2	4	23	6	5	ON	2125	8.4423	8.83732	2.779	66.69	-1.5	-1.1
						OFF	55	8.4388	8.83696	2.752	66.85	-1.5	-1.8
186	4	5	29	6	5	ON	2269	8.4292	8.83621	2.697	64.72	-1.5	-8.8
						OFF	78	8.4286	8.83549	2.643	63.42	-1.5	-8.6
189	2	9	41	6	5	ON	3825	8.3137	8.82647	1.971	47.38	-1.5	4.8
						OFF	136	8.2969	8.82585	1.866	44.78	-1.5	5.8
111	3	8	17	6	5	ON	1972	8.4459	8.83763	2.882	67.25	-1.5	-1.6
						OFF	48	8.4458	8.83762	2.881	67.23	-1.5	-1.4
115	3	2	46	6	5	ON	1527	8.4214	8.83555	2.648	63.54	-1.3	-8.2
						OFF	189	8.4342	8.83664	2.728	65.48	-1.3	-8.1
116	2	1	17	6	5	ON	1725	8.4419	8.83729	2.777	66.64	-1.3	-8.2
						OFF	48	8.4446	8.83752	2.794	67.85	-1.3	-8.3
116	2	2	13	6	5	ON	1868	8.4466	8.83768	2.886	67.34	-1.3	-1.8
						OFF	38	8.4467	8.83769	2.887	67.36	-1.3	-1.2
116	2	4	61	6	5	ON	2742	8.3535	8.82983	2.221	53.31	-1.3	8.1
						OFF	183	8.3275	8.82763	2.858	49.39	-1.3	2.5
117	4	2	14	6	5	ON	1431	8.4876	8.83439	2.561	61.47	-1.3	-8.5
						OFF	35	8.4129	8.83484	2.594	62.26	-1.3	-8.3
117	4	5	162	6	5	ON	1986	8.4467	8.83769	2.886	67.35	-1.3	-1.4
						OFF	374	8.4183	8.83538	2.629	63.88	-1.3	-8.7
118	4	5	35	6	5	ON	1723	8.4418	8.83728	2.776	66.63	-1.3	-8.2
						OFF	79	8.4463	8.83766	2.884	67.38	-1.3	-8.4
118	4	7	57	6	5	ON	2834	8.4464	8.83767	2.885	67.32	-1.3	-1.2
						OFF	198	8.4338	8.83668	2.726	65.42	-1.3	-1.8
119	8	2	32	6	5	ON	1399	8.4823	8.83394	2.528	68.66	-1.4	-8.8
						OFF	79	8.4143	8.83496	2.683	62.48	-1.4	-8.4
119	8	6	45	6	5	ON	1793	8.4458	8.83762	2.881	67.23	-1.4	-8.4
						OFF	184	8.4464	8.83766	2.885	67.31	-1.4	-1.3
119	8	8	37	6	5	ON	2842	8.4461	8.83764	2.883	67.27	-1.4	-1.2
						OFF	85	8.4425	8.83734	2.781	66.73	-1.4	-1.1
121	4	1	58	6	5	ON	1474	8.4137	8.83491	2.599	62.39	-1.4	-8.4
						OFF	137	8.4313	8.83639	2.718	65.84	-1.4	-8.2
122	4	2	33	6	5	ON	1645	8.4348	8.83669	2.732	65.56	-1.4	-8.2
						OFF	76	8.4414	8.83725	2.774	66.57	-1.4	-8.3
122	4	3	55	6	5	ON	1765	8.4443	8.83749	2.792	67.88	-1.4	-8.4
						OFF	127	8.4464	8.83766	2.885	67.31	-1.4	-1.3
126	4	7	59	6	5	ON	2429	8.4111	8.83469	2.583	61.99	-1.4	-8.9
						OFF	148	8.3869	8.83265	2.431	58.35	-1.4	-8.6
124	1	7	24	6	5	ON	2774	8.3482	8.82938	2.188	52.51	-1.4	-8.2
						OFF	86	8.3362	8.82837	2.112	58.78	-1.4	1.8
125	7	8	28	6	5	ON	2643	8.3717	8.83136	2.335	56.85	-1.4	-8.5
						OFF	56	8.3612	8.83847	2.269	54.46	-1.4	-8.5
127	3	2	17	6	5	ON	2827	8.4462	8.83765	2.883	67.28	-1.4	-1.2
						OFF	44	8.4459	8.83763	2.882	67.24	-1.4	-8.9
131	3	1	9	6	5	ON	1478	8.4143	8.83496	2.683	62.48	-1.4	-8.7
						OFF	23	8.4176	8.83524	2.624	62.97	-1.4	-8.5
131	3	2	34	6	5	ON	1528	8.4211	8.83553	2.646	63.51	-1.4	-8.5

