

~~SECRET~~



4 PAGES  
(NOT INCLUDING PEST)

CORONA J-FLIGHT DATA BOOK

SYSTEM NO. J-X28

VEHICLE NO. 1616

MISSION NO. 1825-2

CAMERA NOS. 142/127

DATE 18-15-65

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on NOV 26 1997

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SYSTEM NO. J-X28  
VEHICLE NO. 1616  
MISSION NO. 1825-2  
CAMERA NOS. 142/127

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~~CONFIDENTIAL~~

SYSTEM NO. J-X28  
VEHICLE NO. 1616  
MISSION NO. 1825-2  
CAMERA NOS. 142/127

GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 142

SLAVE CAMERA SERIAL NO. 127

S/I -1 SERIAL NO. D73/78/88

S/I -2 SERIAL NO. D78/88/81

LAUNCH DATE 18-05-65

REACTIVATION DATE N/A

REACTIVATION ORBIT N/A

ORBITAL PARAMETERS (REV. 121)

PERIOD	89.691 MIN	ECCENTRICITY	0.00925
PERIGEE	114.481 NM	PERIGEE LAT.	57.080
APOGEE	180.700 NM	INCL. ANGLE	75.034

RECOVERY ORBIT NO. 161

RECOVERY DATE 18-15-65

~~CONFIDENTIAL~~

SYSTEM NO. J-X28  
VEHICLE NO. 1616  
MISSION NO. 1825-2  
CAMERA NOS. 142/127

CYCLE PERIOD DATA

V/H RAMP SETTING LEVEL	AMPLITUDE	TIME UP RAMP-SEC	---CALIBRATED---		---IN-FLIGHT---		ORBIT CYCLE PERIOD-SEC NO.
			MASTER	SLAVE	MASTER	SLAVE	
7	7	473	3.516	3.538	3.467	3.519	89
7	7	2842	2.483	2.495	2.528	2.555	95
7	7	2888	2.477	2.498	2.518	2.538	111
7	7	2858	2.485	2.497	2.518	2.545	127
7	7	598	3.381	3.395	3.358	3.432	136
7	7	2188	2.496	2.588	2.528	2.568	143
7	7	2148	2.588	2.528	2.538	2.568	159

NOTE

AN \* OR -8 INDICATES NO DATA AVAILABLE.

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182	7	1	38	ON	2	47	29	84	38E	686923	711996	12	2	28	18	758	8418	
				OFF	2	41	13	87	38E	684586	789571	12	2	21	57	811	8517	
182	7	2	79	ON	2	38	28	88	36E	684485	789384	12	2	22	48	817	8568	
				OFF	2	25	18	92	45E	691193	716427	12	2	26	3	837	8763	
182	7	3	18	ON	2	5	45	97	13E	726183	752739	12	2	31	1	859	9861	
				OFF	2	2	25	97	54E	735152	762848	12	2	31	52	9	3	9112
183	4	1	17	ON	2	58	38	53	43E	697817	722472	12	3	47	1	721	13621	
				OFF	2	55	48	56	13E	693828	719163	12	3	47	46	732	13666	
183	4	2	17	ON	2	52	1	59	7E	698112	715387	12	3	48	48	745	13728	
				OFF	2	49	13	68	53E	687956	713869	12	3	49	33	753	13773	
183	4	3	46	ON	2	31	14	68	29E	686718	711775	12	3	54	17	828	14857	
				OFF	2	23	28	78	38E	693586	718827	12	3	56	16	838	14176	
184	8	1	185	ON	2	38	29	46	2E	687165	712247	12	5	24	8	828	19448	
				OFF	2	12	28	58	34E	711511	737512	12	5	28	46	851	19726	
185	3	1	18	ON	2	59	32	7	22E	698884	723497	12	6	46	8	715	24368	
				OFF	2	56	49	18	4E	694656	728822	12	6	46	54	727	24414	
185	3	2	111	ON	2	22	48	25	33E	694658	728814	12	6	55	58	838	24958	
				OFF	2	3	32	29	47E	732989	759882	12	7	8	42	859	25242	
186	5	1	48	ON	2	21	44	3	9E	696829	721445	12	8	25	47	838	38347	
				OFF	2	13	27	5	4E	789758	735693	12	8	27	54	848	38474	
118	9	1	19	ON	2	39	25	92	46W	684668	789648	12	14	28	2	8	8	51682
				OFF	2	36	11	91	33W	685162	718169	12	14	28	52	814	51652	
111	1	8	14	ON	2	37	47	114	46W	684936	789934	12	15	58	9	811	57889	
				OFF	2	35	22	113	53W	685548	718578	12	15	58	47	815	57847	
117	3	1	57	ON	2	58	39	183	15E	688329	713456	13	8	44	57	737	2697	
				OFF	2	41	22	188	3E	685292	718384	13	8	47	24	759	2844	
117	3	2	43	ON	2	35	44	118	13E	686264	711312	13	8	48	52	8	9	2932
				OFF	2	28	38	112	29E	698844	716865	13	8	58	44	828	3844	
118	4	1	28	ON	2	51	2	88	23E	688553	713688	13	2	14	33	736	8873	
				OFF	2	47	49	82	19E	686832	711982	13	2	15	24	744	8124	
118	4	2	79	ON	2	38	31	86	35E	685626	718658	13	2	17	58	8	4	8278
				OFF	2	25	21	98	44E	694292	719643	13	2	21	13	824	8473	
119	5	1	17	ON	2	46	34	68	22E	686379	711433	13	3	45	25	746	13525	
				OFF	2	43	58	61	43E	685679	718786	13	3	46	8	753	13568	
119	5	2	68	ON	2	38	39	66	37E	689455	714623	13	3	49	33	816	13773	
				OFF	2	28	26	69	21E	781148	726749	13	3	52	18	829	13938	
128	9	1	53	ON	2	37	4	41	52E	686233	711288	13	5	17	36	8	5	19856
				OFF	2	28	18	44	48E	691654	716985	13	5	19	51	818	19191	
128	9	2	35	ON	2	18	46	48	55E	719933	746253	13	5	24	19	848	19459	
				OFF	2	4	28	58	13E	735823	762744	13	5	25	55	846	19555	
121	9	1	37	ON	2	28	37	21	58E	691581	716838	13	6	49	28	817	24568	
				OFF	2	22	22	23	38E	698831	724353	13	6	51	4	825	24664	
121	9	2	92	ON	2	28	42	24	2E	781281	726896	13	6	51	29	827	24689	
				OFF	2	4	29	27	36E	736157	763891	13	6	55	37	846	24937	
122	4	1	53	ON	2	22	48	8	56E	698687	724283	13	8	28	48	824	38848	
				OFF	2	13	27	3	5E	714714	748836	13	8	23	1	835	38181	
127	8	1	28	ON	2	37	31	116	38W	686973	712848	13	15	45	17	758	56717	
				OFF	2	34	14	115	29W	688466	713598	13	15	46	8	8	4	56768
133	4	1	17	ON	2	57	2	96	25E	692167	717439	14	8	38	11	7	3	2291
				OFF	2	54	28	98	43E	698121	715316	14	8	38	56	713	2336	
133	4	2	64	ON	2	58	31	181	23E	687992	713187	14	8	39	58	725	2398	

**ULUFI**

133	4	3	19	OFF	2	48	14	186	34E	686761	711828	14	8	42	41	748	2561	
				ON	2	21	37	112	21E	782988	728576	14	8	47	27	816	2847	
				OFF	2	18	21	113	8E	788389	734272	14	8	48	17	828	2897	
134	5	1	26	ON	2	51	27	78	9E	688481	713538	14	2	9	23	722	7763	
				OFF	2	47	11	88	42E	686874	711946	14	2	18	31	733	7831	
134	5	2	79	ON	2	37	29	85	8E	687785	712888	14	2	13	4	753	7984	
				OFF	2	24	17	89	3E	699273	724812	14	2	16	28	812	8188	
135	8	1	39	ON	2	29	59	64	52E	692928	718219	14	3	44	48	8	4	13488
				OFF	2	23	17	66	42E	788895	726495	14	3	46	23	813	13583	
136	8	8	14	ON	1	38	31	189	58W	828629	859884	14	4	47	37	2128	17257	
				OFF	1	41	29	188	39W	828946	851188	14	4	48	24	2133	17384	
136	8	1	82	ON	2	37	8	39	57E	688147	713266	14	5	12	33	752	18753	
				OFF	2	23	18	44	4E	781184	726712	14	5	16	4	812	18964	
137	7	1	97	ON	2	21	39	21	52E	783847	729558	14	6	46	9	813	24369	
				OFF	2	4	27	25	48E	742819	769176	14	6	58	32	833	24632	
141	6	1	68	ON	3	18	51	59	52W	827172	857571	14	12	55	11	855	46511	
				OFF	3	31	25	56	32W	882536	915857	14	12	58	26	912	46786	
143	6	1	19	ON	2	35	58	118	8W	689661	714838	14	15	48	31	748	56431	
				OFF	2	32	42	116	54W	691988	717244	14	15	41	22	753	56482	
148	8	1	65	ON	3	16	55	141	21E	822385	852688	14	23	22	22	847	84142	
				OFF	3	38	27	144	58E	881271	913743	14	23	25	52	9	5	84352
148	8	2	17	ON	3	48	11	148	12E	925791	959979	14	23	28	25	921	84585	
				OFF	3	43	56	149	49E	942877	977725	14	23	29	25	928	84565	
149	8	1	36	ON	2	24	29	189	44E	782838	728512	15	8	41	28	8	8	2488
				OFF	2	18	14	111	16E	713376	739448	15	8	43	4	8	8	2584
149	8	2	78	ON	3	19	58	119	24E	835818	865788	15	8	52	47	858	3167	
				OFF	3	34	27	123	29E	899981	933891	15	8	56	35	918	3395	
158	5	1	27	ON	2	63	58	63	34E	697884	722543	15	2	8	35	614	7235	
				OFF	2	59	54	68	59E	693233	718545	15	2	1	47	637	7387	
158	5	2	26	ON	2	51	25	76	17E	688469	713681	15	2	4	7	7	9	7447
				OFF	2	47	13	78	48E	687688	712782	15	2	5	14	728	7514	
158	5	3	45	ON	2	31	34	85	6E	694533	719893	15	2	9	18	749	7758	
				OFF	2	23	51	87	17E	784865	729785	15	2	11	17	8	8	7877
151	4	1	31	ON	2	29	35	63	5E	696843	722298	15	3	39	29	751	13169	
				OFF	2	24	18	64	33E	783688	729394	15	3	48	58	759	13258	
152	7	1	76	ON	2	28	32	48	46E	698293	723795	15	5	9	25	752	18565	
				OFF	2	15	23	44	4E	728211	746542	15	5	12	47	8	9	18767
153	5	1	31	ON	2	28	42	18	7E	698363	723867	15	6	39	2	751	23942	
				OFF	2	23	25	19	32E	785638	731489	15	6	48	23	758	24823	
153	5	2	41	ON	2	28	47	28	12E	718818	735955	15	6	41	3	8	1	24863
				OFF	2	13	28	21	53E	724889	751313	15	6	42	55	818	24175	
154	4	1	65	ON	2	24	46	3	25W	783874	729586	15	8	9	42	756	29382	
				OFF	2	13	28	8	43W	725158	751675	15	8	12	35	8	9	29555
157	6	1	72	ON	3	6	57	64	28W	787681	816498	15	12	46	45	829	46885	
				OFF	3	21	24	61	8W	845328	876422	15	12	58	28	845	46228	
158	6	1	22	ON	3	49	29	73	23W	971561	1887519	15	14	27	31	933	52851	
				OFF	3	54	18	78	6W	992484	1829172	15	14	28	51	948	52131	
159	6	1	18	ON	2	33	44	119	6W	694531	719892	15	15	35	41	739	56141	
				OFF	2	38	59	118	14W	697248	722782	15	15	36	23	743	56183	
161	5	1	27	ON	2	73	34	143	58E	718323	736282	15	18	23	14	358	66194	
				OFF	2	71	1	157	34E	784735	738482	15	18	24	27	454	66267	

