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4 PAGES
(NOT INCLUDING PEST)

CORONA J-FLIGHT DATA BOOK

SYSTEM NO. J-32

VEHICLE NO. 1631

MISSION NO. 1836-2

CAMERA NOS. 198/191

DATE 8-22-66

PAGE 1

Declassified and Released by the NRO

in Accordance with E. O. 12858

on NOV 26 1997

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SYSTEM NO. J-32
VEHICLE NO. 1631
MISSION NO. 1036-2
CAMERA NOS. 190/191

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SYSTEM NO. J-32
VEHICLE NO. 1531
MISSION NO. 1236-2
CAMERA NOS. 190/191

GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 190

SLAVE CAMERA SERIAL NO. 191

S/I -1 SERIAL NO. D89/110/111

S/I -2 SERIAL NO. D38/128/126

LAUNCH DATE 5-09-66

REACTIVATION DATE N/A

REACTIVATION ORBIT N/A

ORBITAL PARAMETERS (REV. 163)

PERIOD 39.119 MIN ECCENTRICITY 0.20742

PERIGEE 193.382 NM PERIGEE LAT. 45.641

APOGEE 156.372 NM INCL. ANGLE 100.114

RECOVERY ORBIT NO. 212

RECOVERY DATE 8-22-66

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SYSTEM NO. 0-32
VEHICLE NO. 1831
MISSION NO. 1836-2
CAMERA NOS. 198/191

CYCLE PERIOD DATA

V/H RAMP SETTING LEVEL	AMPLITUDE	TIME UP RAMP-SEC	---CALIBRATED---		---IN-FLIGHT---		ORBIT NO.
			MASTER	SLAVE	MASTER	SLAVE	
5	5	1738	2.166	2.138	2.225	2.225	113
5	5	238	3.368	3.384	3.418	3.413	121
5	5	1778	2.178	2.128	2.258	2.255	129
5	5	2238	2.216	2.218	2.235	2.238	145
5	5	1895	2.215	2.289	2.232	2.228	161
5	5	1858	2.215	2.218	2.258	2.245	178

NOTE

AN * OR -# INDICATES NO DATA AVAILABLE.

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B. DRY

C. PERFORMANCE ESTIMATE PART ONE

OPERATIONS SUMMARY

FWD	PAN	CAMERA	NUMBER	192	OPN NO	FRA	ON	OFF	0	LAT	LONG	HEIGHT	RANGE	CA	H	M	S	LTIM	S-TIM
114	3	2	13	ON	1	1	13	39	13E	911893	945543	16	21	57	35		234	79055	
				OFF	1	4	22	39	27E	946290	939724	16	21	59	23		232	79103	
115	3	2	3	ON	2	57	48	153	57W	662745	666928	16	23	56	27		1341	86187	
				OFF	2	56	11	154	52W	659562	683625	16	23	56	50		1337	86210	
119	7	1	39	ON	2	49	5	112	1E	644883	668374	17	5	55	32		1323	21332	
				OFF	2	43	4	109	22E	635388	658522	17	5	57	3		1314	21423	
119	7	2	56	ON	2	26	11	173	44E	620245	642818	17	6	1	17		1256	21677	
				OFF	2	17	39	101	26E	623211	642775	17	6	3	24		1249	21824	
120	7	1	29	ON	2	46	9	83	23E	639887	663183	17	7	25	30		1319	26730	
				OFF	2	41	36	86	31E	633322	656358	17	7	26	39		1312	26799	
120	7	2	35	ON	2	35	12	84	14E	625273	648857	17	7	28	15		13	5	26895
				OFF	2	29	41	82	29E	621933	644562	17	7	29	38		1259	26978	
121	8	2	13	ON	1	38	39	127	1W	834767	865456	17	8	31	39		8	3	38699
				OFF	1	41	33	122	6W	829147	859623	17	8	32	24		2359	39744	
121	8	1	72	ON	2	46	42	56	21E	648551	663879	17	8	54	34		1320	32074	
				OFF	2	35	39	62	7E	626529	649331	17	8	57	20		13	5	32240
122	3	1	55	ON	2	52	5	45	43E	645916	669446	17	10	22	55		1325	37375	
				OFF	2	41	24	41	54E	632762	655797	17	10	25	7		1312	37587	
123	5	1	15	ON	2	74	31	52	55E	723886	726485	17	11	45	29		1517	42329	
				OFF	2	72	23	46	48E	694625	719991	17	11	46	9		1453	42369	
123	5	2	48	ON	2	61	7	30	43E	667284	691535	17	11	49	17		1352	42557	
				OFF	2	53	20	25	12E	651423	675139	17	11	51	18		1332	42678	
126	7	1	53	ON	3	4	34	59	52W	649342	672999	17	16	33	22		1233	59602	
				OFF	3	13	9	61	58W	678336	694783	17	16	35	30		1227	59730	
129	3	2	19	ON	2	37	9	115	29W	626697	649498	17	20	50	35		13	8	75035
				OFF	2	34	7	113	30W	624124	646815	17	20	51	21		13	5	75081
133	6	1	45	ON	2	66	39	173	59E	674712	699326	18	2	39	45		1415	9585	
				OFF	2	59	35	166	47E	659511	683553	18	2	41	38		1348	9696	
135	9	1	55	ON	2	26	15	107	31E	619423	641957	18	5	48	25		1258	20905	
				OFF	2	17	47	105	14E	623688	643270	18	5	50	31		1251	21031	
135	9	2	31	ON	2	1	23	101	11E	638845	662187	18	5	54	36		1239	21276	
				OFF	3	3	38	99	58E	648562	672192	18	5	55	51		1235	21351	
136	9	1	71	ON	2	56	38	94	18E	642802	665385	18	7	11	29		1328	25889	
				OFF	2	39	36	89	32E	627336	652168	18	7	14	16		1312	26056	
137	3	1	19	ON	2	77	0	111	55E	699987	725555	18	8	33	18		16	1	30798
				OFF	2	74	32	101	16E	692335	717614	18	8	34	10		1519	30850	
137	3	2	69	ON	2	47	8	77	21E	636315	659484	18	8	41	33		1322	31293	
				OFF	2	36	33	66	12E	624281	646915	18	8	44	13		13	9	31453
138	5	1	23	ON	2	37	34	44	17E	624979	647722	18	10	13	8		1310	36788	
				OFF	2	34	3	43	7E	622249	644890	18	10	14	1		13	6	36841
138	6	2	54	ON	2	5	18	35	21E	632724	655757	18	10	21	9		1242	37269	
				OFF	3	3	16	33	17E	648079	671688	18	10	23	17		1236	37397	
139	5	1	11	ON	2	74	5	55	16E	689949	715138	18	11	32	40		1513	41560	

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139	5	2	OFF	2	72	32	5	58E	605619	71852	18	11	33	9	1457	41589	
			ON	2	54	6	27	13E	642291	663629	18	11	39	9	1328	41949	
145	5	1	OFF	2	43	34	23	7E	627726	658635	18	11	41	33	1314	42893	
			ON	2	37	4	111	42W	623997	646723	18	20	37	26	1310	74246	
152	7	1	OFF	2	31	30	113	29W	622613	643192	18	20	38	49	13	4	74329
			ON	3	16	30	122	56E	636221	711060	19	4	16	32	1228	15392	
151	5	1	OFF	3	24	12	12	53E	718842	736819	19	4	18	27	1222	15507	
			ON	2	49	8	115	53E	626843	649656	19	5	31	35	1315	19895	
151	5	2	OFF	2	32	38	113	29E	621762	644384	19	5	33	28	13	6	20808
			ON	2	26	11	111	24E	622263	642829	19	5	35	4	13	0	20104
152	5	1	OFF	2	17	43	129	6E	622721	645379	19	5	37	10	1253	20230	
			ON	2	60	11	124	24E	654322	678148	19	6	55	37	1353	24937	
153	4	1	OFF	2	49	34	97	40E	637301	668507	19	6	58	21	1329	25101	
			ON	2	77	6	116	24E	691546	716796	19	8	19	50	16	5	29990
153	4	2	OFF	2	74	35	105	21E	684346	709323	19	8	20	44	1522	30044	
			ON	2	55	33	79	47E	645271	669399	19	8	25	50	1341	30350	
153	4	3	OFF	2	49	14	75	15E	636434	659659	19	8	27	35	1328	30455	
			ON	2	47	3	74	13E	633641	656713	19	8	28	8	1325	30488	
154	3	1	OFF	2	44	46	73	13E	630946	653914	19	8	28	42	1321	30522	
			ON	2	62	7	59	32E	653172	676973	19	9	53	56	1353	35636	
155	6	1	OFF	2	47	31	52	11E	633825	656963	19	9	57	10	1325	35830	
			ON	2	63	54	41	6E	659620	683728	19	11	22	4	14	6	40924
155	6	2	OFF	2	61	41	38	56E	655529	679400	19	11	22	39	1358	40959	
			ON	2	55	59	34	33E	645669	669189	19	11	24	8	1342	41048	
158	7	1	OFF	2	43	59	26	23E	629451	652362	19	11	27	11	1320	41231	
			ON	3	47	29	66	12W	800275	829649	19	16	17	27	1156	58647	
160	3	0	OFF	3	56	24	70	7W	835050	865753	19	16	19	45	1139	58785	
			ON	2	49	28	84	13W	624693	647425	19	18	53	44	1316	68024	
160	3	1	OFF	2	37	46	85	12W	622687	645344	19	18	54	24	1313	68064	
			ON	2	21	12	90	12W	622391	642962	19	18	58	32	1257	68312	
161	3	1	OFF	2	17	10	91	16W	622733	645360	19	18	59	32	1254	68372	
			ON	2	73	6	77	5W	675506	700151	19	20	14	15	15	5	72855
161	3	2	OFF	2	59	32	84	45W	667629	691977	19	20	15	18	1436	72918	
			ON	2	37	33	107	31W	622312	644955	19	20	23	35	1313	73415	
166	3	1	OFF	2	31	21	109	33W	619495	642032	19	20	25	8	13	6	73500
			ON	2	66	38	159	36E	659630	683676	20	3	41	41	1420	13301	
166	3	2	OFF	2	64	32	157	5E	655763	679663	20	3	42	15	1410	13335	
			ON	2	66	36	153	17E	648920	672563	20	3	43	18	1356	13398	
167	3	1	OFF	2	59	2	152	1E	646342	669886	20	3	43	43	1351	13423	
			ON	2	52	6	124	13E	633474	656536	20	5	15	6	1332	18906	
167	3	2	OFF	2	39	35	119	44E	623255	645933	20	5	17	45	1316	19065	
			ON	2	26	11	115	27E	619325	641056	20	5	21	6	13	2	19266
168	3	1	OFF	2	21	41	114	12E	620644	643224	20	5	22	13	1259	19333	
			ON	2	42	31	98	36E	625317	648066	20	6	46	7	1320	24367	
169	7	1	OFF	2	34	19	95	40E	620242	642007	20	6	48	10	1310	24490	
			ON	2	55	35	82	52E	642102	663414	20	8	11	55	1343	29515	
169	7	2	OFF	2	49	19	79	21E	631929	654933	20	8	13	31	1330	29611	
			ON	2	30	6	72	6E	619124	641627	20	8	18	20	13	6	29900
170	3	1	OFF	2	26	27	71	2E	619168	641693	20	8	19	15	13	3	29955
			ON	2	55	36	62	38E	639759	663058	20	9	41	1	1343	34861	
			OFF	2	47	22	56	11E	629440	652351	20	9	43	7	1327	34987	

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	87	ON	2	56	38	39	52	647264	664235	20	11	9	51	1346	49191			
		OFF	2	43	26	32	15E	625392	643150	20	11	13	12	1322	42392			
172	6	1	15	ON	2	50	46	19	34E	645614	677171	20	12	37	54	1357	45474	
		OFF	2	52	24	18	5E	643392	666576	20	12	38	30	1356	45510			
172	6	2	36	ON	2	55	15	15	56E	638517	661769	20	12	39	18	1343	45558	
		OFF	2	49	41	12	49E	631439	654424	20	12	40	43	1332	45643			
174	8	1	23	ON	2	6	3	45	54E	642653	672284	20	15	51	19	1243	57079	
		OFF	2	4	41	48	10	653974	682993	20	15	52	28	1240	57148			
178	3	0	12	ON	2	73	43	125	12E	622715	643299	20	21	38	1	1317	77881	
		OFF	2	36	47	125	53E	619795	642344	20	21	38	30	1314	77910			
183	7	1	46	ON	2	66	38	141	33E	651951	675719	21	4	56	13	1422	17773	
		OFF	2	59	36	134	25E	641969	664355	21	4	58	5	1355	17885			
183	7	2	9	ON	2	3	17	113	46E	643588	666946	21	5	12	12	1247	18732	
		OFF	2	1	48	113	24E	646454	670002	21	5	12	35	1246	18755			
184	7	1	51	ON	2	42	5	142	38E	622163	644801	21	6	31	36	1322	23496	
		OFF	2	34	23	99	54E	613725	641233	21	6	33	32	1313	23612			
185	3	1	58	ON	2	56	4	87	24E	635745	658893	21	7	57	7	1346	28627	
		OFF	2	48	28	83	9E	627216	658044	21	7	59	3	1331	28743			
186	8	1	38	ON	2	49	38	61	26E	627982	654836	21	9	27	52	1333	34072	
		OFF	2	37	23	56	27E	619487	642824	21	9	30	55	1316	34255			
187	3	1	56	ON	2	79	52	116	4E	683347	768287	21	10	47	26	1831	38846	
		OFF	2	77	39	83	30E	672524	697035	21	10	49	2	1623	38942			
187	3	2	82	ON	2	56	6	42	58E	635127	658252	21	10	55	14	1347	39314	
		OFF	2	44	4	36	44E	623049	645722	21	10	58	18	1325	39498			
188	3	1	36	ON	2	59	4	23	38E	642031	663340	21	12	23	16	1357	44596	
		OFF	2	54	32	19	44E	632889	655930	21	12	24	42	1343	44682			
191	9	1	72	ON	2	6	57	64	37E	649325	672961	21	17	5	16	1246	61516	
		OFF	3	11	9	67	33E	679199	703980	21	17	8	17	1238	61697			
192	4	0	19	ON	2	40	44	75	42E	620114	642674	21	18	24	25	1321	66265	
		OFF	2	37	38	76	49E	618203	641315	21	18	25	11	1317	66311			
196	6	1	9	ON	3	34	29	174	52E	757920	785620	22	0	39	17	1218	2357	
		OFF	3	36	6	174	17E	764524	792515	22	0	39	44	1216	2384			
197	8	1	9	ON	2	26	27	166	52E	621980	644610	22	1	54	40	13	2	6880
		OFF	2	18	51	166	27E	623316	645996	22	1	55	4	13	0	6904		
197	8	2	9	ON	2	6	19	163	18E	639782	663079	22	1	58	11	1251	7091	
		OFF	2	4	44	162	56E	642615	666620	22	1	58	34	1250	7114			
198	4	1	43	ON	2	52	21	161	36E	636806	659994	22	3	13	40	14	0	11620
		OFF	2	53	46	157	0E	629073	651970	22	3	15	22	1343	11722			
199	4	1	67	ON	2	65	45	144	48E	643915	667370	22	4	41	16	1420	16876	
		OFF	2	55	43	135	59E	633867	653832	22	4	43	54	1347	17034			
200	4	1	54	ON	2	42	15	107	3E	619420	641955	22	6	16	20	1324	22580	
		OFF	2	33	44	104	3E	616979	639422	22	6	18	20	1314	22708			
201	4	1	17	ON	2	72	12	111	13E	653396	677202	22	7	37	30	15	2	27450
		OFF	2	59	43	106	9E	649191	672845	22	7	38	13	1442	27493			
201	4	2	36	ON	2	52	14	39	27E	626623	649429	22	7	42	51	1340	27771	
		OFF	2	46	40	86	41E	621933	644562	22	7	44	16	1331	27856			
202	6	1	76	ON	2	55	9	69	36E	633334	653330	22	9	10	52	1349	33052	
		OFF	2	44	38	63	35E	620335	642904	22	9	13	48	1320	33220			
203	6	1	48	ON	2	50	11	43	56E	624179	646892	22	10	41	24	1337	38484	
		OFF	2	42	40	43	34E	619005	641524	22	10	43	18	1325	38598			
204	7	1	14	ON	2	50	33	28	26E	634801	657914	22	12	7	46	14	1	43666

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294	7	2	OFF	2	58	24	26	44E	632204	655219	22	12	8	20	1355	43790	
			ON	2	29	15	13	7E	615969	639432	22	12	15	41	1310	44141	
			OFF	2	26	12	12	63E	613263	648546	22	12	16	27	13	8	44187
284	7	3	ON	2	19	12	11	4E	622631	645348	22	12	18	9	13	2	44289
			OFF	2	14	47		51E	627420	659262	22	12	19	16	1258	44356	
276	8	1	ON	2	66	13	17	9W	641464	664848	22	15	4	18	1423	54258	
			OFF	2	62	40	14	5W	635652	659835	22	15	5	15	14	8	54315
276	8	2	ON	3	14	26	41	43W	691966	716294	22	15	24	35	1237	55475	
			OFF	3	25	11	44	35W	726276	752836	22	15	27	16	1228	55636	
211	5	1	ON	2	76	7	98	9W	655179	679057	22	22	26	24	1553	80784	
			OFF	2	72	54	109	12W	649253	672939	22	22	27	27	1510	80847	

OPERATIONS SUMMARY

AFT PAN CAMERA NUMBER 191

OPN NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM						
114	3	2	13	ON	1	2	42	39	16E	918467	944062	16	21	57	47	034	79067	
			OFF	1	3	51	33	32E	924847	938226	16	21	58	35	032	79115		
115	3	2	4	ON	2	57	48	153	48W	661936	685135	16	23	56	39	1341	86199	
			OFF	2	56	19	154	52W	657895	681875	16	23	57	2	1337	86222		
119	7	1	39	ON	2	49	11	112	1E	643500	666939	17	5	55	44	1323	21344	
			OFF	2	43	19	139	22E	634251	657342	17	5	57	15	1314	21435		
119	7	2	56	ON	2	26	15	103	42E	629002	642558	17	6	1	29	1256	21689	
			OFF	2	17	43	101	24E	629506	643081	17	6	3	36	1249	21816		
120	7	1	29	ON	2	46	15	88	22E	638624	661879	17	7	25	42	1319	26742	
			OFF	2	41	41	86	29E	632244	655259	17	7	26	51	1312	26811		
120	7	2	36	ON	2	35	17	84	12E	625330	648086	17	7	28	27	13	5	26907
			OFF	2	29	45	82	27E	621495	644108	17	7	29	50	1259	26990		
121	3	2	12	ON	1	38	16	126	57W	833213	863849	17	8	31	51	0	3	30711
			OFF	1	41	10	120	1W	827585	858082	17	8	32	36	0	0	30756	
121	8	1	72	ON	2	46	46	66	22E	639287	662568	17	8	54	46	1319	32086	
			OFF	2	35	44	62	5E	625775	648548	17	8	57	32	13	5	32252	
122	3	1	56	ON	2	50	12	45	43E	644532	668010	17	10	23	7	1325	37387	
			OFF	2	41	30	41	53E	631734	654731	17	10	25	19	1312	37519		
123	5	1	15	ON	2	74	48	53	21E	698911	724439	17	11	45	41	1518	42341	
			OFF	2	72	32	47	6E	692747	718042	17	11	46	21	1454	42381		
123	5	2	49	ON	2	61	15	30	46E	665500	689775	17	11	49	29	1352	42569	
			OFF	2	53	26	25	13E	649918	673599	17	11	51	30	1332	42690		
126	7	1	53	ON	3	4	27	59	54W	651131	674854	17	16	33	34	1233	59614	
			OFF	3	13	0	62	0W	672613	697146	17	16	35	42	1227	59742		
129	3	3	19	ON	2	37	14	115	31W	625936	648715	17	20	50	47	13	8	75047
			OFF	2	34	12	115	32W	623507	646195	17	20	51	33	13	5	75093	
133	6	1	45	ON	2	66	47	174	6E	672995	697545	18	2	39	57	1416	9597	
			OFF	2	59	42	166	50E	657941	681923	18	2	41	50	1348	9710		
135	9	1	55	ON	2	26	19	107	29E	619313	641844	18	5	48	37	1258	20917	
			OFF	2	17	51	105	11E	621100	643697	18	5	50	43	1251	21043		
135	9	2	31	ON	2	1	29	101	9E	640311	663629	18	5	54	40	1239	21208	
			OFF	3	3	31	99	56E	650338	674033	18	5	56	3	1235	21363		
136	9	1	72	ON	2	50	44	94	17E	640720	664055	18	7	11	41	1328	25901	
			OFF	2	39	41	89	32E	626513	649314	18	7	14	20	1312	26068		
137	3	1	19	ON	2	77	7	112	33E	698178	723677	18	8	33	30	16	3	30810

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137	3	2	OFF	2	74	48	131	48E	592543	715754	18	8	34	22	1526	32862	
			ON	2	47	14	7	29E	635171	658297	18	8	41	45	1322	31385	
138	6	1	OFF	2	36	38	66	19E	623535	646224	18	8	44	25	13	8	31465
			ON	2	37	58	44	15E	624271	646988	18	10	13	20	1312	36888	
138	6	2	OFF	2	34	8	47	5E	621722	644343	18	10	14	13	13	6	36853
			ON	2	5	23	35	19E	633958	657837	18	10	21	21	1242	37281	
139	5	1	OFF	3	3	9	33	15E	649845	673521	18	10	23	29	1236	37489	
			ON	2	74	13	55	38E	688179	713301	18	11	32	52	1515	41572	
139	5	2	OFF	2	72	48	51	15E	634964	729231	18	11	33	21	1458	41681	
			ON	2	59	12	27	15E	639254	662326	18	11	39	21	1328	41961	
145	5	1	OFF	2	40	38	23	5E	626944	649761	18	11	41	45	1313	42185	
			ON	2	37	9	111	42W	623376	646859	18	20	37	38	1318	74258	
150	7	1	OFF	2	31	35	113	31W	628284	642851	18	20	39	1	13	4	74341
			ON	3	16	28	122	35E	688521	713654	19	4	16	44	1228	15484	
151	5	1	OFF	3	24	8	126	53E	713651	739733	19	4	18	39	1221	15519	
			ON	2	47	13	115	52E	626127	648913	19	5	31	47	1315	19987	
151	5	2	OFF	2	32	43	113	18E	621418	644827	19	5	33	48	13	6	20228
			ON	2	26	15	111	22E	624275	642843	19	5	35	16	13	8	20116
152	5	1	OFF	2	17	47	129	4E	623241	645918	19	5	37	22	1253	20242	
			ON	2	60	18	184	26E	652889	676681	19	6	55	49	1353	24949	
153	4	1	OFF	2	49	39	97	39E	636225	659378	19	6	58	33	1328	25113	
			ON	2	77	12	117	6E	689886	715272	19	8	28	2	16	7	30082
153	4	2	OFF	2	74	43	155	43E	682725	707628	19	8	29	56	1523	30056	
			ON	2	55	48	78	47E	644592	668878	19	8	26	18	1341	30378	
153	4	3	OFF	2	49	28	75	14E	635418	658545	19	8	27	47	1328	30467	
			ON	2	47	8	74	12E	632649	655688	19	8	28	28	1324	30588	
154	3	1	OFF	2	44	51	73	12E	632845	652979	19	8	28	54	1321	30534	
			ON	2	69	13	59	52E	651777	675527	19	9	54	8	1353	35648	
155	6	1	OFF	2	47	37	52	13E	632884	655924	19	9	57	22	1325	35842	
			ON	2	64	1	41	17E	658211	682283	19	11	22	16	14	6	40936
155	6	2	OFF	2	61	48	38	59E	654887	677925	19	11	22	51	1358	40971	
			ON	2	66	5	34	34E	644393	667866	19	11	24	28	1342	41068	
158	7	1	OFF	2	44	4	28	22E	628688	651479	19	11	27	23	1326	41243	
			ON	3	47	9	65	7W	803421	832915	19	16	17	39	1156	58659	
162	3	2	OFF	3	56	1	69	57W	838865	868882	19	16	19	57	1139	58797	
			ON	2	48	32	84	15W	624848	646748	19	18	53	56	1316	68036	
162	3	1	OFF	2	37	51	85	14W	622161	644798	19	18	54	36	1313	68076	
			ON	2	21	16	90	15W	628768	643353	19	18	58	44	1257	68324	
161	3	1	OFF	2	17	15	91	18W	623322	646883	19	18	59	44	1254	68384	
			ON	2	73	14	76	48W	673945	698531	19	20	14	27	15	7	72867
161	3	2	OFF	2	69	40	84	36W	666115	698485	19	20	15	38	1436	72938	
			ON	2	37	37	107	33W	621884	644428	19	20	23	47	1313	73427	
166	3	1	OFF	2	31	25	109	35W	619382	641832	19	28	25	28	13	6	73528
			ON	2	66	45	159	42E	658218	682283	28	3	41	53	1428	13313	
166	3	2	OFF	2	64	39	157	13E	654382	678231	28	3	42	27	1418	13347	
			ON	2	68	43	153	19E	647625	671219	28	3	43	38	1356	13418	
167	3	1	OFF	2	59	8	152	2E	645883	668582	28	3	43	55	1351	13435	
			ON	2	58	11	124	13E	632497	655522	28	5	15	18	1331	18918	
167	3	2	OFF	2	39	48	119	42E	622783	645361	28	5	17	57	1316	19877	
			ON	2	26	15	115	24E	619462	641998	28	5	21	18	13	2	19278
			OFF	2	21	45	114	10E	621848	643634	28	5	22	25	1258	19345	