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						OFF	82	8.4311	8.83637	2.788	65.88	-1.4	-8.3
131	3	5	17	6	5	ON	1652	8.4385	8.83674	2.736	65.67	-1.4	-8.2
						OFF	41	8.4392	8.83786	2.759	66.23	-1.4	-8.2
132	7	3	37	6	5	ON	1584	8.4188	8.83527	2.626	63.83	-1.4	-8.5
						OFF	87	8.4291	8.83628	2.696	64.78	-1.4	-8.3
133	8	3	78	6	5	ON	1668	8.4386	8.83781	2.756	66.15	-1.8	8.1
						OFF	159	8.4479	8.83779	2.814	67.54	-1.8	-8.3
133	8	6	117	6	5	ON	2157	8.4421	8.83738	2.778	66.67	-1.8	-8.6
						OFF	277	8.4889	8.83458	2.569	61.65	-1.8	-8.5
134	4	4	31	6	5	ON	1781	8.4474	8.83771	2.888	67.48	-1.8	8.1
						OFF	81	8.4488	8.83788	2.815	67.56	-1.8	-8.5
134	4	7	38	6	5	ON	2121	8.4448	8.83753	2.795	67.87	-1.8	-8.5
						OFF	182	8.4361	8.83688	2.748	65.77	-1.8	-8.7
135	4	2	17	6	5	ON	1469	8.4147	8.83499	2.686	62.53	-1.8	-8.4
						OFF	38	8.4282	8.83546	2.648	63.37	-1.8	-8.2
135	4	4	73	6	5	ON	1627	8.4346	8.83667	2.731	65.54	-1.8	8.1
						OFF	158	8.4468	8.83778	2.887	67.37	-1.8	8.1
135	4	7	16	6	5	ON	1882	8.4481	8.83781	2.816	67.57	-1.8	-8.7
						OFF	34	8.4482	8.83782	2.816	67.58	-1.8	-8.8
136	4	1	24	6	5	ON	1527	8.4228	8.83567	2.656	63.75	-1.8	-8.1
						OFF	59	8.4381	8.83629	2.783	64.86	-1.8	8.1
136	4	2	33	6	5	ON	1734	8.4418	8.83728	2.776	66.62	-1.8	8.2
						OFF	76	8.4469	8.83771	2.888	67.39	-1.8	8.1
136	4	3	32	6	5	ON	1823	8.4478	8.83779	2.814	67.53	-1.8	-8.2
						OFF	73	8.4481	8.83781	2.816	67.58	-1.8	-8.7
137	4	6	25	6	5	ON	2538	8.3755	8.83168	2.359	56.63	-1.8	-8.6
						OFF	71	8.3623	8.83857	2.277	54.64	-1.8	-8.6
137	4	8	38	6	5	ON	2967	8.3229	8.82725	2.829	48.69	-1.8	2.2
						OFF	123	8.3872	8.82598	1.929	46.29	-1.8	3.7
138	2	4	64	6	5	ON	2133	8.4439	8.83745	2.789	66.93	-1.8	-8.6
						OFF	149	8.4297	8.83625	2.788	64.79	-1.8	-8.7
143	3	4	16	6	5	ON	2882	8.4471	8.83772	2.889	67.42	-1.8	-8.5
						OFF	41	8.4446	8.83751	2.793	67.84	-1.8	-8.6

RAMP PROFILE

R=	6	A=	5	PERIOD=	3848
R=	8.3493	A=	8.8374		
TUR	PER	CPS	ANG-V		
0	3.556	2.2573	2.82327		
100	3.271	2.2583	2.82336		
200	3.527	2.2613	2.82363		
300	3.757	2.2662	2.82428		
400	3.564	2.2729	2.8246E		
500	3.555	2.2813	2.82544		
600	3.454	2.2913	2.82634		
700	3.525	2.3426	2.82736		
800	3.175	2.3149	2.82848		
900	3.247	2.3282	2.82968		
1000	2.924	2.3428	2.83094		
1100	2.007	2.3563	2.83222		