**ULUFI**

**UNIT**

161 5 2 49 ON 2 66 7 171 NE 697996 723488 15 18 26 18 558 66378  
OFF 2 58 58 178 37W 691818 717877 15 18 28 28 633 66588

**OPERATIONS SUMMARY**

AFT PAN CAMERA		NUMBER		142											
OPN	NO	FRA		Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM	
79	7	1	4	ON	2 31 34	188 36W	682194	787888	18	16	1	14	846	57674	
				OFF	2 38 53	188 23W	682463	787368	18	16	1	24	847	57684	
81	8	8	5	ON	2 59 38	169 32W	699598	725142	18	18	53	14	735	67994	
				OFF	2 58 8	168 7W	697582	722975	18	18	53	37	741	68817	
84	3	1	53	ON	2 72 5	94 48E	726338	752894	18	23	18	17	537	83897	
				OFF	2 65 21	114 21E	789289	735125	18	23	28	42	658	84842	
84	3	2	39	ON	2 57 27	124 39E	695855	721267	18	23	23	8	741	84188	
				OFF	2 51 16	129 38E	688494	713627	18	23	24	41	8 2	84281	
84	3	3	17	ON	2 45 8	133 3E	683624	788573	18	23	26	21	818	84381	
				OFF	2 42 12	134 21E	682318	787217	18	23	27	5	824	84425	
86	1	1	21	ON	2 64 55	69 51E	787736	733596	11	2	28	17	659	8417	
				OFF	2 61 48	74 32E	782893	727748	11	2	21	13	719	8473	
86	1	2	48	ON	2 54 59	81 32E	692261	717536	11	2	23	8	749	8588	
				OFF	2 48 44	85 49E	685988	711818	11	2	24	49	8 8	8689	
86	1	3	28	ON	2 43 8	88 44E	682542	787458	11	2	26	19	821	8779	
				OFF	2 39 41	98 8E	681685	786477	11	2	27	11	827	8831	
86	1	4	62	ON	2 36 32	91 19E	681456	786323	11	2	28	8	833	8888	
				OFF	2 26 19	94 29E	686188	711233	11	2	38	37	848	9837	
86	1	5	18	ON	2 8 31	188 17E	735931	762857	11	2	37	13	918	9433	
				OFF	3 2 48	188 58E	746281	773599	11	2	38	4	921	9484	
87	7	1	28	ON	2 47 55	63 39E	685268	718271	11	3	54	45	8 9	14885	
				OFF	2 44 43	65 18E	683276	788212	11	3	55	36	816	14136	
87	7	2	26	ON	2 33 38	69 43E	682888	786978	11	3	58	38	837	14318	
				OFF	2 29 15	71 2E	684182	789869	11	3	59	36	843	14376	
87	7	3	66	ON	2 25 34	72 3E	687828	712896	11	4	8	32	848	14432	
				OFF	2 14 23	74 45E	782664	728331	11	4	3	23	9 2	14683	
89	8	8	13	ON	1 37 16	127 8W	863155	894932	11	6	31	49	22 3	23589	
				OFF	1 48 14	125 52W	854998	886463	11	6	32	36	22 9	23556	
89	8	1	53	ON	2 16 41	28 58E	699888	724611	11	7	2	15	858	25335	
				OFF	2 7 28	38 58E	718154	744486	11	7	4	36	9 8	25476	
89	8	2	58	ON	3 8 4	32 31E	738851	765887	11	7	6	31	916	25591	
				OFF	3 9 22	34 25E	778212	798439	11	7	8	54	926	25734	
98	7	1	58	ON	3 16 48	13 25E	799884	829157	11	8	48	32	934	31232	
				OFF	3 28 14	16 17E	858868	881343	11	8	43	38	948	31418	
94	3	1	17	ON	2 48 29	91 13W	682369	787271	11	14	24	43	819	51883	
				OFF	2 37 42	98 8W	682284	787183	11	14	25	26	824	51926	
94	3	2	47	ON	3 34 23	72 28W	881112	913579	11	14	43	58	954	53838	
				OFF	3 44 5	68 31W	927545	961881	11	14	46	33	1812	53193	
95	3	1	19	ON	2 34 34	111 39W	683599	788547	11	15	55	57	829	57357	
				OFF	2 31 18	118 36W	685831	718833	11	15	56	47	834	57487	
181	8	1	23	ON	3 6 6	122 11E	765161	793196	12	1	4	37	913	3877	
				OFF	3 18 32	123 7E	781346	889996	12	1	5	45	918	3945	
181	8	2	48	ON	3 14 54	124 4E	798426	827727	12	1	6	53	923	4813	
				OFF	3 24 21	126 19E	838651	869489	12	1	9	28	934	4168	

**UNIT**



LUKI

182 7 1	39 ON	2 48 24	83 55E	686923	711996	12 2 28 18	756 8418
	OFF	2 42 9	87 2E	684586	789571	12 2 21 57	818 8517
182 7 2	81 ON	2 39 25	88 18E	684485	789384	12 2 22 48	815 8568
	OFF	2 26 16	92 26E	691193	716427	12 2 26 3	835 8763
182 7 3	19 ON	2 6 47	96 56E	726183	752739	12 2 31 1	858 9861
	OFF	2 3 28	97 37E	735152	762848	12 2 31 52	9 2 9112
183 4 1	17 ON	2 59 23	52 43E	697817	722472	12 3 47 1	717 13621
	OFF	2 56 43	55 22E	693828	719163	12 3 47 46	729 13666
183 4 2	17 ON	2 52 56	58 24E	698112	715387	12 3 48 48	742 13728
	OFF	2 58 9	68 16E	687956	713869	12 3 49 33	758 13773
183 4 3	46 ON	2 32 2	68 7E	686718	711775	12 3 54 17	826 14857
	OFF	2 24 18	78 19E	693586	718827	12 3 56 16	837 14176
184 8 1	188 ON	2 31 27	45 41E	687165	712247	12 5 24 8	826 19448
	OFF	2 13 21	58 17E	711511	737512	12 5 28 46	849 19726
185 3 1	17 ON	2 68 25	6 18E	698884	723497	12 6 46 8	711 24368
	OFF	2 57 43	9 18E	694656	728822	12 6 46 54	723 24414
185 3 2	111 ON	2 23 39	25 14E	694658	728814	12 6 55 58	836 24958
	OFF	2 4 34	29 38E	732989	759882	12 7 8 42	858 25242
186 5 1	49 ON	2 22 43	2 51E	696829	721445	12 8 25 47	837 38347
	OFF	2 14 27	4 47E	789758	735693	12 8 27 54	847 38474
118 9 1	28 ON	2 48 22	93 12W	684668	789648	12 14 28 2	8 7 51682
	OFF	2 37 8	91 58W	685162	718169	12 14 28 52	813 51652
111 1 8	15 ON	2 38 44	115 11W	684936	789934	12 15 58 9	8 9 57889
	OFF	2 36 19	114 17W	685548	718578	12 15 58 47	813 57847
117 3 1	58 ON	2 51 35	182 35E	688329	713456	13 8 44 57	735 2697
	OFF	2 42 19	187 35E	685292	718384	13 8 47 24	757 2844
117 3 2	44 ON	2 36 41	189 49E	686264	711312	13 8 48 52	8 8 2932
	OFF	2 29 28	112 9E	698844	716865	13 8 58 44	819 3844
118 4 1	28 ON	2 51 57	79 43E	688553	713688	13 2 14 33	733 8873
	OFF	2 48 45	81 43E	686832	711982	13 2 15 24	742 8124
118 4 2	88 ON	2 39 28	86 9E	685626	718658	13 2 17 58	8 2 8278
	OFF	2 26 19	98 24E	694292	719643	13 2 21 13	822 8473
119 5 1	17 ON	2 47 31	59 48E	686379	711433	13 3 45 25	744 13525
	OFF	2 44 46	61 12E	685679	718786	13 3 46 8	751 13568
119 5 2	61 ON	2 31 37	66 15E	689455	714623	13 3 49 33	814 13773
	OFF	2 21 25	69 3E	781148	726749	13 3 52 18	828 13938
128 9 1	54 ON	2 38 1	41 27E	686233	711288	13 5 17 36	8 3 19856
	OFF	2 29 17	44 28E	691654	716985	13 5 19 51	817 19191
128 9 2	35 ON	2 11 47	48 38E	719933	746253	13 5 24 19	838 19459
	OFF	2 5 31	49 56E	735823	762744	13 5 25 55	845 19555
121 9 1	37 ON	2 29 35	21 37E	691581	716838	13 6 49 28	815 24568
	OFF	2 23 21	23 19E	698831	724353	13 6 51 4	824 24664
121 9 2	94 ON	2 21 41	23 44E	781281	726896	13 6 51 29	826 24689
	OFF	2 5 32	27 19E	736157	763891	13 6 55 37	844 24937
122 4 1	54 ON	2 23 39	8 37E	698687	724283	13 8 28 48	823 38848
	OFF	2 14 28	2 48E	714714	748836	13 8 23 1	834 38181
127 8 1	28 ON	2 38 28	117 3W	686973	712848	13 15 45 17	757 56717
	OFF	2 35 11	115 52W	688466	713598	13 15 46 8	8 2 56768
133 4 1	17 ON	2 57 56	95 38E	692167	717439	14 8 38 11	7 8 2291
	OFF	2 55 14	97 55E	698121	715316	14 8 38 56	718 2336
133 4 2	65 ON	2 51 26	188 43E	687992	713187	14 8 39 58	722 2398