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	54	ON	2	42	36	94	35E	624637	647367	20	6	46	19	1320	24379			
		OFF	2	74	24	95	38E	619951	642515	20	6	48	22	1310	24502			
169	7	1	41	ON	2	55	41	32	52E	638967	662236	20	8	12	7	1343	29527	
		OFF	2	49	25	79	28E	638990	653967	20	8	13	43	1330	29623			
169	7	2	24	ON	2	37	18	72	4E	619741	641562	20	8	18	32	13	6	29912
		OFF	2	26	31	71	4E	619326	641836	20	8	19	27	13	3	29967		
170	3	1	54	ON	2	55	42	67	39E	638633	661890	20	9	41	13	1343	34873	
		OFF	2	47	27	56	18E	628591	651479	20	9	43	19	1327	34999			
171	6	1	86	ON	2	56	44	39	5E	639718	663016	20	11	10	3	1346	48203	
		OFF	2	43	30	32	13E	624797	647440	20	11	13	24	1322	48404			
172	6	1	14	ON	2	62	46	19	55E	645373	662883	20	12	39	6	1357	45486	
		OFF	2	55	38	18	6E	641898	665277	20	12	38	42	1350	45522			
172	6	2	36	ON	2	55	20	15	56E	637422	660631	20	12	39	30	1343	45570	
		OFF	2	49	46	12	43E	630522	653473	20	12	40	55	1331	45655			
174	8	1	27	ON	3	0	3	46	56W	650302	674078	20	15	51	31	1243	57091	
		OFF	3	4	33	40	2W	660957	685051	20	15	52	40	1240	57160			
176	3	0	12	ON	2	38	47	125	14W	622303	642868	20	21	38	13	1317	77893	
		OFF	2	35	51	125	55W	619469	642005	20	21	38	42	1314	77922			
183	7	1	46	ON	2	56	44	141	33E	650695	674406	21	4	56	25	1422	17785	
		OFF	2	59	42	134	26E	639893	663196	21	4	58	17	1355	17897			
183	7	2	9	ON	2	3	24	113	45E	645002	668579	21	5	12	24	1247	18744	
		OFF	2	1	52	113	23E	643114	671725	21	5	12	47	1246	18767			
184	7	1	51	ON	2	42	12	102	37E	621644	644262	21	6	31	48	1322	23500	
		OFF	2	34	27	99	52E	618559	641061	21	6	33	44	1313	23624			
185	3	1	50	ON	2	56	12	87	24E	634739	657049	21	7	57	19	1346	28639	
		OFF	2	48	33	83	6E	626454	649253	21	7	59	15	1331	28755			
186	0	1	80	ON	2	49	35	61	25E	627190	650016	21	9	28	4	1333	34084	
		OFF	2	37	27	56	25E	619193	641719	21	9	31	7	1316	34267			
187	3	1	36	ON	2	79	52	116	58E	681946	706834	21	10	47	30	1835	38858	
		OFF	2	77	44	84	11E	671127	695606	21	10	49	14	1625	38954			
187	3	2	79	ON	2	56	12	42	50E	634137	657225	21	10	55	26	1347	39326	
		OFF	2	44	8	36	43E	622472	645122	21	10	58	30	1325	39510			
188	3	1	36	ON	2	60	12	23	39E	638946	662214	21	12	23	20	1357	44600	
		OFF	2	54	37	19	43E	631954	654959	21	12	24	54	1343	44694			
191	9	1	72	ON	2	1	4	64	38W	651061	674782	21	17	5	28	1246	61528	
		OFF	3	13	59	67	34W	681544	706414	21	17	8	29	1237	61709			
192	4	0	19	ON	2	40	40	75	44W	619717	642263	21	18	24	37	1321	66277	
		OFF	2	37	43	76	51W	618544	641045	21	18	25	23	1317	66323			
196	6	1	8	ON	3	34	5	174	53E	700945	788820	22	0	39	29	1218	2369	
		OFF	3	35	49	174	18E	767545	795671	22	0	39	56	1217	2396			
197	0	1	9	ON	2	22	32	166	50E	622643	645297	22	1	54	52	13	2	6092
		OFF	2	18	55	166	24E	624668	646776	22	1	55	16	13	0	6916		
197	0	2	9	ON	2	6	25	163	16E	641245	664598	22	1	58	23	1251	7103	
		OFF	2	4	51	162	54E	644166	667629	22	1	58	46	1250	7126			
198	4	1	43	ON	2	60	26	161	37E	635798	658948	22	3	13	52	14	0	11632
		OFF	2	53	51	156	59E	628242	651109	22	3	15	34	1343	11734			
199	4	1	67	ON	2	55	51	144	51E	642799	666212	22	4	41	28	1420	16888	
		OFF	2	55	48	135	58E	629986	652918	22	4	44	6	1347	17046			
200	0	1	56	ON	2	42	19	107	2E	619017	641537	22	6	16	32	1324	22592	
		OFF	2	33	48	124	1E	616959	639402	22	6	18	40	1314	22720			
201	4	1	17	ON	2	72	18	111	24E	652184	675950	22	7	37	42	15	3	27462

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231	4	2	36	OFF	2	59	49	126	16E	648822	671638	22	7	38	25	1443	27585	
				OFF	2	52	18	89	26E	625862	648638	22	7	43	3	1340	27783	
				OFF	2	46	44	88	49E	521363	643978	22	7	44	28	1330	27868	
282	5	1	75	OFF	2	55	14	62	36E	629511	652425	22	9	11	4	1349	33864	
				OFF	2	44	42	63	34E	619849	642480	22	9	14	0	1328	33240	
283	6	1	58	ON	2	58	15	43	54E	625580	646188	22	10	41	36	1337	38496	
				OFF	2	42	44	40	32E	618686	641110	22	10	43	30	1325	38618	
284	7	1	14	ON	2	62	38	23	27E	633834	656910	22	12	7	58	14	1	43678
				OFF	2	58	29	26	44E	631289	654273	22	12	8	32	1355	43712	
284	7	2	19	ON	2	29	19	13	44E	617219	639671	22	12	15	53	1310	44153	
				OFF	2	26	16	12	51E	618453	640951	22	12	16	39	13	7	44199
284	7	3	28	ON	2	19	22	12	58E	623457	646142	22	12	18	21	13	2	44301
				OFF	2	14	52	9	49E	628445	651317	22	12	19	28	1258	44368	
286	8	1	23	ON	2	56	19	12	6W	640416	663740	22	15	4	38	1423	54270	
				OFF	2	62	45	14	4W	635655	658800	22	15	5	27	14	8	54327
286	8	2	58	ON	3	14	15	41	45W	693576	719899	22	15	24	47	1237	55487	
				OFF	3	24	57	44	35W	729131	755799	22	15	27	28	1228	55648	
211	5	1	24	ON	2	76	13	97	49W	654888	677843	22	22	26	36	1555	80796	
				OFF	2	73	0	109	1W	648123	671737	22	22	27	39	1511	80859	

PHOTOGRAPHIC SUMMARY

FWD PAN CAMERA NO	192	2.2387	SLIT	N/23A	FILTER	3404	FILM					
OPN NO	FPA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI			
114	3	8	13	34.4	ON	227	-73.3	-323.2	11.55	0.00	0.00	0.00
					OFF	227	-70.6	-328.7	11.55	0.00	0.00	0.00
115	3	8	3	7.9	ON	227	42.3	13.2	11.55	12.40	11.80	11.20
					OFF	227	43.8	13.6	11.55	12.41	11.81	11.21
119	7	1	39	123.2	ON	326	58.9	15.9	12.11	12.42	11.82	11.22
					OFF	312	56.8	18.5	12.14	12.42	11.82	11.22
119	7	2	56	148.1	ON	321	72.4	35.3	12.18	12.42	11.82	11.22
					OFF	320	78.4	60.3	12.17	12.42	11.82	11.22
120	7	1	29	76.7	ON	312	53.7	17.1	12.13	12.42	11.82	11.22
					OFF	314	58.2	19.4	12.14	12.42	11.82	11.22
120	7	2	36	95.2	ON	318	64.3	23.8	12.16	12.42	11.82	11.22
					OFF	320	69.4	29.8	12.17	12.42	11.82	11.22
121	8	8	13	34.4	ON	229	-37.8	12.8	11.56	0.00	0.00	0.00
					OFF	210	-34.9	12.3	11.57	0.00	0.00	0.00
121	8	1	72	190.4	ON	309	53.2	17.2	12.13	12.42	11.82	11.22
					OFF	318	63.8	23.5	12.16	12.42	11.82	11.22
122	3	1	56	148.1	ON	326	49.8	15.7	12.11	12.42	11.82	11.22
					OFF	314	58.3	19.6	12.15	12.42	11.82	11.22
123	5	1	15	39.7	ON	268	23.4	9.9	11.92	12.17	11.57	10.97
					OFF	272	26.1	10.4	11.94	12.23	11.63	11.03
123	5	2	48	127.0	ON	291	38.5	12.8	12.04	12.38	11.78	11.18
					OFF	302	46.5	14.7	12.09	12.42	11.82	11.22
125	7	1	53	140.2	ON	301	70.5	147.5	12.09	12.42	11.82	11.22
					OFF	290	62.8	156.9	12.03	12.42	11.82	11.22
129	3	8	19	50.3	ON	318	62.1	22.7	12.16	12.42	11.82	11.22
					OFF	319	65.0	25.3	12.17	12.42	11.82	11.22
133	6	1	45	119.0	ON	285	32.3	12.0	12.01	12.32	11.72	11.12

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135 9 1	55	145.5	OFF 296	39.8	13.5	12.36	12.39	11.79	11.19
			ON 333	71.7	35.9	12.23	12.42	11.82	11.22
135 9 2	31	82.3	OFF 332	77.5	59.4	12.23	12.42	11.82	11.22
			ON 319	75.2	133.7	12.17	12.42	11.82	11.22
136 9 1	71	187.8	OFF 313	71.3	144.8	12.14	12.42	11.82	11.22
			ON 320	48.8	16.1	12.17	12.42	11.82	11.22
137 3 1	19	52.3	OFF 329	59.6	21.3	12.22	12.42	11.82	11.22
			ON 276	19.5	9.5	11.96	12.04	11.44	10.84
137 3 2	69	162.5	OFF 282	23.0	19.4	11.99	12.16	11.56	10.96
			ON 324	52.2	17.5	12.19	12.42	11.82	11.22
138 6 1	23	66.8	OFF 331	62.4	23.5	12.22	12.42	11.82	11.22
			ON 331	61.5	22.8	12.22	12.42	11.82	11.22
138 6 2	54	142.8	OFF 332	64.7	25.8	12.23	12.42	11.82	11.22
			ON 322	77.6	119.9	12.18	12.42	11.82	11.22
139 5 1	11	29.1	OFF 313	71.6	143.8	12.14	12.42	11.82	11.22
			ON 284	23.5	19.6	12.00	12.17	11.57	10.97
139 5 2	61	161.3	OFF 237	25.5	12.9	12.02	12.22	11.62	11.02
			ON 321	49.2	16.4	12.18	12.42	11.82	11.22
145 5 1	36	95.2	OFF 329	58.6	20.9	12.21	12.42	11.82	11.22
			ON 332	61.7	23.5	12.23	12.42	11.82	11.22
150 7 1	44	116.4	OFF 333	66.8	28.8	12.23	12.42	11.82	11.22
			ON 289	59.9	157.4	12.63	12.42	11.82	11.22
151 5 1	49	129.6	OFF 277	52.6	161.5	11.97	12.42	11.82	11.22
			ON 331	58.6	21.7	12.22	12.42	11.82	11.22
151 5 2	55	145.5	OFF 333	55.5	27.8	12.23	12.42	11.82	11.22
			ON 333	71.1	36.7	12.23	12.42	11.82	11.22
152 5 1	68	179.9	OFF 332	77.0	59.4	12.22	12.42	11.82	11.22
			ON 311	38.6	14.1	12.13	12.38	11.78	11.18
153 4 1	20	52.9	OFF 324	49.3	17.2	12.19	12.42	11.82	11.22
			ON 279	18.9	10.1	11.98	12.02	11.42	10.82
153 4 2	41	108.4	OFF 265	22.5	10.9	12.01	12.14	11.54	10.94
			ON 316	43.3	15.3	12.15	12.41	11.81	11.21
153 4 3	14	37.2	OFF 322	49.6	17.3	12.18	12.42	11.82	11.22
			ON 324	51.8	18.2	12.19	12.42	11.82	11.22
154 3 1	33	219.5	OFF 326	54.0	19.2	12.20	12.42	11.82	11.22
			ON 312	38.6	14.2	12.13	12.38	11.78	11.18
155 6 1	14	37.0	OFF 324	51.3	18.0	12.19	12.42	11.82	11.22
			ON 304	34.6	13.3	12.13	12.35	11.75	11.15
155 6 2	79	209.8	OFF 327	37.0	13.8	12.12	12.37	11.77	11.17
			ON 315	42.2	15.2	12.15	12.40	11.80	11.20
158 7 1	45	119.0	OFF 326	54.7	19.7	12.20	12.42	11.82	11.22
			ON 244	29.7-193.0		11.78	12.29	11.69	11.09
160 3 0	17	45.0	OFF 235	29.6-191.9		11.73	12.08	11.48	10.88
			ON 329	57.9	21.9	12.21	12.42	11.82	11.22
160 3 1	26	68.8	OFF 330	60.5	23.7	12.22	12.42	11.82	11.22
			ON 329	74.5	48.1	12.22	12.42	11.82	11.22
161 3 1	24	63.5	OFF 327	76.9	61.3	12.21	12.42	11.82	11.22
			ON 290	24.1	11.6	12.03	12.19	11.59	10.99
161 3 2	40	105.8	OFF 297	28.3	12.4	12.06	12.27	11.67	11.07
			ON 330	60.7	23.9	12.22	12.42	11.82	11.22
			OFF 331	66.3	29.7	12.22	12.42	11.82	11.22

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	13	34.4	ON	303	31.4	13.2	12.69	12.31	11.71	11.11
			OFF	306	33.6	13.6	12.11	12.34	11.74	11.14
166	3 2	9	23.8	ON	311	37.7	14.5	12.14	12.37	11.77
			OFF	313	39.4	14.9	12.14	12.38	11.78	11.18
167	3 1	69	182.5	ON	325	46.3	17.6	12.27	12.42	11.82
			OFF	333	58.5	22.8	12.23	12.42	11.82	11.22
167	3 2	29	76.7	ON	334	72.5	37.3	12.23	12.42	11.82
			OFF	332	73.9	47.0	12.23	12.42	11.82	11.22
168	3 1	54	142.8	ON	332	55.7	21.8	12.23	12.42	11.82
			OFF	334	63.4	26.9	12.24	12.42	11.82	11.22
169	7 1	41	166.4	ON	321	42.6	15.9	12.18	12.40	11.80
			OFF	327	49.8	18.0	12.21	12.42	11.82	11.22
169	7 2	24	63.5	ON	334	67.1	31.6	12.24	12.42	11.82
			OFF	334	73.2	37.3	12.23	12.42	11.82	11.22
170	3 1	54	142.8	ON	321	42.7	15.9	12.18	12.40	11.80
			OFF	329	53.9	18.8	12.21	12.42	11.82	11.22
171	6 1	37	236.1	ON	327	41.7	15.7	12.18	12.40	11.80
			OFF	331	54.7	20.7	12.22	12.42	11.82	11.22
172	6 1	15	39.7	ON	316	37.5	14.7	12.15	12.37	11.77
			OFF	318	39.8	15.3	12.17	12.39	11.79	11.19
172	6 2	36	95.2	ON	322	43.0	16.1	12.18	12.40	11.80
			OFF	327	48.6	17.9	12.21	12.42	11.82	11.22
174	8 1	28	74.1	ON	313	73.9	131.5	12.13	12.42	11.82
			OFF	324	74.5	141.6	12.18	12.42	11.82	11.22
178	3 8	12	31.7	ON	334	59.0	23.8	12.23	12.42	11.82
			OFF	334	60.6	25.3	12.24	12.42	11.82	11.22
183	7 1	46	121.7	ON	339	38.9	13.8	12.12	12.31	11.71
			OFF	318	38.3	15.4	12.17	12.38	11.78	11.18
183	7 2	9	23.6	ON	313	75.8	119.8	12.14	12.42	11.82
			OFF	311	75.8	124.8	12.13	12.42	11.82	11.22
184	7 1	51	134.9	ON	333	55.5	22.0	12.23	12.42	11.82
			OFF	334	62.7	27.6	12.24	12.42	11.82	11.22
185	3 1	58	132.3	ON	323	41.8	16.4	12.19	12.40	11.80
			OFF	329	49.3	19.0	12.22	12.42	11.82	11.22
186	8 1	53	211.6	ON	323	48.3	18.6	12.19	12.42	11.82
			OFF	329	59.9	25.2	12.21	12.42	11.82	11.22
187	3 1	36	95.2	ON	273	16.7	9.8	11.95	11.48	10.88
			OFF	284	17.1	11.0	12.00	11.93	11.33	10.73
187	3 2	80	211.6	ON	318	41.7	16.5	12.16	12.40	11.80
			OFF	327	53.6	21.0	12.20	12.42	11.82	11.22
188	3 1	36	95.2	ON	314	37.6	15.4	12.15	12.37	11.77
			OFF	319	43.2	17.0	12.17	12.41	11.81	11.21
191	9 1	72	190.4	ON	323	74.4	126.0	12.09	12.42	11.82
			OFF	284	65.2	148.9	12.08	12.42	11.82	11.22
192	4 0	19	52.3	ON	328	55.5	23.1	12.21	12.42	11.82
			OFF	329	59.4	25.2	12.21	12.42	11.82	11.22
196	6 1	9	23.8	ON	251	43.5	162.4	11.82	12.41	11.81
			OFF	249	41.8	162.9	11.81	12.40	11.80	11.20
197	8 1	9	23.8	ON	323	73.4	50.6	12.19	12.42	11.82
			OFF	322	74.4	55.2	12.18	12.42	11.82	11.22
197	8 2	9	23.8	ON	308	76.7	105.9	12.12	12.42	11.82

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198	4	1	45	113.7	OFF	317	76.2	112.2	12.11	12.42	11.82	11.22
					ON	315	37.2	15.7	12.15	12.37	11.77	11.17
					OFF	321	43.7	17.6	12.19	12.41	11.81	11.21
199	4	1	67	177.2	ON	319	31.3	14.6	12.12	12.31	11.71	11.11
					OFF	322	41.7	17.3	12.17	12.40	11.80	11.20
200	4	1	54	142.8	ON	323	54.3	22.6	12.21	12.42	11.82	11.22
					OFF	329	62.7	28.9	12.21	12.42	11.82	11.22
201	4	1	17	45.3	ON	299	24.1	13.2	12.08	12.19	11.59	10.99
					OFF	323	27.0	13.8	12.09	12.25	11.65	11.05
201	4	2	36	95.2	ON	323	45.1	18.2	12.19	12.41	11.81	11.21
					OFF	326	58.6	22.4	12.20	12.42	11.82	11.22
202	6	1	76	291.3	ON	327	41.2	17.0	12.17	12.39	11.79	11.19
					OFF	327	52.5	21.4	12.21	12.42	11.82	11.22
203	6	1	46	127.9	ON	325	47.1	19.0	12.19	12.42	11.82	11.22
					OFF	328	54.3	22.5	12.21	12.42	11.82	11.22
204	7	1	14	37.7	ON	316	36.6	15.9	12.15	12.36	11.76	11.16
					OFF	318	38.8	16.5	12.16	12.38	11.78	11.18
204	7	2	23	52.9	ON	327	66.5	34.1	12.21	12.42	11.82	11.22
					OFF	326	69.8	38.7	12.20	12.42	11.82	11.22
204	7	3	28	74.1	ON	321	73.9	53.9	12.18	12.42	11.82	11.22
					OFF	317	76.1	68.9	12.15	12.42	11.82	11.22
206	8	1	23	69.8	ON	329	30.6	14.7	12.12	12.30	11.70	11.10
					OFF	313	34.4	15.5	12.14	12.34	11.74	11.14
206	8	2	36	153.4	ON	275	62.4	152.9	11.96	12.42	11.82	11.22
					OFF	261	52.5	158.3	11.88	12.42	11.82	11.22
211	5	1	25	66.1	ON	292	18.6	12.5	12.03	12.01	11.41	10.81
					OFF	297	23.8	13.4	12.06	12.16	11.56	10.96

