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12 PAGES
(NOT INCLUDING PEST)

CORONA J FLIGHT DATA BOOK

SYSTEM NO. JX-28

VEHICLE NO. 1616

MISSION NO. 1025-1

CAMERA NOS. 142/127

DATE 10-10-65

Declassified and Released by the N R O

In Accordance with E. O. 12958

on NOV 26 1997

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MISSION NO. 1025-1
CAMERA NOS. 142/127

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SYSTEM NO. JX-28
VEHICLE NO. 1616
MISSION NO. 1025-1
CAMERA NOS. 142/127

FORMAT DIMENSIONS AND CALIBRATIONS

CAMERA NO. 142 AFT CAMERA NO. 127 - FWD

A	76.124	75.997
B	355.297	355.195
C	710.593	710.187
D	56.488	56.456
E	56.474	56.459
XT	0.570	0.772
YT	0.108	-0.130
XS	-0.838	0.323
YS	-0.009	0.009
XVO	0.774	-0.340
YVO	0.555	1.776
DTX	0.561	0.769
DTY	3.108	1.870
DSX	-0.836	0.321
DSY	-2.009	-1.991
DMX	0.721	-0.285
DMY	20.555	21.776
HEIGHT	55.009	55.306
WIDTH	756.110	756.568
DIRECTION		
FLIGHT	+Y	-Y
SCAN	+X	+X

- NOTE 1. ALL DIMENSIONS ARE IN MILLIMETERS AND ARE AVERAGE DIMENSIONS OF THREE FORMATS.
2. HEIGHT OF MAIN FORMAT IS TAKEN AT CENTER OF FORMAT.
3. DT, DM, DS, X, AND Y DIMENSIONS ARE TAKEN 10MM ABOVE POINT DEFINING TARGET CENTER.
4. NEGATIVE VIEWED WITH EMULSION SIDE DOWN.
5. FORMAT SIGN CONVENTION

1
-X+Y 1 +X+Y
-----1-----
-X-Y 1 +X-Y
1

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SYSTEM NO. JX-28
VEHICLE NO. 1616
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CAMERA NOS. 142/127

LENS DATA SUMMARY STELLAR INDEX 073/78/88 -1 MISSION

	STELLAR	INDEX
LENS SERIAL NO.	11984	817717
RESEAU SERIAL NO.	88	78
FILTER TYPE	NONE	WRATTEN 21
APERTURE	F1.8	F4.5
EXPOSURE TIME	2 SEC.	1/500 SEC.
EQUIVALENT FOCAL LENGTH	84 NOMINAL MM	38.46 MM

RESOLUTION (INDEX)

ANGLE OFF AXIS	0	10	20	30	35
HIGH CONTRAST-R/T (3400 FILM)	74/74	81/76	98/85	107/49	90/39

AWAR 77 LINES/MM
READ FROM 4400 FILM.

DISTORTION

FULL DATA TO BE REPORTED AS PART OF PHOTOGONIOMETER
DATA REDUCTION.

ALIGNMENT	STELLAR	INDEX
	-0.0007 INCHES/.937 INCHES	-0.0009 INCHES/2.25 INCH

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SYSTEM NO. JX-28
VEHICLE NO. 1616
MISSION NO. 1025-1
CAMERA NOS. 142/127

LENS DATA SUMMARY STELLAR INDEX 070/88/81 -2 MISSION

	STELLAR	INDEX
LENS SERIAL NO.	11231	817711
RESEAU SERIAL NO.	81	88
FILTER TYPE	NONE	WRATTEN 21
APERTURE	F1.8	F4.5
EXPOSURE TIME	2 SEC.	1/500 SEC.
EQUIVALENT FOCAL LENGTH	84 NOMINAL MM	38.40 MM

RESOLUTION (INDEX)

ANGLE OFF AXIS	0	10	20	30	35
HIGH CONTRAST-R/T (3400 FILM)	84/84	86/76	104/76	94/58	84/17

AWAR 71 LINES/MM
READ FROM 4400 FILM.

DISTORTION

FULL DATA TO BE REPORTED AS PART OF PHOTOGONIOMETER
DATA REDUCTION.

ALIGNMENT	STELLAR	INDEX
	-0.0005 INCHES/.937 INCHES	-0.0004 INCHES/2.25 INCH

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SYSTEM NO. JX-28
VEHICLE NO. 1616
MISSION NO. 1025-1
CAMERA NOS. 142/127

CYCLE PERIOD DATA

V/H LEVEL	RAMP AMPLITUDE	TIME UP RAMP-SEC	---CALIBRATED---		---IN-FLIGHT---		ORBIT CYCLE PERIOD-SEC NO.
			MASTER	SLAVE	MASTER	SLAVE	
7	7	360	3.524	3.538	3.540	3.540	9
7	7	1850	2.476	2.487	2.520	2.535	16
7	7	1890	2.475	2.487	2.520	2.530	32
7	7	2020	2.480	2.492	2.519	2.530	63
7	7	2068	2.489	2.501	2.509	2.546	79

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NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE

DATA DESCRIBED IN DATA BOOK BY -B OR * INDICATE NO DATA AVAILABLE.

A. 1825-1 LAUNCHED AT 1746Z ON 18/05/65

B. DRY

C. PERFORMANCE ESTIMATE PART ONE

OPERATIONS SUMMARY

FWD PAN CAMERA NUMBER 127
OPN NO FRA Q LAT LONG HEIGHT RANGE DA H M S LTIM S-TIM

PRE-FLT 100

Table with columns for camera operation status (ON/OFF), coordinates (LAT, LONG), height, range, and timing (DA, H, M, S, LTIM, S-TIM). Rows include data for various camera operations such as 1 6 0, 5 4 1, 5 4 2, etc.

		OFF	2	44	9	119	48E	688998	714141	7	1	12	28	911	4348			
22	3	1	19	ON	2	73	47	47	28E	764313	792319	7	2	32	52	542	9172	
		OFF	2	71	58	58	54E	754583	782219	7	2	33	49	629	9229			
22	3	2	29	ON	2	58	32	87	8E	714312	748421	7	2	38	13	826	9493	
		OFF	2	53	46	91	19E	784282	738812	7	2	39	32	844	9572			
22	3	3	38	ON	2	41	31	98	12E	685725	718754	7	2	42	48	915	9768	
		OFF	2	35	13	188	36E	688415	785243	7	2	44	26	926	9866			
22	3	4	34	ON	2	24	34	183	46E	678697	783459	7	2	47	18	942	18838	
		OFF	2	18	47	185	12E	681825	786785	7	2	48	38	949	18118			
23	5	1	17	ON	2	44	32	74	12E	689142	714299	7	4	11	47	9	8	15187
		OFF	2	41	42	75	29E	685785	718815	7	4	12	32	914	15152			
23	5	2	28	ON	2	34	35	78	18E	688888	784812	7	4	14	22	927	15262	
		OFF	2	31	14	79	15E	678653	783414	7	4	15	14	932	15314			
23	5	3	25	ON	2	29	33	79	45E	678323	783872	7	4	15	39	934	15339	
		OFF	2	25	16	88	56E	678557	783314	7	4	16	45	948	15485			
23	5	4	25	ON	2	28	37	82	7E	688683	785437	7	4	17	56	946	15476	
		OFF	2	16	21	83	7E	684159	789127	7	4	19	1	951	15541			
24	5	1	17	ON	2	49	31	48	53E	696232	721657	7	5	48	14	855	28414	
		OFF	2	46	41	58	29E	691898	717152	7	5	48	59	9	2	28459		
25	6	1	25	ON	2	19	25	37	7E	681655	786529	7	7	17	47	946	26267	
		OFF	2	15	14	38	5E	685661	718686	7	7	18	51	951	26331			
25	6	2	41	ON	2	5	38	48	8E	788752	726347	7	7	21	17	18	1	26477
		OFF	3	1	38	41	37E	717653	743886	7	7	23	8	18	9	26588		
26	6	1	77	ON	2	21	8	14	4E	688552	785384	7	8	47	7	943	31627	
		OFF	2	8	8	17	8E	696493	721927	7	8	58	27	958	31827			
27	4	1	71	ON	2	28	35	8	26W	631812	785861	7	18	17	2	943	37822	
		OFF	2	8	25	5	43W	695969	721382	7	18	28	8	957	37288			
31	8	1	17	ON	2	48	24	185	6W	683566	788512	7	16	11	8	918	58268	
		OFF	2	37	33	184	8W	681318	786188	7	16	11	44	915	58384			
32	8	8	15	ON	2	37	42	126	41W	681353	786216	7	17	41	28	914	63688	
		OFF	2	35	14	125	49W	679987	784715	7	17	42	6	918	63726			
33	3	1	17	ON	2	65	58	172	18W	729812	755678	7	19	3	27	734	68687	
		OFF	2	63	21	167	58W	722832	748434	7	19	4	16	752	68656			
34	7	1	48	ON	2	65	26	166	4E	727124	753718	7	28	33	23	737	74883	
		OFF	2	59	15	174	41E	712853	738877	7	28	35	13	814	74113			
37	4	1	26	ON	2	45	12	116	53E	687838	712946	8	1	8	19	855	4899	
		OFF	2	48	58	118	52E	683386	788326	8	1	9	28	9	4	4168		
37	4	2	26	ON	2	32	5	122	8E	678796	783562	8	1	11	43	919	4383	
		OFF	2	27	46	123	17E	678779	783545	8	1	12	58	925	4378			
39	8	1	26	ON	2	37	29	74	53E	688828	785672	8	4	9	51	9	9	14991
		OFF	2	33	8	76	23E	679831	783886	8	4	18	58	916	15858			
39	8	2	79	ON	2	38	27	77	13E	678678	783432	8	4	11	48	928	15188	
		OFF	2	17	16	88	39E	665682	718787	8	4	15	2	937	15382			
42	3	1	16	ON	2	26	3	55	58E	679443	784234	8	5	42	33	925	28553	
		OFF	2	23	16	56	33E	688751	785591	8	5	43	16	929	28596			
42	3	2	19	ON	2	28	6	57	28E	683855	787981	8	5	44	4	933	28644	
		OFF	2	16	47	58	7E	686481	711453	8	5	44	55	937	28695			
41	5	1	71	ON	2	22	38	34	5E	681265	786124	8	7	13	18	929	25998	
		OFF	2	18	26	36	52E	695738	721135	8	7	16	16	943	26176			
43	4	1	25	ON	2	28	37	12	47W	678987	783761	8	18	11	9	919	36669	
		OFF	2	24	18	11	37W	688496	785327	8	18	12	15	925	36735			

43	4	2	25	ON	2	21	37	18	56W	682236	787132	8	18	12	57	929	36777	
				OFF	2	17	28	9	55W	686385	711355	8	18	14	3	934	36843	
47	6	1	25	ON	2	22	26	181	41W	682221	787116	8	16	11	44	924	58384	
				OFF	2	18	14	188	41W	686862	711182	8	16	12	48	938	58368	
51	3	1	88	ON	2	67	32	136	52E	726479	753849	8	21	58	32	7	6	79112
				OFF	2	54	1	154	33E	697868	723347	8	22	2	38	828	79358	
52	3	1	48	ON	2	56	48	129	36E	782388	728846	8	23	31	29	8	9	84689
				OFF	2	58	22	134	26E	692277	717553	8	23	33	14	831	84794	
53	3	1	23	ON	2	73	13	69	57E	745665	772962	9	8	55	45	535	3345	
				OFF	2	78	52	81	46E	736888	762931	9	8	56	58	623	3418	
53	3	2	38	ON	2	45	38	114	31E	686423	711478	9	1	4	17	842	3857	
				OFF	2	39	9	117	19E	681456	786323	9	1	5	57	855	3957	
53	3	3	37	ON	2	33	23	119	22E	679545	784348	9	1	7	26	9	4	4846
				OFF	2	27	5	121	15E	688452	785281	9	1	9	3	914	4143	
54	3	1	49	ON	2	57	45	83	26E	783672	729379	9	2	38	43	8	4	9843
				OFF	2	49	48	89	31E	691274	716512	9	2	32	53	838	9173	
54	3	2	28	ON	2	37	58	95	11E	688812	785655	9	2	36	1	856	9361	
				OFF	2	34	31	96	21E	679768	784571	9	2	36	52	9	2	9412
55	4	1	74	ON	2	67	33	46	18E	725127	751646	9	3	57	31	7	2	14251
				OFF	2	56	18	62	8E	728898	726492	9	4	8	52	8	9	14452
55	4	2	17	ON	2	52	2	65	26E	694178	719525	9	4	2	2	823	14522	
				OFF	2	49	12	67	14E	698392	715596	9	4	2	48	831	14568	
55	4	3	65	ON	2	19	41	77	52E	686117	711168	9	4	18	25	921	15825	
				OFF	2	8	25	88	22E	783355	729847	9	4	13	17	934	15197	
56	8	1	28	ON	2	49	38	44	25E	698661	715876	9	5	32	27	838	19947	
				OFF	2	46	18	46	12E	687883	712888	9	5	33	18	838	19998	
6	8	2	16	ON	2	18	38	55	29E	637476	712569	9	5	48	26	922	28426	
				OFF	2	15	48	56	8E	691855	716283	9	5	41	9	925	28469	
57	9	1	38	ON	3	18	8	38	53E	755226	782883	9	7	17	27	953	26247	
				OFF	3	17	23	48	38E	782748	811444	9	7	19	28	18	1	26368
63	2	1	16	ON	2	34	18	187	14W	688241	785862	9	16	4	38	855	57878	
				OFF	2	31	28	186	28W	688371	785197	9	16	5	22	9	8	57922
63	2	2	25	ON	2	21	42	183	41W	685666	718692	9	16	7	49	913	58869	
				OFF	2	17	26	182	41W	698476	715683	9	16	8	54	918	58134	
66	9	1	42	ON	2	67	33	157	17E	721544	747927	9	28	24	38	653	73478	
				OFF	2	61	27	167	43E	727917	733784	9	28	26	31	737	73591	
68	9	1	22	ON	2	71	28	99	47E	732412	759287	9	23	22	48	6	1	84168
				OFF	2	68	43	189	6E	723996	758472	9	23	23	43	648	84223	
68	9	2	21	ON	2	62	33	128	58E	729648	735573	9	23	25	48	729	84348	
				OFF	2	59	23	124	52E	723632	729337	9	23	26	35	746	84395	
68	9	3	34	ON	3	5	3	148	52E	743876	778273	9	23	43	18	938	85398	
				OFF	3	11	38	158	13E	765893	793126	9	23	44	57	945	85497	
69	9	1	22	ON	2	74	48	53	16E	748212	775686	18	8	58	38	423	3838	
				OFF	2	73	14	67	43E	739848	766895	18	8	51	34	522	3894	
69	9	2	66	ON	3	18	55	129	14E	794252	823394	18	1	16	34	953	4594	
				OFF	3	32	24	132	52E	853494	884981	18	1	28	3	1811	4883	
78	9	1	67	ON	2	49	36	87	28E	689338	714583	18	2	28	44	818	8924	
				OFF	2	38	45	92	48E	681489	786358	18	2	31	35	842	9895	
78	9	2	34	ON	2	1	51	182	11E	723596	758854	18	2	41	8	929	9668	
				OFF	3	4	38	183	29E	742141	769382	18	2	42	37	936	9757	
1	9	1	28	ON	2	47	1	66	18E	686671	711735	18	3	59	9	824	14349	