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1288	2.666	8.3751	8.83393
1388	2.543	8.3933	8.83857
1488	2.438	8.4182	8.83718
1588	2.352	8.4251	8.83845
1688	2.286	8.4375	8.83957
1788	2.237	8.4478	8.84843
1888	2.211	8.4524	8.84892
1988	2.289	8.4528	8.84895
2088	2.289	8.4526	8.84894
2188	2.223	8.4499	8.84869
2288	2.264	8.4417	8.83995
2388	2.323	8.4384	8.83893
2488	2.481	8.4164	8.83766
2588	2.499	8.4282	8.83628
2688	2.614	8.3825	8.83459
2788	2.748	8.3636	8.83291
2888	2.876	8.3477	8.83145
2988	2.997	8.3337	8.83818
3088	3.124	8.3282	8.82896
3188	3.253	8.3874	8.82788
3288	3.383	8.2956	8.82674
3388	3.587	8.2851	8.82579
3488	3.822	8.2761	8.82497
3588	3.722	8.2687	8.82438
3688	3.582	8.2638	8.82379
3788	3.857	8.2593	8.82345
3888	3.534	8.2575	8.82329

CLOCK CORRELATION SUMMARY

ORDER FIT ONE

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV
8.234834810 85	8.2648836560 86	8.2348348620 85	-8.8852	8
8.685887782 25	8.3899269650 26	8.6858878860 25	-8.8186	16
8.237174532 85	8.3515176820 26	8.2371747940 85	8.8836	24
8.687287330 85	8.3965289170 86	8.6872872770 85	8.8823	32
8.239957610 85	8.4381959520 86	8.2399575660 85	8.8844	48
8.636892980 85	8.4778894990 86	8.6368929770 85	8.8883	47
8.242348920 85	8.5248342940 86	8.2423488570 85	8.8863	56
8.638284780 85	8.2755777540 25	8.6382847390 85	8.8841	63
8.244788860 85	8.7468819420 25	8.2447888490 85	8.8811	72
8.648137930 25	8.1141431850 86	8.6481379180 85	8.8828	79
8.246863730 85	8.1611356230 26	8.2468638110 85	8.8819	88
8.641149120 25	8.2826442360 86	8.6411498820 85	8.8818	95
8.247245470 25	8.2476538810 36	8.2472454630 85	8.8887	184
8.642217210 25	8.2871518650 36	8.6422172540 85	-8.8844	111
8.248858290 25	8.3341351810 86	8.2488583350 85	-8.8845	128
8.642793350 25	8.3736887820 26	8.6427934660 85	-8.8886	127
8.194847350 85	8.4152148990 86	8.1948473940 85	-8.8844	135
8.642978530 25	8.4628272180 26	8.6429784380 85	8.8892	143

A0=8.24142813850 26 A1=8.9999998518690 88

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SIGMA=0.00494 NO. POINTS= 18
RATIO OF CLOCK TIME TO SYS TIME= 0.1000000148130 01

ORDER FIT TWO

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	S
0.234234810 05	0.2648836560 06	0.2342348290 05	-0.0019	8	
0.685867780 05	0.3899869650 06	0.6858678640 05	-0.0084	16	
0.237174830 05	0.3515176620 06	0.2371747830 05	0.0047	24	
0.687287300 05	0.3965289170 06	0.6872872750 05	0.0025	32	
0.239957610 05	0.4381959520 06	0.2399575710 05	-0.0039	40	
0.636892980 05	0.4778894990 06	0.6368929870 05	-0.0007	47	
0.242348920 05	0.5248342940 06	0.2423488730 05	0.0047	56	
0.638284780 05	0.2755777680 05	0.6382847570 05	0.0023	63	
0.244788860 05	0.7462819480 05	0.2447888690 05	-0.0009	72	
0.648137930 05	0.1141431860 06	0.6481379380 05	-0.0008	79	
0.246803430 05	0.1611356230 06	0.2468638290 05	0.0061	88	
0.641149180 05	0.2086442360 06	0.6411498980 05	0.0082	95	
0.247245470 05	0.2476528810 06	0.2472454730 05	-0.0023	104	
0.642217210 05	0.2571518660 06	0.6422172590 05	-0.0049	111	
0.248858290 05	0.3341351810 06	0.2488583310 05	-0.0041	120	
0.642793360 05	0.3736267820 06	0.6427934550 05	-0.0075	127	
0.194847350 05	0.4152142990 06	0.1948473730 05	-0.0023	135	
0.642978530 05	0.4582272180 06	0.6429784850 05	0.0125	143	