PHOTOGRAPHIC SUMMARY

AFT PAN	CAMERA	NO	191	2.1500	SLIT	W/21	FILTER	3404	FILM			
OPN	NO	FRA	FEST	ET	S-EL	S-DIR	EV	FULL	INT	PRI		
114	3	0	13	34.4	ON	279	-73.7-322.3	11.97	0.00	0.00	0.00	
					OFF	279	-71.1-328.1	11.97	0.00	0.00	0.00	
115	2	2	4	12.6	ON	279	42.2 13.6	11.97	12.73	12.13	11.53	
					OFF	279	43.7 14.0	11.97	12.74	12.14	11.54	
119	7	1	39	103.2	ON	412	52.8 16.1	12.54	12.75	12.15	11.55	
					OFF	420	56.7 18.6	12.57	12.75	12.15	11.55	
119	7	2	56	148.1	ON	432	72.4 35.2	12.60	12.75	12.15	11.55	
					OFF	432	78.4 68.0	12.60	12.75	12.15	11.55	
120	7	1	29	76.7	ON	417	53.7 17.3	12.55	12.75	12.15	11.55	
					OFF	422	58.1 19.4	12.57	12.75	12.15	11.55	
120	7	2	36	95.2	ON	428	64.3 23.8	12.59	12.75	12.15	11.55	
					OFF	431	69.3 29.7	12.60	12.75	12.15	11.55	
121	8	0	12	31.7	ON	281	-38.2 13.0	11.99	0.00	0.00	0.00	
					OFF	283	-35.3 12.5	12.00	0.00	0.00	0.00	
121	8	1	72	196.4	ON	416	53.1 17.1	12.55	12.75	12.15	11.55	
					OFF	427	63.8 23.5	12.59	12.75	12.15	11.55	
122	3	1	56	148.1	ON	412	49.7 15.9	12.54	12.75	12.15	11.55	
					OFF	423	58.3 19.6	12.57	12.75	12.15	11.55	
123	5	1	15	39.7	ON	360	23.2 12.3	12.34	12.50	11.90	11.30	

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			OFF 366	25.9	12.2	12.37	12.56	11.96	11.36
123 5 2	49	129.6	ON 392	39.4	13.3	12.47	12.71	12.11	11.51
			OFF 426	46.4	15.8	12.52	12.75	12.15	11.55
126 7 1	53	146.2	ON 425	79.6	147.4	12.51	12.75	12.15	11.55
			OFF 397	62.9	156.9	12.46	12.75	12.15	11.55
129 3 0	19	52.3	ON 427	62.1	22.7	12.59	12.75	12.15	11.55
			OFF 429	64.9	25.2	12.68	12.75	12.15	11.55
133 6 1	45	119.2	ON 393	32.2	12.9	12.43	12.65	12.05	11.45
			OFF 398	39.7	14.8	12.49	12.72	12.12	11.52
135 9 1	55	145.5	ON 442	71.7	35.8	12.64	12.75	12.15	11.55
			OFF 439	77.6	59.1	12.63	12.75	12.15	11.55
135 9 2	31	82.8	ON 422	75.3	133.5	12.57	12.75	12.15	11.55
			OFF 414	71.5	144.7	12.55	12.75	12.15	11.55
136 9 1	72	192.4	ON 424	48.7	16.3	12.58	12.75	12.15	11.55
			OFF 436	59.5	21.4	12.62	12.75	12.15	11.55
137 3 1	19	52.3	ON 366	19.4	13.8	12.37	12.37	11.77	11.17
			OFF 373	22.8	12.7	12.48	12.48	11.88	11.28
137 3 2	69	122.5	ON 429	52.2	17.6	12.68	12.75	12.15	11.55
			OFF 439	62.4	23.6	12.63	12.75	12.15	11.55
138 6 1	23	68.8	ON 432	61.4	22.8	12.63	12.75	12.15	11.55
			OFF 449	64.7	25.7	12.63	12.75	12.15	11.55
138 6 2	53	142.2	ON 427	77.7	119.7	12.59	12.75	12.15	11.55
			OFF 414	71.8	143.7	12.55	12.75	12.15	11.55
139 5 1	11	29.1	ON 376	23.4	12.8	12.41	12.58	11.98	11.38
			OFF 379	25.3	12.8	12.42	12.55	11.95	11.35
139 5 2	61	161.3	ON 425	49.1	16.6	12.58	12.75	12.15	11.55
			OFF 435	58.5	28.9	12.62	12.75	12.15	11.55
145 5 1	36	95.2	ON 439	61.6	23.5	12.63	12.75	12.15	11.55
			OFF 441	66.7	28.7	12.64	12.75	12.15	11.55
150 7 1	42	111.1	ON 363	69.1	157.3	12.43	12.75	12.15	11.55
			OFF 366	52.8	161.4	12.37	12.75	12.15	11.55
151 5 1	49	129.6	ON 432	58.5	21.7	12.63	12.75	12.15	11.55
			OFF 441	65.5	27.8	12.64	12.75	12.15	11.55
151 5 2	55	145.5	ON 441	71.1	36.6	12.64	12.75	12.15	11.55
			OFF 438	77.2	59.1	12.62	12.75	12.15	11.55
152 5 1	69	132.5	ON 412	39.5	14.6	12.54	12.71	12.11	11.51
			OFF 429	49.3	17.4	12.68	12.75	12.15	11.55
153 4 1	28	52.9	ON 369	18.8	13.5	12.38	12.34	11.74	11.14
			OFF 377	22.3	13.3	12.41	12.47	11.87	11.27
153 4 2	48	125.8	ON 418	43.2	15.6	12.56	12.74	12.14	11.54
			OFF 426	49.6	17.5	12.59	12.75	12.15	11.55
153 4 3	14	37.2	ON 429	51.7	18.4	12.68	12.75	12.15	11.55
			OFF 431	54.8	19.3	12.68	12.75	12.15	11.55
154 3 1	82	216.9	ON 418	38.5	14.7	12.53	12.71	12.11	11.51
			OFF 428	51.2	18.2	12.59	12.75	12.15	11.55
155 6 1	14	37.2	ON 423	34.5	14.1	12.51	12.67	12.07	11.47
			OFF 427	36.8	14.4	12.52	12.78	12.18	11.58
155 6 2	78	226.3	ON 417	42.7	15.6	12.56	12.73	12.13	11.53
			OFF 432	54.7	19.8	12.61	12.75	12.15	11.55
158 7 1	44	116.4	ON 323	32.2-193.3		12.19	12.63	12.03	11.43
			OFF 312	21.2-192.4		12.13	12.43	11.83	11.23

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	17	45.7	ON 435	57.9	21.9	12.62	12.75	12.15	11.55
			OFF 437	63.4	23.7	12.62	12.75	12.15	11.55
160	3 1	25	66.1	ON 436	74.3	47.9	12.62	12.75	12.15
			OFF 433	75.9	61.8	12.61	12.75	12.15	11.55
161	3 1	24	63.5	ON 394	24.8	13.5	12.44	12.52	11.92
			OFF 392	28.2	13.6	12.47	12.68	12.88	11.48
161	3 2	42	105.8	ON 437	62.6	23.9	12.62	12.75	12.15
			OFF 439	66.3	29.6	12.63	12.75	12.15	11.55
166	3 1	13	34.4	ON 433	31.3	14.1	12.58	12.64	12.84
			OFF 434	33.5	14.4	12.51	12.67	12.87	11.47
166	3 2	9	23.8	ON 412	37.6	15.8	12.54	12.78	12.18
			OFF 414	39.3	15.3	12.55	12.71	12.11	11.51
167	3 1	69	182.5	ON 433	48.3	17.8	12.61	12.75	12.15
			OFF 442	58.5	22.8	12.64	12.75	12.15	11.55
167	3 2	29	76.7	ON 443	79.5	37.2	12.64	12.75	12.15
			OFF 441	73.9	46.8	12.64	12.75	12.15	11.55
168	3 1	54	142.8	ON 440	55.6	21.1	12.63	12.75	12.15
			OFF 444	63.3	26.9	12.65	12.75	12.15	11.55
169	7 1	41	108.4	ON 426	42.7	16.2	12.59	12.73	12.13
			OFF 434	49.3	18.2	12.61	12.75	12.15	11.55
169	7 2	24	63.5	ON 444	67.1	31.5	12.65	12.75	12.15
			OFF 443	72.2	36.8	12.64	12.75	12.15	11.55
170	3 1	54	142.8	ON 427	42.6	16.3	12.59	12.73	12.13
			OFF 437	50.9	18.9	12.62	12.75	12.15	11.55
171	6 1	36	227.5	ON 425	41.6	16.1	12.58	12.73	12.13
			OFF 440	54.7	20.8	12.63	12.75	12.15	11.55
172	6 1	14	37.6	ON 419	37.4	15.2	12.56	12.70	12.18
			OFF 423	39.7	15.7	12.57	12.72	12.12	11.52
172	6 2	36	95.2	ON 428	42.9	16.4	12.59	12.73	12.13
			OFF 434	48.5	18.1	12.61	12.75	12.15	11.55
174	8 1	27	71.4	ON 411	74.1	131.3	12.54	12.75	12.15
			OFF 453	70.6	141.5	12.51	12.75	12.15	11.55
178	3 5	12	31.7	ON 443	58.9	23.9	12.64	12.75	12.15
			OFF 444	60.7	25.3	12.65	12.75	12.15	11.55
183	7 1	46	121.7	ON 418	36.8	14.7	12.53	12.63	12.83
			OFF 423	38.2	15.8	12.58	12.71	12.11	11.51
183	7 2	9	23.8	ON 415	75.9	119.6	12.55	12.75	12.15
			OFF 413	75.1	124.6	12.54	12.75	12.15	11.55
184	7 1	51	134.9	ON 442	55.5	22.1	12.64	12.75	12.15
			OFF 444	62.7	27.6	12.65	12.75	12.15	11.55
185	3 1	58	132.3	ON 429	41.7	16.7	12.60	12.73	12.13
			OFF 437	49.3	19.1	12.62	12.75	12.15	11.55
186	8 1	58	211.6	ON 428	48.2	18.8	12.59	12.75	12.15
			OFF 435	59.9	25.2	12.62	12.75	12.15	11.55
187	3 1	36	95.2	ON 362	18.6	15.3	12.35	11.79	11.19
			OFF 375	17.8	14.7	12.48	12.26	11.66	11.86
187	3 2	79	289.2	ON 421	41.6	16.8	12.57	12.73	12.13
			OFF 433	53.5	21.2	12.61	12.75	12.15	11.55
188	3 1	36	95.2	ON 415	37.5	15.9	12.55	12.70	12.18
			OFF 423	43.2	17.3	12.58	12.74	12.14	11.54
191	9 1	72	198.4	ON 461	74.5	125.8	12.58	12.75	12.15

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192 4 6	19	58.3	OFF 377	65.3	148.8	12.41	12.75	12.15	11.55
			ON 435	56.5	23.2	12.62	12.75	12.15	11.55
			OFF 435	59.4	25.3	12.62	12.75	12.15	11.55
196 6 1	6	21.2	ON 332	43.8	162.3	12.23	12.74	12.14	11.54
			OFF 332	42.1	152.8	12.22	12.73	12.13	11.53
197 8 1	9	23.8	ON 428	73.4	52.4	12.59	12.75	12.15	11.55
			OFF 428	74.4	54.9	12.59	12.75	12.15	11.55
197 8 2	9	23.8	ON 429	76.8	125.6	12.53	12.75	12.15	11.55
			OFF 426	76.3	112.8	12.52	12.75	12.15	11.55
198 4 1	43	113.7	ON 417	36.9	16.3	12.56	12.72	12.12	11.52
			OFF 426	43.6	17.9	12.59	12.74	12.14	11.54
199 4 1	67	177.2	ON 429	31.5	15.4	12.53	12.64	12.04	11.44
			OFF 424	41.6	17.4	12.58	12.73	12.13	11.53
200 4 1	56	148.1	ON 435	54.6	22.7	12.62	12.75	12.15	11.55
			OFF 435	62.7	28.9	12.62	12.75	12.15	11.55
201 4 1	17	45.8	ON 396	24.5	14.9	12.48	12.51	11.91	11.31
			OFF 421	26.9	15.3	12.58	12.58	11.98	11.38
201 4 2	36	95.2	ON 426	45.1	18.5	12.59	12.74	12.14	11.54
			OFF 432	52.5	22.5	12.61	12.75	12.15	11.55
202 6 1	75	231.7	ON 424	41.1	17.4	12.58	12.72	12.12	11.52
			OFF 434	52.4	21.5	12.61	12.75	12.15	11.55
203 6 1	56	132.3	ON 432	47.8	19.2	12.62	12.75	12.15	11.55
			OFF 435	54.3	22.6	12.61	12.75	12.15	11.55
204 7 1	14	37.8	ON 413	36.6	16.4	12.56	12.69	12.09	11.49
			OFF 421	38.8	16.9	12.57	12.71	12.11	11.51
204 7 2	19	58.3	ON 434	66.4	34.1	12.61	12.75	12.15	11.55
			OFF 432	58.9	38.6	12.61	12.75	12.15	11.55
204 7 3	28	74.1	ON 426	73.9	53.6	12.59	12.75	12.15	11.55
			OFF 423	76.1	68.6	12.57	12.75	12.15	11.55
206 8 1	23	68.8	ON 429	38.5	15.6	12.53	12.63	12.03	11.43
			OFF 415	34.3	16.1	12.55	12.67	12.07	11.47
206 8 2	53	153.4	ON 364	62.6	152.8	12.36	12.75	12.15	11.55
			OFF 345	52.7	158.2	12.28	12.75	12.15	11.55
211 5 1	24	63.5	ON 385	13.7	15.3	12.44	12.34	11.74	11.14
			OFF 393	22.9	15.2	12.47	12.49	11.89	11.29

STELLAR-INDEX SUMMARY

CAMERA DATA ET FILM FILTER GRID ASSEMBLY NO D88
 STELLAR 1.0 4401 NONE 108
 INDEX 17500 4400 W/21 106

PERFORMANCE SUMMARY

OPN NO	FR	STEL FEET	INDX FEET	H	M	S	Q	ON LAT	ON LONG	Q	OFF LAT	OFF LONG	SEC DUR
114 3 0	2	3.28	3.40	21	57	35	1	1	39E	1	4	38E	48
119 7 1	6	3.59	1.19	5	55	32	2	49	112E	2	43	109E	91
119 7 2	8	3.79	1.58	6	1	17	2	26	103E	2	17	101E	127
120 7 1	4	3.46	3.79	7	25	30	2	46	88E	2	41	86E	69
120 7 2	6	3.59	1.19	7	28	15	2	35	84E	2	29	82E	83
121 8 0	2	3.28	3.40	8	31	39	1	38	127W	1	41	128W	45
121 8 1	10	3.99	1.98	8	54	34	2	46	66E	2	35	62E	166

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123	5	1	2	7.69	1.78	10	22	55	2	56	45E	2	41	41E	132
123	5	2	7	8.20	1.46	11	45	29	2	74	52E	2	72	46E	40
123	5	2	7	3.60	1.39	11	49	17	2	51	30E	2	53	25E	121
126	7	1	3	2.79	1.58	15	33	22	3	4	59W	3	13	61W	128
129	3	0	3	2.32	2.59	22	58	35	2	37	115W	2	34	116W	46
133	6	1	7	2.69	1.39	2	39	45	2	66	173E	2	59	166E	113
135	9	1	8	2.79	1.58	5	48	25	2	26	107E	2	17	105E	126
135	9	2	5	2.58	2.99	5	54	36	2	1	101E	3	3	99E	75
136	9	1	12	2.99	1.98	7	11	29	2	58	94E	2	39	89E	167
137	3	1	3	2.30	2.59	8	33	18	2	77	111E	2	74	101E	52
137	3	2	12	2.99	1.98	9	41	35	2	47	72E	2	36	66E	160
138	6	1	4	2.40	2.79	10	13	8	2	37	44E	2	34	43E	53
138	6	2	8	2.79	1.58	12	21	9	2	5	35E	3	3	33E	128
139	5	1	2	2.20	2.40	11	32	40	2	74	55E	2	72	50E	29
139	5	2	9	2.89	1.78	11	39	9	2	50	27E	2	40	23E	144
145	5	1	5	2.50	2.99	20	37	26	2	37	111W	2	31	113W	83
150	7	1	7	2.69	1.39	4	16	32	3	16	122E	3	24	120E	115
151	5	1	7	2.69	1.39	5	31	35	2	40	115E	2	32	113E	113
151	5	2	8	2.79	1.58	5	35	4	2	26	111E	2	17	109E	126
152	5	1	10	2.99	1.98	6	55	37	2	60	104E	2	49	97E	164
153	4	1	3	2.30	2.59	8	19	50	2	77	116E	2	74	105E	54
153	4	2	6	2.59	1.19	8	25	58	2	55	70E	2	49	75E	97
153	4	3	3	2.30	2.59	8	28	8	2	47	74E	2	44	73E	34
154	3	1	12	1.19	2.38	9	53	56	2	60	59E	2	47	52E	194
155	6	1	2	2.20	2.40	11	22	4	2	63	41E	2	61	38E	35
155	6	2	12	1.19	2.38	11	24	8	2	55	34E	2	43	28E	103
158	7	1	5	2.59	1.19	16	17	27	3	47	65W	3	56	70W	138
160	3	0	3	2.30	2.59	13	53	44	2	40	84Y	2	37	85W	40
160	3	1	4	2.40	2.79	18	58	32	2	21	90W	2	17	91W	60
161	3	1	4	2.40	2.79	20	14	15	2	73	77W	2	69	84W	63
161	3	2	6	2.59	1.19	20	23	35	2	37	107W	2	31	109W	93
166	3	1	2	2.20	2.40	3	41	41	2	66	159E	2	64	157E	34
166	3	2	2	2.20	2.40	3	43	18	2	60	153E	2	59	152E	25
167	3	1	12	2.99	1.98	5	15	6	2	50	124E	2	39	119E	159
167	3	2	4	2.40	2.79	5	21	6	2	26	115E	2	21	114E	67
168	3	1	8	2.79	1.58	6	46	7	2	42	98E	2	34	95E	123
169	7	1	6	2.59	1.19	8	11	55	2	55	82E	2	49	79E	96
169	7	2	4	2.40	2.79	8	18	20	2	30	72E	2	26	71E	55
170	3	1	8	2.79	1.58	9	41	1	2	55	60E	2	47	56E	126
171	6	1	13	1.29	2.57	11	9	51	2	56	39E	2	43	32E	201
172	8	1	2	2.20	2.40	12	37	54	2	60	19E	2	58	18E	36
172	6	2	6	2.59	1.19	12	39	18	2	55	15E	2	49	12E	85
174	8	1	4	2.40	2.79	15	51	19	2	0	46W	3	4	48W	69
178	3	0	2	2.20	2.40	21	38	1	2	38	125W	2	36	125W	29
183	7	1	7	2.69	1.39	4	56	13	2	66	141E	2	59	134E	112
183	7	2	1	2.10	2.20	5	12	12	2	3	113E	2	1	113E	23
184	7	1	8	2.79	1.58	6	31	36	2	42	102E	2	34	99E	116
185	3	1	7	2.69	1.39	7	57	7	2	56	87E	2	48	83E	116
186	8	1	12	1.19	2.38	9	27	52	2	49	61E	2	37	56E	183
187	3	1	5	2.50	2.99	10	47	26	2	79	116E	2	77	83E	96
187	3	2	12	1.19	2.38	10	55	14	2	56	42E	2	44	36E	184

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191	9	1	18	8.59	1.19	12	23	16	2	68	23E	2	54	19E	86
192	4	8	3	8.38	8.59	18	24	25	2	48	75W	2	37	76W	46
196	6	1	2	8.28	8.48	7	39	17	3	34	174E	3	36	174E	27
197	8	1	1	8.18	8.28	1	54	46	2	26	166E	2	18	166E	24
197	8	2	2	8.28	8.48	1	58	11	2	6	163E	2	4	162E	23
198	4	1	6	8.59	1.19	3	13	48	2	58	161E	2	53	157E	182
199	4	1	12	8.99	1.98	4	41	16	2	55	144E	2	55	135E	158
200	4	1	8	8.79	1.58	6	16	26	2	42	127E	2	33	184E	128
201	4	1	3	8.38	8.59	7	37	32	2	72	111E	2	69	186E	43
201	4	2	5	8.59	8.99	7	42	51	2	52	89E	2	46	86E	85
202	6	1	11	1.89	2.18	9	18	52	2	56	69E	2	44	63E	176
203	6	1	8	8.79	1.58	12	41	24	2	58	43E	2	42	48E	114
204	7	1	2	8.28	8.48	12	7	46	2	68	28E	2	58	26E	34
204	7	2	3	8.38	8.59	12	15	41	2	29	13E	2	26	12E	46
204	7	3	4	8.48	8.79	12	18	9	2	19	11E	2	14	9E	67
206	8	1	4	8.48	8.79	15	4	18	2	66	18W	2	62	14W	57
206	8	2	8	8.79	1.58	15	24	35	3	14	41W	3	25	44W	161
211	5	1	4	8.48	8.79	22	26	24	2	76	98W	2	72	189W	63

NOTE - ONLY THE LAST FIVE FRAMES OF OPERATION 114-3-8 ARE CONTAINED IN THE B MISSION RECOVERY CAPSULE.

NOTE - OPERATION 115-8-8 IS THE CUT AND WRAP OPERATION WHICH OCCURS AT THE TIME OF A MISSION RECOVERY.

NOTE- OPERATION 211-5-1 DID NOT COVER THE PROGRAMMED LATITUDES DUE TO THE NECESSITY OF BIASING THE TIMER PRIOR TO THE B MISSION RECOVERY.

NOTE - TLM DATA INDICATE NORMAL SYSTEM PERFORMANCE.