		OFF	2	43	44	67	56E	684846	789811	18	4	8	1	831	14481			
71	9	2	49	ON	2	38	29	72	58E	681389	786253	18	4	3	27	854	14687	
		OFF	2	22	18	75	4E	686588	711648	18	4	5	33	9	5	14733		
71	9	3	47	ON	2	15	48	76	38E	694859	728231	18	4	7	14	913	14834	
		OFF	2	7	25	78	25E	718322	736278	18	4	9	28	923	14968			
72	8	1	114	ON	2	56	28	37	11E	698886	723582	18	5	26	28	755	19588	
		OFF	2	38	18	47	38E	681376	786248	18	5	31	12	841	19872			
73	8	1	69	ON	2	15	37	31	23E	695446	728848	18	7	6	42	912	25682	
		OFF	2	3	22	33	59E	728674	747821	18	7	9	49	925	25789			
73	8	2	33	ON	3	7	6	36	7E	751788	779387	18	7	12	29	936	25949	
		OFF	3	13	29	37	28E	774597	882998	18	7	14	7	944	26847			
75	6	1	45	ON	2	23	1	15	38W	686654	711717	18	18	4	16	9	1	36256
		OFF	2	15	28	13	48W	696391	721828	18	18	6	14	918	36374			
78	7	1	16	ON	2	39	24	88	37W	681929	786814	18	14	29	14	834	52154	
		OFF	2	36	44	87	37W	681389	786253	18	14	29	55	839	52195			
78	7	2	76	ON	2	8	48	78	39W	729298	755972	18	14	39	6	924	52746	
		OFF	3	13	28	75	48W	776714	885188	18	14	42	44	948	52964			
79	7	1	15	ON	2	33	17	189	5W	681567	786438	18	16	8	33	844	57633	
		OFF	2	38	48	188	16W	682268	787165	18	16	1	13	848	57673			

OPERATIONS SUMMARY

AFT PAN CAMERA NUMBER 142

OPN	NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM					
PRE-FLT	188																	
1	6	2	16	ON	2	54	17	153	34W	738896	734888	5	19	14	13	859	69253	
		OFF	2	51	57	151	52W	724846	729766	5	19	14	51	9	7	69291		
5	4	1	44	ON	2	62	44	187	1E	728274	754912	6	1	11	8	819	4268	
		OFF	2	55	19	115	8E	718854	736882	6	1	13	6	853	4386			
5	4	2	18	ON	2	47	21	128	19E	694859	728232	6	1	15	15	916	4515	
		OFF	2	44	16	121	53E	698177	715373	6	1	16	4	923	4564			
5	4	3	26	ON	3	8	16	134	4E	729354	735273	6	1	27	28	1823	5248	
		OFF	3	4	15	135	8E	721156	747522	6	1	28	29	1828	5389			
7	5	1	69	ON	2	38	2	81	52E	678838	782767	6	4	19	28	946	15568	
		OFF	2	18	36	84	52E	688882	785644	6	4	22	15	18	1	15735		
8	4	1	37	ON	2	71	6	19	48E	754575	782211	6	5	37	35	656	28255	
		OFF	2	66	6	33	27E	736914	763879	6	5	39	21	753	28361			
8	4	2	28	ON	2	64	16	36	43E	731483	758242	6	5	39	55	8	6	28395
		OFF	2	59	59	42	32E	728838	746364	6	5	41	11	831	28471			
9	7	8	13	ON	1	37	27	115	53W	922353	956488	6	6	51	52	23	8	24712
		OFF	1	48	22	114	45W	914286	947947	6	6	52	39	2313	24759			
9	7	1	28	ON	2	26	16	37	39E	677819	782549	6	7	19	52	958	26392	
		OFF	2	22	59	38	38E	678588	783346	6	7	28	42	954	26442			
18	4	1	19	ON	2	29	21	14	8E	677378	782891	6	8	48	52	945	31732	
		OFF	2	26	5	15	3E	677298	782888	6	8	49	42	949	31782			
18	4	2	61	ON	2	24	23	15	38E	677624	782346	6	8	58	8	952	31888	
		OFF	2	14	9	17	56E	685858	718868	6	8	52	44	18	4	31964		
11	8	1	62	ON	2	25	21	7	24W	676876	781578	6	18	19	48	958	37188	
		OFF	2	15	7	4	55W	633557	788582	6	18	22	17	18	2	37337		
13	7	1	68	ON	3	12	8	44	31W	748598	775995	6	13	28	47	1838	48527	
		OFF	3	23	25	41	54W	792152	821215	6	13	31	41	1844	48781			

14	3	1	42	ON	2	13	38	72	31W	686766	711833	6	14	51	59	18	1	53519
			OFF	2	6	21	78	58W	698462	723969	6	14	53	58	18	9	53638	
14	3	2	34	ON	3	13	58	66	46W	755529	783198	6	14	59	2	1831	53942	
			OFF	3	28	22	65	18W	788858	888668	6	15	8	41	1839	54841		
16	3	8	15	ON	2	38	42	124	58W	682619	787538	6	17	45	8	925	63988	
			OFF	2	36	14	123	56W	688726	785566	6	17	45	46	938	63946		
28	3	1	39	ON	2	68	26	138	17E	717271	743492	6	23	38	23	819	85183	
			OFF	2	54	18	136	14E	783793	729584	6	23	48	8	845	85288		
28	3	2	35	ON	2	58	56	138	31E	697928	723418	6	23	41	1	855	85261	
			OFF	2	45	9	141	46E	689228	714389	6	23	42	33	9	9	85353	
21	3	1	21	ON	2	68	27	187	37E	717884	743215	7	1	8	9	818	4889	
			OFF	2	57	9	111	3E	789582	735512	7	1	9	5	833	4145		
21	3	2	26	ON	2	49	26	116	48E	695228	728687	7	1	11	11	858	4271	
			OFF	2	45	6	119	9E	688998	714141	7	1	12	28	9	8	4348	
22	3	1	28	ON	2	74	11	43	38E	764313	792319	7	2	32	52	527	9172	
			OFF	2	72	34	55	48E	754583	782219	7	2	33	49	617	9229		
22	3	2	38	ON	2	59	27	86	7E	714312	748421	7	2	38	13	822	9493	
			OFF	2	54	42	98	32E	784282	738812	7	2	39	32	841	9572		
22	3	3	38	ON	2	42	28	97	44E	685725	718754	7	2	42	48	913	9768	
			OFF	2	36	18	188	13E	688415	785243	7	2	44	26	925	9866		
22	3	4	34	ON	2	25	31	183	27E	678697	783459	7	2	47	18	941	18838	
			OFF	2	19	45	184	55E	681825	786785	7	2	48	38	948	18118		
23	5	1	17	ON	2	45	28	73	41E	689142	714299	7	4	11	47	9	6	15187
			OFF	2	42	38	75	8E	685785	718815	7	4	12	32	912	15152		
23	5	2	28	ON	2	35	32	77	47E	688888	784812	7	4	14	22	925	15262	
			OFF	2	32	11	78	53E	678653	783414	7	4	15	14	938	15314		
3	5	3	26	ON	2	38	38	79	24E	678323	783872	7	4	15	39	933	15339	
			OFF	2	26	14	88	37E	678557	783314	7	4	16	45	939	15485		
23	5	4	25	ON	2	21	35	81	49E	688683	785437	7	4	17	56	945	15476	
			OFF	2	17	19	82	58E	684159	789127	7	4	19	1	958	15541		
24	5	1	17	ON	2	58	28	48	14E	696232	721657	7	5	48	14	853	28414	
			OFF	2	47	37	49	54E	691898	717152	7	5	48	59	9	8	28459	
25	6	1	25	ON	2	28	23	36	58E	691655	786529	7	7	17	47	945	26267	
			OFF	2	16	12	37	48E	685661	718686	7	7	18	51	958	26331		
25	6	2	41	ON	2	6	38	39	52E	788752	726347	7	7	21	17	18	8	26477
			OFF	3	8	37	41	21E	717653	743886	7	7	23	8	18	8	26588	
26	6	1	78	ON	2	22	5	13	46E	688552	785384	7	8	47	7	942	31627	
			OFF	2	8	59	16	44E	696493	721927	7	8	58	27	957	31827		
27	4	1	72	ON	2	21	32	8	43W	651812	785861	7	18	17	2	942	37822	
			OFF	2	9	24	5	59W	695969	721382	7	18	28	8	956	37288		
31	8	1	17	ON	2	41	21	185	33W	683566	788512	7	16	11	8	9	8	58268
			OFF	2	38	38	184	25W	681318	786188	7	16	11	44	914	58384		
32	8	8	15	ON	2	38	39	127	7W	681353	786216	7	17	41	28	913	63688	
			OFF	2	36	18	126	12W	679987	784715	7	17	42	6	917	63726		
33	3	1	18	ON	2	66	47	174	2W	729812	755678	7	19	3	27	727	68687	
			OFF	2	64	13	169	15W	722832	748434	7	19	4	16	747	68656		
34	7	1	41	ON	2	66	16	164	24E	727124	753718	7	28	33	23	731	74883	
			OFF	2	68	9	173	38E	712853	738877	7	28	35	13	8	9	74113	
37	4	1	26	ON	2	46	9	116	21E	667838	712946	8	1	8	19	853	4899	
			OFF	2	41	47	118	24E	683386	788326	8	1	9	28	9	3	4168	
7	4	2	26	ON	2	33	2	121	38E	678796	783562	8	1	11	43	918	4383	

		OFF	2	28	43	122	57E	678779	783545	8	1	12	58	924	4378			
39	8	1	26	ON	2	38	25	74	28E	688828	785672	8	4	9	51	9	7	14991
		OFF	2	34	5	76	1E	679831	783886	8	4	18	58	915	15858			
39	8	2	88	ON	2	31	24	76	52E	678678	783432	8	4	11	48	919	15188	
		OFF	2	18	14	88	21E	685682	718787	8	4	15	2	936	15382			
48	3	1	16	ON	2	27	8	55	38E	679443	784234	8	5	42	33	924	28553	
		OFF	2	24	14	56	15E	688751	785591	8	5	43	16	928	28596			
48	3	2	19	ON	2	21	4	57	3E	683855	787981	8	5	44	4	932	28644	
		OFF	2	17	45	57	58E	686481	711453	8	5	44	55	936	28695			
41	5	1	72	ON	2	23	35	33	46E	681265	786124	8	7	13	18	928	25998	
		OFF	2	11	25	36	36E	695738	721135	8	7	16	16	942	26176			
43	4	1	26	ON	2	29	34	13	8W	678987	783761	8	18	11	9	918	36669	
		OFF	2	25	16	11	56W	688496	785327	8	18	12	15	924	36735			
43	4	2	25	ON	2	22	35	11	14W	682236	787132	8	18	12	57	927	36777	
		OFF	2	18	18	18	12W	686385	711355	8	18	14	3	933	36843			
47	6	1	25	ON	2	23	24	182	8W	682221	787116	8	16	11	44	923	58384	
		OFF	2	19	12	188	58W	686862	711182	8	16	12	48	928	58368			
51	3	1	89	ON	2	68	19	134	55E	726479	753849	8	21	58	32	658	79112	
		OFF	2	54	57	153	46E	697868	723347	8	22	2	38	817	79358			
52	3	1	48	ON	2	57	43	128	41E	782388	728846	8	23	31	29	8	6	84689
		OFF	2	51	17	133	47E	692277	717553	8	23	33	14	828	84794			
53	3	1	23	ON	2	73	41	66	27E	745665	772962	9	8	55	45	521	3345	
		OFF	2	71	31	79	4E	736888	762931	9	8	56	58	613	3418			
53	3	2	39	ON	2	46	26	113	59E	686423	711478	9	1	4	17	848	3857	
		OFF	2	48	5	116	53E	681456	786323	9	1	5	57	853	3957			
53	3	3	38	ON	2	34	28	118	59E	679545	784348	9	1	7	26	9	3	4846
		OFF	2	28	2	128	55E	688452	785281	9	1	9	3	912	4143			
54	3	1	58	ON	2	58	39	82	28E	783672	729379	9	2	38	43	8	8	9843
		OFF	2	58	44	88	52E	691274	716512	9	2	32	53	828	9173			
54	3	2	28	ON	2	38	47	94	46E	688812	785655	9	2	36	1	855	9361	
		OFF	2	35	28	95	58E	679768	784571	9	2	36	52	9	8	9412		
55	4	1	75	ON	2	68	19	44	28E	725127	751646	9	3	57	31	654	14251	
		OFF	2	57	13	61	15E	788898	726492	9	4	8	52	8	5	14452		
55	4	2	17	ON	2	52	57	64	43E	694178	719525	9	4	2	2	828	14522	
		OFF	2	58	8	66	37E	698392	715596	9	4	2	48	829	14568			
55	4	3	66	ON	2	28	39	77	34E	686117	711168	9	4	18	25	928	15825	
		OFF	2	9	25	88	5E	783355	729847	9	4	13	17	933	15197			
56	8	1	28	ON	2	58	26	43	47E	698661	715876	9	5	32	27	827	19947	
		OFF	2	47	14	45	39E	687883	712888	9	5	33	18	835	19998			
56	8	2	16	ON	2	19	36	55	11E	687476	712569	9	5	48	26	921	28426	
		OFF	2	16	47	55	51E	691855	716283	9	5	41	9	924	28469			
57	9	1	39	ON	3	8	56	38	35E	755226	782883	9	7	17	27	951	26247	
		OFF	3	16	17	48	11E	782748	811444	9	7	19	28	18	8	26368		
63	2	1	17	ON	2	35	7	187	37W	688241	785862	9	16	4	38	854	57878	
		OFF	2	32	18	186	41W	688371	785197	9	16	5	22	858	57922			
63	2	2	25	ON	2	22	48	184	8W	635666	718692	9	16	7	49	911	58869	
		OFF	2	18	25	182	58W	698476	715683	9	16	8	54	917	58134			
66	9	1	42	ON	2	68	19	155	28E	721544	747927	9	28	24	38	646	73478	
		OFF	2	62	19	166	38E	787917	733784	9	28	26	31	732	73591			
68	9	1	23	ON	2	72	5	96	55E	732412	759287	9	23	22	48	558	84168	
		OFF	2	69	27	186	56E	723996	758472	9	23	23	43	631	84223			