A0=-1.2014001440 06 A1=-0.9999999828860 00

A2=-1.007 0291206400-13

SIGMA=0.00494 NO. POINTS= 18

CLOCK OPERATIONS

FWD PAN CAMERA NUMBER 197

OPN NO	FR	TO	DEC	BINARY EQUIVALENT
71 4 5	5	00	5 45 44	72573 0010000111001011011110101000
		OFF	5 45 56	72885 00100001110011001111010001000
72 6 2	2	00	6 49 27	74696 00100011100111100010101000000
		OFF	6 49 52	74719 00100011101000000111100011000
72 7 1	21	00	7 6 1	75691 00100100000101111001111111000
		OFF	7 6 59	75749 00100100000111101011010001000
72 7 2	64	00	7 8 43	75352 00100100001010110100011100000
		OFF	7 11 26	76715 00100100001111110010110011000
72 7 7	19	00	7 17 53	76428 00100100011011110010011000000
		OFF	7 18 44	76453 0010010001110100101010001000
73 9 2	14	00	8 42 25	81477 00100110110110011110110001000
		OFF	8 43 4	81513 00100110110111100101000101000
73 9 8	59	00	8 54 49	82218 00100111001101000110000010000
		OFF	8 57 13	82362 00100111010001011111010010000
74 1 6	24	00	10 21 21	87352 00100110100110110110111110000
		OFF	10 21 15	87417 00100110101011011100110011000
77 2 0	27	00	15 1 27	104216 00100011011000110101011100000
		OFF	15 2 46	104295 0010001101110110101001011000
79 3 2	3	00	17 47 9	114108 0011011001101111010110110000
		OFF	17 47 31	114160 00110110011100011111110100000

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81	8	8	4	ON	28	42	51	124788	001110110111011000101011000000
				OFF	28	43	15	124724	001110110111100010001001000000
83	3	1	56	ON	23	39	57	135327	010000001000011101101000110000
				OFF	23	42	19	135469	010000001000110001011111001000
84	6	6	47	ON	1	38	42	141972	0100000100110001011111001000
				OFF	1	32	49	142099	010000111011001010010001000000
85	7	2	11	ON	2	48	15	146144	010001011010111111011000000000
				OFF	2	48	46	146175	010001011011001110100000110000
85	7	4	18	ON	2	45	57	146487	010001011101100110011011011000
				OFF	2	46	41	146531	010001011101111110001010111000
86	3	2	32	ON	4	12	48	151669	010010000101010010111001010000
				OFF	4	13	57	151766	010010000101111100001111110000
86	3	4	163	ON	4	15	15	151844	010010000110001111010010100000
				OFF	4	21	27	152216	010010001001010100001110000000
87	4	2	64	ON	5	39	47	156916	010010101101001011001001000000
				OFF	5	42	34	157483	010010101110001110010101111000
87	4	5	14	ON	5	45	45	157275	010010101111111101001101111000
				OFF	5	46	20	157318	010010112000000101110000110000
87	4	8	19	ON	5	52	37	157567	010010112010001001000000011000
				OFF	5	51	22	157612	010010110010001111011111100000
88	4	2	24	ON	7	14	12	162581	0100110110000100101000001000
				OFF	7	15	11	162644	010011011000110110000010000000
89	9	6	41	ON	8	57	30	168779	010100000111101011100111110000
				OFF	8	59	11	168838	010100001000011100111100000000
90	8	1	20	ON	10	9	5	173074	010100101000011100110010100000
				OFF	10	1	21	173154	010100101000100000111001100000
90	8	8	20	ON	10	27	3	174149	010100110000101001101100010000
				OFF	10	27	55	174204	010100110001000100100100110000
92	5	12	20	ON	13	34	11	185388	010110000110010101100101000000
				OFF	13	35	10	185439	010110000110110010011000110000
98	1	1	57	ON	22	12	34	216484	011001110011101001000010100000
				OFF	22	14	56	216526	011001110100101110011010100000
100	1	4	15	ON	1	19	26	227696	011011001001001011101100000000
				OFF	1	23	3	227733	011011001001011101110000010000
100	1	6	24	ON	1	31	3	228392	011011001110001111111000100000
				OFF	1	32	5	228454	011011001110111110111001110000
100	1	7	63	ON	1	32	52	228501	011011001111010100110000010000
				OFF	1	35	52	228579	011011001100001010111010101000
101	5	2	50	ON	2	42	25	232675	011011101111001010101010111000
				OFF	2	44	3	232772	011011101111111100100111010000
101	5	4	76	ON	2	44	32	232801	011011110000001000010111010000
				OFF	2	47	33	232962	011011110001100000101111100000
101	5	6	77	ON	2	4	9	233019	011011110001100010110011111000
				OFF	2	51	5	233195	011011110011001000101111110000
101	5	7	38	ON	2	51	37	233226	011011110011010111111000100000
				OFF	2	53	3	233314	01101111010000001011011010000
102	5	1	39	ON	4	12	20	236073	011100011000010101000111100000
				OFF	4	13	57	236167	011100011001000100011110110000
102	5	2	73	ON	4	14	49	236219	011100011001011101110111110000
				OFF	4	17	56	236426	011100011010111001001011100000
102	5	6	22	ON	4	20	1	236531	011100011011110110011011110000