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C. PERFORMANCE ESTIMATE PART TWO

RATE ESTIMATE

FWD PAN CAMERA NUMBER 190

OPN NO	FR	R	A	TUR/	INST	INST	SCAN RATE	PCT RATE
				DUR	CPS	ANG VEL	R/SEC I/SEC	CALIB REQD
114	3	0	13	5	6 ON	2.2757	2.22326	1.732 41.57 -7.2 -7.4
					OFF	48	2.2757 2.22326	1.732 41.57 -7.2 -8.1
115	0	0	3	5	6 ON	2.2757	2.22326	1.732 41.57 -7.2 -51.5
					OFF	23	2.2757 2.22326	1.732 41.57 -7.2 -52.3
119	7	1	39	5	6 ON	1522	2.4678 2.23434	2.557 61.37 -7.2 -5.6
					OFF	91	2.4147 2.23499	2.605 62.53 -7.2 -5.3
119	7	2	56	5	6 ON	1867	2.4259 2.23594	2.676 64.22 -7.2 -5.1
					OFF	127	2.4249 2.23585	2.670 64.07 -7.2 -5.4
120	7	1	29	5	6 ON	1572	2.4114 2.23471	2.585 62.84 -7.2 -5.3
					OFF	69	2.4165 2.23515	2.617 62.81 -7.2 -5.2
120	7	2	36	5	6 ON	1735	2.4223 2.23563	2.653 63.68 -7.2 -5.0
					OFF	83	2.4251 2.23587	2.671 64.10 -7.2 -5.0
121	8	0	13	5	6 ON	139	2.2785 2.2352	1.759 41.99 -7.2 -17.0
					OFF	45	2.2798 2.2361	1.758 42.20 -7.2 -17.3
121	8	1	72	5	6 ON	1564	2.4129 2.23467	2.582 61.96 -7.2 -5.4
					OFF	166	2.4219 2.23560	2.651 63.63 -7.2 -5.0
122	3	1	56	5	6 ON	1516	2.4264 2.23429	2.553 61.28 -7.2 -5.6
					OFF	132	2.4171 2.23522	2.621 62.92 -7.2 -5.1
123	5	1	15	5	6 ON	1120	2.3559 2.23203	2.236 53.67 -7.2 -12.6
					OFF	42	2.3613 2.23248	2.272 54.48 -7.2 -12.0
123	5	2	48	5	6 ON	1347	2.3873 2.23268	2.433 58.40 -7.2 -7.1
					OFF	121	2.4011 2.23385	2.522 60.49 -7.2 -6.0
126	7	1	53	5	6 ON	2344	2.4601 2.23376	2.514 60.33 -7.2 -6.6
					OFF	128	2.3851 2.23249	2.419 58.27 -7.2 -7.2
129	3	0	19	5	6 ON	1727	2.4219 2.23560	2.651 63.63 -7.2 -5.0
					OFF	46	2.4237 2.23575	2.662 63.89 -7.2 -5.0
133	6	1	45	5	6 ON	1282	2.3787 2.23196	2.380 57.11 -7.2 -8.2
					OFF	113	2.3928 2.23314	2.468 59.23 -7.2 -6.9
135	9	1	55	5	6 ON	1906	2.4429 2.23737	2.783 66.79 -3.5 -1.2
					OFF	126	2.4405 2.23717	2.768 66.42 -3.5 -1.5
135	9	2	31	5	6 ON	2276	2.4232 2.23572	2.659 63.81 -3.5 -2.5
					OFF	75	2.4154 2.23565	2.612 62.65 -3.5 -2.7
136	9	1	71	5	6 ON	1541	2.4252 2.23586	2.670 64.28 -3.5 -1.6
					OFF	167	2.4375 2.23691	2.749 65.97 -3.5 -1.1
137	3	1	19	5	6 ON	1120	2.3678 2.23297	2.386 55.34 -3.5 -7.4
					OFF	52	2.3744 2.23159	2.352 56.46 -3.5 -6.5
137	3	2	69	5	6 ON	1595	2.4298 2.23627	2.721 64.81 -3.5 -1.4
					OFF	162	2.4392 2.23711	2.763 66.31 -3.5 -1.1
138	6	1	23	5	6 ON	1743	2.4394 2.23727	2.761 66.25 -3.5 -1.1
					OFF	53	2.4412 2.23723	2.772 66.54 -3.5 -1.1
139	6	2	54	5	6 ON	2224	2.4281 2.23612	2.692 64.55 -3.5 -2.4
					OFF	128	2.4154 2.23505	2.612 62.63 -3.5 -2.8

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	11	5	6	ON	1166	2.3769	2.23130	2.368	56.83	-3.5	-6.2
			OFF		29	2.3827	2.23212	2.392	57.41	-3.5	-5.8
139	5	2	61	5	6	ON	1555	2.4262	2.23597	2.678	64.28
			OFF		144	2.4372	2.23687	2.746	65.89	-3.5	-1.2
145	5	1	35	5	6	ON	1771	2.4425	2.23717	2.768	66.43
			OFF		53	2.4426	2.23734	2.781	66.74	-3.5	-1.1
150	7	1	44	5	6	ON	2582	2.3845	2.23244	2.416	57.98
			OFF		115	2.3673	2.23193	2.311	55.46	-3.5	-5.3
151	5	1	49	5	6	ON	1739	2.4392	2.23726	2.768	66.23
			OFF		115	2.4425	2.23734	2.781	66.73	-3.5	-0.9
151	5	2	55	5	6	ON	1949	2.4426	2.23734	2.781	66.74
			OFF		126	2.4387	2.23721	2.756	66.15	-3.5	-1.6
152	5	1	68	5	6	ON	1435	2.4136	2.23496	2.599	62.37
			OFF		164	2.4299	2.23627	2.721	64.83	-3.5	-1.2
153	4	1	28	5	6	ON	1142	2.3712	2.23136	2.331	55.94
			OFF		54	2.3784	2.23193	2.378	57.87	-4.1	-7.6
153	4	2	41	5	6	ON	1516	2.4193	2.23538	2.634	63.22
			OFF		97	2.4279	2.23610	2.688	64.52	-4.1	-2.4
153	4	3	14	5	6	ON	1642	2.4327	2.23634	2.786	64.94
			OFF		34	2.4328	2.23652	2.719	65.26	-4.1	-1.7
154	3	1	83	5	6	ON	1446	2.4116	2.23473	2.586	62.27
			OFF		194	2.4299	2.23628	2.781	64.83	-4.1	-1.6
155	6	1	14	5	6	ON	1381	2.4245	2.23413	2.541	60.99
			OFF		35	2.4284	2.23446	2.566	61.59	-4.1	-3.8
155	6	2	79	5	6	ON	1525	2.4188	2.23534	2.631	63.15
			OFF		183	2.4336	2.23659	2.725	65.39	-4.1	-2.5
158	7	1	45	5	6	ON	3268	2.3244	2.22738	2.239	48.93
			OFF		138	2.3122	2.22633	1.961	47.85	-4.1	-5.1
162	3	2	17	5	6	ON	1754	2.4371	2.23688	2.747	65.92
			OFF		42	2.4385	2.23722	2.755	66.12	-4.1	-4.4
162	3	1	26	5	6	ON	2242	2.4373	2.23692	2.748	65.94
			OFF		62	2.4345	2.23666	2.732	65.52	-4.1	-1.7
161	3	1	24	5	6	ON	1241	2.3856	2.23253	2.423	58.14
			OFF		63	2.3939	2.23324	2.475	59.42	-4.1	-2.3
161	3	2	42	5	6	ON	1821	2.4368	2.23722	2.757	66.17
			OFF		93	2.4422	2.23714	2.766	66.38	-4.1	-2.6
166	3	1	13	5	6	ON	1363	2.4221	2.23393	2.527	62.64
			OFF		34	2.4262	2.23426	2.551	61.22	-4.1	-1.7
166	3	2	3	5	6	ON	1459	2.4138	2.23491	2.622	62.42
			OFF		25	2.4162	2.23512	2.615	62.76	-4.1	-3.2
167	3	1	69	5	6	ON	1623	2.4334	2.23657	2.723	65.35
			OFF		159	2.4422	2.23731	2.778	66.68	-3.2	-1.8
167	3	2	29	5	6	ON	1983	2.4432	2.23742	2.785	66.84
			OFF		67	2.4411	2.23722	2.772	66.52	-3.2	-0.7
168	3	1	54	5	6	ON	1741	2.4426	2.23718	2.768	66.44
			OFF		123	2.4442	2.23747	2.799	66.96	-3.2	-1.4
169	7	1	41	5	6	ON	1545	2.4266	2.23522	2.681	64.34
			OFF		96	2.4345	2.23666	2.732	65.52	-3.2	-1.5
169	7	2	24	5	6	ON	1932	2.4441	2.23747	2.791	66.97
			OFF		55	2.4433	2.23742	2.785	66.84	-3.2	-1.1
173	3	1	54	5	6	ON	1548	2.4269	2.23622	2.682	64.37

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					OFF	126	.4367	3.83685	2.744	65.86	-3.2	-8.9
171	6	1	27	5	6 ON	1533	.4255	3.83592	2.673	64.16	-3.2	-1.7
					OFF	251	.4482	3.83714	2.766	66.38	-3.2	-2.8
172	6	1	15	5	6 ON	1474	.4492	3.83538	2.634	63.22	-3.2	-2.2
					OFF	36	.4227	3.83567	2.656	63.75	-3.2	-2.2
172	6	2	36	5	6 ON	1558	.4278	3.83612	2.688	64.52	-3.2	-1.5
					OFF	85	.4346	3.83667	2.731	65.54	-3.2	-1.1
174	6	1	28	5	6 ON	2392	.4117	3.83474	2.587	62.28	-3.2	-3.6
					OFF	69	.4432	3.83482	2.534	62.81	-3.2	-4.8
178	3	8	12	5	6 ON	1821	.4434	3.83741	2.786	66.86	-3.2	-9.9
					OFF	29	.4439	3.83745	2.789	66.93	-3.2	-8.9
183	7	1	46	5	6 ON	1399	.4175	3.83464	2.579	61.91	-3.2	-3.5
					OFF	112	.4238	3.83569	2.658	63.78	-3.2	-2.3
183	7	2	9	5	6 ON	2359	.4155	3.83526	2.612	62.65	-3.2	-3.5
					OFF	23	.4131	3.83486	2.596	62.38	-3.2	-3.6
184	7	1	51	5	6 ON	1783	.4423	3.83732	2.779	66.69	-3.2	-8.9
					OFF	116	.4443	3.83749	2.791	66.99	-3.2	-1.8
185	3	1	58	5	6 ON	1571	.4291	3.83622	2.696	64.72	-3.2	-1.7
					OFF	116	.4376	3.83693	2.758	65.99	-3.2	-1.1
186	8	1	88	5	6 ON	1674	.4296	3.83625	2.699	64.78	-4.8	-2.9
					OFF	183	.4365	3.83683	2.743	65.22	-4.8	-2.7
187	3	1	36	5	6 ON	1187	.3636	3.83863	2.281	54.74	-4.8	-11.3
					OFF	96	.3767	3.83178	2.367	56.88	-4.8	-9.1
187	3	2	82	5	6 ON	1576	.4223	3.83563	2.653	63.67	-4.8	-3.4
					OFF	184	.4339	3.83661	2.726	65.43	-4.8	-2.7
188	3	1	36	5	6 ON	1516	.4166	3.83515	2.618	62.83	-4.8	-4.8
					OFF	86	.4242	3.83579	2.665	63.96	-4.8	-3.3
191	9	1	72	5	6 ON	2413	.4822	3.83392	2.526	62.62	-4.8	-6.8
					OFF	181	.3779	3.83189	2.374	56.99	-4.8	-7.5
192	4	8	19	5	6 ON	1321	.4359	3.83678	2.739	65.73	-4.8	-2.7
					OFF	46	.4366	3.83684	2.743	65.84	-4.8	-2.8
196	6	1	9	5	6 ON	2955	.3334	3.82813	2.895	58.27	-4.8	-8.4
					OFF	27	.3329	3.82792	2.879	49.98	-4.8	-8.2
197	3	1	9	5	6 ON	2137	.4288	3.83619	2.695	64.67	-4.8	-4.6
					OFF	24	.4274	3.83627	2.686	64.45	-4.8	-4.1
197	8	2	9	5	6 ON	2348	.4298	3.83457	2.575	61.79	-4.8	-5.6
					OFF	23	.4274	3.83438	2.562	61.44	-4.8	-5.7
198	4	1	43	5	6 ON	1536	.4186	3.83532	2.638	63.13	-4.8	-4.8
					OFF	122	.4272	3.83623	2.683	64.39	-4.8	-3.3
199	4	1	67	5	6 ON	1452	.4298	3.83458	2.575	61.88	-4.8	-5.8
					OFF	158	.4248	3.83585	2.669	64.27	-4.8	-3.5
200	4	1	54	5	6 ON	1817	.4358	3.83677	2.738	65.72	-4.8	-2.9
					OFF	128	.4365	3.83683	2.743	65.83	-4.8	-3.1
201	4	1	17	5	6 ON	1346	.3969	3.83349	2.494	59.85	-4.8	-6.8
					OFF	43	.4222	3.83392	2.526	62.62	-4.8	-6.1
201	4	2	36	5	6 ON	1667	.4291	3.83621	2.696	64.71	-4.8	-3.2
					OFF	25	.4335	3.83658	2.724	65.37	-4.8	-3.8
202	6	1	76	5	6 ON	1629	.4252	3.83586	2.678	64.29	-4.8	-3.6
					OFF	176	.4348	3.83669	2.732	65.56	-4.8	-2.9
203	6	1	48	5	6 ON	1721	.4312	3.83638	2.729	65.22	-4.8	-3.1
					OFF	114	.4357	3.83676	2.737	65.78	-4.8	-3.8

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	14	5	6	ON	1543	2.4193	2.23536	2.634	63.22	-4.8	-4.2		
				OFF	34	2.4226	2.23561	2.652	63.64	-4.8	-4.8		
284	7	2	28	5	6	ON	2718	2.4348	2.23669	2.732	65.57	-4.8	-3.5
					OFF	46	2.4331	2.23655	2.721	65.31	-4.8	-3.7	
284	7	3	28	5	6	ON	2166	2.4268	2.23621	2.682	64.36	-4.8	-4.4
					OFF	67	2.4216	2.23558	2.649	63.58	-4.8	-4.8	
286	8	1	23	5	6	ON	1459	2.4185	2.23464	2.583	61.91	-4.8	-5.3
					OFF	57	2.4163	2.23513	2.616	62.78	-4.8	-4.6	
286	8	2	53	5	6	ON	2675	2.3654	2.23283	2.296	55.18	-4.8	-9.1
					OFF	161	2.3464	2.22923	2.177	52.24	-4.8	-9.2	
211	5	1	25	5	6	ON	1264	2.3858	2.23256	2.424	58.18	-4.8	-9.5
					OFF	63	2.3948	2.23325	2.476	59.42	-4.8	-8.3	

RATE ESTIMATE

AFT PAN CAMERA NUMBER 191

OPN NO	FR	R	A	TUR/	INST	INST	SCAN	RATE	PCT	RATE			
				DUR	CPS	ANG VEL	R/SEC	I/SEC	CALIB	REQD			
114	3	8	13	5	6	ON	12	2.2776	2.2342	1.744	41.86	-6.8	-6.8
					OFF	48	2.2776	2.2342	1.744	41.86	-6.8	-7.5	
115	8	8	4	5	6	ON	12	2.2776	2.2342	1.744	41.86	-6.8	-58.9
					OFF	23	2.2776	2.2342	1.744	41.86	-6.8	-51.6	
119	7	1	39	5	6	ON	1534	2.4186	2.23465	2.588	61.92	-6.8	-4.9
					OFF	91	2.4183	2.23538	2.629	63.29	-6.8	-4.6	
119	7	2	56	5	6	ON	1879	2.4297	2.23626	2.708	64.88	-6.8	-4.2
					OFF	127	2.4287	2.23617	2.694	64.65	-6.8	-4.4	
128	7	1	29	5	6	ON	1582	2.4158	2.23582	2.608	62.59	-6.8	-4.6
					OFF	69	2.4223	2.23546	2.641	63.37	-6.8	-4.4	
128	7	2	36	5	6	ON	1747	2.4261	2.23595	2.677	64.25	-6.8	-4.2
					OFF	83	2.4289	2.23619	2.695	64.67	-6.8	-4.2	
121	8	8	12	5	6	ON	221	2.2824	2.2366	1.762	42.29	-6.8	-16.5
					OFF	45	2.2818	2.2378	1.771	42.58	-6.8	-16.7	
121	8	1	72	5	6	ON	1576	2.4145	2.23498	2.605	62.51	-6.8	-4.7
					OFF	166	2.4257	2.23592	2.675	64.28	-6.8	-4.2	
122	3	1	56	5	6	ON	1528	2.4128	2.23459	2.576	61.82	-6.8	-4.9
					OFF	132	2.4228	2.23551	2.644	63.46	-6.8	-4.4	
123	5	1	15	5	6	ON	1132	2.3589	2.23228	2.255	54.11	-6.8	-18.8
					OFF	40	2.3643	2.23874	2.289	54.93	-6.8	-9.4	
123	5	2	49	5	6	ON	1359	2.3926	2.23296	2.454	58.98	-6.8	-6.5
					OFF	121	2.4247	2.23415	2.543	61.32	-6.8	-5.4	
126	7	1	53	5	6	ON	2356	2.4236	2.23485	2.536	68.86	-6.8	-5.3
					OFF	128	2.3884	2.23277	2.448	58.57	-6.8	-5.7	
129	3	8	19	5	6	ON	1739	2.4257	2.23592	2.675	64.28	-6.8	-4.2
					OFF	46	2.4275	2.23667	2.686	64.47	-6.8	-4.2	
133	6	1	45	5	6	ON	1294	2.3828	2.23223	2.402	57.68	-6.8	-7.6
					OFF	113	2.3962	2.23343	2.489	59.74	-6.8	-6.2	
135	9	1	55	5	6	ON	1918	2.4399	2.23712	2.764	66.34	-3.8	-1.9
					OFF	126	2.4375	2.23692	2.749	65.98	-3.8	-2.2	
135	9	2	31	5	6	ON	2288	2.4282	2.23546	2.648	63.37	-3.8	-3.8
					OFF	75	2.4125	2.23481	2.592	62.21	-3.8	-3.2	
136	9	1	72	5	6	ON	1553	2.4221	2.23561	2.652	63.65	-3.8	-2.5

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						OFF	107	2.4345	2.23666	2.737	65.52	-3.8	-2.8
137	3	1	19	5	6 ON	1112	2.3645	2.2374	2.229	54.93	-3.8	-8.5	
						OFF	52	2.3718	2.23136	2.335	56.24	-3.8	-7.6
137	3	2	69	5	6 ON	1317	2.4259	2.23512	2.652	64.37	-3.3	-2.3	
						OFF	163	2.4362	2.23656	2.744	65.87	-3.8	-1.9
138	6	1	23	5	6 ON	1755	2.4364	2.23682	2.742	65.81	-3.8	-1.9	
						OFF	53	2.4383	2.23698	2.754	66.29	-3.8	-1.9
138	6	2	53	5	6 ON	2236	2.4252	2.23587	2.671	64.11	-3.8	-2.8	
						OFF	128	2.4125	2.23482	2.592	62.28	-3.8	-3.3
139	5	1	11	5	6 ON	1178	2.3741	2.23157	2.351	56.42	-3.8	-7.3	
						OFF	29	2.3779	2.23189	2.375	56.99	-3.8	-6.9
139	5	2	61	5	6 ON	1567	2.4233	2.23572	2.668	63.84	-3.8	-2.5	
						OFF	144	2.4345	2.23662	2.727	65.45	-3.8	-2.8
145	5	1	36	5	6 ON	1783	2.4376	2.23692	2.749	65.98	-3.8	-1.8	
						OFF	33	2.4396	2.23729	2.762	66.29	-3.8	-1.8
150	7	1	42	5	6 ON	2594	2.3817	2.23221	2.398	57.56	-3.8	-4.9	
						OFF	115	2.3652	2.23282	2.294	55.24	-3.8	-5.6
151	5	1	49	5	6 ON	1751	2.4362	2.23681	2.741	65.78	-3.8	-1.6	
						OFF	113	2.4396	2.23729	2.762	66.29	-3.8	-1.6
151	5	2	55	5	6 ON	1962	2.4396	2.23729	2.762	66.29	-3.8	-1.8	
						OFF	126	2.4357	2.23676	2.738	65.72	-3.8	-2.2
152	5	1	69	5	6 ON	1447	2.4128	2.23466	2.581	61.94	-3.8	-3.3	
						OFF	164	2.4272	2.23623	2.693	64.39	-3.8	-2.1
153	4	1	22	5	6 ON	1154	2.3672	2.23123	2.311	55.46	-4.5	-8.8	
						OFF	54	2.3752	2.23166	2.358	56.58	-4.5	-7.8
153	4	2	48	5	6 ON	1522	2.4159	2.23529	2.613	62.71	-4.5	-3.4	
						OFF	97	2.4245	2.23581	2.667	64.21	-4.5	-2.8
153	4	3	14	5	6 ON	1652	2.4272	2.23625	2.684	64.43	-4.5	-2.6	
						OFF	34	2.4294	2.23623	2.698	64.74	-4.5	-2.6
154	3	1	22	5	6 ON	1452	2.4222	2.23445	2.565	61.56	-4.5	-4.1	
						OFF	194	2.4265	2.23599	2.682	64.32	-4.5	-2.8
155	6	1	14	5	6 ON	1393	2.4212	2.23385	2.521	62.49	-4.5	-4.9	
						OFF	35	2.4251	2.23418	2.545	61.29	-4.5	-4.5
155	6	2	78	5	6 ON	1517	2.4154	2.23525	2.612	62.64	-4.5	-3.5	
						OFF	183	2.4322	2.23632	2.723	64.87	-4.5	-2.6
158	7	1	44	5	6 ON	3722	2.3215	2.22712	2.222	48.48	-4.5	-5.7	
						OFF	138	2.3291	2.22622	1.942	46.61	-4.5	-5.2
160	3	2	17	5	6 ON	1766	2.4337	2.23659	2.725	65.42	-4.5	-2.6	
						OFF	42	2.4352	2.23671	2.733	65.62	-4.5	-2.6
160	3	1	25	5	6 ON	2254	2.4338	2.23661	2.726	65.42	-4.5	-3.1	
						OFF	62	2.4311	2.23637	2.729	65.21	-4.5	-3.3
161	3	1	24	5	6 ON	1253	2.3823	2.23226	2.422	57.65	-4.5	-7.3	
						OFF	63	2.3927	2.23296	2.455	58.91	-4.5	-6.3
161	3	2	42	5	6 ON	1813	2.4353	2.23673	2.735	65.65	-4.5	-2.6	
						OFF	93	2.4367	2.23685	2.744	65.86	-4.5	-2.7
166	3	1	13	5	6 ON	1375	2.3988	2.23365	2.526	62.14	-4.5	-5.5	
						OFF	34	2.4227	2.23398	2.532	62.72	-4.5	-5.1
166	3	2	9	5	6 ON	1471	2.4124	2.23463	2.579	61.89	-4.5	-4.3	
						OFF	25	2.4128	2.23483	2.594	62.25	-4.5	-4.1
157	3	1	69	5	6 ON	1635	2.4314	2.23642	2.711	65.26	-3.3	-1.7	
						OFF	159	2.4422	2.23714	2.766	66.38	-3.3	-1.3