58	9	2	21	ON	2	63	25	119	48E	789648	735573	9	23	25	48	724	84348	
				OFF	2	68	16	123	49E	763632	729337	9	23	26	35	741	84395	
68	9	3	34	ON	3	3	59	148	35E	743876	778273	9	23	43	18	937	85398	
				OFF	3	18	24	149	55E	765893	793126	9	23	44	57	944	85497	
69	9	1	22	ON	2	74	52	49	8E	748212	775686	18	8	58	38	4	7	3838
				OFF	2	73	41	64	14E	739848	766895	18	8	51	34	5	8	3894
69	9	2	67	ON	3	17	48	128	54E	794252	823394	18	1	16	34	952	4594	
				OFF	3	31	12	132	25E	853494	884981	18	1	28	3	18	9	4883
70	9	1	68	ON	2	58	32	86	58E	689338	714583	18	2	28	44	816	8924	
				OFF	2	39	41	92	15E	681489	786358	18	2	31	35	848	9895	
70	9	2	35	ON	2	2	52	181	55E	723596	758854	18	2	41	8	928	9668	
				OFF	3	3	27	183	12E	742141	769382	18	2	42	37	935	9757	
71	9	1	28	ON	2	47	57	65	44E	686671	711735	18	3	59	9	822	14349	
				OFF	2	44	48	67	26E	684846	789811	18	4	8	1	829	14481	
71	9	2	49	ON	2	31	27	72	29E	681389	786253	18	4	3	27	853	14687	
				OFF	2	23	16	74	46E	686588	711648	18	4	5	33	9	4	14733
71	9	3	47	ON	2	16	39	76	21E	694859	728231	18	4	7	14	912	14834	
				OFF	2	8	25	78	8E	718322	736278	18	4	9	28	921	14968	
72	8	1	116	ON	2	57	23	36	18E	698886	723582	18	5	26	28	751	19588	
				OFF	2	39	7	47	12E	681376	786248	18	5	31	12	848	19872	
73	8	1	78	ON	2	16	36	31	6E	695446	728848	18	7	6	42	911	25682	
				OFF	2	4	23	33	42E	728674	747821	18	7	9	49	924	25789	
73	8	2	34	ON	3	6	2	35	58E	751788	779387	18	7	12	29	935	25949	
				OFF	3	12	23	37	19E	774597	882998	18	7	14	7	942	26847	
75	6	1	45	ON	2	23	59	15	56W	686654	711717	18	18	4	16	9	8	36256
				OFF	2	16	19	14	5W	696391	721828	18	18	6	14	9	9	36374
78	7	1	16	ON	2	48	28	89	4W	681929	786814	18	14	29	14	832	52154	
				OFF	2	37	41	88	2W	681389	786253	18	14	29	55	837	52195	
78	7	2	78	ON	2	1	58	78	55W	729298	755972	18	14	39	6	923	52746	
				OFF	3	12	22	75	59W	776714	885188	18	14	42	44	938	52964	
79	7	1	16	ON	2	34	14	189	27W	681567	786438	18	16	8	33	842	57633	
				OFF	2	31	38	188	37W	682268	787165	18	16	1	13	846	57673	

PHOTOGRAPHIC SUMMARY

FWD PAN	CAMERA NO	127	8.1758	SLIT	W/21	FILTER	3484	FILM			
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI		
PRE-FLT	188	264.5									
1	6	8	16	42.3	ON 311	22.3	-19.3	12.13	12.47	11.87	11.27
					OFF 314	24.7	-19.7	12.15	12.53	11.93	11.33
5	4	1	44	116.4	ON 299	12.7	-18.7	12.88	11.98	11.38	18.78
					OFF 311	28.8	-19.8	12.13	12.42	11.82	11.22
5	4	2	18	47.6	ON 322	28.9	-21.4	12.18	12.61	12.01	11.41
					OFF 326	32.8	-22.2	12.28	12.65	12.85	11.45
5	4	3	26	68.8	ON 334	68.8	-63.1	12.24	12.75	12.15	11.55
					OFF 331	78.5	-75.8	12.22	12.75	12.15	11.55
7	5	1	68	179.9	ON 338	45.4	-27.8	12.25	12.74	12.14	11.54
					OFF 341	55.5	-35.5	12.27	12.75	12.15	11.55
8	4	1	37	97.9	ON 383	1.7	-18.1	12.89	18.55	9.95	9.35
					OFF 312	8.4	-18.8	12.14	11.57	18.97	18.37
9	4	2	27	71.4	ON 316	18.6	-19.8	12.16	11.88	11.28	18.68

			OFF 322	15.5	-19.6	12.18	12.17	11.57	10.97
9 7 0	13	34.4	ON 238	-55.3	324.4	11.75	8.88	8.88	8.88
			OFF 248	-52.7	326.8	11.76	8.88	8.88	8.88
9 7 1	19	58.3	ON 341	48.5	-38.3	12.27	12.75	12.15	11.55
			OFF 348	51.5	-32.4	12.26	12.75	12.15	11.55
10 4 1	19	58.3	ON 341	45.6	-28.7	12.27	12.74	12.14	11.54
			OFF 341	48.5	-38.6	12.27	12.75	12.15	11.55
10 4 2	61	161.3	ON 348	58.1	-31.6	12.26	12.75	12.15	11.55
			OFF 335	58.7	-48.5	12.24	12.75	12.15	11.55
11 8 1	61	161.3	ON 341	49.8	-31.2	12.26	12.75	12.15	11.55
			OFF 336	57.8	-39.6	12.24	12.75	12.15	11.55
13 7 1	59	156.1	ON 383	69.6	-96.1	12.89	12.75	12.15	11.55
			OFF 286	65.5	-123.4	12.81	12.75	12.15	11.55
14 3 1	42	111.1	ON 328	58.4	-41.8	12.21	12.75	12.15	11.55
			OFF 321	63.6	-51.8	12.18	12.75	12.15	11.55
14 3 2	33	87.3	ON 294	69.2	-188.8	12.85	12.75	12.15	11.55
			OFF 284	67.8	-116.6	12.88	12.75	12.15	11.55
16 3 0	14	37.8	ON 334	36.8	-25.9	12.24	12.69	12.89	11.49
			OFF 335	38.4	-26.8	12.24	12.71	12.11	11.51
20 3 1	39	103.2	ON 318	13.8	-21.7	12.16	12.86	11.46	10.86
			OFF 325	28.3	-22.7	12.19	12.48	11.88	11.28
20 3 2	35	92.6	ON 328	23.6	-23.3	12.21	12.51	11.91	11.31
			OFF 332	29.3	-24.6	12.23	12.62	12.82	11.42
21 3 1	28	52.9	ON 318	13.6	-21.8	12.16	12.85	11.45	10.85
			OFF 321	17.1	-22.3	12.18	12.26	11.66	11.86
21 3 2	26	68.8	ON 329	25.8	-23.8	12.21	12.54	11.94	11.34
			OFF 332	29.2	-24.8	12.23	12.61	12.81	11.41
22 3 1	19	58.3	ON 298	-5.5	-28.1	12.83	8.88	8.88	8.88
			OFF 296	-1.9	-28.4	12.86	8.88	8.88	8.88
22 3 2	29	76.7	ON 319	14.6	-22.1	12.17	12.12	11.52	10.92
			OFF 324	19.6	-22.9	12.19	12.38	11.78	11.18
22 3 3	38	188.5	ON 333	31.7	-25.8	12.23	12.65	12.85	11.45
			OFF 335	37.6	-27.9	12.24	12.78	12.18	11.58
22 3 4	34	89.9	ON 334	47.2	-33.2	12.24	12.75	12.15	11.55
			OFF 331	52.1	-37.3	12.22	12.75	12.15	11.55
23 5 1	17	45.8	ON 332	28.6	-25.1	12.23	12.61	12.81	11.41
			OFF 333	31.4	-25.9	12.23	12.64	12.84	11.44
23 5 2	28	52.9	ON 335	38.1	-28.3	12.24	12.78	12.18	11.58
			OFF 335	41.1	-29.8	12.24	12.72	12.12	11.52
23 5 3	25	66.1	ON 335	42.7	-38.6	12.24	12.73	12.13	11.53
			OFF 334	46.5	-32.9	12.24	12.75	12.15	11.55
23 5 4	25	66.1	ON 332	58.5	-36.8	12.23	12.75	12.15	11.55
			OFF 338	54.8	-39.6	12.22	12.75	12.15	11.55
24 5 1	17	45.8	ON 328	23.6	-24.1	12.21	12.51	11.91	11.31
			OFF 338	26.4	-24.7	12.22	12.57	11.97	11.37
25 6 1	25	66.1	ON 331	51.1	-37.3	12.22	12.75	12.15	11.55
			OFF 329	54.5	-41.8	12.21	12.75	12.15	11.55
25 6 2	41	188.4	ON 328	61.3	-52.6	12.17	12.75	12.15	11.55
			OFF 311	65.2	-65.6	12.13	12.75	12.15	11.55
26 6 1	77	283.7	ON 333	49.5	-36.2	12.23	12.75	12.15	11.55
			OFF 323	59.6	-49.4	12.19	12.75	12.15	11.55

-7	4	1	71	187.8	ON	333	49.8	-36.8	12.23	12.75	12.15	11.55
					OFF	324	59.1	-48.9	12.19	12.75	12.15	11.55
31	8	1	17	45.8	ON	335	31.6	-27.7	12.24	12.64	12.84	11.44
					OFF	336	34.2	-28.6	12.24	12.67	12.87	11.47
32	8	8	15	39.7	ON	336	34.8	-28.7	12.24	12.67	12.87	11.47
					OFF	336	36.2	-29.7	12.25	12.69	12.89	11.49
33	3	1	17	45.8	ON	311	5.3	-23.1	12.13	11.15	10.55	9.95
					OFF	315	8.3	-23.4	12.15	11.55	10.95	10.35
34	7	1	48	185.8	ON	312	5.8	-23.3	12.14	11.23	10.63	10.03
					OFF	321	12.6	-24.1	12.18	11.97	11.37	10.77
37	4	1	26	68.8	ON	332	26.3	-27.3	12.23	12.56	11.96	11.36
					OFF	334	38.4	-28.6	12.24	12.63	12.83	11.43
37	4	2	26	68.8	ON	336	38.4	-31.8	12.25	12.71	12.11	11.51
					OFF	336	42.2	-33.9	12.25	12.73	12.13	11.53
39	8	1	26	68.8	ON	335	33.2	-38.8	12.24	12.66	12.86	11.46
					OFF	336	37.1	-31.7	12.25	12.78	12.18	11.58
39	8	2	79	289.8	ON	336	39.5	-32.9	12.25	12.71	12.11	11.51
					OFF	332	58.5	-41.4	12.23	12.75	12.15	11.55
48	3	1	16	42.3	ON	335	43.2	-35.4	12.24	12.74	12.14	11.54
					OFF	334	45.5	-37.1	12.23	12.74	12.14	11.54
48	3	2	19	58.3	ON	332	48.1	-39.3	12.23	12.75	12.15	11.55
					OFF	338	58.7	-41.9	12.22	12.75	12.15	11.55
41	5	1	71	187.8	ON	333	45.9	-37.7	12.23	12.75	12.15	11.55
					OFF	324	55.2	-48.3	12.19	12.75	12.15	11.55
43	4	1	25	66.1	ON	336	48.5	-34.5	12.24	12.72	12.12	11.52
					OFF	334	44.2	-36.9	12.24	12.74	12.14	11.54
3	4	2	25	66.1	ON	332	46.4	-38.7	12.23	12.75	12.15	11.55
					OFF	338	49.8	-41.9	12.22	12.75	12.15	11.55
47	6	1	25	66.1	ON	333	45.1	-38.7	12.23	12.74	12.14	11.54
					OFF	338	48.4	-41.8	12.22	12.75	12.15	11.55
51	3	1	88	232.8	ON	311	1.7	-26.8	12.13	10.56	9.96	9.36
					OFF	328	16.1	-27.8	12.21	12.21	11.61	11.01
52	3	1	48	185.8	ON	326	13.2	-27.5	12.28	12.82	11.42	10.82
					OFF	331	19.5	-28.7	12.22	12.37	11.77	11.17
53	3	1	23	68.8	ON	299	-6.7	-25.8	12.87	8.88	8.88	8.88
					OFF	385	-2.8	-26.8	12.18	8.88	8.88	8.88
53	3	2	38	188.5	ON	334	24.8	-29.9	12.24	12.51	11.91	11.31
					OFF	336	29.8	-31.8	12.25	12.62	12.82	11.42
53	3	3	37	97.9	ON	336	34.9	-33.9	12.25	12.68	12.88	11.48
					OFF	335	48.3	-36.9	12.24	12.72	12.12	11.52
54	3	1	49	129.6	ON	325	12.8	-27.7	12.28	11.92	11.32	10.72
					OFF	332	19.8	-29.1	12.23	12.38	11.78	11.18
54	3	2	20	52.9	ON	336	38.8	-32.4	12.25	12.64	12.84	11.44
					OFF	337	33.7	-33.6	12.25	12.67	12.87	11.47
55	4	1	74	195.7	ON	312	1.4	-26.7	12.14	10.48	9.88	9.28
					OFF	326	13.4	-28.1	12.28	12.83	11.43	10.83
55	4	2	17	45.8	ON	338	17.6	-28.8	12.22	12.28	11.68	11.08
					OFF	332	28.3	-29.4	12.23	12.48	11.88	11.28
55	4	3	65	171.9	ON	331	45.9	-41.8	12.22	12.75	12.15	11.55
					OFF	321	53.9	-52.8	12.18	12.75	12.15	11.55
6	8	1	28	52.9	ON	333	19.8	-29.5	12.23	12.39	11.79	11.19