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		OFF	2	41	11	186	7E	686761	711828	14	8	42	41	747	2561			
133	4	3	19	ON	2	22	37	112	2E	702908	728576	14	8	47	27	815	2847	
		OFF	2	19	21	112	58E	708389	734272	14	8	48	17	819	2897			
134	5	1	27	ON	2	52	22	77	28E	688481	713538	14	2	9	23	719	7763	
		OFF	2	48	7	88	8E	686874	711946	14	2	18	31	731	7831			
134	5	2	79	ON	2	38	27	84	35E	687785	712888	14	2	13	4	751	7984	
		OFF	2	25	16	88	44E	699273	724812	14	2	16	28	811	8188			
135	8	1	48	ON	2	38	57	64	38E	692928	718219	14	3	44	48	8	2	13488
		OFF	2	24	16	66	23E	708895	726495	14	3	46	23	811	13583			
136	8	8	14	ON	1	37	22	118	21W	828629	859884	14	4	47	37	2126	17257	
		OFF	1	48	21	189	11W	828946	851188	14	4	48	24	2131	17384			
136	8	1	83	ON	2	37	57	39	32E	688147	713266	14	5	12	33	758	18753	
		OFF	2	24	17	43	45E	701184	726712	14	5	16	4	811	18964			
137	7	1	99	ON	2	22	38	21	33E	703847	729558	14	6	46	9	812	24369	
		OFF	2	5	38	25	23E	742819	769176	14	6	58	32	832	24632			
141	6	1	61	ON	3	17	48	68	13W	827172	857571	14	12	55	11	854	46511	
		OFF	3	38	18	56	59W	882536	915857	14	12	58	26	918	46786			
143	6	1	28	ON	2	36	56	118	24W	689661	714838	14	15	48	31	746	56431	
		OFF	2	33	48	117	17W	691988	717244	14	15	41	22	752	56482			
148	8	1	66	ON	3	15	46	141	8E	822385	852688	14	23	22	22	846	84142	
		OFF	3	29	13	144	24E	881271	913743	14	23	25	52	9	3	84352		
148	8	2	18	ON	3	38	54	147	37E	925791	959979	14	23	28	25	918	84585	
		OFF	3	42	38	149	9E	942877	977725	14	23	29	25	926	84565			
149	8	1	36	ON	2	25	29	189	24E	702838	728512	15	8	41	28	759	2488	
		OFF	2	19	15	118	58E	713376	739448	15	8	43	4	8	6	2584		
149	8	2	71	ON	3	18	39	119	3E	835818	865788	15	8	52	47	849	3167	
		OFF	3	33	11	122	59E	899981	933891	15	8	56	35	9	8	3395		
150	5	1	28	ON	2	64	47	62	9E	697884	722543	15	2	8	35	6	9	7235
		OFF	2	68	46	67	55E	693233	718545	15	2	1	47	633	7387			
150	5	2	26	ON	2	52	21	75	36E	688469	713681	15	2	4	7	7	6	7447
		OFF	2	48	9	78	13E	687688	712782	15	2	5	14	718	7514			
150	5	3	46	ON	2	32	33	84	44E	694533	719893	15	2	9	18	748	7758	
		OFF	2	24	51	86	57E	704865	729785	15	2	11	17	759	7877			
151	4	1	31	ON	2	38	33	62	44E	696843	722298	15	3	39	29	758	13169	
		OFF	2	25	18	64	13E	703688	729394	15	3	48	58	757	13258			
152	7	1	77	ON	2	29	31	48	26E	698293	723795	15	5	9	25	751	18565	
		OFF	2	16	24	43	46E	728211	746542	15	5	12	47	8	7	18767		
153	5	1	31	ON	2	29	41	17	46E	698363	723867	15	6	39	2	758	23942	
		OFF	2	24	25	19	13E	705638	731489	15	6	48	23	757	24823			
153	5	2	42	ON	2	21	47	19	53E	718818	735955	15	6	41	3	8	8	24863
		OFF	2	14	29	21	35E	724889	751313	15	6	42	55	8	9	24175		
154	4	1	65	ON	2	25	45	3	44W	703874	729586	15	8	9	42	754	29382	
		OFF	2	14	38	1	1W	725158	751675	15	8	12	35	8	8	29555		
157	6	1	72	ON	3	5	49	64	39W	787681	816498	15	12	46	45	828	46885	
		OFF	3	28	12	61	38W	845328	876422	15	12	58	28	844	46228			
158	6	1	23	ON	3	48	18	74	14W	971561	1087519	15	14	27	31	938	52851	
		OFF	3	52	59	71	11W	992484	1029172	15	14	28	51	944	52131			
159	6	1	16	ON	2	34	42	119	29W	694531	719892	15	15	35	41	737	56141	
		OFF	2	31	58	118	36W	697248	722782	15	15	36	23	741	56183			
161	5	1	27	ON	2	73	58	148	23E	718323	736282	15	18	23	14	344	66194	
		OFF	2	71	38	154	57E	784735	738482	15	18	24	27	444	66267			

**SECRET**

**FOUL**

161 5 2 58 ON 2 66 54 169 19E 697996 723488 15 18 26 18 543 66378  
OFF 2 59 43 179 38W 691818 717877 15 18 28 28 629 66588

**PHOTOGRAPHIC SUMMARY**

FWD PAN	CAMERA NO	127	0.1758	SLIT	W/21	FILTER	3484	FILM			
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI		
79 7 1	4	18.6	ON 333	33.3	-39.8	12.23	12.66	12.86	11.46		
			OFF 332	33.8	-39.3	12.23	12.67	12.87	11.47		
81 8 8	5	13.2	ON 228	8.2	-32.8	11.69	11.54	18.94	18.34		
			OFF 228	9.5	-32.2	11.69	11.69	11.89	18.49		
84 3 1	53	148.2	ON 389	-6.3	-31.5	12.12	8.88	8.88	8.88		
			OFF 328	1.9	-32.8	12.17	18.59	9.99	9.39		
84 3 2	39	183.2	ON 328	9.8	-32.8	12.21	11.72	11.12	18.52		
			OFF 332	15.6	-33.8	12.23	12.18	11.58	18.98		
84 3 3	17	45.8	ON 334	21.2	-35.2	12.24	12.43	11.83	11.23		
			OFF 335	23.6	-35.9	12.24	12.58	11.98	11.38		
86 1 1	21	55.5	ON 321	2.2	-32.3	12.18	18.64	18.84	9.44		
			OFF 325	5.4	-32.6	12.19	11.17	18.57	9.97		
86 1 2	39	183.2	ON 338	11.9	-33.5	12.22	11.91	11.31	18.71		
			OFF 333	17.6	-34.6	12.23	12.29	11.69	11.89		
86 1 3	28	52.9	ON 335	22.6	-36.8	12.24	12.48	11.88	11.28		
			OFF 334	25.5	-37.8	12.24	12.55	11.95	11.35		
86 1 4	61	161.3	ON 334	28.1	-38.8	12.24	12.68	12.88	11.48		
			OFF 329	36.3	-42.5	12.21	12.69	12.89	11.49		
86 1 5	18	47.6	ON 388	52.8	-64.3	12.88	12.75	12.15	11.55		
			OFF 295	54.1	-68.6	12.86	12.75	12.15	11.55		
87 7 1	19	58.3	ON 334	18.2	-34.9	12.23	12.32	11.72	11.12		
			OFF 334	21.8	-35.7	12.24	12.43	11.83	11.23		
87 7 2	25	66.1	ON 333	38.4	-39.3	12.23	12.63	12.83	11.43		
			OFF 331	33.8	-41.1	12.22	12.67	12.87	11.47		
87 7 3	64	169.3	ON 328	36.7	-43.8	12.21	12.69	12.89	11.49		
			OFF 318	44.7	-58.4	12.17	12.74	12.14	11.54		
89 8 8	13	34.4	ON 238	-51.2	298.6	11.75	8.88	8.88	8.88		
			OFF 248	-49.6	381.9	11.76	8.88	8.88	8.88		
89 8 1	52	137.5	ON 326	42.8	-48.8	12.28	12.73	12.13	11.53		
			OFF 316	48.6	-56.7	12.16	12.75	12.15	11.55		
89 8 2	58	132.3	ON 386	52.4	-65.8	12.11	12.75	12.15	11.55		
			OFF 292	55.5	-77.7	12.84	12.75	12.15	11.55		
98 7 1	57	158.8	ON 281	56.3	-89.8	11.99	12.75	12.15	11.55		
			OFF 268	54.6	-186.5	11.92	12.75	12.15	11.55		
94 3 1	16	42.3	ON 337	23.6	-37.9	12.25	12.51	11.91	11.31		
			OFF 337	25.9	-38.7	12.25	12.56	11.96	11.36		
94 3 2	46	121.7	ON 268	52.8	-113.7	11.88	12.75	12.15	11.55		
			OFF 258	46.9	-124.4	11.82	12.75	12.15	11.55		
95 3 1	19	58.3	ON 336	28.3	-48.8	12.24	12.68	12.88	11.48		
			OFF 335	38.9	-41.3	12.24	12.64	12.84	11.44		
181 8 1	23	68.8	ON 295	52.4	-72.4	12.86	12.75	12.15	11.55		
			OFF 288	53.5	-78.3	12.82	12.75	12.15	11.55		
181 8 2	47	124.3	ON 281	54.2	-84.5	11.99	12.75	12.15	11.55		
			OFF 271	54.8	-98.3	11.93	12.75	12.15	11.55		

**CFORCE**

102 7 1	38	188.5	ON 335	15.8	-37.1	12.24	12.19	11.59	18.99
			OFF 336	21.1	-38.6	12.25	12.43	11.83	11.23
102 7 2	79	289.8	ON 337	23.3	-39.3	12.25	12.58	11.98	11.38
			OFF 332	33.6	-44.5	12.23	12.67	12.87	11.47
102 7 3	18	47.6	ON 313	46.5	-58.8	12.14	12.75	12.15	11.55
			OFF 389	48.2	-61.3	12.12	12.75	12.15	11.55
103 4 1	17	45.8	ON 328	5.8	-35.7	12.21	11.23	18.63	18.83
			OFF 338	8.3	-35.9	12.22	11.55	18.95	18.35
103 4 2	17	45.8	ON 333	11.7	-36.5	12.23	11.89	11.29	18.69
			OFF 334	14.1	-36.9	12.24	12.88	11.48	18.88
103 4 3	46	121.7	ON 335	29.1	-42.8	12.24	12.61	12.81	11.41
			OFF 331	34.9	-45.6	12.22	12.68	12.88	11.48
104 8 1	185	277.7	ON 336	29.4	-42.4	12.25	12.62	12.82	11.42
			OFF 322	42.2	-52.6	12.18	12.73	12.13	11.53
105 3 1	18	47.6	ON 329	4.6	-35.9	12.21	11.85	18.45	9.85
			OFF 331	7.1	-36.1	12.22	11.41	18.81	18.21
105 3 2	111	293.6	ON 332	35.8	-46.1	12.23	12.68	12.88	11.48
			OFF 311	47.1	-68.2	12.13	12.75	12.15	11.55
106 5 1	48	127.8	ON 331	35.5	-46.8	12.22	12.68	12.88	11.48
			OFF 323	41.1	-52.8	12.19	12.72	12.12	11.52
110 9 1	19	58.3	ON 338	21.4	-48.2	12.25	12.44	11.84	11.24
			OFF 338	23.9	-41.1	12.25	12.51	11.91	11.31
111 1 8	14	37.8	ON 338	22.5	-48.8	12.25	12.48	11.88	11.28
			OFF 338	24.4	-41.5	12.25	12.53	11.93	11.33
117 3 1	57	158.8	ON 336	11.1	-38.8	12.25	11.84	11.24	18.64
			OFF 338	18.7	-48.6	12.25	12.34	11.74	11.14
117 3 2	43	113.7	ON 338	23.2	-42.2	12.25	12.58	11.98	11.38
			OFF 334	28.7	-44.8	12.24	12.61	12.81	11.41
118 4 1	28	52.9	ON 336	18.6	-38.9	12.25	11.88	11.28	18.68
			OFF 337	13.3	-39.4	12.25	12.83	11.43	18.83
118 4 2	79	289.8	ON 338	28.9	-41.5	12.25	12.42	11.82	11.22
			OFF 332	38.9	-46.3	12.23	12.64	12.84	11.44
119 5 1	17	45.8	ON 338	14.2	-39.8	12.25	12.89	11.49	18.89
			OFF 338	16.5	-48.3	12.25	12.23	11.63	11.83
119 5 2	68	158.7	ON 335	26.8	-44.2	12.24	12.57	11.97	11.37
			OFF 328	34.1	-48.8	12.21	12.67	12.87	11.47
120 9 1	53	148.2	ON 348	21.7	-42.2	12.26	12.45	11.85	11.25
			OFF 336	28.4	-45.2	12.25	12.68	12.88	11.48
120 9 2	35	92.6	ON 319	48.1	-54.9	12.17	12.72	12.12	11.52
			OFF 311	43.7	-59.9	12.13	12.74	12.14	11.54
121 9 1	37	97.9	ON 336	28.8	-45.2	12.25	12.59	11.99	11.39
			OFF 332	32.4	-48.8	12.23	12.65	12.85	11.45
121 9 2	92	243.3	ON 338	33.6	-48.9	12.22	12.67	12.87	11.47
			OFF 311	43.5	-59.9	12.13	12.74	12.14	11.54
122 4 1	53	148.2	ON 332	32.1	-48.8	12.23	12.65	12.85	11.45
			OFF 323	38.1	-53.2	12.19	12.78	12.18	11.58
127 8 1	28	52.9	ON 348	28.3	-43.8	12.26	12.48	11.88	11.28
			OFF 339	22.8	-43.9	12.26	12.48	11.88	11.28
133 4 1	17	45.8	ON 336	3.6	-48.5	12.24	18.89	18.29	9.69
			OFF 337	5.9	-48.8	12.25	11.24	18.64	18.84
133 4 2	64	169.3	ON 339	9.1	-41.2	12.26	11.64	11.84	18.44