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						6 ON	1995	2.4413	2.83723	2.773	66.54	-3.3	-1.6
						OFF	67	2.4391	2.83715	2.759	66.22	-3.3	-1.8
168	3	1	54	5	6 ON	1753	2.4386	2.83721	2.756	66.15	-3.3	-1.3	
						OFF	123	2.4421	2.83732	2.778	66.66	-3.3	-1.3
169	7	1	41	5	6 ON	1557	2.4247	2.83563	2.669	64.24	-3.3	-2.2	
						OFF	96	2.4325	2.83649	2.718	65.22	-3.3	-1.7
169	7	2	24	5	6 ON	1942	2.4422	2.83731	2.778	66.67	-3.3	-1.4	
						OFF	55	2.4413	2.83724	2.773	66.55	-3.3	-1.6
178	3	1	54	5	6 ON	1566	2.4249	2.83555	2.678	64.28	-3.3	-2.2	
						OFF	126	2.4345	2.83669	2.732	65.56	-3.3	-1.5
171	6	1	86	5	6 ON	1545	2.4235	2.83574	2.661	63.87	-3.3	-2.3	
						OFF	221	2.4382	2.83697	2.753	66.88	-3.3	-1.4
172	6	1	14	5	6 ON	1486	2.4173	2.83521	2.622	62.93	-3.3	-2.9	
						OFF	36	2.4249	2.83556	2.644	63.45	-3.3	-2.6
172	6	2	36	5	6 ON	1576	2.4259	2.83594	2.676	64.22	-3.3	-2.2	
						OFF	85	2.4327	2.83651	2.719	65.24	-3.3	-1.7
174	8	1	27	5	6 ON	2422	2.4497	2.83457	2.575	61.79	-3.3	-3.8	
						OFF	69	2.4213	2.83386	2.521	62.52	-3.3	-4.2
178	3	2	12	5	6 ON	1333	2.4414	2.83724	2.773	66.56	-3.3	-1.4	
						OFF	29	2.4419	2.83729	2.776	66.63	-3.3	-1.4
183	7	1	46	5	6 ON	1411	2.4486	2.83448	2.567	61.61	-3.3	-4.2	
						OFF	112	2.4212	2.83553	2.645	63.49	-3.3	-2.9
183	7	2	9	5	6 ON	2371	2.4135	2.83489	2.598	62.36	-3.3	-3.8	
						OFF	23	2.4112	2.83472	2.584	62.91	-3.3	-3.8
184	7	1	51	5	6 ON	1795	2.4493	2.83715	2.767	66.48	-3.3	-1.4	
						OFF	116	2.4423	2.83732	2.779	66.79	-3.3	-1.5
185	3	1	52	5	6 ON	1523	2.4271	2.83624	2.684	64.41	-3.3	-2.3	
						OFF	116	2.4356	2.83676	2.737	65.69	-3.3	-1.7
186	8	1	66	5	6 ON	1686	2.4267	2.83628	2.681	64.34	-5.1	-3.7	
						OFF	183	2.4335	2.83658	2.724	65.38	-5.1	-3.4
187	3	1	35	5	6 ON	1119	2.3693	2.83949	2.264	54.33	-5.1	-12.4	
						OFF	96	2.3739	2.83155	2.349	56.38	-5.1	-18.2
187	3	2	79	5	6 ON	1588	2.4193	2.83538	2.635	63.24	-5.1	-4.3	
						OFF	184	2.4329	2.83636	2.728	64.98	-5.1	-3.5
188	3	1	36	5	6 ON	1528	2.4137	2.83491	2.668	62.39	-5.1	-4.9	
						OFF	86	2.4212	2.83554	2.647	63.52	-5.1	-4.2
191	9	1	72	5	6 ON	2425	2.3992	2.83368	2.598	60.19	-5.1	-6.4	
						OFF	181	2.3751	2.83165	2.357	56.57	-5.1	-7.9
192	4	0	19	5	6 ON	1833	2.4332	2.83653	2.728	65.29	-5.1	-3.5	
						OFF	46	2.4337	2.83659	2.725	65.39	-5.1	-3.5
196	6	1	8	5	6 ON	2967	2.3387	2.82791	2.878	49.87	-5.1	-8.8	
						OFF	27	2.3283	2.82772	2.263	49.58	-5.1	-8.6
197	8	1	9	5	6 ON	2149	2.4259	2.83594	2.676	64.23	-5.1	-4.6	
						OFF	24	2.4245	2.83582	2.667	64.01	-5.1	-4.7
197	8	2	9	5	6 ON	2368	2.4069	2.83433	2.556	61.35	-5.1	-6.1	
						OFF	23	2.4045	2.83413	2.542	61.88	-5.1	-6.2
198	4	1	43	5	6 ON	1548	2.4157	2.83598	2.612	62.69	-5.1	-4.9	
						OFF	122	2.4241	2.83578	2.664	63.95	-5.1	-4.2
199	4	1	67	5	6 ON	1464	2.4079	2.83434	2.557	61.37	-5.1	-6.8	
						OFF	158	2.4219	2.83568	2.651	63.62	-5.1	-4.4
200	4	1	56	5	6 ON	1829	2.4329	2.83652	2.728	65.27	-5.1	-3.6	

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					OFF	128	3.4336	3.03658	2.724	65.38	-5.1	-3.8
221	4	1	17	5	6 ON	1353	3.3941	3.03325	2.476	59.42	-5.1	-7.8
					OFF	43	3.3992	3.03363	2.528	68.19	-5.1	-7.1
221	4	2	36	5	6 ON	1679	3.4262	3.03596	2.679	64.27	-5.1	-4.0
					OFF	35	3.4346	3.03633	2.725	64.93	-5.1	-3.8
202	6	1	76	5	6 ON	1621	3.4221	3.03561	2.652	63.64	-5.1	-4.4
					OFF	176	3.4318	3.03644	2.713	65.12	-5.1	-3.7
203	6	1	52	5	6 ON	1713	3.4282	3.03613	2.691	64.58	-5.1	-4.0
					OFF	114	3.4327	3.03651	2.719	65.25	-5.1	-3.7
204	7	1	14	5	6 ON	1555	3.4163	3.03513	2.616	62.78	-5.1	-5.1
					OFF	34	3.4191	3.03536	2.633	63.28	-5.1	-4.9
204	7	2	19	5	6 ON	2032	3.4312	3.03644	2.713	65.12	-5.1	-4.1
					OFF	46	3.4322	3.03633	2.723	64.87	-5.1	-4.3
204	7	3	28	5	6 ON	2178	3.4239	3.03577	2.663	63.92	-5.1	-5.0
					OFF	67	3.4187	3.03533	2.631	63.14	-5.1	-5.4
206	8	1	23	5	6 ON	1471	3.4277	3.03448	2.561	61.47	-5.1	-6.2
					OFF	57	3.4134	3.03488	2.597	62.34	-5.1	-5.5
206	8	2	58	5	6 ON	2687	3.3627	3.03060	2.279	54.69	-5.1	-9.5
					OFF	161	3.3437	3.02927	2.168	51.83	-5.1	-9.6
211	5	1	24	5	6 ON	1276	3.3836	3.03232	2.427	57.76	-5.1	-10.5
					OFF	63	3.3912	3.03301	2.458	58.99	-5.1	-9.3

RAMP PROFILE

R= 5 A= 6 PERIOD= 3820
R= 3.3782 A= 3.0813

TUR	PER	CPS	ANG V
100	3.367	3.2978	3.22626
120	3.357	3.2978	3.22694
200	3.329	3.3004	3.22717
300	3.284	3.3045	3.22754
400	3.224	3.3122	3.22836
500	3.152	3.3173	3.22870
600	3.071	3.3256	3.22945
700	2.984	3.3351	3.23031
800	2.895	3.3455	3.23125
900	2.805	3.3565	3.23224
1000	2.718	3.3682	3.23328
1100	2.636	3.3802	3.23439
1200	2.527	3.3957	3.23579
1300	2.436	3.4125	3.23713
1400	2.358	3.4242	3.23836
1500	2.293	3.4361	3.23944
1600	2.243	3.4458	3.24032
1700	2.227	3.4538	3.24098
1800	2.186	3.4575	3.24138
1900	2.179	3.4592	3.24151
2000	2.186	3.4575	3.24138
2100	2.227	3.4538	3.24098
2200	2.243	3.4458	3.24032
2300	2.293	3.4361	3.23944

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2500	2.353	2.4242	2.23836
2500	2.436	2.4125	2.23713
2600	2.527	2.3957	2.23579
2700	2.632	2.3802	2.23459
2800	2.716	2.3658	2.23329
2900	2.825	2.3565	2.23224
3000	2.895	2.3458	2.23125
3100	2.964	2.3351	2.23031
3200	3.071	2.3256	2.22945
3300	3.152	2.3173	2.22872
3400	3.224	2.3102	2.22826
3500	3.284	2.3045	2.22754
3600	3.329	2.3004	2.22717
3700	3.357	2.2978	2.22694
3800	3.367	2.2970	2.22686

CLOCK SUMMARY

ORDER FIT 1

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV
2.245248450 25	2.1322436290 30	2.2452485490 25	-0.0099	7
2.743752210 25	2.1922937680 25	2.7437521780 25	0.0032	16
2.291158630 25	2.2232346370 26	2.2911587000 25	-0.0180	24
2.737762980 25	2.2676950580 26	2.7377629450 25	0.0035	32
2.285089280 25	2.3092276740 26	2.2850891370 25	-0.0057	42
2.731664240 25	2.3536851620 26	2.7316642320 25	0.0008	48
2.278849280 25	2.3942236660 26	2.2788491240 25	-0.2044	56
2.726884910 25	2.4396272380 26	2.7268848790 25	0.0031	64
2.273676980 25	2.4826864530 26	2.2736772610 25	-0.0081	72
2.771492720 25	2.5304622780 26	2.7714926500 25	0.0070	81
2.269161730 25	2.2976399520 25	2.2691616680 25	0.0062	88
2.318437930 25	2.3469161600 25	2.3184378820 25	0.0048	89
2.766826330 25	2.7952844920 25	2.7668262470 25	0.0083	97
2.261469430 25	2.1153947620 26	2.2614694250 25	0.0025	104
2.757236780 25	2.1649714930 26	2.7572367540 25	0.0026	113
2.325388960 25	2.2261867270 26	2.3253889260 25	0.0034	121
2.749812550 25	2.2526296620 26	2.7498125110 25	0.0039	129
2.297657530 25	2.2918135570 26	2.2976574930 25	0.0037	137
2.741927520 25	2.3362325520 26	2.7419274580 25	0.0042	145
2.288316420 25	2.3772794380 26	2.2883163700 25	0.0030	153
2.733812630 25	2.4218292650 26	2.7338126750 25	0.0005	161
2.334349240 25	2.4682827120 26	2.3343492410 25	-0.0001	169
2.778188460 25	2.5126656380 26	2.7781884760 25	-0.0016	178
2.272714260 25	2.1164828100 25	2.2727142540 25	0.0006	185
2.769175260 25	2.6129438420 25	2.7691751220 25	-0.0062	194
2.263724790 25	2.9714735320 25	2.2637248400 25	-0.0058	201
2.762222280 25	2.1469799630 26	2.7622222970 25	-0.0099	210

AB=-0.12771278440 26 A1=2.1202222278110 21
 SIGMA=0.20526 NO. POINTS= 27
 RATIO OF CLOCK TIME TO SYS TIME= 0.9999999218900 00

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ORDER FIT 2

SYS TIME I/P CL TIME I/P COMP SYS TM DELTA ST REV S

0.245248450	05	0.1322436290	06	0.2452484700	05	-0.0020	7
0.743753210	05	0.1822937880	06	0.7437531220	05	0.0098	16
0.291158600	05	0.2232346370	06	0.2911586580	05	-0.0058	24
0.737762980	05	0.2678950580	06	0.7377629180	05	0.0062	32
0.285089000	05	0.3890275740	06	0.2850891230	05	-0.0043	40
0.731664640	05	0.3536851600	06	0.7316640310	05	0.0009	48
0.278849000	05	0.3948236660	06	0.2788491330	05	-0.0053	56
0.726884910	05	0.4396672380	06	0.7268848970	05	0.0013	64
0.273676980	05	0.4806864530	06	0.2736770860	05	-0.0106	72
0.771492720	05	0.5304680000	06	0.7714926820	05	0.0030	81
0.269161730	05	0.2976399500	05	0.2691617040	05	0.0026	88
0.318437930	05	0.3469161600	05	0.3184379190	05	0.0011	89
0.766806330	05	0.7952844900	05	0.7668062870	05	0.0043	97
0.261469430	05	0.1153947620	06	0.2614694460	05	-0.0016	104
0.757236780	05	0.1649714930	06	0.7572367950	05	-0.0015	113
0.305388960	05	0.2061867070	06	0.3053889660	05	-0.0006	121
0.749812550	05	0.2506290620	06	0.7498125470	05	0.0003	129
0.297657530	05	0.2918135570	06	0.2976575250	05	0.0005	137
0.741907500	05	0.3362385500	06	0.7419074840	05	0.0016	145
0.288316400	05	0.3772794380	06	0.2883163890	05	0.0011	153
0.733812680	05	0.4218290650	06	0.7338126840	05	-0.0004	161
0.334349240	05	0.4682827180	06	0.3343492390	05	0.0001	169
0.778188460	05	0.5126666380	06	0.7781884620	05	-0.0002	178
0.272714060	05	0.1164828100	05	0.2727140280	05	0.0032	185
0.769175060	05	0.6129438400	05	0.7691750800	05	-0.0020	194
0.263704790	05	0.9714735300	05	0.2637047040	05	0.0006	201
0.762020800	05	0.1469789630	06	0.7620209030	05	-0.0023	210

A0=-0.1077187980 06 A1=0.1000000132540 01

A2=-0.40070097605640-13

SIGMA=0.00373 NO. POINTS= 27

CLOCK OPERATIONS

FWD PAN CAMERA NUMBER 190

OPN NO	FR		H	M	S	DEC	BINARY	
114	3	0	13	ON	21	57	35 168302	0101000001000000101011010000
				OFF	21	58	23 168350	01010000010001101000100110000
115	0	0	3	ON	23	56	27 175434	01010011101001110100100010000
				OFF	23	56	50 175457	010100111010101000001011101000
119	7	1	39	ON	5	55	32 196980	0101101111011010101001000000
				OFF	5	57	3 197071	0101101111110001000010011000
119	7	2	56	ON	6	1	17 197324	0101110000010111011001100000
				OFF	6	3	24 197451	0101110000100110110011111000
120	7	1	29	ON	7	25	30 202377	01100000100000000001100101000
				OFF	7	26	39 202446	01100000100010001010010110000
120	7	2	36	ON	7	28	15 202542	01100000100101000101110110000
				OFF	7	29	38 202625	01100000100111100111111010000
121	8	0	13	ON	8	31	39 206346	01100010011001001011100010000
				OFF	8	32	24 206391	01100010011010100011011011000

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72	ON	8	54	34	287722	21100011000011001011000010000	
	OFF	5	57	28	267888	21100011001000001111010000000	
122 3 1	56	ON	10	22	55	213022	01100101100100111010100110000
	OFF	10	25	7	213154	01100101101000111100011010000	
123 5 1	15	ON	11	45	29	217977	01100111111100001000010101000
	OFF	11	46	9	218017	01100111111101010100111010000	
123 5 2	48	ON	11	49	17	218264	2110100000000110000111011000000
	OFF	11	51	18	218325	01101000000110110000000001000	
126 7 1	53	ON	16	33	22	235250	01110000001011010000101010000
	OFF	16	35	30	235378	21110000001111001010101010000	
129 3 0	19	ON	20	50	35	250683	01110111100010001111001111000
	OFF	20	51	21	250729	01110111100011101001000101000	
133 6 1	45	ON	2	39	45	271633	10000001100001100101001101000
	OFF	2	41	38	271746	1000000110010100000011110100000	
135 9 1	55	ON	5	48	25	282953	10000110111011000010100101000
	OFF	5	50	31	283079	10000110111101110010101011000	
135 9 2	31	ON	5	54	36	283323	10000111000110010101001111000
	OFF	5	55	51	283398	1000011100100010011111011100000	
136 9 1	71	ON	7	11	29	287937	10001001010011001000111101000
	OFF	7	14	16	288104	10001001011000001111001000000	
137 3 1	19	ON	8	33	18	292846	10001011101000111100110110000
	OFF	8	34	10	292898	1000101110101010001001101010000	
137 3 2	69	ON	8	41	33	293340	10001011111000000001101100000
	OFF	8	44	13	293500	1000101111110011110100011000000	
138 6 1	23	ON	10	13	8	298836	10001110011111110000000100000
	OFF	10	14	1	298889	10001110100001010111100101000	
138 6 2	54	ON	10	21	9	299317	10001110101110011011100001000
	OFF	10	23	17	299445	10001110110010010101100001000	
139 5 1	11	ON	11	32	40	303608	10010000110001011000011000000
	OFF	11	33	9	303637	10010000110010010001000001000	
139 5 2	61	ON	11	39	9	303996	1001000011110100111100011000000
	OFF	11	41	33	304140	1001000010000011001110111000000	
145 5 1	36	ON	20	37	26	336294	10100000010110111000001110000
	OFF	20	38	49	336377	10100000011001011010010101000	
150 7 1	44	ON	4	16	32	363839	10101101011111011111000011000
	OFF	4	18	27	363954	10101101100010111111101010000	
151 5 1	49	ON	5	31	35	368343	10101111101000111011111011000
	OFF	5	33	28	368456	10101111101100011000101000000	
151 5 2	55	ON	5	35	4	368552	10101111101111010100001000000
	OFF	5	37	10	368678	10101111100110010100011100000	
152 5 1	68	ON	6	55	37	373385	10110010000010110011100101000
	OFF	6	58	21	373549	10110010000111110011111001000	
153 4 1	20	ON	8	19	50	378437	10110100011100111110110001000
	OFF	8	20	44	378491	10110100011101010000011110000	
153 4 2	41	ON	8	25	58	378806	10110100101000001111011110000
	OFF	8	27	35	378903	10110100101011001100111011000	
153 4 3	14	ON	8	28	8	378936	10110100101100001101011000000
	OFF	8	28	42	378970	10110100101101001111110010000	
154 3 1	83	ON	9	53	56	384083	10110111001001010010000111000
	OFF	9	57	10	384277	10110111001111001101000001000	
155 6 1	14	ON	11	22	4	389372	10111001101010101100001100000

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155	6	2	79	OFF	11	22	39	389487	13111201101111110300100011000
				ON	11	24	8	389496	10111201101111001111001100000
158	7	1	45	OFF	11	27	11	389679	1011120111010000001110011000
				ON	16	17	27	407294	11000010000111100001011110000
160	3	0	17	OFF	16	19	45	407232	11000010001011101111000000000
				ON	18	53	44	416471	11000110100101101011111011000
160	3	1	26	OFF	18	54	24	416511	11000110100110111010000011000
				ON	18	58	32	416760	11000110101110100000011000000
161	3	1	24	OFF	18	59	32	416820	11000110110000010101100100000
				ON	20	14	15	421303	11001000111001001001011011000
161	3	2	40	OFF	20	15	18	421366	11001000111011000100011110000
				ON	20	23	35	421863	11001001001010001111001011000
166	3	1	13	OFF	20	25	8	421956	11001001001101000100110100000
				ON	3	41	41	448149	11010101101100011011000001000
166	3	2	9	OFF	3	42	15	448183	11010101101101011101011011000
				ON	3	43	18	448245	11010101101111010110100001000
167	3	1	69	OFF	3	43	43	448270	11010101110000000011010110000
				ON	5	15	6	453754	11011000010111011110010010000
167	3	2	29	OFF	5	17	45	453913	11011000011100010100110101000
				ON	5	21	6	454113	11011000100010011011011101000
168	3	1	54	OFF	5	22	13	454180	11011000100100011110010100000
				ON	5	46	7	459215	11011010111110001000010011000
169	7	1	41	OFF	6	48	10	459338	11011011000001111000100010000
				ON	8	11	55	464362	11011101011011001101000010000
169	7	2	24	OFF	8	13	31	464458	11011101011110001000100010000
				ON	8	18	20	464748	11011101100110111110111100000
170	3	1	54	OFF	8	19	15	464803	11011101101000101010010111000
				ON	9	41	1	469708	11011111111110010110011100000
171	6	1	87	OFF	9	43	7	469834	11100000000010001100100010000
				ON	11	9	51	475038	11100010100001000000100110000
172	6	1	15	OFF	11	13	12	475239	111000101001110011001001011000
				ON	12	37	54	480321	11100101000010001110111101000
172	6	2	36	OFF	12	38	30	480357	11100101000011010101010001000
				ON	12	39	18	480406	111001010000100110100111110000
174	8	1	28	OFF	12	40	43	480491	11100101000111011010111111000
				ON	15	51	19	491927	11101010100100011010111011000
178	3	0	12	OFF	15	52	28	491996	11101010100110100001101100000
				ON	21	38	1	512729	11110100011111001111110101000
183	7	1	46	OFF	21	38	30	512758	11110100100000001000011110000
				ON	4	56	13	2149	0000000100000100101010001000
183	7	2	9	OFF	4	58	5	2261	00000001000101000000000001000
				ON	5	12	12	3109	0000000101110111000010001000
184	7	1	51	OFF	5	12	35	3132	0000000101111100101001100000
				ON	6	31	36	7873	00000011110000010000111101000
185	3	1	50	OFF	6	33	32	7989	0000001111001111001100001000
				ON	7	57	7	13004	00000110001100110110011100000
186	8	1	00	OFF	7	59	3	13120	00000110010000011001000000000
				ON	9	27	52	18448	00001000110010111110100000000
187	3	1	36	OFF	9	30	55	18631	00001000111000100100101011000
				ON	10	47	26	23222	00001011000100101010111100000
				OFF	10	49	2	23318	00001011000111100110111110000

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68	ON	12	55	14	23691	00001011010010111111011111000
	OFF	12	58	18	23875	00001011011000100110110111000
188 3 1	ON	12	23	16	28973	00001101110100001011111001000
	OFF	12	24	42	29259	00001101110110110011110111000
191 9 1	ON	17	5	16	45892	00010101111000100000110100000
	OFF	17	8	17	46873	00010101111100000100101010000
192 4 8	ON	18	24	25	50641	00011000001001011100001101000
	OFF	18	25	11	50667	00011000001010110110000011000
196 6 1	ON	3	39	17	73134	0010001010101111101111101100000
	OFF	3	39	44	73161	00100010111000101100100101000
197 8 1	ON	1	54	40	77657	0010010100000011110011101010000
	OFF	1	55	4	77681	00100101000010101000101101000
197 8 2	ON	1	58	11	77868	0010010100100000101011111000000
	OFF	1	58	34	77891	0010010100100010000101101110000
198 4 1	ON	3	13	40	82396	0010011101001010000011011000000
	OFF	3	15	22	82498	0010011101010101010001110100000
199 4 1	ON	4	41	16	87652	0010100011100101101101010100000
	OFF	4	43	54	87810	0010100011101111011111110100000
200 4 1	ON	6	16	20	93357	0010110010000010000011110010000
	OFF	6	18	28	93485	001011001001001100111011110010000
201 4 1	ON	7	37	30	98227	0010111011010101010011001110000
	OFF	7	38	13	98270	001011101101101110111011001100000
201 4 2	ON	7	42	51	98547	0010111011111101101010001110000
	OFF	7	44	16	98632	0010111100001000000010100000000
202 6 1	ON	9	19	52	103828	0011000011000001001010000100000
	OFF	9	13	48	104604	0011000011001011111001101000000
203 6 1	ON	12	41	24	109261	0011010000011001100001100100000
	OFF	12	43	18	109375	0011010000100111011100000110000
204 7 1	ON	12	7	46	114443	0011011010010010000010111111000
	OFF	12	8	20	114477	0011011010010110000111111001000
204 7 2	ON	12	15	41	114917	0011011011001011111110100001000
	OFF	12	16	27	114963	0011011011010001100100001111000
204 7 3	ON	12	18	9	115066	0011011011011110001001001000000
	OFF	12	19	16	115133	0011011011100110010101001001000
206 8 1	ON	15	4	18	125035	0011101110011111000011111110000
	OFF	15	5	15	125092	0011101110100110000000101000000
206 8 2	ON	15	24	35	126252	0011110000110011100111111000000
	OFF	15	27	16	126413	0011110001000111010001100100000
211 5 1	ON	22	26	24	151561	0100100001000101000110010100000
	OFF	22	27	27	151624	0100100001001100110010101000000

CLOCK OPERATIONS

AFT PAN CAMERA NUMBER 191

OPN NO	FR	H	M	S	DEC	BINARY	
114 3 0	13	ON	21	57	47	168315	0101000001000010001000011110000
		OFF	21	58	35	168363	0101000001001000000011111110000
115 0 0	4	ON	23	56	39	175447	0101001110101000110111011010000
		OFF	23	57	2	175470	0101001110101011101011011010000
119 7 1	39	ON	5	55	44	196992	0101110111101110111000000000000
		OFF	5	57	15	197003	0101110111111001111110111100000