			OFF 334	22.8	-38.2	12.24	12.48	11.88	11.28		
56	8	2	16	42.3	ON 329	46.5	-42.7	12.21	12.75	12.15	11.55
			OFF 327	48.6	-45.8	12.28	12.75	12.15	11.55		
57	9	1	38	188.5	ON 294	61.5	-88.3	12.85	12.75	12.15	11.55
			OFF 283	61.9	-94.6	12.88	12.75	12.15	11.55		
63	2	1	16	42.3	ON 336	32.7	-35.1	12.25	12.66	12.86	11.46
			OFF 336	35.1	-36.3	12.24	12.68	12.88	11.48		
63	2	2	25	66.1	ON 331	43.8	-41.5	12.22	12.73	12.13	11.53
			OFF 327	46.2	-44.5	12.21	12.75	12.15	11.55		
66	9	1	42	111.1	ON 318	8.3	-28.6	12.16	18.27	9.67	9.87
			OFF 326	7.8	-29.2	12.28	11.39	18.79	18.19		
68	9	1	22	58.2	ON 311	-5.8	-28.7	12.13	8.88	8.88	8.88
			OFF 316	-1.3	-28.9	12.16	8.88	8.88	8.88		
68	9	2	21	55.5	ON 325	5.6	-29.5	12.28	11.28	18.68	18.88
			OFF 329	8.9	-29.8	12.21	11.62	11.82	18.42		
68	9	3	34	89.9	ON 382	58.1	-78.9	12.89	12.75	12.15	11.55
			OFF 292	59.7	-81.7	12.84	12.75	12.15	11.55		
69	9	1	22	58.2	ON 388	-11.7	-28.8	12.88	8.88	8.88	8.88
			OFF 386	-8.8	-28.7	12.11	8.88	8.88	8.88		
69	9	2	66	174.6	ON 281	59.8	-94.8	11.99	12.75	12.15	11.55
			OFF 266	55.9	-116.6	11.91	12.75	12.15	11.55		
78	9	1	67	177.2	ON 337	18.8	-31.7	12.25	12.31	11.71	11.11
			OFF 348	27.8	-34.6	12.26	12.59	11.99	11.39		
78	9	2	34	89.9	ON 311	54.8	-61.8	12.13	12.75	12.15	11.55
			OFF 382	57.5	-69.9	12.89	12.75	12.15	11.55		
71	9	1	28	52.9	ON 338	28.3	-32.4	12.25	12.48	11.88	11.28
			OFF 339	23.2	-33.3	12.26	12.58	11.98	11.38		
71	9	2	49	129.6	ON 338	34.6	-37.9	12.25	12.68	12.88	11.48
			OFF 334	41.2	-42.2	12.23	12.72	12.12	11.52		
71	9	3	47	124.3	ON 328	46.1	-46.9	12.21	12.75	12.15	11.55
			OFF 319	51.5	-54.5	12.17	12.75	12.15	11.55		
72	8	1	114	381.5	ON 332	11.3	-38.9	12.23	11.86	11.26	18.66
			OFF 348	28.8	-35.1	12.26	12.68	12.88	11.48		
73	8	1	69	182.5	ON 327	45.7	-47.2	12.21	12.75	12.15	11.55
			OFF 313	53.4	-59.2	12.14	12.75	12.15	11.55		
73	8	2	33	87.3	ON 298	57.8	-73.8	12.87	12.75	12.15	11.55
			OFF 288	59.8	-84.5	12.82	12.75	12.15	11.55		
75	6	1	45	119.8	ON 334	39.9	-42.3	12.23	12.72	12.12	11.52
			OFF 327	45.6	-47.6	12.21	12.74	12.14	11.54		
78	7	1	16	42.3	ON 348	26.1	-35.6	12.26	12.56	11.96	11.36
			OFF 348	28.3	-36.4	12.26	12.68	12.88	11.48		
78	7	2	76	281.8	ON 388	53.7	-62.5	12.12	12.75	12.15	11.55
			OFF 287	58.1	-83.7	12.82	12.75	12.15	11.55		
79	7	1	15	39.7	ON 339	31.1	-37.9	12.26	12.64	12.84	11.44
			OFF 338	33.2	-39.8	12.25	12.66	12.86	11.46		

PHOTOGRAPHIC SUMMARY

AFT PAN CAMERA NO 142 8.1758 SLIT W/21 FILTER 3484 FILM
 OPN NO FRA FEET ET S-EL S-DIR EV FULL INT PRI
 E-FLT 188 264.5

1 6 0	16	42.3	ON 314	21.2	-19.8	12.15	12.44	11.84	11.24
			OFF 318	23.7	-28.1	12.16	12.51	11.91	11.31
5 4 1	44	116.4	ON 382	11.7	-19.8	12.89	11.89	11.29	18.69
			OFF 314	19.7	-28.4	12.15	12.38	11.78	11.18
5 4 2	18	47.6	ON 326	27.9	-21.7	12.28	12.59	11.99	11.39
			OFF 329	31.8	-22.3	12.21	12.64	12.84	11.44
5 4 3	26	68.8	ON 338	68.2	-68.8	12.25	12.75	12.15	11.55
			OFF 334	78.1	-72.1	12.24	12.75	12.15	11.55
7 5 1	69	182.5	ON 342	44.5	-27.6	12.27	12.74	12.14	11.54
			OFF 345	54.7	-34.8	12.28	12.75	12.15	11.55
8 4 1	37	97.9	ON 386	8.6	-28.6	12.11	18.34	9.74	9.14
			OFF 316	7.4	-28.3	12.15	11.44	18.84	18.24
8 4 2	28	74.1	ON 319	9.6	-28.3	12.17	11.69	11.89	18.49
			OFF 325	14.4	-28.5	12.28	12.18	11.58	18.98
9 7 8	13	34.4	ON 242	-56.3	322.7	11.77	8.88	8.88	8.88
			OFF 243	-53.8	325.3	11.78	8.88	8.88	8.88
9 7 1	28	52.9	ON 344	47.6	-29.9	12.28	12.75	12.15	11.55
			OFF 343	58.6	-31.9	12.28	12.75	12.15	11.55
10 4 1	19	58.3	ON 345	44.7	-28.5	12.28	12.74	12.14	11.54
			OFF 344	47.6	-38.2	12.28	12.75	12.15	11.55
10 4 2	61	161.3	ON 344	49.2	-31.2	12.28	12.75	12.15	11.55
			OFF 338	57.9	-39.5	12.25	12.75	12.15	11.55
11 8 1	62	164.8	ON 344	48.1	-38.8	12.28	12.75	12.15	11.55
			OFF 339	56.9	-38.8	12.26	12.75	12.15	11.55
13 7 1	68	158.7	ON 386	69.6	-93.8	12.11	12.75	12.15	11.55
			OFF 289	66.1	-128.9	12.83	12.75	12.15	11.55
4 3 1	42	111.1	ON 332	57.6	-48.8	12.23	12.75	12.15	11.55
			OFF 326	62.9	-58.3	12.28	12.75	12.15	11.55
14 3 2	34	89.9	ON 298	69.3	-97.8	12.87	12.75	12.15	11.55
			OFF 289	67.4	-113.9	12.83	12.75	12.15	11.55
16 3 8	15	39.7	ON 339	35.1	-25.9	12.26	12.68	12.88	11.48
			OFF 339	37.4	-26.7	12.26	12.78	12.18	11.58
20 3 1	39	183.2	ON 322	12.8	-22.6	12.18	11.98	11.38	18.78
			OFF 329	19.4	-23.2	12.21	12.37	11.77	11.17
20 3 2	35	92.6	ON 332	22.6	-23.7	12.23	12.48	11.88	11.28
			OFF 336	28.4	-24.8	12.25	12.68	12.88	11.48
21 3 1	21	55.5	ON 322	12.6	-22.7	12.18	11.97	11.37	18.77
			OFF 326	16.2	-23.8	12.28	12.21	11.61	11.81
21 3 2	26	68.8	ON 333	24.8	-24.1	12.23	12.52	11.92	11.32
			OFF 336	28.3	-25.8	12.25	12.68	12.88	11.48
22 3 1	28	52.9	ON 295	-6.6	-23.9	12.86	8.88	8.88	8.88
			OFF 388	-3.8	-23.4	12.88	8.88	8.88	8.88
22 3 2	38	79.3	ON 324	13.6	-23.8	12.19	12.85	11.45	18.85
			OFF 329	18.6	-23.5	12.21	12.33	11.73	11.13
22 3 3	38	188.5	ON 338	38.7	-25.9	12.25	12.63	12.83	11.43
			OFF 348	36.7	-27.8	12.26	12.69	12.89	11.49
22 3 4	34	89.9	ON 338	46.4	-32.8	12.26	12.75	12.15	11.55
			OFF 336	51.3	-36.7	12.24	12.75	12.15	11.55
23 5 1	17	45.8	ON 336	27.7	-25.3	12.25	12.59	11.99	11.39
			OFF 338	38.4	-26.8	12.25	12.63	12.83	11.43
3 5 2	28	52.9	ON 348	37.2	-28.2	12.26	12.78	12.18	11.58

CONFIDENTIAL

				OFF 348	48.2	-29.6	12.26	12.72	12.12	11.52	
23	5	3	26	68.8	ON 348	41.8	-38.3	12.26	12.73	12.13	11.53
				OFF 339	45.6	-32.6	12.26	12.74	12.14	11.54	
23	5	4	25	66.1	ON 337	49.6	-35.5	12.25	12.75	12.15	11.55
				OFF 334	53.1	-38.9	12.24	12.75	12.15	11.55	
24	5	1	17	45.8	ON 333	22.7	-24.5	12.23	12.48	11.88	11.28
				OFF 335	25.5	-25.8	12.24	12.55	11.95	11.35	
25	6	1	25	66.1	ON 336	58.3	-36.7	12.24	12.75	12.15	11.55
				OFF 333	53.7	-48.2	12.23	12.75	12.15	11.55	
25	6	2	41	188.4	ON 324	68.7	-51.2	12.19	12.75	12.15	11.55
				OFF 316	64.7	-63.5	12.15	12.75	12.15	11.55	
26	6	1	78	286.3	ON 337	48.7	-35.7	12.25	12.75	12.15	11.55
				OFF 327	58.9	-48.2	12.21	12.75	12.15	11.55	
27	4	1	72	198.4	ON 337	49.8	-36.2	12.25	12.75	12.15	11.55
				OFF 328	58.4	-47.8	12.21	12.75	12.15	11.55	
31	8	1	17	45.8	ON 339	38.7	-27.7	12.26	12.63	12.83	11.43
				OFF 348	33.3	-28.6	12.26	12.66	12.86	11.46	
32	8	8	15	39.7	ON 348	33.8	-28.7	12.26	12.66	12.86	11.46
				OFF 348	35.3	-29.6	12.26	12.68	12.88	11.48	
33	3	1	18	47.6	ON 315	4.3	-24.7	12.15	11.88	18.48	9.88
				OFF 319	7.3	-24.7	12.17	11.43	18.83	18.23	
34	7	1	41	188.4	ON 316	4.8	-24.8	12.16	11.88	18.48	9.88
				OFF 324	11.7	-25.8	12.19	11.89	11.29	18.69	
37	4	1	26	68.8	ON 335	25.3	-27.5	12.24	12.55	11.95	11.35
				OFF 338	29.5	-28.6	12.25	12.62	12.82	11.42	
37	4	2	26	68.8	ON 348	37.5	-31.7	12.26	12.78	12.18	11.58
				OFF 348	41.3	-33.7	12.26	12.73	12.13	11.53	
39	8	1	26	68.8	ON 339	32.3	-38.8	12.26	12.65	12.85	11.45
				OFF 348	36.3	-31.6	12.26	12.69	12.89	11.49	
39	8	2	88	211.6	ON 348	38.6	-32.7	12.26	12.71	12.11	11.51
				OFF 336	49.7	-48.7	12.24	12.75	12.15	11.55	
48	3	1	16	42.3	ON 339	42.3	-35.1	12.26	12.73	12.13	11.53
				OFF 337	44.7	-36.7	12.25	12.74	12.14	11.54	
48	3	2	19	58.3	ON 335	47.3	-38.7	12.24	12.75	12.15	11.55
				OFF 333	49.9	-41.2	12.23	12.75	12.15	11.55	
41	5	1	72	198.4	ON 337	45.8	-37.2	12.25	12.74	12.14	11.54
				OFF 327	54.4	-47.3	12.21	12.75	12.15	11.55	
43	4	1	26	68.8	ON 339	39.6	-34.2	12.26	12.72	12.12	11.52
				OFF 338	43.3	-36.5	12.25	12.74	12.14	11.54	
43	4	2	25	66.1	ON 336	45.5	-38.2	12.25	12.74	12.14	11.54
				OFF 333	49.8	-41.3	12.23	12.75	12.15	11.55	
47	6	1	25	66.1	ON 336	44.2	-38.3	12.25	12.74	12.14	11.54
				OFF 334	47.6	-41.2	12.23	12.75	12.15	11.55	
51	3	1	89	235.4	ON 316	8.8	-27.9	12.16	18.36	9.76	9.16
				OFF 333	15.1	-28.4	12.23	12.15	11.55	18.95	
52	3	1	48	185.8	ON 338	12.3	-28.2	12.22	11.94	11.34	18.74
				OFF 336	18.6	-29.8	12.24	12.33	11.73	11.13	
53	3	1	23	68.8	ON 383	-7.7	-29.3	12.18	8.88	8.88	8.88
				OFF 329	-3.8	-28.7	12.13	8.88	8.88	8.88	
53	3	2	39	183.2	ON 339	23.1	-38.1	12.26	12.49	11.89	11.29
				OFF 341	28.9	-31.8	12.27	12.61	12.81	11.41	