			OFF 348	17.3	-43.1	12.26	12.27	11.67	11.87		
133	4	3	19	58.3	ON 338	38.8	-49.5	12.22	12.64	12.84	11.44
					OFF 327	33.8	-51.2	12.28	12.66	12.86	11.46
134	5	1	26	68.8	ON 339	8.2	-41.2	12.26	11.54	18.94	18.34
					OFF 348	11.6	-41.8	12.26	11.89	11.29	18.69
134	5	2	79	289.8	ON 348	19.2	-43.9	12.26	12.36	11.76	11.16
					OFF 332	28.8	-48.4	12.23	12.61	12.81	11.41
135	8	1	39	183.2	ON 336	24.6	-46.3	12.24	12.53	11.93	11.33
					OFF 331	29.3	-49.8	12.22	12.62	12.82	11.42
136	8	8	14	37.8	ON 247	-46.6	286.4	11.88	8.88	8.88	8.88
					OFF 258	-45.6	289.6	11.82	8.88	8.88	8.88
136	8	1	82	216.9	ON 337	19.3	-44.3	12.25	12.36	11.76	11.16
					OFF 328	29.1	-49.1	12.21	12.61	12.81	11.41
137	7	1	97	256.6	ON 326	38.1	-49.9	12.28	12.63	12.83	11.43
					OFF 386	48.4	-68.4	12.11	12.72	12.12	11.52
141	6	1	68	158.7	ON 273	47.4	-82.8	11.94	12.75	12.15	11.55
					OFF 259	47.4	-97.3	11.87	12.75	12.15	11.55
143	6	1	19	58.3	ON 336	18.9	-45.4	12.24	12.35	11.75	11.15
					OFF 334	21.3	-46.3	12.24	12.44	11.84	11.24
148	8	1	65	171.9	ON 274	45.9	-79.9	11.95	12.75	12.15	11.55
					OFF 259	46.5	-94.8	11.87	12.75	12.15	11.55
148	8	2	17	45.8	ON 249	44.8	-185.3	11.81	12.74	12.14	11.54
					OFF 246	43.6	-189.8	11.79	12.74	12.14	11.54
149	8	1	36	95.2	ON 328	26.8	-49.8	12.21	12.56	11.96	11.36
					OFF 322	38.1	-52.5	12.18	12.63	12.83	11.43
149	8	2	78	185.1	ON 278	46.1	-82.9	11.93	12.75	12.15	11.55
					OFF 255	45.9	-99.8	11.84	12.75	12.15	11.55
158	5	1	27	71.4	ON 329	-4.4	-43.8	12.21	8.88	8.88	8.88
					OFF 332	-8.8	-43.1	12.23	8.88	8.88	8.88
158	5	2	26	68.8	ON 337	6.1	-43.6	12.25	11.27	18.67	18.87
					OFF 338	9.4	-44.1	12.25	11.67	11.87	18.47
158	5	3	45	119.8	ON 333	21.8	-47.5	12.23	12.43	11.83	11.23
					OFF 327	26.3	-58.2	12.21	12.56	11.96	11.36
151	4	1	31	82.8	ON 332	22.2	-48.2	12.23	12.47	11.87	11.27
					OFF 327	25.8	-58.1	12.21	12.56	11.96	11.36
152	7	1	76	281.8	ON 332	22.8	-48.6	12.23	12.48	11.88	11.28
					OFF 318	31.3	-54.2	12.17	12.64	12.84	11.44
153	5	1	31	82.8	ON 332	22.5	-48.7	12.23	12.47	11.87	11.27
					OFF 327	26.8	-58.6	12.21	12.56	11.96	11.36
153	5	2	41	188.4	ON 324	27.8	-51.7	12.19	12.59	11.99	11.39
					OFF 316	32.3	-55.3	12.16	12.65	12.85	11.45
154	4	1	65	171.9	ON 328	25.8	-58.2	12.21	12.54	11.94	11.34
					OFF 316	32.1	-55.3	12.15	12.65	12.85	11.45
157	6	1	72	198.4	ON 285	41.4	-69.6	12.81	12.73	12.13	11.53
					OFF 268	44.9	-83.5	11.92	12.74	12.14	11.54
158	6	1	22	58.2	ON 241	48.7	-111.8	11.76	12.72	12.12	11.52
					OFF 238	38.6	-116.8	11.75	12.71	12.11	11.51
159	6	1	16	42.3	ON 334	18.8	-47.9	12.24	12.38	11.78	11.18
					OFF 333	19.9	-48.6	12.23	12.39	11.79	11.19
161	5	1	27	71.4	ON 314	-15.7	-45.8	12.15	8.88	8.88	8.88
					OFF 328	-12.3	-45.4	12.17	8.88	8.88	8.88

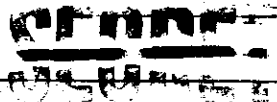
161 5 2 49 129.6 ON 327 -7.4 -45.8 12.21 8.88 8.88 8.88  
 OFF 334 -1.2 -44.8 12.24 8.88 8.88 8.88

PHOTOGRAPHIC SUMMARY

AFT PAN CAMERA NO		142	0.1758	SLIT	W/21	FILTER	3484 FILM		
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI
79	7 1	4	18.6	ON 336	32.4 -38.8	12.24	12.65	12.85	11.45
				OFF 336	33.8 -39.1	12.24	12.66	12.86	11.46
81	8 8	5	13.2	ON 231	7.3 -32.9	11.71	11.43	18.83	18.23
				OFF 231	8.6 -33.8	11.71	11.59	18.99	18.39
84	3 1	53	148.2	ON 312	-7.2 -34.3	12.14	8.88	8.88	8.88
				OFF 323	1.8 -33.4	12.19	18.42	9.82	9.22
84	3 2	39	183.2	ON 332	9.8 -33.5	12.23	11.63	11.83	18.43
				OFF 336	14.7 -34.2	12.24	12.12	11.52	18.92
84	3 3	17	45.8	ON 338	28.3 -35.4	12.25	12.48	11.88	11.28
				OFF 338	22.7 -36.8	12.25	12.48	11.88	11.28
86	1 1	21	55.5	ON 325	1.3 -33.7	12.19	18.47	9.87	9.27
				OFF 328	4.5 -33.7	12.21	11.83	18.43	9.83
86	1 2	48	185.8	ON 334	11.8 -34.1	12.23	11.84	11.24	18.64
				OFF 337	16.7 -34.9	12.25	12.24	11.64	11.84
86	1 3	28	52.9	ON 338	21.8 -36.1	12.25	12.45	11.85	11.25
				OFF 338	24.6 -37.8	12.25	12.53	11.93	11.33
86	1 4	62	164.8	ON 337	27.3 -38.8	12.25	12.58	11.98	11.38
				OFF 332	35.5 -42.1	12.23	12.68	12.88	11.48
86	1 5	18	47.6	ON 383	52.2 -63.8	12.18	12.75	12.15	11.55
				OFF 299	53.7 -67.2	12.87	12.75	12.15	11.55
87	7 1	28	52.9	ON 337	17.3 -35.2	12.25	12.27	11.67	11.87
				OFF 338	28.2 -35.9	12.25	12.48	11.88	11.28
87	7 2	26	68.8	ON 336	29.6 -39.2	12.25	12.62	12.82	11.42
				OFF 334	33.8 -48.9	12.24	12.66	12.86	11.46
87	7 3	66	174.6	ON 332	35.9 -42.7	12.23	12.69	12.89	11.49
				OFF 321	44.8 -49.7	12.18	12.74	12.14	11.54
89	8 8	13	34.4	ON 241	-51.7 296.8	11.77	8.88	8.88	8.88
				OFF 243	-58.2 388.2	11.78	8.88	8.88	8.88
89	8 1	53	148.2	ON 332	42.1 -48.2	12.23	12.73	12.13	11.53
				OFF 322	48.8 -55.8	12.18	12.75	12.15	11.55
89	8 2	58	132.3	ON 312	51.9 -63.8	12.14	12.75	12.15	11.55
				OFF 298	55.2 -76.1	12.87	12.75	12.15	11.55
98	7 1	58	153.4	ON 286	56.2 -87.1	12.81	12.75	12.15	11.55
				OFF 273	54.9 -184.5	11.95	12.75	12.15	11.55
94	3 1	17	45.8	ON 343	22.8 -37.9	12.27	12.48	11.88	11.28
				OFF 343	25.1 -38.7	12.27	12.54	11.94	11.34
94	3 2	47	124.3	ON 265	52.4 -111.7	11.98	12.75	12.15	11.55
				OFF 255	47.7 -122.6	11.85	12.75	12.15	11.55
95	3 1	19	58.3	ON 342	27.5 -39.9	12.27	12.59	11.99	11.39
				OFF 341	38.1 -41.1	12.27	12.63	12.83	11.43
181	8 1	23	68.8	ON 388	51.9 -71.8	12.88	12.75	12.15	11.55
				OFF 294	53.2 -76.7	12.85	12.75	12.15	11.55
181	8 2	48	127.8	ON 287	54.8 -82.8	12.82	12.75	12.15	11.55
				OFF 276	54.1 -96.4	11.96	12.75	12.15	11.55