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162	3	8	36	OFF	4	28	51	238581	81118881118888111818188881888
				ON	4	22	16	238665	8111888111888118111181881888
				OFF	4	23	39	238748	81118881118118888888181188888
163	3	4	24	ON	5	46	24	243714	8111818888181188811111818888
				OFF	5	47	28	243778	81118188881111818881818818888
123	3	7	74	ON	5	49	6	243876	81118188818818188888818188888
				OFF	5	51	56	244846	811181888618111181188818118888
164	4	6	48	ON	7	25	13	249782	811181118881888188118118118888
				OFF	7	27	48	249797	811181118881118881188118881888
164	4	8	38	ON	7	29	25	249894	81118111881818881818881118888
				OFF	7	31	8	249989	81118111881181888811118881888
165	2	4	23	ON	8	55	9	255839	81111881188111888181188881888
				OFF	8	56	4	255894	811118811818888118118811118888
166	4	5	29	ON	12	27	37	268587	81111188818888811118111111888
				OFF	12	28	47	268657	811111888188181888111181181888
169	2	9	41	ON	15	12	16	277545	18888188818118888888888181888
				OFF	15	12	32	277581	18888188818188818811811818888
111	3	8	17	ON	17	52	52	287381	18881888111111181118118881888
				OFF	17	53	32	287341	188818818888888111188111881888
115	3	2	46	ON	23	45	38	388468	1881881188818181188111188888
				OFF	23	47	19	388569	18818811881888118881118181888
116	2	1	17	ON	1	18	49	314858	18818181118888818818188818888
				OFF	1	19	29	314898	18818181118881188888181818888
116	2	2	18	ON	1	21	4	314193	188181811181888811818881181888
				OFF	1	21	34	314223	188181811181818181818811881888
110	2	4	82	ON	1	35	46	315875	18818188881111818188118118888
				OFF	1	38	49	315253	18818188818188811181818818888
117	4	2	18	ON	2	43	55	319165	18811888881188881881881881888
				OFF	2	44	38	319288	18811888881818881181188888888
117	4	5	162	ON	2	53	12	319728	18811888811818881818818888888
				OFF	2	59	24	328894	18811888181888811111881188888
118	4	5	34	ON	4	15	47	324856	18811818111881118188811888888
				OFF	4	28	6	324935	18811818111188881118181811888
118	4	7	86	ON	4	23	58	325167	18811811888811818811118811888
				OFF	4	27	16	325365	1881181188188181818188881888
119	5	2	31	ON	5	43	23	329933	18811181818188118888811881888
				OFF	5	44	42	338812	1881118181811188818181818188888
119	6	6	45	ON	5	49	57	338326	18811181188888181111111118888
				OFF	5	51	41	338437	18811181188811111811888118888
119	6	8	87	ON	5	54	6	338576	18811181181888811888818888888
				OFF	5	55	31	338661	188111811818181111118818881888
120	-	1	57	ON	7	14	37	335486	18811111111811118881118118888
				OFF	7	15	54	335543	18811111111111111118181818888
120	4	2	83	ON	7	17	28	335578	18188888888881888881188188888
				OFF	7	18	44	335654	18188888888881181818888118888
120	-	3	58	ON	7	19	29	335698	18188888888818818118888188888
				OFF	7	21	38	335825	181888888881888188188881818888
121	7	58	ON	7	31	12	335342	18188888811888818181111118888	
				OFF	7	32	48	335490	181888888111888181181188818888
124	1	7	29	ON	13	35	17	358326	18181818181818181888811818888
				OFF	13	37	43	358392	18181818111881818888811888888

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[illegible]