СГАДЕТ

3	3	3	38	188.5	ON	341	34.8	-33.8	12.27	12.67	12.87	11.47
					OFF	348	39.4	-36.6	12.26	12.71	12.11	11.51
54	3	1	58	132.3	ON	338	11.1	-28.5	12.22	11.84	11.24	18.64
					OFF	337	18.9	-29.5	12.25	12.35	11.75	11.15
54	3	2	28	52.9	ON	341	29.9	-32.4	12.27	12.62	12.82	11.42
					OFF	341	32.9	-33.5	12.27	12.66	12.86	11.46
55	4	1	75	198.4	ON	316	8.4	-28.6	12.16	18.29	9.69	9.89
					OFF	331	12.4	-28.8	12.22	11.96	11.36	18.76
55	4	2	17	45.8	ON	335	16.6	-29.3	12.24	12.24	11.64	11.84
					OFF	337	19.3	-29.7	12.25	12.37	11.77	11.17
55	4	3	66	174.6	ON	336	45.1	-41.3	12.24	12.74	12.14	11.54
					OFF	325	53.2	-51.8	12.28	12.75	12.15	11.55
56	8	1	28	52.9	ON	338	18.9	-29.9	12.25	12.35	11.75	11.15
					OFF	339	21.9	-38.5	12.26	12.46	11.86	11.26
56	8	2	16	42.3	ON	334	45.7	-42.2	12.24	12.75	12.15	11.55
					OFF	332	47.9	-44.3	12.23	12.75	12.15	11.55
57	9	1	39	183.2	ON	298	61.2	-78.2	12.87	12.75	12.15	11.55
					OFF	287	61.9	-92.3	12.82	12.75	12.15	11.55
63	2	1	17	45.8	ON	341	31.9	-35.8	12.27	12.65	12.85	11.45
					OFF	341	34.3	-36.2	12.26	12.67	12.87	11.47
63	2	2	25	66.1	ON	335	42.2	-41.1	12.24	12.73	12.13	11.53
					OFF	332	45.4	-43.9	12.23	12.74	12.14	11.54
66	9	1	42	111.1	ON	323	-8.6	-38.5	12.19	8.88	8.88	8.88
					OFF	331	6.1	-38.3	12.22	11.27	18.67	18.87
68	9	1	23	68.8	ON	315	-5.9	-31.5	12.15	8.88	8.88	8.88
					OFF	321	-2.2	-31.8	12.18	8.88	8.88	8.88
8	9	2	21	55.5	ON	338	4.7	-38.6	12.22	11.87	18.47	9.87
					OFF	334	8.8	-38.7	12.23	11.51	18.91	18.31
68	9	3	34	89.9	ON	386	57.7	-69.2	12.11	12.75	12.15	11.55
					OFF	297	59.5	-79.7	12.86	12.75	12.15	11.55
69	9	1	22	58.2	ON	385	-12.6	-32.9	12.18	8.88	8.88	8.88
					OFF	311	-8.9	-32.2	12.13	8.88	8.88	8.88
69	9	2	67	177.2	ON	286	59.8	-92.6	12.81	12.75	12.15	11.55
					OFF	278	56.4	-114.6	11.93	12.75	12.15	11.55
78	9	1	68	179.9	ON	342	17.1	-32.1	12.27	12.26	11.66	11.86
					OFF	345	26.9	-34.6	12.28	12.58	11.98	11.38
78	9	2	35	92.6	ON	316	54.2	-59.7	12.16	12.75	12.15	11.55
					OFF	387	57.1	-68.3	12.11	12.75	12.15	11.55
71	9	1	28	52.9	ON	343	19.4	-32.7	12.27	12.37	11.77	11.17
					OFF	344	22.3	-33.4	12.28	12.47	11.87	11.27
71	9	2	49	129.6	ON	343	33.8	-37.7	12.27	12.67	12.87	11.47
					OFF	339	48.4	-41.8	12.26	12.72	12.12	11.52
71	9	3	47	124.3	ON	333	45.3	-46.2	12.23	12.74	12.14	11.54
					OFF	324	58.8	-53.5	12.19	12.75	12.15	11.55
72	8	1	116	386.8	ON	337	18.4	-31.6	12.25	11.77	11.17	18.57
					OFF	345	27.1	-35.1	12.28	12.58	11.98	11.38
73	8	1	78	185.1	ON	332	45.8	-46.5	12.23	12.74	12.14	11.54
					OFF	318	52.8	-58.8	12.16	12.75	12.15	11.55
73	8	2	34	89.9	ON	382	57.4	-72.1	12.89	12.75	12.15	11.55
					OFF	293	58.8	-82.5	12.85	12.75	12.15	11.55
5	6	1	45	119.8	ON	339	39.1	-41.9	12.26	12.71	12.11	11.51

			OFF 332	44.8	-47.8	12.23	12.74	12.14	11.54		
78	7	1	16	42.3	ON 345	25.2	-35.6	12.28	12.54	11.94	11.34
			OFF 345			27.5	-36.4	12.28	12.59	11.99	11.39
78	7	2	78	206.3	ON 313	53.2	-61.3	12.14	12.75	12.15	11.55
			OFF 291			57.9	-81.8	12.04	12.75	12.15	11.55
79	7	1	16	42.3	ON 344	30.2	-37.8	12.28	12.63	12.03	11.43
			OFF 343			32.4	-38.8	12.27	12.65	12.05	11.45

STELLAR-INDEX SUMMARY

CAMERA DATA	ET	FILM	FILTER	GRID	ASSEMBLY NO	D73
STELLAR	2.0	3401	NONE	78		
INDEX	1/500	3400	W/21	88		

PERFORMANCE SUMMARY

OPN NO	FR	STEL FEET	INDX FEET	H	M	S	Q	ON LAT	ON LONG	Q	OFF LAT	OFF LONG	SEC DUR		
PRE-FLT	14	1.39	2.77												
1	6	0	2	0.28	0.40	19	14	13	2	53	152W	2	51	151W	38
5	4	1	6	0.59	1.19	1	11	0	2	61	108E	2	54	115E	126
5	4	2	3	0.30	0.59	1	15	15	2	46	120E	2	43	122E	49
5	4	3	4	0.40	0.79	1	27	20	3	0	134E	3	5	135E	69
7	5	1	9	0.89	1.78	4	19	20	2	29	82E	2	17	85E	175
6	4	1	6	0.59	1.19	5	37	35	2	70	22E	2	65	35E	106
8	4	2	4	0.40	0.79	5	39	55	2	63	38E	2	59	43E	76
9	7	0	1	0.10	0.20	6	51	52	1	38	115W	1	41	114W	47
9	7	1	3	0.30	0.59	7	19	52	2	25	37E	2	22	38E	50
0	4	1	3	0.30	0.59	8	48	52	2	28	14E	2	25	15E	50
10	4	2	9	0.89	1.78	8	50	8	2	23	15E	2	13	18E	156
11	8	1	8	0.79	1.58	10	19	40	2	24	7W	2	14	4W	157
13	7	1	9	0.89	1.78	13	28	47	3	13	44W	3	24	41W	174
14	3	1	6	0.59	1.19	14	51	59	2	12	72W	2	5	70W	111
14	3	2	4	0.40	0.79	14	59	2	3	15	66W	3	21	64W	99
16	3	0	2	0.20	0.40	17	45	8	2	37	124W	2	35	123W	38
22	3	1	6	0.59	1.19	23	38	23	2	59	131E	2	53	137E	105
22	3	2	5	0.50	0.99	23	41	1	2	50	139E	2	44	142E	92
21	3	1	3	0.30	0.59	1	8	9	2	59	108E	2	56	111E	56
21	3	2	4	0.40	0.79	1	11	11	2	48	117E	2	44	119E	69
22	3	1	2	0.20	0.40	2	32	52	2	73	47E	2	71	58E	57
22	3	2	4	0.40	0.79	2	38	13	2	58	87E	2	53	91E	79
22	3	3	6	0.59	1.19	2	42	48	2	41	98E	2	35	100E	98
22	3	4	5	0.50	0.99	2	47	10	2	24	103E	2	18	105E	88
23	5	1	2	0.20	0.40	4	11	47	2	44	74E	2	41	75E	45
23	5	2	3	0.30	0.59	4	14	22	2	34	78E	2	31	79E	52
23	5	3	4	0.40	0.79	4	15	39	2	29	79E	2	25	80E	66
23	5	4	3	0.30	0.59	4	17	56	2	20	82E	2	16	83E	65
24	5	1	3	0.30	0.59	5	40	14	2	49	48E	2	46	50E	45
25	0	1	3	0.30	0.59	7	17	47	2	19	37E	2	15	38E	64
25	0	2	6	0.59	1.19	7	21	17	2	5	40E	3	1	41E	111
26	0	1	11	1.09	2.18	8	47	7	2	21	14E	2	8	17E	200
27	4	1	10	0.99	1.98	10	17	2	2	20	8W	2	8	5W	186
1	0	1	3	0.30	0.59	16	11	0	2	40	105W	2	37	104W	44

2	8	0	2	0.20	0.40	17	41	28	2	37	126W	2	35	125W	38
33	3	1	2	0.20	0.40	19	3	27	2	65	172W	2	63	167W	49
34	7	1	6	0.59	1.19	20	33	23	2	65	166E	2	59	174E	110
37	4	1	4	0.40	0.79	1	8	19	2	45	116E	2	40	118E	69
37	4	2	3	0.30	0.59	1	11	43	2	32	122E	2	27	123E	67
39	8	1	4	0.40	0.79	4	9	51	2	37	74E	2	33	76E	67
39	8	2	11	1.09	2.18	4	11	40	2	38	77E	2	17	80E	202
40	3	1	3	0.30	0.59	5	42	33	2	26	55E	2	23	56E	43
40	3	2	2	0.20	0.40	5	44	4	2	20	57E	2	16	58E	51
41	5	1	10	0.99	1.98	7	13	10	2	22	34E	2	10	36E	186
43	4	1	4	0.40	0.79	10	11	9	2	28	12W	2	24	11W	66
43	4	2	4	0.40	0.79	10	12	57	2	21	10W	2	17	9W	66
47	6	1	3	0.30	0.59	16	11	44	2	22	101W	2	18	100W	64
51	3	1	13	1.29	2.57	21	58	32	2	67	136E	2	54	154E	238
52	3	1	5	0.50	0.99	23	31	29	2	56	129E	2	50	134E	105
53	3	1	4	0.40	0.79	0	55	45	2	73	69E	2	70	61E	65
53	3	2	5	0.50	0.99	1	4	17	2	45	114E	2	39	117E	100
53	3	3	5	0.50	0.99	1	7	26	2	33	119E	2	27	121E	97
54	3	1	7	0.69	1.39	2	30	43	2	57	83E	2	49	89E	130
54	3	2	3	0.30	0.59	2	36	1	2	37	95E	2	34	96E	51
55	4	1	11	1.09	2.18	3	57	31	2	67	46E	2	56	62E	201
55	4	2	2	0.20	0.40	4	2	2	2	52	65E	2	49	67E	46
55	4	3	10	0.99	1.98	4	10	25	2	19	77E	2	0	80E	172
56	8	1	2	0.20	0.40	5	32	27	2	49	44E	2	46	46E	51
56	8	2	3	0.30	0.59	5	40	26	2	18	55E	2	15	56E	43
57	9	1	5	0.50	0.99	7	17	27	3	10	38E	3	17	40E	113
3	2	1	2	0.20	0.40	16	4	38	2	34	107W	2	31	106W	44
63	2	2	4	0.40	0.79	16	7	49	2	21	103W	2	17	102W	65
66	9	1	6	0.59	1.19	20	24	38	2	67	157E	2	61	167E	113
66	9	1	3	0.30	0.59	23	22	40	2	71	99E	2	68	109E	63
66	9	2	3	0.30	0.59	23	25	40	2	62	120E	2	59	124E	55
66	9	3	5	0.50	0.99	23	43	18	3	5	148E	3	11	150E	99
69	9	1	3	0.30	0.59	0	50	30	2	74	53E	2	73	67E	64
69	9	2	10	0.99	1.98	1	16	34	3	18	129E	3	32	132E	209
70	9	1	9	0.89	1.78	2	28	44	2	49	87E	2	38	92E	171
70	9	2	5	0.50	0.99	2	41	0	2	1	102E	3	4	103E	97
71	9	1	3	0.30	0.59	3	59	9	2	47	66E	2	43	67E	52
71	9	2	7	0.69	1.39	4	3	27	2	30	72E	2	22	75E	126
71	9	3	7	0.69	1.39	4	7	14	2	15	76E	2	7	78E	126
72	8	1	16	1.58	3.17	5	26	20	2	56	37E	2	38	47E	292
73	8	1	10	0.99	1.98	7	6	42	2	15	31E	2	3	33E	187
73	8	2	4	0.40	0.79	7	12	29	3	7	36E	3	13	37E	98
75	0	1	7	0.69	1.39	10	4	16	2	23	15W	2	15	13W	110
70	7	1	2	0.20	0.40	14	29	14	2	39	88W	2	36	87W	41
76	7	2	11	1.09	2.18	14	39	6	2	0	78W	3	13	75W	210
79	7	1	2	0.20	0.40	16	0	33	2	33	109W	2	30	108W	40

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

NOTE - MISSION 1025 IS BEING FLOWN WITH THE AGENA MOVING NOSE-FIRST THROUGH ORBIT INSTEAD OF THE USUAL TAIL-FIRST FLIGHT.

SECRET

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 142, IS THE AFT LOOKING CAMERA AND THE SLAVE PAN CAMERA, INSTRUMENT 127, IS THE FORWARD LOOKING CAMERA.

NOTE - OPERATION 079-07-1 ACTUALLY CONSISTED OF FOUR MORE CYCLES THAN SHOWN HERE - THE LAST FOUR FRAMES ARE CONTAINED IN THE B MISSION RECOVERY BUCKET

NOTE - THE STELLAR FILM TAKEN DURING THE FOLLOWING OPERATIONS HAS PROBABLY BEEN TAKEN WHILE THE BAFFLE WAS EXPOSED TO DIRECT SUNLIGHT -

REV	PROG	OP	REV	PROG	OP
008	04	1	055	04	1
022	03	1	066	09	1
051	03	1	068	09	1
053	03	1	069	09	1

- A. 1025-1 LAUNCHED AT 1746Z ON 10/05/65
- B. DRY
- C. PERFORMANCE ESTIMATE PART TWO

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 REQD
1 6 0	16	7	7	ON 1334	0.3615	0.03050	2.271 54.51	-1.0 -4.9
				OFF 38	0.3652	0.03082	2.295 55.07	-1.0 -4.6
5 4 1	44	7	7	ON 1210	0.3474	0.02931	2.183 52.39	-1.0 -6.1
				OFF 126	0.3614	0.03049	2.271 54.49	-1.0 -4.8
5 4 2	18	7	7	ON 1465	0.3746	0.03161	2.354 56.49	-1.0 -3.4
				OFF 49	0.3786	0.03195	2.379 57.10	-1.0 -3.0
5 4 3	26	7	7	ON 2190	0.3887	0.03279	2.442 58.61	-1.0 2.6
				OFF 69	0.3843	0.03243	2.415 57.95	-1.0 3.2
7 5 1	68	7	7	ON 1740	0.3932	0.03318	2.471 59.29	-1.0 -1.1
				OFF 175	0.3969	0.03349	2.494 59.85	-1.0 0.3
8 4 1	37	7	7	ON 1247	0.3518	0.02968	2.210 53.04	-1.0 -0.9
				OFF 106	0.3632	0.03064	2.282 54.76	-1.0 -0.2
8 4 2	27	7	7	ON 1387	0.3670	0.03097	2.306 55.35	-1.0 0.1
				OFF 76	0.3741	0.03157	2.351 56.42	-1.0 0.3
9 7 0	13	7	7	ON 314	0.2772	0.02339	1.742 41.00	-1.0 -2.9
				OFF 47	0.2790	0.02354	1.753 42.07	-1.0 -3.2
9 7 1	19	7	7	ON 1995	0.3962	0.03343	2.490 59.75	-1.0 -0.3
				OFF 50	0.3952	0.03334	2.483 59.59	-1.0 -0.5
10 4 1	19	7	7	ON 1949	0.3968	0.03348	2.493 59.83	-1.0 -0.3
				OFF 50	0.3962	0.03343	2.489 59.74	-1.0 -0.4
10 4 2	61	7	7	ON 2025	0.3956	0.03338	2.486 59.65	-1.0 -0.5
				OFF 156	0.3893	0.03285	2.446 58.71	-1.0 -0.9
1 8 1	61	7	7	ON 2013	0.3959	0.03340	2.487 59.70	-1.0 -0.6