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56	ON	6	1	29	197337	01011110000110001111110101000			
	OFF	6	3	36	197464	01011110001010000111111000000			
120	7	1	29	ON	7	25	42	202392	01100000100000011100111110000
	OFF	7	26	51	202459	0110000010001010001110111110000			
120	7	2	36	ON	7	28	27	202555	0110000010010101111110011110000
	OFF	7	29	50	202638	0110000010100000000010101100000			
121	8	0	12	ON	8	31	51	206359	0110001001100110010011101100000
	OFF	8	32	36	206404	0110001001101011110011010000000			
121	8	1	72	ON	8	54	46	207734	0110001100001110001001111000000
	OFF	8	57	32	207900	0110001100100010011010111000000			
122	3	1	56	ON	10	23	7	213035	0110010110010101001111111100000
	OFF	10	25	19	213167	0110010110100101010111001100000			
123	5	1	15	ON	11	45	41	217989	0110011111110001111111000010000
	OFF	11	46	21	218029	01100111111011011011110010000			
123	5	2	49	ON	11	49	29	218217	0110100000001101110100001010000
	OFF	11	51	30	218338	0110100000011100100010110100000			
126	7	1	53	ON	16	33	34	235262	0111000000101110100000001100000
	OFF	16	35	42	235390	0111000000111110001000011000000			
129	3	0	19	ON	20	50	47	250695	0111011110001010011010101100000
	OFF	20	51	33	250741	0111011110010000000010000100000			
133	6	1	45	ON	2	39	57	271645	1000000110000111110010100100000
	OFF	2	41	50	271758	1000000110010101100101011000000			
135	9	1	55	ON	5	48	37	282965	1000010111011011010000001000000
	OFF	5	50	43	283091	1000010111111010000000011100000			
135	9	2	31	ON	5	54	48	283336	10000110001101011101010000000
	OFF	5	56	3	283411	1000011001001000001000111000000			
136	9	1	72	ON	7	11	41	287949	1000100101001110000001100100000
	OFF	7	14	28	288116	1000100101100010011010011000000			
137	3	1	19	ON	8	33	30	292858	1000101110100101010001001000000
	OFF	8	34	22	292910	1000101110101011100111011000000			
137	3	2	69	ON	8	41	45	293353	1000101111100001101100010100000
	OFF	8	44	25	293513	1000101111101010011100101000000			
138	6	1	23	ON	10	13	20	298848	1000111010000000011110000000000
	OFF	10	14	13	298901	1000111010000110111100000100000			
138	6	2	53	ON	10	21	21	299329	1000111010111011001011110100000
	OFF	10	23	29	299457	1000111011001010110011110100000			
139	5	1	11	ON	11	32	52	303620	1001000011000110111111010000000
	OFF	11	33	21	303649	1001000011001010100001110100000			
139	5	2	61	ON	11	39	21	304009	1001000011110110011110010100000
	OFF	11	41	45	304153	1001000100001000000011010100000			
145	5	1	36	ON	20	37	38	336306	1010000001011100111110101000000
	OFF	20	39	1	336389	1010000001100111000111000010000			
150	7	1	42	ON	4	16	44	363852	1010110101111111100001110000000
	OFF	4	18	39	363967	1010110110001101100100000110000			
151	5	1	49	ON	5	31	47	368355	1010111101001010011010111000000
	OFF	5	33	40	368468	1010111101100111000000010000000			
151	5	2	55	ON	5	35	16	368564	1010111101111101011100100000000
	OFF	5	37	22	368690	1010111110011100001101010000000			
152	5	1	69	ON	6	55	49	373397	1011001000001100101100000100000
	OFF	6	58	33	373561	1011001000100000101101010100000			
153	4	1	20	ON	8	20	2	378450	1011010001110101100000101000000

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153 4 2	48	OFF	8 26 56	378524	131121200011111000001121200000
		ON	8 26 12	378818	101121200101000100110111012000
153 4 3	14	OFF	8 27 47	378915	1011212001010111100100010111000
		ON	8 28 28	378948	12110100101100100100110100000
154 3 1	82	OFF	8 28 54	378982	10110100101101100111001110000
		ON	9 54 8	384296	101101110010011010101110000000
155 6 1	14	OFF	9 57 22	384298	10110111001111100110011010000
		ON	11 22 16	389384	12111001101011000011101000000
155 6 2	79	OFF	11 22 51	389419	10111001101100000111111111000
		ON	11 24 28	389568	12111201101110110101110100000
158 7 1	44	OFF	11 27 23	389691	10111001110100011011001111000
		ON	16 17 39	407107	11000010000111111010110111000
160 3 8	17	OFF	16 19 57	407245	11000010001100001000011001000
		ON	18 53 56	416484	11000101001100001010101010000
160 3 1	25	OFF	18 54 36	416524	1100010100111010011011100000
		ON	18 58 44	416772	1100010101110110111110100000
161 3 1	24	OFF	18 59 44	416832	1100010110000101101000000000
		ON	20 14 27	421315	11001000111001100000110111000
161 3 2	40	OFF	20 15 38	421378	11001000111011011011111010000
		ON	20 23 47	421875	11001001001010100110100111000
166 3 1	13	OFF	20 25 28	421968	1100100100101011100010000000
		ON	3 41 53	448161	11010101101100110010011101000
166 3 2	9	OFF	3 42 27	448195	11010101101101110100110111000
		ON	3 43 30	448257	11010101101111101101111101000
167 3 1	69	OFF	3 43 55	448282	11010101110000011110110010000
		ON	5 15 18	453766	11011000010111110101101110000
167 3 2	29	OFF	5 17 57	453925	11011000011100101100010001000
		ON	5 21 18	454126	11011000100010110100110110000
168 3 1	54	OFF	5 22 25	454193	11011000100100110111101101000
		ON	6 46 19	459227	11011010111110011111101111000
169 7 1	41	OFF	6 48 22	459350	11011011000010001111111110000
		ON	8 12 7	464375	11011101011011100110011011000
169 7 2	24	OFF	8 13 43	464471	11011101011110100001111011000
		ON	8 18 32	464768	11011101100111010110011000000
170 3 1	54	OFF	8 19 27	464815	11011101101001000001110011000
		ON	9 41 13	469728	11011111111110101101111000000
171 6 1	86	OFF	9 43 19	469846	11100000000010100011111110000
		ON	11 10 3	475051	11100010100001011001111111000
172 6 1	14	OFF	11 13 24	475252	11100010100111100010100100000
		ON	12 38 6	480334	11100101000010101000010110000
172 6 2	36	OFF	12 38 42	480370	11100101000011101110101010000
		ON	12 39 30	480418	11100101000101001100011010000
174 8 1	27	OFF	12 40 55	480503	11100101000111110010011011000
		ON	15 51 31	491939	11101010100100110010010111000
178 3 8	12	OFF	15 52 40	492008	11101010100110111001001000000
		ON	21 38 13	512741	1111010001111100111010001000
183 7 1	46	OFF	21 38 42	512770	11110100100000011111111010000
		ON	4 56 25	2162	00000001000001111110101010000
183 7 2	9	OFF	4 58 17	2274	00000001000101011001011010000
		ON	5 12 24	3121	00000001011110011111011010000
		OFF	5 12 47	3144	00000001011111111100101000000

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	51	ON	6	31	48	7885	00000011110000101000011001000		
		OFF	6	33	44	8281	00000011110100001010111101000		
185	3	1	57	ON	7	57	19	13216	00000110001101001101111000000
		OFF	7	59	15	13132	00000110010000110000011100000		
186	8	1	80	ON	9	28	4	18461	00001000110011011000101001000
		OFF	9	31	7	18644	00001000111000111110000100000		
187	3	1	36	ON	13	47	38	23235	00001011000101000100110111000
		OFF	12	49	14	23331	0000101100100000000000010111000		
187	3	2	79	ON	12	55	26	23703	000010110100110101101101101000
		OFF	13	58	30	23887	00001011011000111110010011000		
188	3	1	36	ON	12	23	28	28985	00001011101000100011010101000
		OFF	12	24	54	29071	000010111011001011010011000		
191	9	1	72	ON	17	5	28	45984	00010101111000111000010000000
		OFF	17	8	29	46085	00010101111100011001110001000		
192	4	0	19	ON	18	24	37	50654	00011000001001110101100110000
		OFF	18	25	23	50700	00011000001011001111011100000		
196	6	1	8	ON	6	39	29	73146	00100010111000001111010010000
		OFF	8	39	56	73173	00100010111001000100000001000		
197	8	1	9	ON	1	54	52	77669	00100101000010010001010001000
		OFF	1	55	16	77693	00100101000011000000001001000		
197	8	2	9	ON	1	58	23	77880	00100101001000101101011000000
		OFF	1	58	46	77903	00100101001001011010010011000		
198	4	1	43	ON	3	13	52	82408	00100111010010111001001000000
		OFF	3	15	34	82510	00100111010110000000010110000		
199	4	1	67	ON	4	41	28	87664	00101001110011010010110000000
		OFF	4	44	6	87822	00101001111000000110101100000		
200	4	1	56	ON	6	16	32	93369	00101100100001011001010101000
		OFF	6	18	40	93497	0010110010010101010011010101000		
201	4	1	17	ON	7	37	42	98239	001011101101100000001000011000
		OFF	7	38	25	98282	0010111011011010101000010000		
201	4	2	36	ON	7	43	3	98560	00101110111111110100000000000
		OFF	7	44	28	98645	00101111000010011010000001000		
202	6	1	76	ON	9	11	4	103840	00110001100000111100100000000
		OFF	9	14	8	104016	00110001100110010100010000000		
203	6	1	50	ON	10	41	36	109273	00110100000110101111110101000
		OFF	12	43	30	109387	001101000001010001110011111000		
204	7	1	14	ON	12	7	58	114455	00110110100100111000111011000
		OFF	12	8	32	114489	0011011010010111101010101000		
204	7	2	19	ON	12	15	53	114930	00110110110011011000101010000
		OFF	12	16	39	114976	00110110110100110010100000000		
204	7	3	28	ON	12	18	21	115078	00110110110111111100101110000
		OFF	12	19	28	115145	00110110111001111100100101000		
206	8	1	23	ON	15	4	36	125047	00111011101000001000011011000
		OFF	15	5	27	125104	00111011101001110111110000000		
206	8	2	58	ON	15	24	47	126264	00111100001101010001011000000
		OFF	15	27	28	126425	00111100001001000101110101000		
211	5	1	24	ON	22	26	36	151573	01001000010001101001000001000
		OFF	22	27	39	151636	01001000010011100100000100000		

NOTE - ONLY THE LAST FIVE FRAMES OF OPERATION 114-3-8 ARE CONTAINED

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IN THE B MISSION RECOVERY CAPSULE.

NOTE - OPERATION 115-8-8 IS THE CUT AND WRAP OPERATION WHICH OCCURRED AT THE TIME OF A MISSION RECOVERY.

NOTE- OPERATION 211-5-1 DID NOT COVER THE PROGRAMMED LATITUDES DUE TO THE NECESSITY OF BIASING THE TIMER PRIOR TO THE B MISSION RECOVERY.

NOTE - TLM DATA INDICATE NORMAL SYSTEM PERFORMANCE.

~~SECRET~~

6076

				OFF 426	68.8	18.7	12.59	12.75	12.15	11.55	
88	3	1	48	127.8	ON 488	44.6	12.9	12.58	12.74	12.14	11.54
				OFF 414	52.4	15.8	12.55	12.75	12.15	11.55	
89	2	1	13	34.4	ON 413	51.3	14.7	12.54	12.75	12.15	11.55
				OFF 417	53.5	15.4	12.55	12.75	12.15	11.55	
98	3	1	34	89.9	ON 348	13.8	12.4	12.26	12.88	11.48	10.88
				OFF 358	19.5	11.6	12.38	12.37	11.77	11.17	
98	3	2	77	283.7	ON 481	44.4	13.8	12.58	12.74	12.14	11.54
				OFF 422	56.7	16.8	12.57	12.75	12.15	11.55	
91	3	1	35	92.6	ON 393	48.3	12.3	12.47	12.72	12.12	11.52
				OFF 484	46.1	13.4	12.51	12.75	12.15	11.55	
93	9	1	19	58.3	ON 427	73.1	146.8	12.59	12.75	12.15	11.55
				OFF 424	78.4	151.6	12.58	12.75	12.15	11.55	
93	9	2	15	39.7	ON 487	61.2	168.6	12.52	12.75	12.15	11.55
				OFF 482	58.7	162.1	12.58	12.75	12.15	11.55	
93	9	3	18	47.6	ON 371	44.7	167.8	12.39	12.74	12.14	11.54
				OFF 364	41.5-192.3		12.36	12.73	12.13	11.53	
94	9	1	78	286.3	ON 438	75.2	141.3	12.68	12.75	12.15	11.55
				OFF 413	64.4	158.2	12.54	12.75	12.15	11.55	
95	7	8	14	37.8	ON 429	68.1	18.9	12.68	12.75	12.15	11.55
				OFF 431	62.3	28.3	12.68	12.75	12.15	11.55	
97	2	1	14	37.8	ON 394	55.5	163.3	12.47	12.75	12.15	11.55
				OFF 389	53.2	164.3	12.46	12.75	12.15	11.55	
98	2	1	15	39.7	ON 342	12.9	12.6	12.27	11.99	11.39	10.79
				OFF 347	16.8	12.3	12.29	12.28	11.68	11.88	
99	4	1	28	74.1	ON 373	29.8	11.5	12.39	12.62	12.82	11.42
				OFF 384	34.8	11.9	12.44	12.68	12.88	11.48	
101	2	1	22	58.2	ON 372	29.1	11.5	12.39	12.61	12.81	11.41
				OFF 381	33.8	11.8	12.42	12.66	12.86	11.46	
102	3	1	26	68.8	ON 366	26.1	11.5	12.37	12.56	11.96	11.36
				OFF 376	38.9	11.6	12.41	12.64	12.84	11.44	
104	6	1	61	161.3	ON 416	58.1	15.1	12.55	12.75	12.15	11.55
				OFF 438	59.5	19.1	12.68	12.75	12.15	11.55	
105	7	8	13	34.4	ON 287	-38.1	12.3	12.82	8.88	8.88	8.88
				OFF 288	-35.1	11.8	12.82	8.88	8.88	8.88	
105	7	1	59	156.1	ON 422	53.5	16.3	12.57	12.75	12.15	11.55
				OFF 433	62.4	21.1	12.61	12.75	12.15	11.55	
106	4	1	41	188.4	ON 397	39.7	12.8	12.49	12.72	12.12	11.52
				OFF 418	46.5	14.2	12.53	12.75	12.15	11.55	
107	3	1	46	121.7	ON 397	39.2	12.8	12.49	12.71	12.11	11.51
				OFF 411	46.8	14.3	12.54	12.75	12.15	11.55	
109	3	1	109	288.3	ON 423	72.4	146.2	12.57	12.75	12.15	11.55
				OFF 391	56.1	162.4	12.46	12.75	12.15	11.55	
111	3	8	16	42.3	ON 438	58.2	18.9	12.68	12.75	12.15	11.55
				OFF 433	68.7	28.4	12.61	12.75	12.15	11.55	
113	3	8	26	68.8	ON 434	61.5	21.8	12.61	12.75	12.15	11.55
				OFF 438	65.3	24.2	12.63	12.75	12.15	11.55	
114	3	8	88	34.4	ON 285	-73.9-322.8	12.81	8.88	8.88	8.88	
				OFF 285	-71.2-327.9		12.81	8.88	8.88	8.88	

STELLAR-INDEX SUMMARY

CAMERA DATA ET FILM FILTER GRID ASSEMBLY NO D89

STELLAR 2.8 4481 NONE 118

INDEX 1/500 4488 W/21 111

PERFORMANCE SUMMARY

OPN NO	FR	STEL FEET	INOX FEET	H	M	S	0	ON LAT	ON LONG	0	OFF LAT	OFF LONG	SEC DUR
PRE-FLT	21	2.88	4.16										
2 4 8	2	8.28	8.48	23	44	31	2	53	156W	2	51	158W	48
4 7 1	5	8.58	8.99	2	48	25	2	65	167E	2	59	162E	94
4 7 2	3	8.38	8.59	3	2	28	3	22	135E	3	25	134E	42
8 3 8	2	8.28	8.48	8	19	48	1	38	127W	1	41	129W	46
8 3 1	6	8.59	1.19	8	42	47	2	47	65E	2	39	62E	118
11 6 1	7	8.69	1.39	13	17	2	2	23	9W	2	16	11W	96
13 3 1	6	8.59	1.19	16	24	38	3	12	62W	3	18	64W	98
14 3 8	2	8.28	8.48	17	48	9	2	43	69W	2	48	78W	48
16 3 8	3	8.38	8.59	28	48	46	2	36	117W	2	32	118W	58
28 7 1	4	8.48	8.79	2	31	21	2	63	168E	2	59	165E	58
28 7 2	5	8.58	8.99	2	33	12	2	56	162E	2	58	159E	87
22 4 1	18	8.99	1.98	5	33	15	2	51	115E	2	39	118E	176
22 4 2	7	8.69	1.39	5	39	31	2	26	185E	2	18	183E	113
23 4 1	7	8.69	1.39	7	1	4	2	57	96E	2	49	92E	119
23 4 2	3	8.38	8.59	7	4	56	2	42	88E	2	39	87E	34
24 8 1	2	8.28	8.48	8	24	42	2	77	111E	2	75	181E	45
24 8 2	6	8.59	1.19	8	34	18	2	42	66E	2	35	64E	99
25 6 1	6	8.59	1.19	9	58	48	2	61	55E	2	54	58E	184
25 6 2	2	8.28	8.48	18	1	49	2	49	47E	2	47	46E	35
26 5 1	3	8.38	8.59	11	24	23	2	74	54E	2	72	48E	43
26 5 2	18	8.99	1.98	11	28	12	2	61	32E	2	49	25E	184
29 9 1	7	8.69	1.39	16	15	4	3	13	68W	3	21	62W	113
31 2 1	4	8.48	8.79	19	8	17	2	48	98W	2	36	91W	68
32 5 8	3	8.38	8.59	28	38	31	2	37	113W	2	33	114W	54
36 2 1	2	8.28	8.48	2	18	47	2	72	174W	2	78	179W	37
36 2 2	2	8.28	8.48	2	21	34	2	62	178E	2	68	168E	34
37 7 1	4	8.48	8.79	3	52	54	2	54	142E	2	51	148E	56
37 7 2	2	8.28	8.48	4	14	9	3	39	116E	3	33	115E	48
38 6 1	8	8.79	1.58	5	26	26	2	38	112E	2	29	189E	128
38 6 2	8	8.79	1.58	5	29	26	2	26	188E	2	17	186E	127
39 6 1	6	8.59	1.19	6	51	29	2	55	98E	2	49	95E	87
39 6 2	7	8.69	1.39	6	56	32	2	35	89E	2	27	87E	113
48 7 1	9	8.89	1.78	8	28	42	2	55	76E	2	45	78E	162
41 4 1	12	1.19	2.38	9	48	53	2	68	57E	2	47	49E	196
43 3 1	7	8.69	1.39	12	56	33	2	24	2W	2	17	4W	112
45 9 1	7	8.69	1.39	16	18	19	3	35	63W	3	44	66W	126
48 5 1	5	8.58	8.99	28	28	7	2	37	118W	2	31	112W	85
54 2 1	9	8.89	1.78	5	18	47	2	26	112E	2	17	189E	128
56 6 1	2	8.28	8.48	8	11	3	2	51	77E	2	49	76E	35
56 6 2	2	8.28	8.48	8	12	12	2	47	74E	2	44	73E	35
56 6 3	3	8.38	8.59	8	15	57	2	32	69E	2	29	68E	45
57 3 1	11	1.89	2.18	9	38	9	2	68	68E	2	47	52E	195
59 2 1	5	8.58	8.99	12	38	7	2	55	12E	2	49	9E	87

64	2	1	6	0.59	1.19	28	9	8	2	37	187W	2	31	189W	93
67	3	1	5	0.58	0.99	8	28	37	2	78	158W	2	65	157W	77
68	5	1	1	0.18	0.28	2	16	44	3	4	152E	3	5	151E	24
68	5	2	3	0.38	0.59	2	28	42	3	28	148E	3	22	147E	33
69	6	1	2	0.28	0.48	3	48	23	3	13	127E	3	15	127E	32
69	6	2	2	0.28	0.48	3	52	36	3	38	123E	3	33	122E	58
78	6	1	5	0.58	0.99	4	55	37	2	73	149E	2	68	139E	81
78	6	2	4	0.48	0.79	4	59	14	2	68	138E	2	56	127E	64
78	6	3	4	0.48	0.79	5	7	58	2	26	115E	2	22	114E	68
72	2	1	2	0.28	0.48	8	8	2	2	51	88E	2	49	79E	34
73	3	1	7	0.69	1.39	9	28	18	2	55	68E	2	47	56E	127
74	8	1	3	0.38	0.59	18	52	22	2	74	64E	2	72	58E	48
74	8	2	2	0.28	0.48	18	55	22	2	64	45E	2	61	42E	36
74	8	3	2	0.28	0.48	18	57	28	2	56	38E	2	54	37E	35
74	8	4	6	0.59	1.19	18	58	59	2	58	35E	2	43	32E	188
77	6	1	2	0.28	0.48	15	22	48	2	66	19W	2	63	21W	36
77	6	2	2	0.28	0.48	15	39	25	2	8	47W	3	1	47W	23
77	6	3	2	0.28	0.48	15	42	59	3	14	58W	3	17	51W	39
88	5	1	3	0.38	0.59	19	58	35	2	34	184W	2	32	185W	38
81	7	8	2	0.28	0.48	21	28	13	2	33	127W	2	38	128W	36
82	4	1	5	0.58	0.99	22	43	51	2	79	66W	2	77	99W	98
85	7	1	5	0.58	0.99	3	36	12	3	18	131E	3	15	138E	77
85	7	2	3	0.38	0.59	3	48	54	3	29	126E	3	32	125E	58
86	2	1	8	0.79	1.58	4	54	45	2	32	128E	2	24	118E	126
87	2	1	2	0.28	0.48	6	21	38	2	42	181E	2	39	188E	32
88	3	1	7	0.69	1.39	7	47	28	2	56	86E	2	48	82E	117
89	2	1	2	0.28	0.48	9	18	17	2	49	68E	2	47	59E	34
98	3	1	5	0.58	0.99	18	38	8	2	79	115E	2	77	82E	98
98	3	2	12	1.19	2.38	18	45	51	2	56	42E	2	44	35E	185
91	3	1	5	0.58	0.99	12	14	4	2	68	22E	2	54	18E	88
93	9	1	3	0.38	0.59	15	28	5	3	1	44W	3	4	44W	45
93	9	2	2	0.28	0.48	15	31	17	3	14	47W	3	17	47W	39
93	9	3	3	0.38	0.59	15	35	31	3	31	51W	3	34	53W	49
94	9	1	12	1.19	2.38	16	56	42	2	8	65W	3	11	68W	181
95	7	8	2	0.28	0.48	18	16	8	2	48	77W	2	38	77W	34
97	2	1	2	0.28	0.48	21	29	47	3	28	137W	3	22	138W	36
98	2	1	3	0.38	0.59	22	32	5	2	79	63W	2	79	88W	46
99	4	1	4	0.48	0.79	8	5	32	2	69	144W	2	65	158W	76
181	2	1	3	0.38	0.59	3	3	52	2	78	172E	2	66	166E	68
182	3	1	4	0.48	0.79	4	32	22	2	72	155E	2	68	147E	71
184	6	1	9	0.89	1.78	7	36	53	2	58	86E	2	48	82E	143
185	7	8	3	0.38	0.59	8	44	1	1	38	138W	1	41	131W	46
185	7	1	8	0.79	1.58	9	6	59	2	46	62E	2	37	59E	137
186	4	1	6	0.59	1.19	18	32	45	2	68	48E	2	53	44E	183
187	3	1	7	0.69	1.39	12	1	53	2	68	26E	2	53	21E	113
189	3	1	16	1.58	3.17	15	16	12	3	2	48W	3	28	45W	263
111	3	8	3	0.38	0.59	18	3	38	2	41	72W	2	39	73W	39
113	3	8	4	0.48	0.79	21	2	57	2	38	118W	2	34	128W	61
114	3	8	2	0.28	0.48	21	57	35	1	1	39E	1	4	38E	48

NOTE - OPERATION 114-3-8 ACTUALLY CONSISTED OF FIVE MORE FRAMES THAN WAS REPORTED. THESE FRAMES WILL BE INCLUDED IN THE B BUCKET.