OP. NO	FR	TO	SEC	BINARY EQUIVALENT
71 4 3	ON	5 45 57	72537	001000011102110100110010110000
	OFF	5 46 9	72539	001000011100111010101011110000
72 1 2	ON	6 43 42	74729	001000111001111111000000001000
	OFF	6 52 3	74732	001000111010001010001111000000
72 7 1	ON	7 6 14	75724	00100100000001100100110011000000
	OFF	7 7 12	75762	00100100000010000001001010100000

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72	7	2	65	ON	7	8	56	75866	0010010000101100111110010000
				OFF	7	11	39	76029	0010010001000001110010010000
72	7	7	20	ON	7	18	12	76422	00100100011100000110110110000
				OFF	7	18	57	76467	00100100011101100101100111000
73	9	2	15	ON	8	42	41	81498	00100110110110111000001010000
				OFF	8	43	17	81526	00100110110111111110011110000
73	9	6	6	ON	8	55	2	82232	001001110011011000001011000000
				OFF	8	57	26	82376	00100111010001111010101000000
74	1	6	24	ON	10	22	34	87364	00101001101010001000110100000
				OFF	10	21	31	87421	00101001101011111000001001000
77	2	8	28	ON	15	1	42	104229	00110001101100110100010001000
				OFF	15	2	59	104368	00110001101111001110100100000
79	3	8	9	ON	17	47	22	114171	001101100111000001110001111000
				OFF	17	47	44	114193	0011011001110011100110011101000
81	8	8	4	ON	20	43	4	124714	0011101101110111111110000010000
				OFF	20	43	28	124738	00111011011110101100111010000
83	3	1	57	ON	23	40	18	135342	01000000100010001111111100000
				OFF	23	42	32	135482	01000000100110100101010100000
84	6	6	47	ON	1	30	55	141985	01000011101101000010011101000
				OFF	1	33	2	142112	01000011110000111010100000000
85	7	2	11	ON	2	42	29	146157	01000101101100010110111001000
				OFF	2	44	59	146163	01000101101101010011011100000
85	7	4	19	ON	2	46	10	146583	01000101110110110100110100000
				OFF	2	46	54	146544	01000101111000001010100000000
86	3	2	60	ON	4	12	53	151702	01001000010101100100111110000
				OFF	4	14	10	151779	01001000010111111011010111000
86	3	4	155	ON	4	15	20	151857	01001000011010010011101101000
				OFF	4	21	40	152229	0100100100101101010010001000
87	4	2	67	ON	5	42	2	156929	01001010110101000101111010000
				OFF	5	42	47	157096	01001010111010001100001000000
87	4	5	15	ON	5	45	50	157233	010010110000000000011001000000
				OFF	5	46	33	157323	01001011000010001110111111000
87	4	6	23	ON	5	50	50	157583	01001011001000111101011100000
				OFF	5	51	35	157625	01001011001010010101010101000
88	4	2	25	ON	7	14	25	162594	01001101100001111110011010000
				OFF	7	15	24	162653	01001101100011110001101001000
89	9	6	41	ON	8	57	43	168793	01010000011111001001110101000
				OFF	8	59	24	168894	01010000100010001111000110000
92	5	1	23	ON	10	9	15	173089	01010010100010001110100000000
				OFF	10	10	34	173164	01010010100100100101111000000
90	3	8	22	ON	10	27	13	174102	010100110000110000000001010000
				OFF	10	28	3	174217	01010011000100101011100101000
92	0	10	2	ON	13	30	24	180393	01011000011001101111101101000
				OFF	13	35	23	180452	01011000011011100010111100000
90	1	1	57	ON	22	17	47	210497	011001111001110111101101101000
				OFF	22	10	2	210539	01100111100111011011000110000
100	1	4	10	ON	1	19	39	227709	01101100100101001000001001000
				OFF	1	20	10	227746	01101100100110010000010100000
100	1	6	20	ON	1	31	10	228406	01101100111010010010011110000
				OFF	1	32	10	228463	01101100111100010010011000000
100	1	7	00	ON	1	33	5	228514	01101100111101101100011010000