					OFF	157	0.3980	0.03291	2.450	58.81	-1.0	-1.0
13	7	1	59	7	7 ON	2592	0.3517	0.02968	2.210	53.04	-1.0	-1.6
					OFF	174	0.3320	0.02802	2.086	50.07	-1.0	-1.3
14	3	1	42	7	7 ON	2200	0.3811	0.03215	2.394	57.46	-2.7	-2.0
					OFF	111	0.3735	0.03151	2.347	56.32	-2.7	-3.0
14	3	2	33	7	7 ON	2622	0.3419	0.02885	2.148	51.56	-2.7	-3.5
					OFF	99	0.3307	0.02791	2.078	49.87	-2.7	-3.4
16	3	0	14	7	7 ON	1819	0.3886	0.03279	2.442	58.60	-2.7	-1.6
					OFF	38	0.3893	0.03284	2.446	58.70	-2.7	-1.7
20	3	1	39	7	7 ON	1478	0.3691	0.03114	2.319	55.65	-2.7	-1.5
					OFF	105	0.3772	0.03183	2.370	56.88	-2.7	-1.3
20	3	2	35	7	7 ON	1636	0.3809	0.03214	2.393	57.43	-2.7	-1.2
					OFF	92	0.3855	0.03253	2.422	58.13	-2.7	-1.3
21	3	1	20	7	7 ON	1479	0.3692	0.03115	2.319	55.67	-2.7	-1.5
					OFF	56	0.3736	0.03152	2.347	56.34	-2.7	-1.4
21	3	2	26	7	7 ON	1661	0.3824	0.03226	2.403	57.66	-2.7	-1.2
					OFF	69	0.3856	0.03254	2.423	58.15	-2.7	-1.3
22	3	1	19	7	7 ON	1179	0.3376	0.02849	2.121	50.91	-2.7	-3.7
					OFF	57	0.3439	0.02901	2.161	51.85	-2.7	-3.2
22	3	2	29	7	7 ON	1500	0.3709	0.03130	2.331	55.93	-2.7	-1.4
					OFF	79	0.3769	0.03100	2.368	56.84	-2.7	-1.3
22	3	3	38	7	7 ON	1775	0.3874	0.03269	2.434	58.42	-2.7	-1.4
					OFF	98	0.3895	0.03286	2.447	58.73	-2.7	-1.7
22	3	4	34	7	7 ON	2637	0.3882	0.03275	2.439	58.54	-2.7	-2.2
					OFF	88	0.3852	0.03250	2.420	58.08	-2.7	-2.5
23	5	1	17	7	7 ON	1729	0.3857	0.03254	2.423	58.16	-2.7	-1.3
					OFF	45	0.3872	0.03267	2.433	58.39	-2.7	-1.4
23	5	2	20	7	7 ON	1884	0.3896	0.03207	2.448	58.75	-2.7	-1.7
					OFF	52	0.3897	0.03200	2.449	58.77	-2.7	-1.9
23	5	3	25	7	7 ON	1962	0.3895	0.03207	2.447	58.74	-2.7	-2.0
					OFF	66	0.3885	0.03278	2.441	58.58	-2.7	-2.2
23	5	4	25	7	7 ON	2098	0.3862	0.03250	2.426	58.23	-2.7	-2.5
					OFF	65	0.3833	0.03234	2.408	57.00	-2.7	-2.7
24	5	1	17	7	7 ON	1651	0.3818	0.03222	2.399	57.57	-2.7	-1.2
					OFF	45	0.3841	0.03241	2.413	57.92	-2.7	-1.3
25	6	1	25	7	7 ON	2120	0.3852	0.03251	2.421	58.09	-2.7	-2.5
					OFF	64	0.3822	0.03225	2.401	57.63	-2.7	-2.7
25	6	2	41	7	7 ON	2330	0.3717	0.03136	2.335	56.05	-2.7	-3.2
					OFF	111	0.3618	0.03053	2.273	54.56	-2.7	-3.3
26	6	1	77	7	7 ON	2096	0.3875	0.03270	2.435	58.44	-2.4	-2.1
					OFF	200	0.3759	0.03172	2.362	56.68	-2.4	-2.7
27	4	1	71	7	7 ON	2103	0.3873	0.03268	2.433	58.40	-2.4	-2.1
					OFF	186	0.3765	0.03177	2.366	56.77	-2.4	-2.6
31	6	1	17	7	7 ON	1810	0.3897	0.03288	2.449	58.76	-2.4	-1.1
					OFF	44	0.3905	0.03295	2.454	58.89	-2.4	-1.3
32	8	0	15	7	7 ON	1854	0.3906	0.03296	2.454	58.90	-2.4	-1.2
					OFF	38	0.3909	0.03299	2.456	58.95	-2.4	-1.4
33	3	1	17	7	7 ON	1389	0.3618	0.03053	2.273	54.56	-2.4	-1.7
					OFF	49	0.3663	0.03090	2.301	55.23	-2.4	-1.5
34	7	1	40	7	7 ON	1401	0.3630	0.03063	2.281	54.75	-2.4	-1.7
					OFF	110	0.3729	0.03146	2.343	56.23	-2.4	-1.2

7	4	1	26	7	7	ON	1694	0.3854	0.03252	2.422	58.12	-2.4	-1.6
						OFF	69	0.3882	0.03276	2.439	58.54	-2.4	-1.5
37	4	2	26	7	7	ON	1899	0.3910	0.03299	2.457	58.96	-2.4	-1.5
						OFF	67	0.3900	0.03298	2.456	58.94	-2.4	-1.5
39	8	1	26	7	7	ON	1819	0.3899	0.03290	2.450	58.80	-2.4	-1.5
						OFF	67	0.3909	0.03298	2.456	58.95	-2.4	-1.5
39	8	2	79	7	7	ON	1928	0.3910	0.03300	2.457	58.97	-2.4	-1.5
						OFF	282	0.3863	0.03259	2.427	58.25	-2.4	-1.6
40	3	1	16	7	7	ON	2051	0.3891	0.03283	2.445	58.68	-2.4	-1.9
						OFF	43	0.3878	0.03272	2.436	58.47	-2.4	-2.0
40	3	2	19	7	7	ON	2142	0.3855	0.03253	2.422	58.14	-2.4	-2.2
						OFF	51	0.3830	0.03231	2.406	57.75	-2.4	-2.4
41	5	1	71	7	7	ON	2105	0.3872	0.03267	2.433	58.39	-2.4	-2.1
						OFF	186	0.3763	0.03175	2.364	56.74	-2.4	-2.7
43	4	1	25	7	7	ON	2017	0.3900	0.03290	2.450	58.81	-2.4	-1.7
						OFF	66	0.3881	0.03275	2.439	58.53	-2.4	-2.0
43	4	2	25	7	7	ON	2125	0.3864	0.03260	2.428	58.26	-2.4	-2.2
						OFF	66	0.3831	0.03233	2.407	57.77	-2.4	-2.4
47	6	1	25	7	7	ON	2120	0.3865	0.03262	2.429	58.29	-2.4	-2.1
						OFF	64	0.3834	0.03235	2.409	57.82	-2.4	-2.3
51	3	1	88	7	7	ON	1385	0.3615	0.03051	2.272	54.52	-2.4	-2.2
						OFF	238	0.3813	0.03217	2.396	57.49	-2.4	-1.1
52	3	1	40	7	7	ON	1578	0.3704	0.03193	2.370	57.07	-2.4	-1.2
						OFF	185	0.3848	0.03247	2.418	58.03	-2.4	-1.1
53	3	1	23	7	7	ON	1252	0.3472	0.02929	2.181	52.35	-2.4	-3.5
						OFF	65	0.3540	0.02987	2.224	53.39	-2.4	-2.9
3	3	2	38	7	7	ON	1763	0.3884	0.03277	2.440	58.57	-2.4	-1.0
						OFF	100	0.3907	0.03297	2.455	58.92	-2.4	-1.2
53	3	3	37	7	7	ON	1952	0.3910	0.03299	2.457	58.97	-2.4	-1.4
						OFF	97	0.3893	0.03285	2.446	58.71	-2.4	-1.7
54	3	1	49	7	7	ON	1567	0.3776	0.03186	2.372	56.94	-2.4	-1.2
						OFF	130	0.3855	0.03253	2.422	58.13	-2.4	-1.0
54	3	2	20	7	7	ON	1885	0.3910	0.03299	2.457	58.96	-2.4	-1.2
						OFF	51	0.3911	0.03300	2.458	58.98	-2.4	-1.3
55	4	1	74	7	7	ON	1391	0.3622	0.03056	2.276	54.61	-2.4	-2.2
						OFF	201	0.3792	0.03199	2.382	57.18	-2.4	-1.2
55	4	2	17	7	7	ON	1662	0.3838	0.03238	2.411	57.87	-2.4	-1.0
						OFF	46	0.3860	0.03257	2.425	58.20	-2.4	-1.0
55	4	3	65	7	7	ON	2165	0.3844	0.03244	2.416	57.97	-2.4	-2.0
						OFF	172	0.3727	0.03145	2.342	56.20	-2.4	-2.5
56	8	1	20	7	7	ON	1720	0.3867	0.03263	2.430	58.31	-2.4	-0.8
						OFF	51	0.3886	0.03279	2.441	58.59	-2.4	-0.9
56	8	2	10	7	7	ON	2199	0.3825	0.03228	2.404	57.68	-2.4	-2.3
						OFF	43	0.3800	0.03206	2.387	57.30	-2.4	-2.4
57	9	1	38	7	7	ON	2638	0.3414	0.02880	2.145	51.47	-2.4	-3.7
						OFF	113	0.3286	0.02772	2.064	49.55	-2.4	-3.6
63	2	1	16	7	7	ON	1977	0.3900	0.03297	2.455	58.93	-2.4	-1.3
						OFF	44	0.3901	0.03291	2.451	58.82	-2.4	-1.5
63	2	2	25	7	7	ON	2169	0.3842	0.03242	2.414	57.94	-2.4	-2.2
						OFF	65	0.3885	0.03211	2.391	57.38	-2.4	-2.4
6	9	1	42	7	7	ON	1432	0.3696	0.03118	2.322	55.73	-1.5	-0.7

					OFF	113	0.3792	0.03200	2.383	57.18	-1.5	-0.1
68	9	1	22	7	7 ON	1348	0.3611	0.03047	2.269	54.46	-1.5	-1.4
					OFF	63	0.3673	0.03099	2.308	55.38	-1.5	-1.0
68	9	2	21	7	7 ON	1529	0.3782	0.03191	2.376	57.03	-1.5	-0.2
					OFF	55	0.3822	0.03225	2.401	57.63	-1.5	-0.0
68	9	3	34	7	7 ON	2586	0.3505	0.02958	2.203	52.86	-1.5	-2.7
					OFF	99	0.3394	0.02864	2.132	51.18	-1.5	-2.8
69	9	1	22	7	7 ON	1236	0.3486	0.02942	2.191	52.57	-1.5	-2.7
					OFF	64	0.3555	0.02999	2.234	53.61	-1.5	-2.0
69	9	2	66	7	7 ON	2800	0.3270	0.02759	2.054	49.31	-1.5	-2.5
					OFF	209	0.3091	0.02608	1.942	46.61	-1.5	-0.4
70	9	1	67	7	7 ON	1748	0.3915	0.03303	2.460	59.04	-1.5	0.2
					OFF	171	0.3948	0.03331	2.481	59.54	-1.5	-0.1
70	9	2	34	7	7 ON	2485	0.3618	0.03052	2.273	54.55	-1.5	-2.4
					OFF	97	0.3514	0.02965	2.208	52.99	-1.5	-2.6
71	9	1	20	7	7 ON	1791	0.3930	0.03316	2.469	59.26	-1.5	0.2
					OFF	52	0.3941	0.03325	2.476	59.43	-1.5	0.1
71	9	2	49	7	7 ON	2049	0.3929	0.03315	2.469	59.25	-1.5	-0.6
					OFF	126	0.3877	0.03271	2.436	58.47	-1.5	-1.1
71	9	3	47	7	7 ON	2276	0.3809	0.03214	2.393	57.44	-1.5	-1.6
					OFF	126	0.3704	0.03125	2.327	55.85	-1.5	-2.8
72	8	1	114	7	7 ON	1640	0.3861	0.03258	2.426	58.23	-1.5	0.2
					OFF	292	0.3948	0.03331	2.481	59.54	-1.5	-0.1
73	8	1	69	7	7 ON	2280	0.3806	0.03211	2.391	57.39	-1.5	-1.6
					OFF	187	0.3640	0.03071	2.287	54.88	-1.5	-2.2
73	8	2	33	7	7 ON	2626	0.3459	0.02919	2.173	52.16	-1.5	-2.8
					OFF	98	0.3347	0.02824	2.103	50.47	-1.5	-2.9
75	6	1	45	7	7 ON	2171	0.3877	0.03272	2.436	58.47	-1.5	-1.1
					OFF	118	0.3802	0.03208	2.309	57.33	-1.5	-1.5
76	7	1	16	7	7 ON	1926	0.3948	0.03331	2.481	59.54	-1.5	-0.0
					OFF	41	0.3946	0.03330	2.479	59.50	-1.5	-0.2
78	7	2	76	7	7 ON	2517	0.3583	0.03023	2.251	54.03	-1.5	-2.5
					OFF	218	0.3334	0.02813	2.095	50.27	-1.5	-3.0
79	7	1	15	7	7 ON	2024	0.3936	0.03321	2.473	59.35	-1.5	-0.4
					OFF	40	0.3926	0.03312	2.467	59.20	-1.5	-0.5

RATE ESTIMATE

AFT PAN CAMERA NUMBER 142

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG VEL	SCAN RATE R/SEC	RATE I/SEC	PCT CALIB	RATE REQD		
1	6	2	16	7	7 ON	1334	0.3654	0.03083	2.296	55.09	-0.5	-3.0
					OFF	38	0.3691	0.03114	2.319	55.65	-0.5	-3.5
5	4	1	44	7	7 ON	1210	0.3512	0.02964	2.207	52.96	-0.5	-4.9
					OFF	126	0.3652	0.03082	2.295	55.07	-0.5	-3.6
5	4	2	18	7	7 ON	1465	0.3785	0.03194	2.378	57.07	-0.5	-2.3
					OFF	49	0.3825	0.03228	2.403	57.68	-0.5	-2.0
5	4	3	26	7	7 ON	2190	0.3926	0.03312	2.467	59.20	-0.5	3.6
					OFF	69	0.3882	0.03275	2.439	58.54	-0.5	4.2
7	5	1	69	7	7 ON	1748	0.3971	0.03351	2.495	59.88	-0.5	-0.1
					OFF	175	0.4000	0.03382	2.518	60.44	-0.5	1.3