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 1 27 218 2

182 7 1	39	183.2	ON 341	14.9	-37.4	12.27	12.14	11.54	18.94
			OFF 343	28.2	-38.7	12.27	12.48	11.88	11.28
182 7 2	81	214.2	ON 343	22.5	-39.4	12.27	12.48	11.88	11.28
			OFF 338	32.9	-44.2	12.25	12.66	12.86	11.46
182 7 3	19	58.3	ON 319	45.8	-57.1	12.17	12.75	12.15	11.55
			OFF 315	47.6	-68.3	12.15	12.75	12.15	11.55
183 4 1	17	45.8	ON 334	5.8	-36.5	12.23	11.11	18.51	9.91
			OFF 336	7.4	-36.6	12.24	11.45	18.85	18.25
183 4 2	17	45.8	ON 339	18.8	-37.8	12.26	11.82	11.22	18.62
			OFF 348	13.3	-37.3	12.26	12.82	11.42	18.82
183 4 3	46	121.7	ON 341	28.3	-41.9	12.27	12.68	12.88	11.48
			OFF 337	34.1	-45.2	12.25	12.67	12.87	11.47
184 8 1	188	285.7	ON 342	28.6	-42.2	12.27	12.68	12.88	11.48
			OFF 328	41.5	-52.8	12.21	12.73	12.13	11.53
185 3 1	17	45.8	ON 335	3.8	-36.8	12.24	18.92	18.32	9.72
			OFF 337	6.3	-36.9	12.25	11.38	18.78	18.18
185 3 2	111	293.6	ON 338	34.3	-45.8	12.25	12.67	12.87	11.47
			OFF 317	46.5	-59.3	12.16	12.75	12.15	11.55
186 5 1	49	129.6	ON 337	34.8	-46.4	12.25	12.68	12.88	11.48
			OFF 329	48.4	-51.4	12.21	12.72	12.12	11.52
118 9 1	28	52.9	ON 344	28.5	-48.2	12.28	12.41	11.81	11.21
			OFF 344	23.1	-41.1	12.28	12.49	11.89	11.29
111 1 8	15	39.7	ON 344	21.7	-48.8	12.28	12.45	11.85	11.25
			OFF 344	23.6	-41.5	12.28	12.51	11.91	11.31
117 3 1	58	153.4	ON 342	18.2	-39.2	12.27	11.76	11.16	18.56
			OFF 344	17.9	-48.8	12.28	12.38	11.78	11.18
117 3 2	44	116.4	ON 344	22.4	-42.2	12.28	12.47	11.87	11.27
			OFF 341	28.8	-44.6	12.26	12.59	11.99	11.39
118 4 1	28	52.9	ON 342	9.8	-39.4	12.27	11.71	11.11	18.51
			OFF 343	12.5	-39.8	12.28	11.96	11.36	18.76
118 4 2	88	211.6	ON 344	28.1	-41.6	12.28	12.39	11.79	11.19
			OFF 338	38.1	-46.8	12.25	12.63	12.83	11.43
119 5 1	17	45.8	ON 344	13.4	-48.1	12.28	12.83	11.43	18.83
			OFF 344	15.7	-48.5	12.28	12.18	11.58	18.98
119 5 2	61	161.3	ON 342	26.8	-44.1	12.27	12.56	11.96	11.36
			OFF 334	33.4	-48.4	12.24	12.66	12.86	11.46
128 9 1	54	142.8	ON 344	28.9	-42.2	12.28	12.43	11.83	11.23
			OFF 348	27.6	-45.8	12.26	12.59	11.99	11.39
128 9 2	35	92.6	ON 323	39.5	-54.3	12.19	12.71	12.11	11.51
			OFF 315	43.1	-59.8	12.15	12.73	12.13	11.53
121 9 1	37	97.9	ON 348	27.2	-45.8	12.26	12.58	11.98	11.38
			OFF 336	31.7	-47.7	12.24	12.65	12.85	11.45
121 9 2	94	248.6	ON 334	32.9	-48.5	12.24	12.66	12.86	11.46
			OFF 315	42.8	-59.1	12.15	12.73	12.13	11.53
122 4 1	54	142.8	ON 336	31.3	-47.6	12.24	12.64	12.84	11.44
			OFF 326	37.4	-52.7	12.28	12.78	12.18	11.58
127 8 1	28	52.9	ON 344	19.5	-43.8	12.28	12.37	11.77	11.17
			OFF 343	22.8	-43.9	12.27	12.46	11.86	11.26
133 4 1	17	45.8	ON 348	2.8	-41.3	12.26	18.75	18.15	9.55
			OFF 341	5.1	-41.4	12.27	11.13	18.53	9.93
133 4 2	65	171.9	ON 343	8.3	-41.6	12.27	11.55	18.95	18.35



				OFF 344	16.5	-43.2	12.28	12.23	11.63	11.83
133	4	3	19	58.3 ON 333	38.1	-49.2	12.23	12.63	12.83	11.43
				OFF 338	32.3	-58.8	12.22	12.65	12.85	11.45
134	5	1	27	71.4 ON 343	7.4	-41.7	12.27	11.44	18.84	18.24
				OFF 344	18.9	-42.2	12.28	11.82	11.22	18.62
134	5	2	79	289.8 ON 343	18.4	-43.9	12.28	12.33	11.73	11.13
				OFF 336	28.1	-48.2	12.24	12.68	12.88	11.48
135	8	1	48	185.8 ON 348	23.9	-46.2	12.26	12.51	11.91	11.31
				OFF 335	28.6	-48.7	12.24	12.68	12.88	11.48
136	8	8	14	37.8 ON 251	-46.9	284.8	11.82	8.88	8.88	8.88
				OFF 253	-46.8	287.9	11.84	8.88	8.88	8.88
136	8	1	83	219.5 ON 342	18.5	-44.3	12.27	12.33	11.73	11.13
				OFF 334	28.4	-48.8	12.24	12.68	12.88	11.48
137	7	1	99	261.9 ON 332	29.4	-49.6	12.23	12.62	12.82	11.42
				OFF 311	39.7	-59.7	12.13	12.72	12.12	11.52
141	6	1	61	161.3 ON 278	47.2	-81.4	11.97	12.75	12.15	11.55
				OFF 264	47.5	-95.6	11.98	12.75	12.15	11.55
143	6	1	28	52.9 ON 341	18.2	-45.4	12.27	12.32	11.72	11.12
				OFF 348	28.6	-46.3	12.26	12.41	11.81	11.21
148	8	1	66	174.6 ON 279	45.6	-78.6	11.98	12.74	12.14	11.54
				OFF 264	46.6	-93.1	11.98	12.75	12.15	11.55
148	8	2	18	47.6 ON 254	45.1	-183.5	11.84	12.74	12.14	11.54
				OFF 251	44.8	-187.2	11.82	12.74	12.14	11.54
149	8	1	36	95.2 ON 333	25.3	-49.6	12.23	12.55	11.95	11.35
				OFF 327	29.4	-52.2	12.21	12.62	12.82	11.42
149	8	2	71	187.8 ON 275	45.9	-81.5	11.96	12.75	12.15	11.55
				OFF 259	46.8	-97.3	11.87	12.75	12.15	11.55
150	5	1	28	74.1 ON 335	-5.1	-44.4	12.24	8.88	8.88	8.88
				OFF 338	-1.6	-44.1	12.25	8.88	8.88	8.88
150	5	2	26	68.8 ON 343	5.3	-44.1	12.27	11.16	18.56	9.96
				OFF 343	8.6	-44.4	12.28	11.59	18.99	18.39
150	5	3	46	121.7 ON 339	28.2	-47.4	12.26	12.48	11.88	11.28
				OFF 333	25.6	-49.9	12.23	12.55	11.95	11.35
151	4	1	31	82.8 ON 337	21.5	-48.1	12.25	12.44	11.84	11.24
				OFF 333	25.1	-49.9	12.23	12.54	11.94	11.34
152	7	1	77	283.7 ON 335	22.8	-48.5	12.24	12.46	11.86	11.26
				OFF 321	38.6	-53.8	12.18	12.63	12.83	11.43
153	5	1	31	82.8 ON 335	21.7	-48.6	12.24	12.45	11.85	11.25
				OFF 338	25.3	-58.4	12.22	12.55	11.95	11.35
153	5	2	42	111.1 ON 327	27.1	-51.4	12.21	12.58	11.98	11.38
				OFF 319	31.6	-54.8	12.17	12.64	12.84	11.44
154	4	1	65	171.9 ON 331	24.3	-58.8	12.22	12.52	11.92	11.32
				OFF 319	31.4	-54.9	12.17	12.64	12.84	11.44
157	6	1	72	198.4 ON 288	48.9	-68.7	12.82	12.72	12.12	11.52
				OFF 271	44.7	-82.1	11.93	12.74	12.14	11.54
158	6	1	23	68.8 ON 244	41.2	-189.9	11.78	12.72	12.12	11.52
				OFF 248	39.2	-113.9	11.76	12.71	12.11	11.51
159	6	1	16	42.3 ON 337	17.2	-47.9	12.25	12.27	11.67	11.87
				OFF 336	19.1	-48.6	12.24	12.36	11.76	11.16
161	5	1	27	71.4 ON 317	-16.4	-49.5	12.16	8.88	8.88	8.88
				OFF 323	-13.8	-48.1	12.19	8.88	8.88	8.88



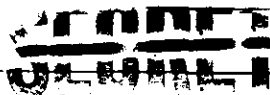
5g 132.3 ON 33g -8.2 -46.7 12.22 8.88 8.88 8.88  
 OFF 337 -2.8 -45.8 12.25 8.88 8.88 8.88

STELLAR-INDEX SUMMARY

CAMERA DATA ET FILM FILTER GRID ASSEMBLY NO D78  
 STELLAR 2.8 3481 NONE 88  
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PERFORMANCE SUMMARY

OPN NO	FR	STEL FEET	INDX FEET	H	M	S	Q	ON LAT	ON LONG	OFF Q	OFF LAT	OFF LONG	SEC DUR
79	7 1	0.18	0.28	16	1	14	2	38	188W	2	29	188W	18
84	3 1	0.79	1.58	23	18	17	2	71	97E	2	64	115E	145
84	3 2	0.58	0.99	23	23	8	2	56	125E	2	58	138E	181
84	3 3	0.38	0.59	23	26	21	2	44	133E	2	41	134E	44
86	1 1	0.38	0.59	2	28	17	2	64	71E	2	68	75E	56
86	1 2	0.58	0.99	2	23	8	2	54	82E	2	47	86E	181
86	1 3	0.38	0.59	2	26	19	2	42	89E	2	38	98E	52
86	1 4	0.89	1.78	2	28	8	2	35	91E	2	25	94E	157
86	1 5	0.38	0.59	2	37	13	2	8	188E	3	3	181E	51
87	7 1	0.28	0.48	3	54	45	2	46	64E	2	43	65E	51
87	7 2	0.48	0.79	3	58	38	2	32	78E	2	28	71E	66
87	7 3	0.89	1.78	4	8	32	2	24	72E	2	13	75E	171
89	8 8	0.28	0.48	6	31	49	1	38	126W	1	41	125W	47
89	8 1	0.69	1.39	7	2	15	2	15	29E	2	6	31E	141
89	8 2	0.69	1.39	7	6	31	3	1	32E	3	18	34E	143
98	7 1	0.89	1.78	8	48	32	3	17	13E	3	29	16E	178
94	3 1	0.28	0.48	14	24	43	2	39	98W	2	36	89W	43
94	3 2	0.59	1.19	14	43	58	3	35	71W	3	45	67W	155
95	3 1	0.38	0.59	15	55	57	2	33	111W	2	38	118W	58
181	8 1	0.38	0.59	1	4	37	3	7	122E	3	11	123E	68
181	8 2	0.69	1.39	1	6	53	3	16	124E	3	25	126E	147
182	7 1	0.59	1.19	2	28	18	2	47	84E	2	41	87E	99
182	7 2	1.89	2.18	2	22	48	2	38	88E	2	25	92E	283
182	7 3	0.28	0.48	2	31	1	2	5	97E	2	2	97E	51
183	4 1	0.38	0.59	3	47	1	2	58	53E	2	55	56E	45
183	4 2	0.28	0.48	3	48	48	2	52	59E	2	49	68E	45
183	4 3	0.69	1.39	3	54	17	2	31	68E	2	23	78E	119
184	8 1	1.48	2.97	5	24	8	2	38	46E	2	12	58E	278
185	3 1	0.28	0.48	6	46	8	2	59	7E	2	56	18E	46
185	3 2	1.58	3.17	6	55	58	2	22	25E	2	3	29E	292
186	5 1	0.69	1.39	8	25	47	2	21	3E	2	13	5E	127
118	9 1	0.38	0.59	14	28	2	2	39	92W	2	36	91W	58
111	1 8	0.28	0.48	15	58	9	2	37	114W	2	35	113W	38
117	3 1	0.79	1.58	8	44	57	2	58	183E	2	41	188E	147
117	3 2	0.59	1.19	8	48	52	2	35	118E	2	28	112E	112
118	4 1	0.38	0.59	2	14	33	2	51	88E	2	47	82E	51
118	4 2	1.89	2.18	2	17	58	2	38	86E	2	25	98E	283
119	5 1	0.38	0.59	3	45	25	2	46	68E	2	43	61E	43
119	5 2	0.79	1.58	3	49	33	2	38	66E	2	28	69E	157
128	9 1	0.79	1.58	5	17	36	2	37	41E	2	28	44E	135