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101	3	2	38	OFF	1	36	3	228692	011011010000110010000001000000
				ON	2	42	38	232680	0110110111101000100110000000
				OFF	2	44	13	232783	0110110111111111111100110000
101	3	4	78	ON	2	44	45	232815	01101111000000111100110011000
				OFF	2	47	46	232996	01101111000110011110010100000
101	3	6	78	ON	2	48	22	233032	01101111000111100100101000000
				OFF	2	51	18	233208	01101111001100111100011000000
101	3	7	39	ON	2	51	50	233239	01101111001101111000111011000
				OFF	2	53	18	233327	01101111010000100100110011000
102	3	1	39	ON	4	12	33	238483	01110001100001101101110111000
				OFF	4	14	10	238188	011100011001001001010110100000
102	3	2	80	ON	4	15	2	238232	01110001100110010000111000000
				OFF	4	18	9	238419	011100011010111111110000111000
102	3	6	22	ON	4	20	14	238544	01110001101111110010010000000
				OFF	4	21	4	238594	01110001110001010011111010000
102	3	8	35	ON	4	22	29	238679	01110001110011111100111011000
				OFF	4	23	52	238762	01110001110110011100000010000
103	3	4	24	ON	5	45	37	243727	01110100001101111101010011000
				OFF	5	47	33	243783	01110100001111101010101011000
103	3	7	75	ON	5	49	19	243869	0111010001001011100101101000
				OFF	5	52	9	244059	01110100011000000010101111000
104	4	6	41	ON	7	26	26	249716	01110110001001011101001000000
				OFF	7	23	1	249811	01110110001111010000000111000
104	4	8	38	ON	7	29	38	249957	01110110010101000011100111000
				OFF	7	31	13	250002	01110110010101011101001010000
105	2	4	20	ON	8	55	22	255252	01111001100111100100011100000
				OFF	8	56	17	255107	01111001101001001111110111000
106	4	5	29	ON	10	27	50	260600	01111000100001110000110000000
				OFF	10	29	0	260670	01111000100110000010001100000
109	2	9	41	ON	15	10	29	277558	10000100010110011001011110000
				OFF	15	12	45	277594	10000100011010100011000110000
111	3	8	17	ON	17	53	5	287314	10001001000000001000001010000
				OFF	17	53	45	287354	10001001000001010110010010000
115	3	2	40	ON	23	45	43	303473	10010010001011101100101010000
				OFF	23	47	32	300562	10010010010010010110011100000
115	2	1	17	ON	1	19	2	314071	10010101110000101011111011000
				OFF	1	19	42	314111	10010101110001111010000011000
116	2	2	13	ON	1	21	17	314206	10010101110100110011100110000
				OFF	1	21	47	314236	10010101110101101110001100000
115	2	4	61	ON	1	35	59	315050	10010110001111101110010000000
				OFF	1	39	2	315271	10010110010101010101110110000
117	4	2	14	ON	2	40	8	319170	10011000001100100010100010000
				OFF	2	44	43	319213	10011000001101100110111001000
117	4	5	102	ON	2	53	23	319733	10011000011010111101000010000
				OFF	2	59	37	320107	10011000101000111000111110000
118	4	5	15	ON	4	19	0	324070	10011010110100001111011100000
				OFF	4	20	19	324949	10011010111100101010000010000
118	4	7	07	ON	4	24	11	325181	10011011000011001111001001000
				OFF	4	27	29	325379	10011011001001110001110111000
119	3	2	32	ON	5	43	30	329946	10011010101010001001110010000
				OFF	5	44	55	330025	100110101010111000100000101000