8	4	1	37	7	7 ON	1247	0.3556	0.03000	2.234	53.62	-0.5	0.2
					OFF	106	0.3670	0.03097	2.306	55.34	-0.5	0.9
8	4	2	28	7	7 ON	1387	0.3709	0.03130	2.330	55.93	-0.5	1.1
					OFF	76	0.3780	0.03189	2.375	57.00	-0.5	1.3
9	7	0	13	7	7 ON	314	0.2889	0.02370	1.765	42.35	-0.5	-1.6
					OFF	47	0.2827	0.02385	1.776	42.63	-0.5	-1.9
9	7	1	28	7	7 ON	1995	0.4001	0.03376	2.514	60.34	-0.5	0.7
					OFF	58	0.3991	0.03367	2.507	60.10	-0.5	0.5
10	4	1	19	7	7 ON	1949	0.4007	0.03381	2.518	60.42	-0.5	0.7
					OFF	50	0.4001	0.03376	2.514	60.33	-0.5	0.6
10	4	2	61	7	7 ON	2025	0.3995	0.03371	2.510	60.24	-0.5	0.5
					OFF	156	0.3932	0.03318	2.471	59.30	-0.5	0.1
11	8	1	62	7	7 ON	2013	0.3998	0.03373	2.512	60.29	-0.5	0.4
					OFF	157	0.3939	0.03324	2.475	59.40	-0.5	0.0
13	7	1	60	7	7 ON	2592	0.3556	0.03000	2.234	53.62	-0.5	-0.5
					OFF	174	0.3358	0.02834	2.110	50.64	-0.5	-0.1
14	3	1	42	7	7 ON	2200	0.3862	0.03259	2.427	58.24	-1.9	-1.5
					OFF	111	0.3786	0.03194	2.379	57.09	-1.9	-1.6
14	3	2	34	7	7 ON	2622	0.3469	0.02927	2.179	52.31	-1.9	-2.0
					OFF	99	0.3356	0.02832	2.109	50.61	-1.9	-1.9
16	3	0	15	7	7 ON	1819	0.3938	0.03323	2.474	59.30	-1.9	-0.2
					OFF	38	0.3945	0.03328	2.478	59.40	-1.9	-0.3
20	3	1	39	7	7 ON	1478	0.3742	0.03157	2.351	56.42	-1.9	-0.1
					OFF	105	0.3823	0.03226	2.402	57.65	-1.9	0.1
20	3	2	35	7	7 ON	1636	0.3860	0.03257	2.425	58.21	-1.9	0.1
					OFF	92	0.3907	0.03296	2.455	58.91	-1.9	0.0
1	3	1	21	7	7 ON	1479	0.3743	0.03158	2.352	56.44	-1.9	-0.1
					OFF	56	0.3787	0.03195	2.380	57.11	-1.9	-0.0
21	3	2	26	7	7 ON	1661	0.3875	0.03270	2.435	58.44	-1.9	0.1
					OFF	69	0.3900	0.03297	2.455	58.93	-1.9	-0.0
22	3	1	20	7	7 ON	1179	0.3425	0.02890	2.152	51.65	-1.9	-2.2
					OFF	57	0.3408	0.02943	2.192	52.60	-1.9	-1.7
22	3	2	30	7	7 ON	1500	0.3760	0.03173	2.363	56.70	-1.9	-0.0
					OFF	79	0.3821	0.03224	2.401	57.61	-1.9	0.1
22	3	3	38	7	7 ON	1775	0.3926	0.03312	2.467	59.20	-1.9	-0.0
					OFF	98	0.3947	0.03330	2.480	59.51	-1.9	-0.3
22	3	4	34	7	7 ON	2037	0.3934	0.03319	2.472	59.32	-1.9	-0.9
					OFF	88	0.3904	0.03294	2.453	58.86	-1.9	-1.2
23	5	1	17	7	7 ON	1729	0.3909	0.03298	2.456	58.94	-1.9	0.0
					OFF	45	0.3924	0.03311	2.466	59.18	-1.9	-0.1
23	5	2	20	7	7 ON	1804	0.3948	0.03331	2.481	59.53	-1.9	-0.4
					OFF	52	0.3949	0.03332	2.481	59.55	-1.9	-0.5
23	5	3	26	7	7 ON	1962	0.3947	0.03331	2.480	59.52	-1.9	-0.6
					OFF	66	0.3937	0.03322	2.474	59.37	-1.9	-0.8
23	5	4	25	7	7 ON	2098	0.3913	0.03302	2.459	59.01	-1.9	-1.1
					OFF	65	0.3885	0.03278	2.441	58.58	-1.9	-1.3
24	5	1	17	7	7 ON	1651	0.3870	0.03265	2.431	58.35	-1.9	0.1
					OFF	45	0.3892	0.03284	2.446	58.70	-1.9	0.0
25	6	1	25	7	7 ON	2120	0.3904	0.03294	2.453	58.87	-1.9	-1.2
					OFF	64	0.3873	0.03268	2.434	58.41	-1.9	-1.3
5	0	2	41	7	7 ON	2330	0.3768	0.03179	2.367	56.82	-1.9	-1.0

					OFF	111	0.3669	0.83895	2.385	55.32	-1.9	-1.9
26	6	1	78	7	7 ON	2896	0.3919	0.83387	2.462	59.89	-1.8	-1.8
					OFF	288	0.3882	0.83288	2.389	57.33	-1.8	-1.5
27	4	1	72	7	7 ON	2183	0.3916	0.83384	2.461	59.85	-1.8	-1.8
					OFF	186	0.3888	0.83213	2.393	57.42	-1.8	-1.4
31	8	1	17	7	7 ON	1818	0.3948	0.83325	2.476	59.42	-1.8	-0.8
					OFF	44	0.3949	0.83332	2.481	59.54	-1.8	-0.1
32	8	8	15	7	7 ON	1854	0.3949	0.83332	2.481	59.55	-1.8	-0.1
					OFF	38	0.3953	0.83335	2.484	59.61	-1.8	-0.2
33	3	1	18	7	7 ON	1389	0.3661	0.83889	2.388	55.28	-1.8	-0.6
					OFF	49	0.3785	0.83126	2.328	55.87	-1.8	-0.4
34	7	1	41	7	7 ON	1481	0.3673	0.83899	2.388	55.39	-1.8	-0.5
					OFF	118	0.3772	0.83182	2.378	56.87	-1.8	-0.1
37	4	1	26	7	7 ON	1694	0.3897	0.83288	2.449	58.77	-1.8	-0.5
					OFF	69	0.3925	0.83312	2.466	59.19	-1.8	-0.4
37	4	2	26	7	7 ON	1899	0.3953	0.83336	2.484	59.62	-1.8	-0.4
					OFF	67	0.3952	0.83335	2.483	59.59	-1.8	-0.4
39	8	1	26	7	7 ON	1819	0.3943	0.83327	2.477	59.45	-1.8	-0.4
					OFF	67	0.3952	0.83335	2.483	59.68	-1.8	-0.4
39	8	2	88	7	7 ON	1928	0.3954	0.83336	2.484	59.62	-1.8	-0.4
					OFF	282	0.3986	0.83296	2.454	58.98	-1.8	-0.5
48	3	1	16	7	7 ON	2851	0.3934	0.83328	2.472	59.33	-1.8	-0.8
					OFF	43	0.3921	0.83388	2.464	59.13	-1.8	-0.9
48	3	2	19	7	7 ON	2142	0.3899	0.83298	2.458	58.79	-1.8	-1.1
					OFF	51	0.3873	0.83268	2.433	58.48	-1.8	-1.2
41	5	1	72	7	7 ON	2185	0.3915	0.83384	2.468	59.84	-1.8	-1.8
					OFF	186	0.3886	0.83211	2.391	57.39	-1.8	-1.5
43	4	1	26	7	7 ON	2817	0.3943	0.83327	2.478	59.46	-1.8	-0.6
					OFF	66	0.3925	0.83312	2.466	59.18	-1.8	-0.8
43	4	2	25	7	7 ON	2125	0.3987	0.83296	2.455	58.91	-1.8	-1.8
					OFF	66	0.3874	0.83269	2.434	58.43	-1.8	-1.2
47	6	1	25	7	7 ON	2128	0.3989	0.83298	2.456	58.94	-1.8	-1.8
					OFF	64	0.3878	0.83272	2.436	58.47	-1.8	-1.2
51	3	1	89	7	7 ON	1385	0.3671	0.83897	2.386	55.35	-1.4	-0.6
					OFF	238	0.3869	0.83265	2.431	58.35	-1.4	0.3
52	3	1	48	7	7 ON	1578	0.3841	0.83241	2.413	57.92	-1.4	0.3
					OFF	185	0.3985	0.83295	2.453	58.88	-1.4	0.4
53	3	1	23	7	7 ON	1252	0.3526	0.82975	2.215	53.17	-1.4	-1.9
					OFF	65	0.3595	0.83834	2.259	54.21	-1.4	-1.3
53	3	2	39	7	7 ON	1763	0.3941	0.83325	2.476	59.43	-1.4	0.5
					OFF	188	0.3965	0.83345	2.491	59.79	-1.4	0.3
53	3	3	38	7	7 ON	1952	0.3968	0.83345	2.493	59.83	-1.4	0.1
					OFF	97	0.3951	0.83333	2.482	59.57	-1.4	-0.2
54	3	1	58	7	7 ON	1567	0.3832	0.83233	2.488	57.79	-1.4	0.3
					OFF	138	0.3912	0.83381	2.458	58.98	-1.4	0.4
54	3	2	28	7	7 ON	1885	0.3967	0.83348	2.493	59.83	-1.4	0.3
					OFF	51	0.3969	0.83349	2.493	59.84	-1.4	0.1
55	4	1	75	7	7 ON	1391	0.3677	0.83182	2.318	55.45	-1.4	-0.7
					OFF	281	0.3848	0.83247	2.418	58.83	-1.4	0.3
55	4	2	17	7	7 ON	1662	0.3895	0.83286	2.447	58.73	-1.4	0.4
					OFF	46	0.3917	0.83385	2.461	59.86	-1.4	0.4

.5	4	3	66	7	7	ON	2165	0.3981	0.83292	2.451	58.83	-1.4	-0.5
						OFF	172	0.3783	0.83192	2.377	57.85	-1.4	-1.8
56	8	1	28	7	7	ON	1720	0.3924	0.83311	2.465	59.17	-1.4	0.7
						OFF	51	0.3943	0.83327	2.477	59.45	-1.4	0.6
56	8	2	16	7	7	ON	2199	0.3882	0.83276	2.439	58.54	-1.4	-0.8
						OFF	43	0.3856	0.83254	2.423	58.15	-1.4	-0.9
57	9	1	39	7	7	ON	2638	0.3467	0.82926	2.179	52.29	-1.4	-2.1
						OFF	113	0.3339	0.82817	2.098	50.35	-1.4	-2.8
63	2	1	17	7	7	ON	1977	0.3965	0.83346	2.491	59.79	-1.4	0.1
						OFF	44	0.3958	0.83339	2.487	59.68	-1.4	-0.8
63	2	2	25	7	7	ON	2169	0.3899	0.83290	2.458	58.88	-1.4	0.7
						OFF	65	0.3862	0.83258	2.426	58.23	-1.4	-0.9
66	9	1	42	7	7	ON	1432	0.3752	0.83166	2.357	56.58	-0.5	0.8
						OFF	113	0.3849	0.83248	2.419	58.04	-0.5	1.3
68	9	1	23	7	7	ON	1348	0.3667	0.83094	2.384	55.30	-0.5	0.1
						OFF	63	0.3729	0.83146	2.343	56.23	-0.5	0.6
68	9	2	21	7	7	ON	1529	0.3839	0.83239	2.412	57.89	-0.5	1.3
						OFF	55	0.3879	0.83273	2.437	58.49	-0.5	1.5
68	9	3	34	7	7	ON	2586	0.3561	0.83084	2.237	53.69	-0.5	-1.1
						OFF	99	0.3448	0.82989	2.167	52.88	-0.5	-1.2
69	9	1	22	7	7	ON	1236	0.3541	0.82988	2.225	53.40	-0.5	-1.1
						OFF	64	0.3618	0.83046	2.268	54.44	-0.5	-0.5
69	9	2	67	7	7	ON	2800	0.3323	0.82804	2.088	50.11	-0.5	-0.9
						OFF	209	0.3143	0.82652	1.975	47.39	-0.5	1.3
70	9	1	68	7	7	ON	1748	0.3973	0.83352	2.496	59.91	-0.5	1.7
						OFF	171	0.4006	0.83380	2.517	60.41	-0.5	1.3
0	9	2	35	7	7	ON	2485	0.3673	0.83108	2.388	55.39	-0.5	-0.9
						OFF	97	0.3569	0.83012	2.243	53.82	-0.5	-1.0
71	9	1	20	7	7	ON	1791	0.3988	0.83365	2.505	60.13	-0.5	1.6
						OFF	52	0.3999	0.83374	2.513	60.31	-0.5	1.5
71	9	2	49	7	7	ON	2049	0.3987	0.83364	2.505	60.13	-0.5	0.9
						OFF	126	0.3935	0.83320	2.472	59.34	-0.5	0.4
71	9	3	47	7	7	ON	2276	0.3866	0.83262	2.429	58.30	-0.5	-0.1
						OFF	126	0.3760	0.83173	2.363	56.71	-0.5	-0.5
72	8	1	116	7	7	ON	1640	0.3919	0.83307	2.462	59.10	-0.5	1.6
						OFF	292	0.4006	0.83380	2.517	60.41	-0.5	1.3
73	8	1	70	7	7	ON	2280	0.3863	0.83259	2.427	58.25	-0.5	-0.1
						OFF	187	0.3696	0.83118	2.322	55.73	-0.5	-0.7
73	8	2	34	7	7	ON	2626	0.3514	0.82965	2.208	52.99	-0.5	-1.2
						OFF	98	0.3481	0.82870	2.137	51.29	-0.5	-1.3
75	6	1	45	7	7	ON	2171	0.3935	0.83320	2.472	59.34	-0.5	0.4
						OFF	118	0.3859	0.83256	2.424	58.19	-0.5	-0.8
78	7	1	15	7	7	ON	1926	0.4006	0.83380	2.517	60.41	-0.5	1.4
						OFF	41	0.4004	0.83379	2.516	60.38	-0.5	1.3
78	7	2	78	7	7	ON	2517	0.3639	0.83070	2.286	54.87	-0.5	-1.0
						OFF	218	0.3388	0.82858	2.129	51.08	-0.5	-1.4
79	7	1	16	7	7	ON	2024	0.3994	0.83370	2.509	60.23	-0.5	1.1
						OFF	40	0.3984	0.83361	2.503	60.07	-0.5	0.9