121	9	1	5	8.58	8.99	5	24	19	2	18	48E	2	4	58E	96
121	9	1	5	8.58	8.99	6	49	28	2	28	21E	2	22	23E	96
121	9	2	13	1.29	2.57	6	51	29	2	28	24E	2	4	27E	248
122	4	1	8	8.79	1.58	8	28	48	2	22	8E	2	13	3E	141
127	8	1	3	8.38	8.59	15	45	17	2	37	116W	2	34	115W	51
133	4	1	2	8.28	8.48	8	38	11	2	57	96E	2	54	98E	45
133	4	2	9	8.89	1.78	8	39	58	2	58	181E	2	48	186E	163
133	4	3	3	8.38	8.59	8	47	27	2	21	112E	2	18	113E	58
134	5	1	4	8.48	8.79	2	9	23	2	51	78E	2	47	88E	68
134	5	2	11	1.89	2.18	2	13	4	2	37	85E	2	24	89E	284
135	8	1	6	8.59	1.19	3	44	48	2	29	64E	2	23	66E	183
136	8	8	2	8.28	8.48	4	47	37	1	38	189W	1	41	188W	47
136	8	1	11	1.89	2.18	5	12	33	2	37	39E	2	23	44E	211
137	7	1	14	1.39	2.77	6	46	9	2	21	21E	2	4	25E	263
141	6	1	9	8.89	1.78	12	55	11	3	18	59W	3	31	56W	195
143	6	1	2	8.28	8.48	15	48	31	2	35	118W	2	32	116W	51
148	8	1	18	8.99	1.98	23	22	22	3	16	141E	3	38	144E	218
148	8	2	2	8.28	8.48	23	28	25	3	48	148E	3	43	149E	68
149	8	1	5	8.58	8.99	8	41	28	2	24	189E	2	18	111E	96
149	8	2	18	8.99	1.98	8	52	47	3	19	119E	3	34	123E	228
158	5	1	4	8.48	8.79	2	8	35	2	63	63E	2	59	68E	72
158	5	2	4	8.48	8.79	2	4	7	2	51	76E	2	47	78E	67
158	5	3	6	8.59	1.19	2	9	18	2	31	85E	2	23	87E	119
151	4	1	5	8.58	8.99	3	39	29	2	29	63E	2	24	64E	81
152	7	1	11	1.89	2.18	5	9	25	2	28	48E	2	15	44E	282
153	5	1	4	8.48	8.79	6	39	2	2	28	18E	2	23	19E	81
153	5	2	6	8.59	1.19	6	41	3	2	28	28E	2	13	21E	112
154	4	1	9	8.89	1.78	8	9	42	2	24	3W	2	13	8W	173
157	6	1	18	8.99	1.98	12	46	45	3	6	64W	3	21	61W	223
158	6	1	4	8.48	8.79	14	27	31	3	49	73W	3	54	78W	88
159	6	1	2	8.28	8.48	15	35	41	2	33	119W	2	38	118W	42
161	5	1	4	8.48	8.79	18	23	14	2	73	143E	2	71	157E	73
161	5	2	7	8.69	1.39	18	26	18	2	66	171E	2	58	178W	138

NOTE - THE BALANCE OF OPERATION 879-87-1 IS CONTAINED IN THE A MISSION RECOVERY BUCKET.

NOTE - OPERATION 881-88-8 IS THE CUT AND WRAP OPERATION WHICH OCCURRED ON REV 881 AT THE TIME OF SEPARATION.

NOTE - DUE TO THE NECESSITY TO BIAS THE H-TIMER FOR RECOVERY OPERATIONS 159-86-1, 161-85-1, AND 161-85-2 DID NOT COVER THE PROGRAMMED LATITUDES.

NOTE - T/M DATA INDICATE ALL SYSTEMS OPERATED NORMALLY.

NOTE - MISSION 1825 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 -

UNIT

~~SECRET~~

- (1) AT THE DESCENDING NODE THE STELLAR CAMERA NOW LOOKS WESTWARD INSTEAD OF EASTWARD.
- (2) THE MASTER PAN CAMERA, INSTRUMENT 142, IS THE AFT LOOKING CAMERA AND THE SLAVE PAN CAMERA, INSTRUMENT 127, IS THE FORWARD LOOKING CAMERA.

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~~SECRET~~

A. 1025-2 LAUNCHED AT 1746Z ON 10/05/65

B. DRY

C. PERFORMANCE ESTIMATE - PART TWO

**SECRET**

RATE ESTIMATE

FWD PAN CAMERA NUMBER 127

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG VEL	SCAN RATE R/SEC I/SEC	PCT RATE CALIB REOD
79	7	1	4	7	7 ON 2064	0.3865	0.83261 2.428 58.28	-3.8 -2.1
					OFF 18	0.3862	0.83259 2.427 58.24	-3.8 -2.2
81	8	8	5	7	7 ON 2064	0.2654	0.82239 1.667 48.82	-3.8 -44.8
					OFF 23	0.2654	0.82239 1.667 48.82	-3.8 -45.4
84	3	1	53	7	7 ON 1382	0.3591	0.83838 2.256 54.15	-3.8 -2.9
					OFF 145	0.3728	0.83139 2.337 56.18	-3.8 -1.9
84	3	2	39	7	7 ON 1665	0.3817	0.83221 2.398 57.56	-3.8 -1.3
					OFF 181	0.3861	0.83258 2.426 58.22	-3.8 -1.3
84	3	3	17	7	7 ON 1866	0.3885	0.83278 2.441 58.58	-3.8 -1.4
					OFF 44	0.3888	0.83281 2.443 58.63	-3.8 -1.5
86	1	1	21	7	7 ON 1548	0.3733	0.83158 2.345 56.29	-3.8 -1.8
					OFF 56	0.3772	0.83182 2.378 56.88	-3.8 -1.6
86	1	2	39	7	7 ON 1711	0.3848	0.83248 2.413 57.98	-3.8 -1.3
					OFF 181	0.3874	0.83269 2.434 58.42	-3.8 -1.3
86	1	3	28	7	7 ON 1983	0.3888	0.83288 2.443 58.63	-3.8 -1.5
					OFF 52	0.3887	0.83288 2.442 58.61	-3.8 -1.7
86	1	4	61	7	7 ON 2883	0.3888	0.83274 2.438 58.51	-3.8 -1.9
					OFF 157	0.3825	0.83228 2.484 57.69	-3.8 -2.5
86	1	5	18	7	7 ON 2556	0.3486	0.82942 2.198 52.57	-3.8 -4.4
					OFF 51	0.3432	0.82896 2.156 51.76	-3.8 -4.4
87	7	1	19	7	7 ON 1827	0.3878	0.83273 2.437 58.49	-3.8 -1.3
					OFF 51	0.3886	0.83279 2.442 58.68	-3.8 -1.4
87	7	2	25	7	7 ON 2852	0.3868	0.83264 2.431 58.33	-3.8 -2.1
					OFF 66	0.3846	0.83245 2.416 57.99	-3.8 -2.3
87	7	3	64	7	7 ON 2174	0.3817	0.83228 2.398 57.55	-3.8 -2.6
					OFF 171	0.3698	0.83128 2.323 55.76	-3.8 -3.4
89	8	8	13	7	7 ON 428	0.2766	0.82334 1.738 41.72	-3.8 -18.8
					OFF 47	0.2798	0.82354 1.753 42.87	-3.8 -11.8
89	8	1	52	7	7 ON 2254	0.3798	0.83198 2.381 57.15	-2.4 -1.4
					OFF 141	0.3676	0.83182 2.318 55.43	-2.4 -1.6
89	8	2	58	7	7 ON 2511	0.3557	0.83881 2.235 53.64	-2.4 -1.8
					OFF 143	0.3488	0.82869 2.136 51.27	-2.4 -1.9
98	7	1	57	7	7 ON 2772	0.3265	0.82755 2.852 49.24	-2.4 -1.9
					OFF 178	0.3112	0.82626 1.955 46.93	-2.4 -8.1
94	3	1	16	7	7 ON 1898	0.3912	0.83381 2.458 58.99	-2.4 -8.9
					OFF 43	0.3912	0.83381 2.458 58.99	-2.4 -8.9
94	3	2	46	7	7 ON 3854	0.3823	0.82551 1.988 45.59	-2.4 8.9
					OFF 155	0.2989	0.82455 1.828 43.87	-2.4 2.6
95	3	1	19	7	7 ON 1993	0.3986	0.83296 2.454 58.98	-2.4 -8.8
					OFF 58	0.3896	0.83287 2.448 58.75	-2.4 -8.9
181	8	1	23	7	7 ON 2629	0.3425	0.82898 2.152 51.65	-2.4 -1.9
					OFF 68	0.3349	0.82825 2.184 58.58	-2.4 -1.9
181	8	2	47	7	7 ON 2764	0.3272	0.82761 2.856 49.34	-2.4 -1.9