NOTE - TLM DATA INDICATE NORMAL SYSTEM PERFORMANCE.

A. 1836-1
B. DRY
C. PERFORMANCE ESTIMATE PART TWO

RATE ESTIMATE
FWD PAN CAMERA NUMBER 198

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG VEL	SCAN R/SEC	RATE I/SEC	PCT CALIB	RATE REQD	
2 4 8	13	6	7	ON	1246	8.3667	8.83894	2.384	55.29	-4.1	-4.1
				OFF	48	8.3788	8.83129	2.338	55.91	-4.1	-4.2
4 7 1	33	6	6	ON	1876	8.3466	8.82925	2.178	52.27	-4.1	-4.6
				OFF	94	8.3599	8.83837	2.261	54.27	-4.1	-3.8
4 7 2	16	6	6	ON	2399	8.3919	8.83387	2.462	59.89	-4.1	-5.8
				OFF	42	8.3878	8.83265	2.431	58.36	-4.1	-6.8
8 3 8	12	6	6	ON	8	8.2699	8.82278	1.696	48.78	-4.1	-6.1
				OFF	46	8.2699	8.82278	1.696	48.78	-4.1	-6.7
8 3 1	46	6	6	ON	1378	8.3881	8.83275	2.439	58.53	-4.1	-3.8
				OFF	118	8.4817	8.83389	2.524	68.57	-4.1	-2.9
11 6 1	41	6	6	ON	1739	8.4216	8.83557	2.649	63.58	-4.1	-3.1
				OFF	96	8.4246	8.83583	2.668	64.83	-4.1	-3.5
13 3 1	48	6	6	ON	2273	8.4868	8.83425	2.551	61.22	-4.1	-5.8
				OFF	98	8.3956	8.83338	2.486	59.65	-4.1	-6.2
14 3 8	16	5	7	ON	1445	8.4823	8.83395	2.528	68.67	-4.1	-1.3
				OFF	48	8.4856	8.83423	2.549	61.17	-4.1	-1.6
16 3 8	28	5	7	ON	1557	8.4117	8.83474	2.587	62.88	-4.1	-2.8
				OFF	58	8.4149	8.83581	2.687	62.57	-4.1	-2.3
28 7 1	21	5	7	ON	1151	8.3784	8.83125	2.327	55.85	-4.1	-1.8
				OFF	58	8.3769	8.83188	2.368	56.83	-4.1	-1.1
28 7 2	34	5	7	ON	1261	8.3832	8.83234	2.488	57.79	-4.1	-1.8
				OFF	87	8.3924	8.83311	2.466	59.18	-4.1	-1.2
22 4 1	71	5	7	ON	1343	8.3922	8.83389	2.464	59.14	-4.1	-1.2
				OFF	176	8.4885	8.83447	2.567	61.68	-4.1	-2.8
22 4 2	48	5	7	ON	1719	8.4218	8.83553	2.646	63.49	-4.1	-3.1
				OFF	113	8.4242	8.83579	2.665	63.97	-4.1	-3.9
23 4 1	47	5	7	ON	1252	8.3822	8.83225	2.481	57.63	-4.1	-1.1
				OFF	119	8.3948	8.83331	2.481	59.53	-4.1	-1.4
23 4 2	14	8	7	ON	1483	8.4857	8.83424	2.549	61.18	-4.1	-1.7
				OFF	34	8.4884	8.83446	2.566	61.58	-4.1	-2.8
24 8 1	16	5	7	ON	989	8.3485	8.82941	2.198	52.55	-3.6	-8.8
				OFF	45	8.3522	8.82972	2.213	53.11	-3.6	-8.3
24 8 2	48	5	7	ON	1485	8.4888	8.83442	2.563	61.52	-3.6	-1.3
				OFF	99	8.4154	8.83585	2.618	62.65	-3.6	-1.9
25 6 1	39	5	7	ON	1195	8.3775	8.83185	2.372	56.92	-3.6	-8.7
				OFF	184	8.3898	8.83282	2.444	58.66	-3.6	-8.8
25 6 2	14	5	7	ON	1375	8.3976	8.83355	2.498	59.95	-3.6	-8.9
				OFF	35	8.4887	8.83381	2.518	68.43	-3.6	-1.1
26 5 1	15	5	7	ON	969	8.3539	8.82986	2.223	53.36	-3.6	-8.4
				OFF	43	8.3574	8.83816	2.246	53.89	-3.6	-8.6
26 5 2	72	5	7	ON	1198	8.3778	8.83188	2.374	56.97	-3.6	-8.7
				OFF	184	8.3979	8.83357	2.588	68.88	-3.6	-1.8

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29	9	1	46	5	7 ON	2338	8.4866	8.83431	2.555	61.31	-3.6	-5.8
					OFF	113	8.3959	8.83348	2.487	59.69	-3.6	-4.9
31	2	1	25	5	6 ON	1435	8.4131	8.83486	2.596	62.29	-3.6	-1.2
					OFF	68	8.4195	8.83539	2.636	63.25	-3.6	-1.8
32	5	8	22	5	6 ON	1498	8.4192	8.83537	2.634	63.22	-3.6	-1.8
					OFF	54	8.4243	8.83581	2.666	63.99	-3.6	-8.9
36	2	1	12	5	6 ON	958	8.3492	8.82946	2.194	52.65	-3.6	-4.2
					OFF	37	8.3529	8.82978	2.217	53.22	-3.6	-4.3
36	2	2	12	5	6 ON	1117	8.3691	8.83114	2.319	55.66	-3.6	-3.6
					OFF	34	8.3737	8.83153	2.348	56.36	-3.6	-3.4
37	7	1	21	5	6 ON	1237	8.3868	8.83264	2.438	58.33	-3.6	-2.5
					OFF	56	8.3943	8.83327	2.477	59.45	-3.6	-2.1
37	7	2	15	5	6 ON	2513	8.3938	8.83323	2.474	59.39	-3.6	-8.7
					OFF	48	8.3887	8.83288	2.442	58.61	-3.6	-8.6
38	6	1	55	5	6 ON	1498	8.4193	8.83538	2.634	63.22	-3.6	-1.8
					OFF	128	8.4389	8.83636	2.788	64.98	-3.6	-8.8
38	6	2	55	5	6 ON	1678	8.4348	8.83669	2.732	65.57	-3.6	-8.7
					OFF	127	8.4487	8.83719	2.769	66.46	-3.6	-8.7
39	6	1	34	5	6 ON	1235	8.3865	8.83262	2.429	58.29	-3.6	-2.5
					OFF	87	8.3983	8.83361	2.583	68.87	-3.6	-1.9
39	6	2	49	5	6 ON	1539	8.4242	8.83579	2.665	63.97	-3.6	-8.9
					OFF	113	8.4334	8.83657	2.723	65.36	-3.6	-8.8
48	7	1	65	5	6 ON	1228	8.3851	8.83249	2.419	58.87	-3.7	-2.8
					OFF	162	8.4868	8.83432	2.556	61.34	-3.7	-1.7
41	4	1	77	5	6 ON	1168	8.3751	8.83165	2.357	56.57	-3.7	-3.5
					OFF	196	8.4823	8.83395	2.528	68.67	-3.7	-1.9
43	3	1	49	5	6 ON	1784	8.4363	8.83682	2.742	65.88	-3.7	-8.9
					OFF	112	8.4487	8.83719	2.769	66.46	-3.7	-8.9
45	9	1	47	5	6 ON	2615	8.3786	8.83195	2.379	57.18	-3.7	-1.4
					OFF	126	8.3612	8.83847	2.269	54.46	-3.7	-1.6
48	5	1	36	5	6 ON	1538	8.4229	8.83568	2.657	63.76	-3.7	-1.2
					OFF	85	8.4381	8.83629	2.782	64.86	-3.7	-1.1
54	2	1	56	5	6 ON	1789	8.4366	8.83684	2.743	65.84	-3.7	-8.9
					OFF	128	8.4412	8.83723	2.772	66.53	-3.7	-8.9
56	6	1	13	5	6 ON	1332	8.3996	8.83371	2.511	68.25	-3.7	-2.1
					OFF	35	8.4838	8.83487	2.537	68.88	-3.7	-2.8
56	6	2	13	5	6 ON	1481	8.4884	8.83446	2.566	61.58	-3.7	-1.7
					OFF	35	8.4122	8.83478	2.598	62.16	-3.7	-1.6
56	6	3	18	5	6 ON	1625	8.4311	8.83638	2.789	65.81	-3.7	-1.8
					OFF	45	8.4341	8.83663	2.728	65.46	-3.7	-1.8
57	3	1	78	5	6 ON	1288	8.3889	8.83214	2.393	57.44	-3.7	-3.4
					OFF	195	8.4873	8.83437	2.559	61.42	-3.7	-1.9
59	2	1	34	5	6 ON	1284	8.3938	8.83316	2.469	59.26	-3.7	-2.6
					OFF	87	8.4842	8.83411	2.548	68.96	-3.7	-2.8
64	2	1	48	5	6 ON	1562	8.4289	8.83593	2.676	64.22	-3.7	-1.2
					OFF	93	8.4331	8.83655	2.721	65.31	-3.7	-1.1
67	3	1	28	5	6 ON	1882	8.3612	8.83848	2.278	54.47	-3.7	-5.3
					OFF	77	8.3715	8.83135	2.334	56.82	-3.7	-4.6
68	5	1	18	5	6 ON	2193	8.4248	8.83585	2.659	64.87	-4.8	-2.4
					OFF	24	8.4231	8.83578	2.659	63.88	-4.8	-2.4
68	5	2	13	5	6 ON	2431	8.3997	8.83373	2.512	68.28	-4.8	-2.7

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				OFF	33	8.3959	8.83341	2.488	59.78	-4.8	-2.7	
69	6	1	12	5	6 ON	2337	8.4118	8.83468	2.582	61.97	-4.8	-2.6
				OFF	32	8.4877	8.83448	2.562	61.48	-4.8	-2.6	
69	6	2	18	5	6 ON	2598	8.3788	8.83189	2.375	57.88	-4.8	-3.2
				OFF	58	8.3712	8.83132	2.332	55.98	-4.8	-3.3	
78	6	1	29	5	6 ON	1817	8.3522	8.82971	2.213	53.18	-4.8	-6.7
				OFF	81	8.3612	8.83848	2.269	54.47	-4.8	-6.4	
78	6	2	24	5	6 ON	1234	8.3815	8.83219	2.397	57.54	-4.8	-4.5
				OFF	64	8.3988	8.83291	2.458	58.81	-4.8	-4.8	
78	6	3	26	5	6 ON	1758	8.4337	8.83659	2.725	65.39	-4.8	-2.2
				OFF	68	8.4356	8.83676	2.737	65.69	-4.8	-2.2	
72	2	1	13	5	6 ON	1371	8.4881	8.83376	2.514	68.34	-4.8	-3.3
				OFF	34	8.4848	8.83489	2.538	68.92	-4.8	-3.2	
73	3	1	51	5	6 ON	1318	8.3922	8.83389	2.464	59.14	-4.8	-3.8
				OFF	127	8.4878	8.83441	2.562	61.49	-4.8	-3.8	
74	8	1	14	5	6 ON	1888	8.3583	8.82956	2.281	52.83	-4.8	-7.8
				OFF	48	8.3545	8.82991	2.227	53.46	-4.8	-6.9	
74	8	2	13	5	6 ON	1188	8.3738	8.83154	2.349	56.37	-4.8	-5.3
				OFF	36	8.3787	8.83195	2.379	57.18	-4.8	-4.9	
74	8	3	13	5	6 ON	1299	8.3986	8.83296	2.454	58.98	-4.8	-4.8
				OFF	35	8.3949	8.83332	2.481	59.55	-4.8	-3.7	
74	8	4	48	5	6 ON	1398	8.4835	8.83485	2.535	68.85	-4.8	-3.2
				OFF	188	8.4145	8.83498	2.685	62.51	-4.8	-2.7	
77	6	1	13	5	6 ON	1152	8.3697	8.83119	2.323	55.75	-4.8	-5.8
				OFF	36	8.3744	8.83159	2.353	56.46	-4.8	-5.4	
77	6	2	9	5	6 ON	2157	8.4275	8.83687	2.686	64.47	-4.8	-2.6
				OFF	23	8.4261	8.83595	2.677	64.25	-4.8	-2.5	
77	6	3	15	5	6 ON	2371	8.4871	8.83435	2.558	61.38	-4.8	-2.9
				OFF	39	8.4827	8.83398	2.531	68.73	-4.8	-2.8	
88	5	1	16	5	6 ON	1645	8.4278	8.83618	2.688	64.51	-4.8	-2.3
				OFF	38	8.4381	8.83629	2.782	64.86	-4.8	-2.3	
81	7	8	15	5	6 ON	1678	8.4294	8.83623	2.698	64.75	-4.8	-2.3
				OFF	36	8.4314	8.83648	2.718	65.85	-4.8	-2.3	
82	4	1	33	5	6 ON	853	8.3344	8.82821	2.181	58.42	-4.8	-8.3
				OFF	98	8.3445	8.82987	2.165	51.95	-4.8	-7.8	
85	7	1	31	5	6 ON	2332	8.4116	8.83473	2.586	62.86	-4.8	-3.1
				OFF	77	8.4838	8.83488	2.532	68.77	-4.8	-3.2	
85	7	2	19	5	6 ON	2614	8.3745	8.83168	2.353	56.47	-4.8	-4.8
				OFF	58	8.3676	8.83182	2.318	55.44	-4.8	-4.1	
86	2	1	55	5	6 ON	1698	8.4387	8.83634	2.786	64.94	-4.8	-2.4
				OFF	126	8.4358	8.83677	2.738	65.71	-4.8	-2.4	
87	2	1	13	5	6 ON	1588	8.4288	8.83544	2.639	63.34	-4.8	-2.6
				OFF	32	8.4226	8.83566	2.656	63.73	-4.8	-2.6	
88	3	1	48	5	6 ON	1338	8.3985	8.83362	2.584	68.89	-4.2	-3.3
				OFF	117	8.4126	8.83481	2.592	62.22	-4.2	-2.5	
89	2	1	13	5	6 ON	1441	8.4114	8.83471	2.585	62.84	-4.2	-2.5
				OFF	34	8.4148	8.83588	2.686	62.55	-4.2	-2.4	
98	3	1	34	5	6 ON	871	8.3385	8.82856	2.127	51.84	-4.2	-7.9
				OFF	98	8.3488	8.82943	2.191	52.59	-4.2	-7.3	
98	3	2	77	5	6 ON	1341	8.3989	8.83366	2.587	68.16	-4.2	-3.3
				OFF	185	8.4282	8.83546	2.648	63.37	-4.2	-2.2	

91	3	1	35	5	6 ON	1283	8.3918	8.83299	2.457	58.96	-4.2	-3.9
					OFF	88	8.4823	8.83395	2.528	68.66	-4.2	-3.1
93	9	1	19	5	6 ON	2218	8.4256	8.83591	2.674	64.18	-4.2	-2.4
					OFF	45	8.4218	8.83559	2.658	63.68	-4.2	-2.4
93	9	2	15	5	6 ON	2418	8.4851	8.83418	2.545	61.88	-4.2	-2.8
					OFF	39	8.4884	8.83379	2.516	68.39	-4.2	-2.9
93	9	3	18	5	6 ON	2664	8.3897	8.83119	2.323	55.74	-4.2	-3.8
					OFF	49	8.3628	8.83861	2.279	54.78	-4.2	-3.9
94	9	1	78	5	6 ON	2182	8.4285	8.83616	2.693	64.62	-4.2	-2.3
					OFF	181	8.4112	8.83469	2.584	62.88	-4.2	-2.6
95	7	8	14	5	6 ON	1595	8.4268	8.83681	2.682	64.36	-4.2	-1.9
					OFF	34	8.4293	8.83622	2.697	64.73	-4.2	-1.9
97	2	1	14	5	6 ON	2589	8.3921	8.83388	2.463	59.12	-4.2	-3.2
					OFF	36	8.3874	8.83269	2.434	58.42	-4.2	-3.3
98	2	1	15	5	6 ON	893	8.3489	8.82876	2.142	51.41	-4.2	-8.2
					OFF	46	8.3456	8.82916	2.171	52.11	-4.2	-7.9
99	4	1	28	5	6 ON	1148	8.3715	8.83134	2.334	56.82	-4.2	-5.9
					OFF	76	8.3822	8.83225	2.481	57.63	-4.2	-4.9
181	2	1	22	5	6 ON	1143	8.3789	8.83129	2.338	55.93	-4.2	-6.8
					OFF	68	8.3792	8.83288	2.383	57.18	-4.2	-5.3
182	3	1	26	5	6 ON	1184	8.3649	8.83879	2.293	55.83	-4.2	-6.7
					OFF	71	8.3758	8.83164	2.356	56.55	-4.2	-5.7
184	6	1	61	5	6 ON	1469	8.4145	8.83498	2.685	62.51	-4.2	-2.6
					OFF	143	8.4279	8.83611	2.689	64.53	-4.2	-2.8
185	7	8	13	5	6 ON	146	8.2863	8.82416	1.799	43.17	-4.2	-11.6
					OFF	46	8.2875	8.82425	1.886	43.35	-4.2	-11.9
185	7	1	59	5	6 ON	1524	8.4283	8.83546	2.641	63.38	-4.2	-2.3
					OFF	137	8.4315	8.83641	2.711	65.86	-4.2	-2.8
186	4	1	41	5	6 ON	1318	8.3958	8.83348	2.487	59.69	-4.2	-3.9
					OFF	183	8.4885	8.83447	2.567	61.61	-4.2	-3.8
187	3	1	46	5	6 ON	1315	8.3958	8.83337	2.485	59.64	-4.2	-3.9
					OFF	113	8.4895	8.83455	2.573	61.75	-4.2	-3.8
189	3	1	118	5	6 ON	2271	8.4287	8.83558	2.643	63.44	-4.2	-2.9
					OFF	263	8.3898	8.83282	2.444	58.66	-4.2	-3.7
111	3	8	16	5	6 ON	1615	8.4284	8.83615	2.692	64.68	-4.2	-2.8
					OFF	39	8.4318	8.83637	2.788	64.99	-4.2	-2.8
113	3	8	26	5	6 ON	1673	8.4325	8.83649	2.717	65.22	-4.2	-1.9
					OFF	61	8.4357	8.83677	2.738	65.71	-4.2	-1.9
114	3	8	88	5	6 ON	8	8.2846	8.82481	1.788	42.91	-4.2	-4.8
					OFF	48	8.2846	8.82481	1.788	42.91	-4.2	-4.7

RATE ESTIMATE
AFT PAN CAMERA NUMBER 191

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG VEL	SCAN R/SEC	RATE I/SEC	PCT CALIB	RATE RECD
2 4 8	13	6	7	ON	1258	8.3639	8.83871	2.287	54.88	-4.4 -5.3
				OFF	48	8.3688	8.83185	2.312	55.49	-4.4 -5.4
4 7 1	33	6	6	ON	1888	8.3439	8.82982	2.161	51.86	-4.4 -5.9
				OFF	94	8.3571	8.83814	2.244	53.86	-4.4 -5.8
4 7 2	16	6	6	ON	2411	8.3898	8.83283	2.444	58.66	-4.4 -6.3

				OFF	42	0.3642	0.03241	2.414	57.93	-4.4	-6.4		
8	3	0	12	6	ON	12	0.2675	0.02257	1.681	48.34	-4.4	-7.2	
				OFF	46	0.2675	0.02257	1.681	48.34	-4.4	-7.9		
8	3	1	46	6	ON	1382	0.3853	0.03251	2.421	58.18	-4.4	-4.2	
				OFF	118	0.3988	0.03365	2.586	68.14	-4.4	-3.9		
11	6	1	41	6	ON	1751	0.4187	0.03533	2.631	63.13	-4.4	-4.8	
				OFF	96	0.4217	0.03558	2.658	63.59	-4.4	-4.4		
13	3	1	39	6	ON	2285	0.4831	0.03481	2.533	68.78	-4.4	-6.3	
				OFF	98	0.3927	0.03314	2.468	59.22	-4.4	-6.7		
14	3	0	15	5	7	ON	1457	0.3993	0.03378	2.589	68.22	-4.4	-2.4
				OFF	48	0.4827	0.03398	2.538	68.72	-4.4	-2.6		
16	3	0	28	5	7	ON	1569	0.4887	0.03448	2.568	61.63	-4.4	-3.8
				OFF	58	0.4119	0.03475	2.588	62.11	-4.4	-3.4		
28	7	1	21	5	7	ON	1163	0.3675	0.03181	2.389	55.42	-4.4	-2.2
				OFF	58	0.3748	0.03156	2.358	56.48	-4.4	-2.3		
28	7	2	34	5	7	ON	1273	0.3883	0.03289	2.398	57.35	-4.4	-2.2
				OFF	87	0.3895	0.03287	2.447	58.73	-4.4	-2.4		
22	4	1	71	5	7	ON	1355	0.3892	0.03284	2.446	58.78	-4.4	-2.3
				OFF	176	0.4855	0.03422	2.548	61.15	-4.4	-3.8		
22	4	2	48	5	7	ON	1731	0.4188	0.03527	2.626	63.84	-4.4	-4.1
				OFF	113	0.4212	0.03554	2.646	63.51	-4.4	-4.8		
23	4	1	47	5	7	ON	1264	0.3793	0.03288	2.383	57.19	-4.4	-2.3
				OFF	119	0.3918	0.03386	2.462	59.89	-4.4	-2.5		
23	4	2	14	5	7	ON	1495	0.4828	0.03398	2.531	68.73	-4.4	-2.8
				OFF	34	0.4854	0.03428	2.547	61.13	-4.4	-3.1		
24	8	1	15	5	7	ON	921	0.3585	0.02957	2.282	52.85	-2.6	8.2
				OFF	45	0.3542	0.02989	2.225	53.41	-2.6	-8.1		
24	8	2	48	5	7	ON	1497	0.4185	0.03464	2.579	61.98	-2.6	-1.8
				OFF	99	0.4181	0.03528	2.627	63.84	-2.6	-1.5		
25	6	1	39	5	7	ON	1287	0.3797	0.03284	2.386	57.26	-2.6	-8.5
				OFF	184	0.3914	0.03382	2.459	59.82	-2.6	-8.6		
25	6	2	14	5	7	ON	1387	0.4888	0.03375	2.513	68.32	-2.6	-8.6
				OFF	35	0.4832	0.03482	2.533	68.88	-2.6	-8.8		
26	5	1	15	5	7	ON	981	0.3559	0.03883	2.236	53.66	-2.6	-8.2
				OFF	43	0.3594	0.03833	2.258	54.28	-2.6	-8.4		
26	5	2	72	5	7	ON	1218	0.3888	0.03287	2.388	57.31	-2.6	-8.5
				OFF	184	0.4883	0.03378	2.515	68.37	-2.6	-8.7		
29	9	1	46	5	7	ON	2342	0.4891	0.03452	2.571	61.69	-2.6	-4.1
				OFF	113	0.3983	0.03361	2.583	68.86	-2.6	-3.9		
31	2	1	25	5	6	ON	1447	0.4157	0.03588	2.612	62.69	-2.6	-8.8
				OFF	68	0.4221	0.03562	2.652	63.66	-2.6	-8.7		
32	5	0	22	5	6	ON	1582	0.4219	0.03568	2.651	63.62	-2.6	-8.6
				OFF	54	0.4271	0.03684	2.683	64.48	-2.6	-8.3		
36	2	1	13	5	6	ON	962	0.3511	0.02963	2.286	52.95	-2.6	-4.8
				OFF	37	0.3549	0.02995	2.238	53.52	-2.6	-4.1		
36	2	2	12	5	6	ON	1129	0.3712	0.03132	2.333	55.98	-2.6	-3.4
				OFF	34	0.3759	0.03172	2.362	56.69	-2.6	-3.1		
37	7	1	21	5	6	ON	1249	0.3891	0.03284	2.445	58.68	-2.6	-2.2
				OFF	56	0.3967	0.03347	2.492	59.82	-2.6	-1.9		
37	7	2	15	5	6	ON	2525	0.3962	0.03343	2.492	59.75	-2.6	8.4
				OFF	48	0.3918	0.03299	2.457	58.97	-2.6	8.4		