MP PROFILE

7 A= 7 PERIOD= 3848

R= 0.3371 A= 0.0636

TUR	PER	CPS	ANG V
-0	3.656	0.2735	0.02474
100	3.648	0.2742	0.02480
200	3.622	0.2761	0.02497
300	3.581	0.2793	0.02526
400	3.526	0.2836	0.02565
500	3.459	0.2891	0.02615
600	3.383	0.2956	0.02673
700	3.302	0.3029	0.02739
800	3.217	0.3109	0.02811
900	3.131	0.3194	0.02889
1000	3.046	0.3283	0.02969
1100	2.963	0.3374	0.03052
1200	2.861	0.3495	0.03161
1300	2.769	0.3611	0.03266
1400	2.689	0.3719	0.03363
1500	2.622	0.3813	0.03449
1600	2.569	0.3892	0.03520
1700	2.531	0.3952	0.03574
1800	2.506	0.3990	0.03609
1900	2.496	0.4007	0.03624
2000	2.500	0.4000	0.03617
2100	2.519	0.3970	0.03591
2200	2.552	0.3918	0.03544
00	2.600	0.3847	0.03479
2400	2.661	0.3758	0.03399
2500	2.736	0.3655	0.03306
2600	2.823	0.3542	0.03204
2700	2.921	0.3423	0.03096
2800	3.013	0.3319	0.03002
2900	3.097	0.3229	0.02921
3000	3.183	0.3142	0.02842
3100	3.268	0.3060	0.02767
3200	3.351	0.2984	0.02699
3300	3.430	0.2916	0.02637
3400	3.500	0.2857	0.02584
3500	3.560	0.2809	0.02540
3600	3.607	0.2772	0.02507
3700	3.639	0.2748	0.02485
3800	3.655	0.2736	0.02475

CLOCK SUMMARY

ORDER FIT 1

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.64392870D 05	0.380393179D 06	0.643928705D 05	-0.0005	8	
0.24695888C 05	0.427096212D 06	0.246958953D 05	-0.0073	9	
0.63989913D 05	0.466390233D 06	0.639899094D 05	0.0036	16	
.24478303D 05	0.513278615D 06	0.244782832D 05	0.0198	25	

.63778948D 05	0.157883818D 05	0.637789543D 05	-0.0063	32
0.24252676D 05	0.625821188D 05	0.242526831D 05	-0.0071	41
0.58158323D 05	0.964797718D 05	0.581583382D 05	-0.0072	47
0.24812978D 05	0.148742427D 06	0.248129778D 05	0.0018	57
0.57943378D 05	0.182672833D 06	0.579433771D 05	0.0009	63
0.18374883D 05	0.229584345D 06	0.183748889D 05	0.0021	72
0.57688513D 05	0.268817983D 06	0.576885128D 05	0.0018	79



AB=-0.3168882419D 06 A1= 0.999999824812D 00

SIGMA=0.00712 NO. POINTS= 11

RATIO OF CLOCK TIME TO SYS TIME= 0.188888817519D 01

ORDER FIT 2

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.64392878D 05	0.388393179D 06	0.643928712D 05	-0.0012	8	
0.24695888D 05	0.427896212D 06	0.246958956D 05	-0.0076	9	
0.63989913D 05	0.466398233D 06	0.639899894D 05	0.0036	16	
0.24478383D 05	0.513278615D 06	0.244782829D 05	0.0281	25	
0.63778948D 05	0.157883818D 05	0.637789539D 05	-0.0059	32	
0.24252676D 05	0.625821188D 05	0.242526827D 05	-0.0067	41	
0.58158323D 05	0.964797718D 05	0.581583298D 05	-0.0068	47	
0.24812978D 05	0.148742427D 06	0.248129768D 05	0.0012	57	
0.57943378D 05	0.182672833D 06	0.579433778D 05	0.0018	63	
0.18374883D 05	0.229584345D 06	0.183748812D 05	0.0018	72	
0.57688513D 05	0.268817983D 06	0.576885127D 05	0.0003	79	



AB=-0.3168882334D 06 A1= 0.999999794921D 00

A2= 0.2515384492592D-13

SIGMA=0.00711 NO. POINTS= 11

CLOCK OPERATIONS

OPN NO	FR	H	M	S	DEC	BINARY
1 6 2	16	19	14	13	385253	1011011110110011111010001000
	OFF	19	14	51	385291	10110111101110001001011111000
5 4 1	44	1	11	0	406661	11000001111010010011110001000
	OFF	1	13	6	406787	1100000111110001001110111000
5 4 2	18	1	15	15	406916	11000010000010000101110100000
	OFF	1	16	4	406965	11000010000011100101100001000
5 4 3	26	1	27	28	407641	11000010011000001101110101000
	OFF	1	28	29	407718	11000010011010010100100110000
7 5 1	68	4	19	28	417968	11000111010011001000001000000
	OFF	4	22	15	418135	11000111011000001101111011000
8 4 1	37	5	37	35	422656	11001001100010011100000000000
	OFF	5	39	21	422762	11001001100101010101000010000
8 4 2	27	5	39	55	422795	1100100110011010101011111000
	OFF	5	41	11	422871	11001001101000111111111011000
9 7 2	13	6	51	52	427112	11001011101010011010001000000
	OFF	6	52	39	427159	11001011101011110110111011000
9 7 1	19	7	19	52	428793	1100110001110101110010101000
	OFF	7	20	42	428843	11001100011111001111111111000
12 4 1	19	8	48	52	434132	11001111000000101010000100000
	OFF	8	49	42	434182	11001111000010001011101110000

0	4	2	61	ON	8	50	8	434208	11001111000010111110100000000
				OFF	8	52	44	434364	11001111000111101111001100000
11	8	1	61	ON	10	19	40	439580	1101000110011011101010100000
				OFF	10	22	17	439737	1101000101011101101010101000
13	7	1	59	ON	13	20	47	450927	11010111000001001100110011000
				OFF	13	31	41	451101	11010111000110100000101001000
14	3	1	42	ON	14	51	59	455920	11010010110011001001100000000
				OFF	14	53	50	456031	1101001011100111101100011000
14	3	2	33	ON	14	59	2	456342	11010011001100111001111100000
				OFF	15	0	41	456441	1101001101001011110010101000
16	3	0	14	ON	17	45	8	466308	11011110010110100101110100000
				OFF	17	45	46	466346	11011110010111110000000010000
20	3	1	39	ON	23	38	23	487504	11101000011101011100010000000
				OFF	23	40	8	487609	11101000100000101001010101000
20	3	2	35	ON	23	41	1	487661	11101000100010001110111001000
				OFF	23	42	33	487753	11101000100101000010100101000
21	3	1	20	ON	1	8	9	492890	11101011000001110011110010000
				OFF	1	9	5	492946	11101011000011100001001010000
21	3	2	26	ON	1	11	11	493072	11101011000111010111010000000
				OFF	1	12	20	493141	11101011001001011110000001000
22	3	1	19	ON	2	32	52	497973	11101101011100111011100001000
				OFF	2	33	49	498030	1110110101111010101010110000
22	3	2	29	ON	2	38	13	498293	11101101100101010100100001000
				OFF	2	39	32	498372	11101101101001000110101010000
22	3	3	38	ON	2	42	48	498568	11101101101111000101101000000
				OFF	2	44	26	498666	11101101110010000101000010000
2	3	4	34	ON	2	47	10	498830	11101101110111000101010110000
				OFF	2	48	38	498918	11101101111001110001001110000
23	5	1	17	ON	4	11	47	503907	11110000010010000001010111000
				OFF	4	12	32	503952	11110000010011011001010000000
23	5	2	20	ON	4	14	22	504062	11110000010110110000000110000
				OFF	4	15	14	504114	11110000011000010101101010000
23	5	3	25	ON	4	15	39	504140	11110000011001001000011100000
				OFF	4	16	45	504206	11110000011011001001010110000
23	5	4	25	ON	4	17	56	504277	11110000011101010100000001000
				OFF	4	19	1	504342	11110000011111010010111110000
24	5	1	17	ON	5	40	14	509214	11110010110011111110100110000
				OFF	5	40	59	509259	11110010110101010110011111000
25	6	1	25	ON	7	17	47	515068	11110101100110101000001100000
				OFF	7	18	51	515132	11110101101000100101001100000
25	6	2	41	ON	7	21	17	515277	11110101101101000000011001000
				OFF	7	23	8	515388	11110101110000011001001100000
26	6	1	77	ON	8	47	7	520427	11111000001010001010111111000
				OFF	8	50	27	520627	11111000010000010001100111000
27	4	1	71	ON	10	17	2	525822	11111010101101101000001100000
				OFF	10	20	8	526008	11111010110100011111010000000
31	8	1	17	ON	16	11	0	102189	0000010011011011110001001000
				OFF	16	11	44	10233	00000100111000010010010101000
32	8	0	15	ON	17	41	20	15617	0000011011100100101111101000
				OFF	17	42	6	15655	0000011011101110000001011000
3	3	1	17	ON	19	3	27	20537	00001001110010101111010101000

			OFF	19	4	16	20586	00001001110100001111000010000
34	7	1	40	ON	20	33	25933	00001100010111011010011001000
			OFF	20	35	13	26043	00001100011010110001001111000
37	4	1	26	ON	1	8	42428	00010100001110110011001100000
			OFF	1	9	28	42497	00010100010000111001111101000
37	4	2	26	ON	1	11	42633	00010100010101000011100101000
			OFF	1	12	50	42700	00010100010111000110011100000
39	8	1	26	ON	4	9	53320	00011001011011001100101000000
			OFF	4	10	58	53387	00011001011101001111011111000
39	8	2	79	ON	4	11	53429	00011001011110100001100001000
			OFF	4	15	2	53631	00011001100100101000000011000
40	3	1	16	ON	5	42	58882	00011100000100111011111010000
			OFF	5	43	16	58925	00011100000110001111111001000
40	3	2	19	ON	5	44	58973	00011100000111101101101001000
			OFF	5	44	55	59024	00011100001001010001010000000
41	5	1	71	ON	7	13	64320	00011110101010111001000000000
			OFF	7	16	16	64506	00011110110000100100010010000
43	4	1	25	ON	10	11	74999	00100011110000110010011011000
			OFF	10	12	15	75065	00100011110010110011010101000
43	4	2	25	ON	10	12	75106	00100011110100000011011010000
			OFF	10	14	3	75172	00100011110110000100010100000
47	6	1	25	ON	16	11	96634	00101110000101000010010010000
			OFF	16	12	48	96698	00101110000110111111010010000
51	3	1	88	ON	21	58	117442	00111000000000000010111010000
			OFF	22	2	30	117680	00111000000111010011110000000
52	3	1	40	ON	23	31	123018	00111010101010001101100010000
			OFF	23	33	14	123123	00111010101101011010100111000
53	3	1	23	ON	0	55	128074	00111101000100100000100010000
			OFF	0	56	50	128139	00111101000110011111011111000
53	3	2	38	ON	1	4	128586	00111101010100001000100010000
			OFF	1	5	57	128686	00111101010111001011110110000
53	3	3	37	ON	1	7	128775	00111101011001111001101011000
			OFF	1	9	3	128872	00111101011100110111001000000
54	3	1	49	ON	2	30	133772	00111111110010011001011100000
			OFF	2	32	53	133902	00111111110110010111010110000
54	3	2	22	ON	2	36	134091	00111111111100001000011111000
			OFF	2	36	52	134142	00111111111101101100000110000
55	4	1	74	ON	3	57	138980	01000010010001010101010100000
			OFF	4	0	52	139181	01000010010111011101111001000
55	4	2	17	ON	4	2	139251	01000010011001100110100111000
			OFF	4	2	48	139297	01000010011011000000011101000
55	4	3	65	ON	4	10	139755	01000010101000111110111111000
			OFF	4	13	17	139927	01000010101110001110111011000
56	0	1	20	ON	5	32	144676	01000100111111001010010100000
			OFF	5	33	18	144727	010001010000000101101111011000
56	0	2	16	ON	5	40	145155	01000101001101110001110111000
			OFF	5	41	9	145198	01000101001111000101110110000
57	9	1	38	ON	7	17	150977	01000111111111011100111101000
			OFF	7	19	20	151090	01001000000010111001101010000
63	2	1	16	ON	16	4	182607	01010111000100101110010011000
			OFF	16	5	22	182651	01010111000110000100001111000

3	2	2	25	ON	16	7	49	182799	01010111001010100101010011000
				OFF	16	8	54	182864	01010111001100100100100010000000
66	9	1	42	ON	20	24	38	198208	01011101000000110101000000000
				OFF	20	26	31	198321	01011101001000100010001101101000
68	9	1	22	ON	23	22	40	208889	011000111001101100100010101000
				OFF	23	23	43	208952	0110001110100010110101011000000
68	9	2	21	ON	23	25	48	209070	011000111011000100011110110000
				OFF	23	26	35	209125	0110001110110111111111010001000
68	9	3	34	ON	23	43	18	210127	01100100001100100100010001000
				OFF	23	44	57	210226	01100100001111100101101010000
69	9	1	22	ON	0	50	30	214160	01100110000111101001010000000
				OFF	0	51	34	214224	01100110001001100110010000000
69	9	2	66	ON	1	16	34	215724	01100110110111010111111100000
				OFF	1	20	3	215933	01100110111101110000001001000
70	9	1	67	ON	2	28	44	220054	01101000111011100000111110000
				OFF	2	31	35	220225	01101001000000101110111101000
70	9	2	34	ON	2	41	0	220790	01101001010001111110011110000
				OFF	2	42	37	220887	01101001010100111011111011000
71	9	1	20	ON	3	59	9	225479	0110101110000100010010010101000
				OFF	4	0	1	225531	01101011100010101010001111000
71	9	2	49	ON	4	3	27	225736	01101011101000111010101000000
				OFF	4	5	33	225862	01101011101100110000101110000
71	9	3	47	ON	4	7	14	225963	01101011101111110101111110000
				OFF	4	9	20	226089	01101011110011101100000101000
72	8	1	114	ON	5	26	20	230709	01101110000000101011100001000
				OFF	5	31	12	231001	01101110001001100101110101000
3	8	1	69	ON	7	6	42	236732	01110000111000011111001100000
				OFF	7	9	49	236919	01110000111110001100011011000
73	8	2	33	ON	7	12	29	237078	01110001000011000010111110000
				OFF	7	14	7	237176	01110001000110000010011000000
75	6	1	45	ON	10	4	16	247386	01110101111101100111110010000
				OFF	10	6	14	247504	01110100000010011100100000000
78	7	1	16	ON	14	29	14	263204	01111011000101100101001000000
				OFF	14	29	55	263325	01111011001000000101010010000
76	7	2	76	ON	14	39	6	263875	01111011101001101001101110000
				OFF	14	42	44	264093	01111011110110111011101001000
79	7	1	15	ON	16	0	33	268762	10000000001001111101110010000
				OFF	16	1	13	268802	10000000001011001011111010000

OF