**SECRET**

**SECRET**

				OFF	147	0.3145	0.02654	1.976	47.43	-2.4	-0.5	
102	7	1	38	7	7 ON	1788	0.3893	0.03285	2.446	58.78	-2.4	-0.7
				OFF	99	0.3911	0.03388	2.457	58.97	-2.4	-0.6	
102	7	2	79	7	7 ON	1938	0.3912	0.03381	2.458	58.99	-2.4	-0.6
				OFF	283	0.3863	0.03259	2.427	58.25	-2.4	-0.7	
102	7	3	18	7	7 ON	2431	0.3639	0.03078	2.286	54.87	-2.4	-1.4
				OFF	51	0.3598	0.03029	2.256	54.14	-2.4	-1.4	
103	4	1	17	7	7 ON	1613	0.3809	0.03214	2.393	57.44	-2.4	-1.4
				OFF	45	0.3835	0.03235	2.409	57.82	-2.4	-1.2	
103	4	2	17	7	7 ON	1728	0.3868	0.03263	2.438	58.32	-2.4	-0.9
				OFF	45	0.3884	0.03277	2.441	58.57	-2.4	-0.8	
103	4	3	46	7	7 ON	2049	0.3893	0.03285	2.446	58.71	-2.4	-0.7
				OFF	119	0.3846	0.03245	2.416	57.99	-2.4	-0.8	
104	8	1	105	7	7 ON	2068	0.3909	0.03299	2.456	58.95	-1.9	-0.2
				OFF	278	0.3746	0.03168	2.353	56.48	-1.9	-0.7	
105	3	1	18	7	7 ON	1608	0.3819	0.03223	2.408	57.59	-1.9	-0.9
				OFF	46	0.3847	0.03246	2.417	58.01	-1.9	-0.7	
105	3	2	111	7	7 ON	2182	0.3855	0.03253	2.422	58.13	-1.9	-0.4
				OFF	292	0.3616	0.03051	2.272	54.53	-1.9	-1.0	
106	5	1	48	7	7 ON	2199	0.3845	0.03244	2.416	57.98	-1.9	-0.4
				OFF	127	0.3756	0.03169	2.368	56.64	-1.9	-0.7	
110	9	1	19	7	7 ON	1936	0.3932	0.03317	2.478	59.29	-1.9	-0.8
				OFF	58	0.3927	0.03314	2.468	59.22	-1.9	-0.1	
111	1	0	14	7	7 ON	1962	0.3938	0.03316	2.469	59.26	-1.9	-0.8
				OFF	38	0.3925	0.03312	2.466	59.19	-1.9	-0.8	
117	3	1	57	7	7 ON	1775	0.3908	0.03298	2.456	58.93	-1.9	-0.1
				OFF	147	0.3932	0.03318	2.478	59.29	-1.9	0.1	
117	3	2	43	7	7 ON	2018	0.3923	0.03318	2.465	59.15	-1.9	0.0
				OFF	112	0.3888	0.03288	2.443	58.62	-1.9	-0.2	
118	4	1	20	7	7 ON	1772	0.3907	0.03297	2.455	58.92	-1.9	-0.1
				OFF	51	0.3921	0.03308	2.463	59.12	-1.9	0.0	
118	4	2	79	7	7 ON	1970	0.3929	0.03315	2.469	59.25	-1.9	0.1
				OFF	203	0.3862	0.03259	2.427	58.24	-1.9	-0.3	
119	5	1	17	7	7 ON	1844	0.3925	0.03312	2.466	59.19	-1.9	0.1
				OFF	43	0.3938	0.03316	2.478	59.27	-1.9	0.1	
119	5	2	60	7	7 ON	2092	0.3898	0.03289	2.449	58.79	-1.9	-0.1
				OFF	157	0.3815	0.03219	2.397	57.53	-1.9	-0.4	
120	9	1	53	7	7 ON	1995	0.3951	0.03334	2.483	59.58	-1.2	0.7
				OFF	135	0.3909	0.03298	2.456	58.95	-1.2	0.5	
120	9	2	35	7	7 ON	2398	0.3713	0.03133	2.333	55.99	-1.2	-0.3
				OFF	96	0.3619	0.03054	2.274	54.58	-1.2	-0.5	
121	9	1	37	7	7 ON	2127	0.3909	0.03298	2.456	58.95	-1.2	0.5
				OFF	96	0.3857	0.03255	2.424	58.17	-1.2	0.3	
121	9	2	92	7	7 ON	2248	0.3838	0.03238	2.412	57.88	-1.2	0.2
				OFF	248	0.3618	0.03053	2.273	54.55	-1.2	-0.5	
122	4	1	53	7	7 ON	2221	0.3857	0.03254	2.423	58.16	-1.2	0.3
				OFF	141	0.3758	0.03164	2.356	56.55	-1.2	-0.1	
127	8	1	20	7	7 ON	2001	0.3958	0.03333	2.482	59.56	-1.2	0.8
				OFF	51	0.3938	0.03323	2.475	59.39	-1.2	0.8	
133	4	1	17	7	7 ON	1782	0.3904	0.03294	2.453	58.87	-1.2	0.4
				OFF	45	0.3922	0.03318	2.465	59.15	-1.2	0.5	

**SECRET**

133	4	2	64	7	7	ON	1888	0.3944	0.83327	2.478	59.47	-1.2	8.6
						OFF	163	0.3955	0.83337	2.485	59.64	-1.2	8.9
133	4	3	19	7	7	ON	2258	0.3831	0.83233	2.487	57.77	-1.2	8.2
						OFF	58	0.3795	0.83282	2.385	57.23	-1.2	8.1
134	5	1	26	7	7	ON	1795	0.3948	0.83324	2.475	59.41	-1.2	8.7
						OFF	68	0.3954	0.83336	2.484	59.62	-1.2	8.9
134	5	2	79	7	7	ON	2015	0.3947	0.83331	2.488	59.52	-1.2	8.9
						OFF	204	0.3868	0.83257	2.425	58.21	-1.2	8.4
135	8	1	39	7	7	ON	2133	0.3986	0.83296	2.454	58.98	-1.2	8.6
						OFF	183	0.3848	0.83247	2.418	58.83	-1.2	8.4
136	8	8	14	7	7	ON	532	0.2875	0.82426	1.887	43.36	-1.2	-11.4
						OFF	47	0.2984	0.82458	1.824	43.79	-1.2	-11.4
136	8	1	82	7	7	ON	2028	0.3913	0.83382	2.458	59.88	-2.8	8.1
						OFF	211	0.3816	0.83228	2.398	57.54	-2.8	-8.4
137	7	1	97	7	7	ON	2267	0.3794	0.83282	2.384	57.22	-2.8	-8.6
						OFF	263	0.3553	0.82998	2.232	53.57	-2.8	-1.5
141	6	1	68	7	7	ON	2894	0.3168	0.82673	1.991	47.78	-2.8	-1.2
						OFF	195	0.3888	0.82538	1.898	45.36	-2.8	8.6
143	6	1	19	7	7	ON	2859	0.3984	0.83294	2.453	58.87	-2.8	8.1
						OFF	51	0.3887	0.83288	2.442	58.61	-2.8	-8.8
148	8	1	65	7	7	ON	2879	0.3182	0.82685	1.999	47.98	-2.8	-1.4
						OFF	218	0.3889	0.82539	1.891	45.37	-2.8	8.5
148	8	2	17	7	7	ON	3242	0.2894	0.82442	1.819	43.64	-2.8	1.9
						OFF	68	0.2857	0.82411	1.795	43.89	-2.8	2.6
149	8	1	36	7	7	ON	2246	0.3889	0.83214	2.393	57.44	-2.8	-8.3
						OFF	96	0.3737	0.83153	2.348	56.35	-2.8	-8.6
149	8	2	70	7	7	ON	2925	0.3142	0.82651	1.974	47.38	-2.8	-1.1
						OFF	228	0.2968	0.82497	1.868	44.63	-2.8	1.1
150	5	1	27	7	7	ON	1616	0.3824	0.83227	2.483	57.67	-2.8	-8.9
						OFF	72	0.3864	0.83261	2.428	58.27	-2.8	-8.5
150	5	2	26	7	7	ON	1828	0.3917	0.83385	2.461	59.86	-2.8	8.2
						OFF	67	0.3925	0.83312	2.466	59.19	-2.8	8.3
150	5	3	45	7	7	ON	2139	0.3872	0.83267	2.433	58.39	-2.8	8.8
						OFF	119	0.3883	0.83289	2.389	57.34	-2.8	-8.3
151	4	1	31	7	7	ON	2173	0.3855	0.83253	2.422	58.13	-2.8	-8.1
						OFF	81	0.3886	0.83211	2.391	57.39	-2.8	-8.3
152	7	1	76	7	7	ON	2191	0.3854	0.83252	2.421	58.12	-1.8	8.1
						OFF	282	0.3781	0.83123	2.325	55.81	-1.8	-8.6
153	5	1	31	7	7	ON	2191	0.3854	0.83252	2.422	58.12	-1.8	8.1
						OFF	81	0.3882	0.83288	2.389	57.33	-1.8	-8.1
153	5	2	41	7	7	ON	2312	0.3768	0.83188	2.368	56.83	-1.8	-8.3
						OFF	112	0.3671	0.83897	2.386	55.35	-1.8	-8.7
154	4	1	65	7	7	ON	2253	0.3813	0.83217	2.396	57.58	-1.8	-8.1
						OFF	173	0.3669	0.83895	2.385	55.32	-1.8	-8.7
157	6	1	72	7	7	ON	2745	0.3389	0.82792	2.879	49.89	-1.8	-2.2
						OFF	223	0.3116	0.82629	1.958	46.98	-1.8	-8.6
158	6	1	22	7	7	ON	3414	0.2799	0.82362	1.759	42.21	-1.8	3.7
						OFF	88	0.2763	0.82331	1.736	41.66	-1.8	4.7
159	6	1	10	7	7	ON	2127	0.3888	0.83288	2.443	58.62	-1.8	8.4
						OFF	42	0.3868	0.83264	2.438	58.32	-1.8	8.3
161	5	1	27	7	7	ON	1396	0.3649	0.83879	2.293	55.83	-1.8	-3.7

OFF 73 0.3716 0.03136 2.335 56.84 -1.8 -2.7  
161 5 2 49 7 7 ON 1572 0.3884 0.03289 2.398 57.36 -1.8 -1.3  
OFF 138 0.3881 0.03275 2.439 58.53 -1.8 -0.2

**RATE ESTIMATE**  
AFT PAN CAMERA NUMBER 142

OPN NO	FR	R	A	TUR/DUR	INST CPS	INST ANG VEL	SCAN RATE R/SEC	I/SEC	PCT CALIB	RATE REQD
79	7	1	4	7	7 ON 2864	0.3984	0.03294	2.453	58.87	-2.5 -1.1
					OFF 18	0.3981	0.03292	2.451	58.83	-2.5 -1.1
81	8	8	5	7	7 ON 8	0.2698	0.02278	1.698	48.57	-2.5 -42.9
					OFF 23	0.2698	0.02278	1.698	48.57	-2.5 -43.4
84	3	1	53	7	7 ON 1382	0.3629	0.03062	2.288	54.73	-2.5 -1.8
					OFF 145	0.3759	0.03172	2.362	56.68	-2.5 -8.8
84	3	2	39	7	7 ON 1665	0.3856	0.03253	2.423	58.14	-2.5 -8.3
					OFF 181	0.3988	0.03291	2.458	58.81	-2.5 -8.3
84	3	3	17	7	7 ON 1866	0.3924	0.03311	2.466	59.17	-2.5 -8.4
					OFF 44	0.3927	0.03314	2.467	59.22	-2.5 -8.5
86	1	1	21	7	7 ON 1548	0.3772	0.03182	2.378	56.88	-2.5 -8.7
					OFF 56	0.3811	0.03215	2.394	57.46	-2.5 -8.5
86	1	2	48	7	7 ON 1711	0.3879	0.03273	2.437	58.49	-2.5 -8.3
					OFF 181	0.3913	0.03382	2.459	59.81	-2.5 -8.3
86	1	3	28	7	7 ON 1983	0.3927	0.03313	2.467	59.22	-2.5 -8.5
					OFF 52	0.3926	0.03313	2.467	59.28	-2.5 -8.7
86	1	4	62	7	7 ON 2883	0.3919	0.03387	2.463	59.18	-2.5 -8.8
					OFF 157	0.3864	0.03261	2.428	58.27	-2.5 -1.5
86	1	5	18	7	7 ON 2556	0.3524	0.02974	2.215	53.15	-2.5 -3.2
					OFF 51	0.3478	0.02928	2.188	52.33	-2.5 -3.3
87	7	1	28	7	7 ON 1827	0.3918	0.03386	2.461	59.88	-2.5 -8.3
					OFF 51	0.3925	0.03312	2.466	59.19	-2.5 -8.4
87	7	2	26	7	7 ON 2852	0.3988	0.03297	2.455	58.92	-2.5 -1.8
					OFF 66	0.3885	0.03278	2.441	58.58	-2.5 -1.3
87	7	3	66	7	7 ON 2174	0.3856	0.03253	2.423	58.14	-2.5 -1.6
					OFF 171	0.3736	0.03153	2.348	56.34	-2.5 -2.3
89	8	8	13	7	7 ON 428	0.2883	0.02365	1.761	42.27	-2.5 -9.3
					OFF 47	0.2827	0.02385	1.776	42.62	-2.5 -9.6
89	8	1	53	7	7 ON 2254	0.3859	0.03256	2.425	58.19	-1.1 8.4
					OFF 141	0.3744	0.03168	2.353	56.47	-1.1 8.3
89	8	2	58	7	7 ON 2511	0.3624	0.03858	2.277	54.65	-1.1 8.8
					OFF 143	0.3465	0.02924	2.177	52.25	-1.1 8.8
98	7	1	58	7	7 ON 2772	0.3329	0.02889	2.892	58.21	-1.1 8.1
					OFF 178	0.3175	0.02679	1.995	47.88	-1.1 1.9
94	3	1	17	7	7 ON 1898	0.3982	0.03368	2.582	68.85	-1.1 8.9
					OFF 43	0.3982	0.03368	2.582	68.85	-1.1 8.9
94	3	2	47	7	7 ON 3854	0.3885	0.02683	1.939	46.52	-1.1 2.9
					OFF 155	0.2978	0.02586	1.866	44.78	-1.1 4.5
95	3	1	19	7	7 ON 1993	0.3977	0.03355	2.499	59.97	-1.1 1.8
					OFF 58	0.3966	0.03347	2.492	59.81	-1.1 8.9
181	8	1	23	7	7 ON 2629	0.3491	0.02946	2.193	52.64	-1.1 8.1
					OFF 68	0.3414	0.02888	2.145	51.48	-1.1 8.1