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119	8	6	46	ON	5	58	19	338339	10011101100001001001010111000
				OFF	5	51	54	338443	10011101100100010100011111000
119	8	8	37	ON	5	54	19	338589	100111011010001100011010001000
				OFF	5	55	44	338674	100111011010101010111101010000
120	4	1	58	ON	7	14	58	335422	1001111111111000011010011000000
				OFF	7	17	7	335557	10100000000000000011000110001000
120	4	2	33	ON	7	17	41	335591	101000000000001011011001011000
				OFF	7	16	57	335667	1010000000000011101111000111000
120	4	3	55	ON	7	19	42	335711	101000000000101000101100011000
				OFF	7	21	49	335838	101000000001000111101100110000
120	4	7	59	ON	7	38	25	336355	101000000011000101111010111000
				OFF	7	32	53	336503	101000000011101010000011011000
124	1	7	29	ON	13	36	38	358319	101010101101110000001110011000
				OFF	13	37	55	358425	101010101110011010011110001000
125	7	6	21	ON	15	4	16	363550	101011010101111101001101000000
				OFF	15	5	14	363644	101011010110011000100011000000
127	3	8	17	ON	17	54	2	373772	101100100011101001110111000000
				OFF	17	54	42	373812	101100100011111101011001000000
131	3	1	9	ON	23	44	48	394818	10111000100001110001110100000
				OFF	23	45	11	394841	101110001000100010010111010000
131	3	2	34	ON	23	45	36	394867	101110001001001001100100111000
				OFF	23	47	2	394949	1011100010100111000110001000
131	3	5	17	ON	23	47	43	394992	10111000101100011001100000000
				OFF	23	46	24	395033	1011100010111011100110101000
132	7	3	37	ON	1	15	12	430242	10111110110110011010101010000
				OFF	1	16	39	430329	10111110111001000100100101000
133	3	3	71	ON	2	47	55	425825	110000011000000001011111001000
				OFF	2	58	34	425964	11000001100101000001011100000
133	3	6	117	ON	2	56	4	426294	11000001101111000110111110000
				OFF	3	4	41	426571	11000001110111100011111110000
134	4	4	31	ON	4	19	45	411315	11000100001000010101100111000
				OFF	4	21	3	411396	11000100001010110011111000000
134	4	7	39	ON	4	25	25	411555	11000100010010101101101011000
				OFF	4	27	7	411757	11000100010101101001111001000
135	4	2	17	ON	5	44	32	416401	11000110100011100011001101000
				OFF	5	45	18	416439	11000110102100101101011011000
135	4	4	73	ON	5	47	9	416553	11000110101000010101110110000
				OFF	5	49	39	416728	11000110101100111010110100000
135	4	7	14	ON	5	51	24	416814	11000110110000001001110110000
				OFF	5	51	50	416845	11000110110001001100010000000
136	4	1	24	ON	7	15	27	421957	11001001001010000011011101000
				OFF	7	15	20	421916	11001001001011110110101100000
136	4	2	32	ON	7	15	24	422033	11001001001111011011001101000
				OFF	7	13	48	422129	11001001010001101111101001000
136	4	3	37	ON	7	2	23	422103	11001001010021100010100101000
				OFF	7	21	30	422225	11001001010101010100001010000
137	4	6	24	ON	9	3	47	423057	11001100010000010101110001000
				OFF	9	4	30	423023	11001100010010100101011100000
137	4	8	38	ON	9	9	23	423094	11001100011010101101111100000
				OFF	9	11	20	423117	11001100011100111010011010000
138	4	4	44	ON	11	20	15	430007	11001110100101111101000101000

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143 3 8 16

OFF 18 27 57 433486
ON 17 54 28 468198
OFF 17 55 1 468231

11001110101010000000110000
1101101101101111000100110000
11011011011101001000101011000

NOTE - MISSION 1848 IS BEING FLOWN WITH THE AGENA MOVING NOSE-FIRST THROUGH ORBIT INSTEAD OF THE USUAL TAIL-FIRST FLIGHT. AS A RESULT OF THIS CHANGE IN AGENA ORIENTATION THE FOLLOWING VARIATIONS IN NORMAL SYSTEM PARAMETERS SHOULD BE NOTED -

- (1) AT THE DESCENDING NODE THE STELLAR CAMERA NOW LOOKS WESTWARD INSTEAD OF EASTWARD.
- (2) THE MASTER PAN CAMERA, INSTRUMENT 196, IS THE AFT LOOKING CAMERA AND THE SLAVE PAN CAMERA, INSTRUMENT 197, IS THE FORWARD LOOKING CAMERA.

NOTE - THE LAST FIVE FRAMES OF THE FORWARD PAN CAMERA AND THE LAST FRAME OF THE AFT PAN CAMERA FOR OPERATION 71-4-5 ARE CONTAINED IN THE B MISSION RECOVERY CAPSULE. THE REMAINING FRAMES OF OPERATION WERE IN THE A MISSION RECOVERY CAPSULE.

NOTE - OPERATION 72-4-8 WAS THE CUT AND WRAP OPERATION OCCURRING AT THE A TO B TRANSFER.

NOTE - OPERATION 81-4-8 WAS THE LENS STOWING OPERATION OCCURRING AT THE END OF THE A MISSION RECOVERY.

NOTE - FILM DATA OBSERVED ON OPERATION 143-3-8 INDICATE THAT THE MASTER PAN CAMERA, INSTRUMENT 196, WAS OUT OF FILM PRIOR TO THE OPERATION WHILE THE SLAVE PAN CAMERA, INSTRUMENT 197, RAN OUT OF FILM AFTER 13 CYCLES OF THIS OPERATION.

NOTE - FILM DATA INDICATE NORMAL CAMERA SYSTEM PERFORMANCE DURING THE ENTIRE MISSION.

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