181	8	2	48	7	7	ON	2764	8.3336	8.82815	2.896	58.31	-1.1	8.1
						OFF	147	8.3288	8.82787	2.816	48.38	-1.1	1.5
182	7	1	39	7	7	ON	1788	8.3963	8.83344	2.498	59.76	-1.1	1.1
						OFF	99	8.3981	8.83359	2.582	68.84	-1.1	1.2
182	7	2	81	7	7	ON	1938	8.3983	8.83361	2.582	68.86	-1.1	1.2
						OFF	283	8.3933	8.83319	2.471	59.31	-1.1	1.1
182	7	3	19	7	7	ON	2431	8.3787	8.83128	2.329	55.89	-1.1	8.4
						OFF	51	8.3658	8.83886	2.298	55.16	-1.1	8.4
183	4	1	17	7	7	ON	1613	8.3879	8.83273	2.437	58.49	-1.1	8.5
						OFF	45	8.3984	8.83295	2.453	58.88	-1.1	8.6
183	4	2	17	7	7	ON	1728	8.3938	8.83323	2.474	59.38	-1.1	8.9
						OFF	45	8.3955	8.83337	2.485	59.63	-1.1	1.8
183	4	3	46	7	7	ON	2849	8.3964	8.83345	2.491	59.77	-1.1	1.1
						OFF	119	8.3916	8.83384	2.468	59.85	-1.1	1.8
184	8	1	188	7	7	ON	2868	8.3988	8.83358	2.581	68.82	-8.6	1.6
						OFF	278	8.3815	8.83219	2.397	57.52	-8.6	1.1
185	3	1	17	7	7	ON	1688	8.3889	8.83281	2.444	58.64	-8.6	8.9
						OFF	46	8.3917	8.83385	2.461	59.86	-8.6	1.1
185	3	2	111	7	7	ON	2182	8.3925	8.83312	2.466	59.19	-8.6	1.4
						OFF	292	8.3684	8.83188	2.315	55.55	-8.6	8.8
186	5	1	49	7	7	ON	2199	8.3915	8.83383	2.468	59.84	-8.6	1.3
						OFF	127	8.3825	8.83228	2.483	57.68	-8.6	1.1
118	9	1	28	7	7	ON	1936	8.4882	8.83377	2.515	68.35	-8.6	1.7
						OFF	58	8.3998	8.83373	2.512	68.29	-8.6	1.7
111	1	8	15	7	7	ON	1962	8.4881	8.83376	2.514	68.33	-8.6	1.7
						OFF	38	8.3996	8.83372	2.511	68.26	-8.6	1.7
117	3	1	58	7	7	ON	1775	8.3979	8.83357	2.588	68.88	-8.6	1.7
						OFF	147	8.4883	8.83377	2.515	68.36	-8.6	1.8
117	3	2	44	7	7	ON	2818	8.3993	8.83378	2.589	68.22	-8.6	1.8
						OFF	112	8.3958	8.83348	2.487	59.68	-8.6	1.6
118	4	1	28	7	7	ON	1772	8.3978	8.83356	2.499	59.99	-8.6	1.7
						OFF	51	8.3991	8.83368	2.588	68.19	-8.6	1.8
118	4	2	88	7	7	ON	1978	8.4888	8.83375	2.513	68.32	-8.6	1.8
						OFF	283	8.3932	8.83318	2.471	59.29	-8.6	1.5
119	5	1	17	7	7	ON	1844	8.3996	8.83372	2.511	68.26	-8.6	1.8
						OFF	43	8.4881	8.83376	2.514	68.34	-8.6	1.9
119	5	2	61	7	7	ON	2892	8.3969	8.83349	2.494	59.85	-8.6	1.7
						OFF	157	8.3885	8.83278	2.441	58.58	-8.6	1.4
128	9	1	54	7	7	ON	1995	8.3995	8.83371	2.518	68.24	-8.6	1.8
						OFF	135	8.3953	8.83335	2.484	59.61	-8.6	1.6
128	9	2	35	7	7	ON	2398	8.3756	8.83169	2.368	56.64	-8.6	8.8
						OFF	96	8.3662	8.83898	2.381	55.22	-8.6	8.7
121	9	1	37	7	7	ON	2127	8.3953	8.83335	2.484	59.61	-8.6	1.6
						OFF	96	8.3981	8.83292	2.451	58.83	-8.6	1.4
121	9	2	94	7	7	ON	2248	8.3882	8.83275	2.439	58.53	-8.6	1.3
						OFF	248	8.3661	8.83889	2.388	55.28	-8.6	8.7
122	4	1	54	7	7	ON	2221	8.3988	8.83291	2.451	58.81	-8.6	1.4
						OFF	141	8.3793	8.83288	2.383	57.28	-8.6	1.8
127	8	1	28	7	7	ON	2881	8.3994	8.83378	2.589	68.23	-8.6	1.9
						OFF	51	8.3982	8.83368	2.582	68.85	-8.6	1.8
133	4	1	17	7	7	ON	1782	8.3948	8.83331	2.488	59.53	-8.6	1.5



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					OFF	45	0.3966	0.03347	2.492	59.01	-0.6	1.6
133	4	2	65	7	7 ON	1888	0.3987	0.03364	2.505	60.13	-0.6	1.9
					OFF	163	0.3999	0.03374	2.513	60.30	-0.6	2.0
133	4	3	19	7	7 ON	2258	0.3875	0.03269	2.434	58.43	-0.6	1.4
					OFF	58	0.3838	0.03239	2.412	57.88	-0.6	1.3
134	5	1	27	7	7 ON	1795	0.3984	0.03361	2.503	60.07	-0.6	1.8
					OFF	68	0.3997	0.03373	2.512	60.28	-0.6	1.9
134	5	2	79	7	7 ON	2815	0.3991	0.03368	2.508	60.18	-0.6	1.9
					OFF	284	0.3984	0.03294	2.453	58.86	-0.6	1.5
135	8	1	40	7	7 ON	2133	0.3958	0.03333	2.482	59.56	-0.6	1.7
					OFF	183	0.3892	0.03284	2.445	58.69	-0.6	1.5
136	8	0	14	7	7 ON	532	0.2916	0.02468	1.832	43.97	-0.6	-9.9
					OFF	47	0.2944	0.02484	1.858	44.48	-0.6	-9.9
136	8	1	83	7	7 ON	2828	0.3977	0.03356	2.499	59.98	-0.9	1.7
					OFF	211	0.3888	0.03274	2.438	58.51	-0.9	1.2
137	7	1	99	7	7 ON	2267	0.3858	0.03255	2.424	58.18	-0.9	1.1
					OFF	263	0.3614	0.03050	2.271	54.50	-0.9	0.2
141	6	1	61	7	7 ON	2894	0.3227	0.02723	2.027	48.66	-0.9	0.6
					OFF	195	0.3065	0.02586	1.926	46.22	-0.9	2.4
143	6	1	28	7	7 ON	2859	0.3969	0.03349	2.494	59.85	-0.9	1.7
					OFF	51	0.3951	0.03334	2.483	59.58	-0.9	1.6
148	8	1	66	7	7 ON	2879	0.3248	0.02734	2.036	48.86	-0.9	0.4
					OFF	210	0.3066	0.02587	1.926	46.23	-0.9	2.3
148	8	2	18	7	7 ON	3242	0.2950	0.02489	1.854	44.49	-0.9	3.8
					OFF	60	0.2913	0.02458	1.830	43.93	-0.9	4.4
149	8	1	36	7	7 ON	2246	0.3873	0.03268	2.433	58.40	-0.9	1.3
					OFF	96	0.3800	0.03207	2.388	57.31	-0.9	1.0
149	8	2	71	7	7 ON	2925	0.3200	0.02700	2.010	48.25	-0.9	0.8
					OFF	228	0.3016	0.02545	1.895	45.48	-0.9	2.9
150	5	1	28	7	7 ON	1616	0.3888	0.03281	2.443	58.63	-0.9	0.7
					OFF	72	0.3929	0.03315	2.468	59.24	-0.9	1.2
150	5	2	26	7	7 ON	1828	0.3981	0.03359	2.501	60.04	-0.9	1.8
					OFF	67	0.3998	0.03367	2.507	60.17	-0.9	1.9
150	5	3	46	7	7 ON	2139	0.3936	0.03321	2.473	59.36	-0.9	1.6
					OFF	119	0.3867	0.03263	2.429	58.31	-0.9	1.3
151	4	1	31	7	7 ON	2173	0.3919	0.03307	2.462	59.10	-0.9	1.6
					OFF	81	0.3869	0.03265	2.431	58.35	-0.9	1.4
152	7	1	77	7	7 ON	2191	0.3888	0.03281	2.443	58.64	-1.4	1.0
					OFF	282	0.3735	0.03152	2.347	56.33	-1.4	0.3
153	5	1	31	7	7 ON	2191	0.3889	0.03281	2.443	58.64	-1.4	1.0
					OFF	81	0.3837	0.03237	2.411	57.85	-1.4	0.8
153	5	2	42	7	7 ON	2312	0.3803	0.03209	2.389	57.35	-1.4	0.6
					OFF	112	0.3705	0.03126	2.328	55.87	-1.4	0.2
154	4	1	65	7	7 ON	2253	0.3848	0.03247	2.418	58.02	-1.4	0.8
					OFF	173	0.3703	0.03124	2.327	55.84	-1.4	0.2
157	6	1	72	7	7 ON	2745	0.3343	0.02821	2.100	50.41	-1.4	-1.2
					OFF	223	0.3150	0.02657	1.979	47.49	-1.4	0.5
158	6	1	23	7	7 ON	3414	0.2833	0.02390	1.780	42.71	-1.4	4.9
					OFF	80	0.2796	0.02360	1.757	42.17	-1.4	5.9
159	6	1	16	7	7 ON	2127	0.3922	0.03309	2.464	59.14	-1.4	1.3
					OFF	42	0.3902	0.03293	2.452	58.85	-1.4	1.2

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