38	6	1	55	5	6 ON	1582	8.4219	8.83568	2.651	63.63	-2.6	-8.7
					OFF	128	8.4337	8.83668	2.725	65.48	-2.6	-8.4
38	6	2	56	5	6 ON	1682	8.4377	8.83693	2.758	66.88	-2.6	-8.2
					OFF	127	8.4436	8.83743	2.787	66.98	-2.6	-8.1
39	6	1	34	5	6 ON	1247	8.3889	8.83281	2.443	58.64	-2.6	-2.3
					OFF	87	8.4888	8.83382	2.518	68.44	-2.6	-1.7
39	6	2	49	5	6 ON	1551	8.4269	8.83682	2.682	64.38	-2.6	-8.5
					OFF	113	8.4362	8.83681	2.741	65.78	-2.6	-8.3
48	7	1	65	5	6 ON	1248	8.3818	8.83222	2.399	57.58	-4.1	-4.8
					OFF	162	8.4835	8.83484	2.535	68.84	-4.1	-2.9
41	4	1	77	5	6 ON	1172	8.3719	8.83138	2.337	56.89	-4.1	-4.7
					OFF	196	8.3998	8.83367	2.587	68.17	-4.1	-3.1
43	3	1	49	5	6 ON	1716	8.4329	8.83653	2.728	65.28	-4.1	-1.8
					OFF	112	8.4373	8.83698	2.748	65.94	-4.1	-1.7
45	9	1	47	5	6 ON	2627	8.3754	8.83168	2.359	56.62	-4.1	-1.8
					OFF	126	8.3588	8.83821	2.258	53.99	-4.1	-2.8
48	5	1	36	5	6 ON	1542	8.4195	8.83539	2.636	63.25	-4.1	-2.2
					OFF	85	8.4267	8.83688	2.681	64.34	-4.1	-2.1
54	2	1	56	5	6 ON	1721	8.4332	8.83655	2.722	65.32	-4.1	-1.9
					OFF	128	8.4377	8.83693	2.758	66.81	-4.1	-1.8
56	6	1	14	5	6 ON	1344	8.3963	8.83344	2.498	59.76	-4.1	-3.3
					OFF	38	8.4885	8.83379	2.516	68.39	-4.1	-3.2
56	6	2	14	5	6 ON	1413	8.4851	8.83418	2.545	61.88	-4.1	-2.8
					OFF	35	8.4889	8.83458	2.569	61.66	-4.1	-2.7
58	6	3	19	5	6 ON	1637	8.4277	8.83689	2.687	64.58	-4.1	-2.8
					OFF	45	8.4387	8.83634	2.786	64.94	-4.1	-2.8
57	3	1	78	5	6 ON	1212	8.3777	8.83187	2.373	56.96	-4.1	-4.6
					OFF	195	8.4848	8.83489	2.538	68.92	-4.1	-3.8
59	2	1	34	5	6 ON	1296	8.3897	8.83288	2.449	58.77	-4.1	-3.8
					OFF	87	8.4889	8.83383	2.519	68.46	-4.1	-3.2
64	2	1	48	5	6 ON	1874	8.4225	8.83565	2.654	63.71	-4.1	-2.2
					OFF	93	8.4297	8.83626	2.788	64.88	-4.1	-2.1
67	3	1	28	5	6 ON	1874	8.3581	8.83821	2.258	54.88	-4.1	-6.5
					OFF	77	8.3683	8.83188	2.314	55.54	-4.1	-5.8
68	5	1	9	5	6 ON	2285	8.4266	8.83599	2.688	64.33	-4.1	-1.8
					OFF	24	8.4248	8.83585	2.669	64.86	-4.1	-1.7
68	5	2	12	5	6 ON	2443	8.4813	8.83386	2.521	68.51	-4.1	-2.8
					OFF	33	8.3974	8.83353	2.497	59.93	-4.1	-1.9
69	6	1	12	5	6 ON	2349	8.4126	8.83481	2.592	62.22	-4.1	-1.9
					OFF	32	8.4893	8.83454	2.572	61.72	-4.1	-1.8
69	6	2	18	5	6 ON	2682	8.3794	8.83281	2.384	57.28	-4.1	-2.4
					OFF	58	8.3725	8.83143	2.341	56.18	-4.1	-2.5
78	6	1	29	5	6 ON	1829	8.3533	8.82981	2.228	53.28	-4.1	-6.7
					OFF	81	8.3624	8.83858	2.277	54.65	-4.1	-6.4
78	6	2	25	5	6 ON	1246	8.3829	8.83231	2.486	57.75	-4.1	-4.5
					OFF	64	8.3915	8.83383	2.468	59.83	-4.1	-3.9
78	6	3	26	5	6 ON	1762	8.4355	8.83674	2.736	65.67	-4.1	-1.9
					OFF	68	8.4374	8.83691	2.748	65.96	-4.1	-1.9
72	2	1	13	5	6 ON	1383	8.4817	8.83389	2.524	68.57	-4.1	-3.2
					OFF	34	8.4856	8.83422	2.548	61.16	-4.1	-3.1
73	3	1	51	5	6 ON	1322	8.3937	8.83322	2.474	59.37	-4.1	-3.8

					OFF	127	8.4894	8.83454	2.572	61.74	-4.1	-2.9
74	8	1	14	5	6 ON	1812	8.3515	8.82966	2.288	53.88	-4.1	-7.8
					OFF	48	8.3557	8.83881	2.235	53.63	-4.1	-6.9
74	8	2	14	5	6 ON	1192	8.3752	8.83166	2.357	56.57	-4.1	-5.2
					OFF	36	8.3888	8.83287	2.388	57.31	-4.1	-4.9
74	8	3	14	5	6 ON	1311	8.3921	8.83388	2.464	59.12	-4.1	-3.9
					OFF	35	8.3964	8.83348	2.491	59.78	-4.1	-3.7
74	8	4	41	5	6 ON	1418	8.4851	8.83418	2.545	61.88	-4.1	-3.1
					OFF	188	8.4162	8.83512	2.615	62.76	-4.1	-2.6
77	6	1	13	5	6 ON	1164	8.3718	8.83138	2.331	55.94	-4.1	-5.8
					OFF	36	8.3758	8.83171	2.361	56.66	-4.1	-5.4
77	6	2	9	5	6 ON	2169	8.4293	8.83622	2.697	64.73	-4.1	-2.8
					OFF	23	8.4278	8.83618	2.688	64.51	-4.1	-1.9
77	6	3	15	5	6 ON	2383	8.4887	8.83448	2.568	61.62	-4.1	-2.1
					OFF	39	8.4843	8.83411	2.548	68.97	-4.1	-2.1
88	5	1	16	5	6 ON	1657	8.4295	8.83624	2.699	64.77	-4.1	-2.1
					OFF	38	8.4319	8.83644	2.714	65.13	-4.1	-2.1
81	7	8	15	5	6 ON	1682	8.4312	8.83638	2.789	65.82	-4.1	-2.8
					OFF	36	8.4332	8.83655	2.722	65.32	-4.1	-2.8
82	4	1	33	5	6 ON	865	8.3354	8.82838	2.187	58.57	-4.1	-8.3
					OFF	98	8.3456	8.82916	2.172	52.12	-4.1	-7.8
85	7	1	31	5	6 ON	2344	8.4132	8.83486	2.596	62.31	-4.1	-2.4
					OFF	77	8.4845	8.83413	2.542	61.88	-4.1	-2.4
85	7	2	19	5	6 ON	2626	8.3758	8.83171	2.361	56.67	-4.1	-3.2
					OFF	58	8.3689	8.83113	2.318	55.63	-4.1	-3.3
86	2	1	55	5	6 ON	1782	8.4324	8.83649	2.717	65.21	-4.1	-2.1
					OFF	126	8.4376	8.83692	2.758	65.99	-4.1	-2.8
87	2	1	13	5	6 ON	1562	8.4217	8.83558	2.658	63.59	-4.1	-2.5
					OFF	32	8.4244	8.83581	2.666	63.99	-4.1	-2.4
88	3	1	48	5	6 ON	1358	8.3985	8.83362	2.584	68.89	-3.8	-3.6
					OFF	117	8.4126	8.83482	2.593	62.22	-3.8	-2.8
89	2	1	13	5	6 ON	1453	8.4114	8.83472	2.585	62.84	-3.8	-2.8
					OFF	34	8.4149	8.83581	2.687	62.56	-3.8	-2.7
98	3	1	34	5	6 ON	883	8.3382	8.82854	2.125	51.88	-3.8	-8.3
					OFF	98	8.3485	8.82941	2.198	52.56	-3.8	-7.7
98	3	2	77	5	6 ON	1353	8.3989	8.83366	2.587	68.16	-3.8	-3.6
					OFF	185	8.4283	8.83546	2.641	63.38	-3.8	-2.4
91	3	1	35	5	6 ON	1295	8.3918	8.83299	2.456	58.96	-3.8	-4.2
					OFF	88	8.4823	8.83395	2.528	68.67	-3.8	-3.4
93	9	1	19	5	6 ON	2238	8.4257	8.83592	2.675	64.28	-3.8	-2.1
					OFF	45	8.4218	8.83559	2.658	63.61	-3.8	-2.1
93	9	2	15	5	6 ON	2422	8.4851	8.83418	2.545	61.88	-3.8	-2.5
					OFF	39	8.4884	8.83379	2.516	68.39	-3.8	-2.5
93	9	3	18	5	6 ON	2676	8.3695	8.83118	2.322	55.73	-3.8	-3.4
					OFF	49	8.3626	8.83868	2.278	54.68	-3.8	-3.5
94	9	1	78	5	6 ON	2194	8.4286	8.83617	2.693	64.64	-3.8	-2.1
					OFF	181	8.4112	8.83478	2.584	62.81	-3.8	-2.3
95	7	8	14	5	6 ON	1887	8.4269	8.83682	2.682	64.37	-3.8	-2.1
					OFF	34	8.4294	8.83623	2.698	64.75	-3.8	-2.8
97	2	1	14	5	6 ON	2521	8.3928	8.83388	2.463	59.12	-3.8	-2.9
					OFF	36	8.3874	8.83268	2.434	58.41	-3.8	-2.9

98	2	1	15	5	6	ON	985	0.3486	0.02874	2.148	51.37	-3.8	-8.6
						OFF	46	0.3454	0.02914	2.178	52.08	-3.8	-8.3
99	4	1	28	5	6	ON	1168	0.3713	0.03133	2.333	56.88	-3.8	-6.3
						OFF	76	0.3821	0.03224	2.481	57.62	-3.8	-5.3
101	2	1	22	5	6	ON	1155	0.3787	0.03128	2.329	55.91	-3.8	-6.4
						OFF	68	0.3791	0.03199	2.382	57.17	-3.8	-5.6
102	3	1	26	5	6	ON	1116	0.3648	0.03078	2.292	55.81	-3.8	-7.1
						OFF	71	0.3749	0.03163	2.356	56.54	-3.8	-6.8
104	6	1	61	5	6	ON	1481	0.4146	0.03498	2.685	62.52	-3.8	-2.8
						OFF	143	0.4288	0.03612	2.689	64.55	-3.8	-2.2
105	7	0	13	5	6	ON	158	0.2858	0.02412	1.796	43.18	-3.8	-12.8
						OFF	46	0.2878	0.02422	1.883	43.28	-3.8	-12.3
105	7	1	59	5	6	ON	1536	0.4284	0.03547	2.641	63.39	-3.8	-2.5
						OFF	137	0.4316	0.03642	2.712	65.88	-3.8	-2.1
106	4	1	41	5	6	ON	1338	0.3958	0.03348	2.487	59.69	-3.8	-4.2
						OFF	183	0.4886	0.03447	2.567	61.61	-3.8	-3.3
107	3	1	46	5	6	ON	1327	0.3955	0.03337	2.485	59.63	-3.8	-4.2
						OFF	113	0.4895	0.03456	2.573	61.76	-3.8	-3.2
109	3	1	109	5	6	ON	2283	0.4288	0.03558	2.644	63.45	-3.8	-2.6
						OFF	263	0.3898	0.03282	2.444	58.65	-3.8	-3.3
111	3	0	16	5	6	ON	1627	0.4285	0.03616	2.692	64.62	-3.8	-2.2
						OFF	39	0.4311	0.03638	2.789	65.81	-3.8	-2.2
113	3	0	26	5	6	ON	1685	0.4326	0.03658	2.718	65.24	-3.8	-2.1
						OFF	61	0.4359	0.03678	2.739	65.73	-3.8	-2.8
114	3	0	80	5	6	ON	12	0.2841	0.02397	1.785	42.84	-3.8	-4.4
						OFF	48	0.2841	0.02397	1.785	42.84	-3.8	-5.1

RAMP PROFILE

R= 6 A= 7 PERIOD= 3800
R= 0.3625 A= 0.8658

TUR	PER	CPS	ANG V
00	3.361	0.2975	0.02691
100	3.354	0.2982	0.02697
200	3.331	0.3082	0.02715
300	3.295	0.3235	0.02745
400	3.246	0.3381	0.02786
500	3.187	0.3538	0.02838
600	3.128	0.3705	0.02899
700	3.048	0.3881	0.02967
800	2.973	0.4064	0.03042
900	2.896	0.4252	0.03123
1000	2.821	0.4445	0.03206
1100	2.745	0.4643	0.03295
1200	2.665	0.4847	0.03387
1300	2.573	0.5056	0.03481
1400	2.583	0.5271	0.03574
1500	2.444	0.5491	0.03678
1600	2.399	0.5716	0.03771
1700	2.366	0.5947	0.03863
1800	2.346	0.6183	0.03956

1900	2.339	0.4275	0.03867
2000	2.346	0.4263	0.03856
2100	2.366	0.4227	0.03823
2200	2.399	0.4169	0.03771
2300	2.444	0.4091	0.03700
2400	2.503	0.3995	0.03614
2500	2.573	0.3886	0.03515
2600	2.655	0.3767	0.03407
2700	2.745	0.3643	0.03295
2800	2.821	0.3545	0.03206
2900	2.896	0.3452	0.03123
3000	2.973	0.3364	0.03042
3100	3.048	0.3281	0.02967
3200	3.120	0.3205	0.02899
3300	3.187	0.3138	0.02838
3400	3.246	0.3081	0.02786
3500	3.295	0.3035	0.02745
3600	3.331	0.3002	0.02715
3700	3.354	0.2982	0.02697
3800	3.361	0.2975	0.02691

RAMP PROFILE

R= 6 A= 6 PERIODS = 3000
RE 0.3625 AE 0.0010

TUR	PER	CPS	ANG V
0	3.552	0.2815	0.02546
100	3.542	0.2823	0.02554
200	3.518	0.2849	0.02576
300	3.468	0.2898	0.02614
400	3.393	0.2947	0.02665
500	3.314	0.3018	0.02729
600	3.224	0.3101	0.02805
700	3.129	0.3196	0.02891
800	3.031	0.3300	0.02984
900	2.933	0.3418	0.03084
1000	2.837	0.3525	0.03188
1100	2.742	0.3647	0.03299
1200	2.638	0.3802	0.03439
1300	2.531	0.3958	0.03573
1400	2.447	0.4087	0.03696
1500	2.378	0.4206	0.03804
1600	2.324	0.4303	0.03892
1700	2.285	0.4375	0.03957
1800	2.262	0.4428	0.03998
1900	2.255	0.4435	0.04011
2000	2.262	0.4428	0.03998
2100	2.285	0.4375	0.03957
2200	2.324	0.4303	0.03892
2300	2.378	0.4206	0.03804
2400	2.447	0.4087	0.03696
2500	2.531	0.3958	0.03573

2600	2.630	0.3802	0.03439
2700	2.742	0.3647	0.03299
2800	2.837	0.3525	0.03188
2900	2.933	0.3410	0.03084
3000	3.031	0.3300	0.02984
3100	3.129	0.3196	0.02891
3200	3.224	0.3101	0.02805
3300	3.314	0.3010	0.02729
3400	3.393	0.2947	0.02665
3500	3.468	0.2890	0.02614
3600	3.510	0.2849	0.02576
3700	3.542	0.2823	0.02554
3800	3.552	0.2815	0.02546

RAMP PROFILE

R= 5 A= 7 PERIOD= 3800
R= 0.3780 A= 0.0650

TUR	PER	CPS	ANG V
0	3.195	0.3130	0.02831
100	3.188	0.3137	0.02837
200	3.168	0.3157	0.02855
300	3.135	0.3190	0.02885
400	3.090	0.3236	0.02927
500	3.037	0.3293	0.02978
600	2.976	0.3360	0.03039
700	2.911	0.3436	0.03100
800	2.842	0.3519	0.03163
900	2.772	0.3607	0.03263
1000	2.703	0.3700	0.03346
1100	2.633	0.3798	0.03435
1200	2.558	0.3922	0.03547
1300	2.475	0.4041	0.03655
1400	2.409	0.4150	0.03754
1500	2.355	0.4246	0.03848
1600	2.313	0.4324	0.03911
1700	2.282	0.4382	0.03963
1800	2.263	0.4418	0.03996
1900	2.257	0.4430	0.04007
2000	2.263	0.4418	0.03996
2100	2.282	0.4382	0.03963
2200	2.313	0.4324	0.03911
2300	2.355	0.4246	0.03848
2400	2.409	0.4150	0.03754
2500	2.475	0.4041	0.03655
2600	2.558	0.3922	0.03547
2700	2.633	0.3798	0.03435
2800	2.703	0.3700	0.03346
2900	2.772	0.3607	0.03263
3000	2.842	0.3519	0.03163
3100	2.911	0.3436	0.03100
3200	2.976	0.3360	0.03039

3300	3.037	0.3293	0.02978
3400	3.090	0.3236	0.02927
3500	3.135	0.3190	0.02885
3600	3.168	0.3157	0.02855
3700	3.188	0.3137	0.02837
3800	3.195	0.3130	0.02831

RAMP PROFILE

R= 5 A= 6 PERIODS 3800
R= 0.3700 A= 0.0010

TUR	PER	CPS	ANG V
000	3.367	0.2970	0.02686
100	3.357	0.2970	0.02694
200	3.329	0.3004	0.02717
300	3.284	0.3045	0.02754
400	3.224	0.3102	0.02806
500	3.152	0.3173	0.02870
600	3.071	0.3256	0.02945
700	2.984	0.3351	0.03031
800	2.895	0.3455	0.03125
900	2.805	0.3565	0.03224
1000	2.718	0.3680	0.03328
1100	2.630	0.3802	0.03439
1200	2.527	0.3957	0.03579
1300	2.436	0.4105	0.03713
1400	2.350	0.4242	0.03836
1500	2.293	0.4361	0.03944
1600	2.243	0.4458	0.04032
1700	2.207	0.4530	0.04098
1800	2.186	0.4575	0.04138
1900	2.179	0.4590	0.04151
2000	2.186	0.4575	0.04138
2100	2.207	0.4530	0.04098
2200	2.243	0.4458	0.04032
2300	2.293	0.4361	0.03944
2400	2.350	0.4242	0.03836
2500	2.436	0.4105	0.03713
2600	2.527	0.3957	0.03579
2700	2.630	0.3802	0.03439
2800	2.718	0.3680	0.03328
2900	2.805	0.3565	0.03224
3000	2.895	0.3455	0.03125
3100	2.984	0.3351	0.03031
3200	3.071	0.3256	0.02945
3300	3.152	0.3173	0.02870
3400	3.224	0.3102	0.02806
3500	3.284	0.3045	0.02754
3600	3.329	0.3004	0.02717
3700	3.357	0.2970	0.02694
3800	3.367	0.2970	0.02686

CLOCK SUMMARY

SYS TIME I/P		ORDER FIT 1 CL TIME I/P		COMP SYS TM	DELTA ST	REV	STA
0.24524853D	05	0.132243629D	06	0.245248458D	05	0.0080	7
0.74548788D	05	0.182267567D	06	0.745487881D	05	-0.0001	16
0.29483841D	05	0.223681889D	06	0.294838344D	05	0.0066	24
0.73999388D	05	0.268118159D	06	0.739993898D	05	-0.0098	32
0.28875898D	05	0.389394665D	06	0.288758993D	05	-0.0013	48
0.73339553D	05	0.353858326D	06	0.733395649D	05	-0.0119	48
0.28251958D	05	0.395178722D	06	0.282519632D	05	-0.0072	56
0.72738588D	05	0.439657333D	06	0.727385888D	05	0.0072	64
0.27598628D	05	0.488989378D	06	0.275986228D	05	0.0068	72
0.77372438D	05	0.538691191D	06	0.773724482D	05	-0.0182	81
0.26916173D	05	0.297639958D	05	0.269161679D	05	0.0051	88
0.31843793D	05	0.346916168D	05	0.318437894D	05	0.0036	89
0.76688633D	05	0.795284498D	05	0.766886271D	05	0.0059	97
0.26146943D	05	0.115394762D	06	0.261469438D	05	-0.0008	104
0.75723678D	05	0.164971493D	06	0.757236799D	05	-0.0019	113

AB=-0.1877187977D 06 A13 0.188888818352D 01

SIGMA=0.00639 NO. POINTS= 15

RATIO OF CLOCK TIME TO SYS TIME= 0.999999896477D 00

SYS TIME I/P		ORDER FIT 2 CL TIME I/P		COMP SYS TM	DELTA ST	REV	STA
0.24524853D	05	0.132243629D	06	0.245248486D	05	0.0044	7
0.74548788D	05	0.182267567D	06	0.745487899D	05	-0.0019	16
0.29483841D	05	0.223681889D	06	0.294838349D	05	0.0061	24
0.73999388D	05	0.268118159D	06	0.739993884D	05	-0.0084	32
0.28875898D	05	0.389394665D	06	0.288758979D	05	0.0001	48
0.73339553D	05	0.353858326D	06	0.733395638D	05	-0.0100	48
0.28251958D	05	0.395178722D	06	0.282519638D	05	-0.0058	56
0.72738588D	05	0.439657333D	06	0.727385786D	05	0.0094	64
0.27598628D	05	0.488989378D	06	0.275986282D	05	0.0078	72
0.77372438D	05	0.538691191D	06	0.773724478D	05	-0.0098	81
0.26916173D	05	0.297639958D	05	0.269161674D	05	0.0056	88
0.31843793D	05	0.346916168D	05	0.318437898D	05	0.0048	89
0.76688633D	05	0.795284498D	05	0.766886278D	05	0.0052	97
0.26146943D	05	0.115394762D	06	0.261469456D	05	-0.0026	104
0.75723678D	05	0.164971493D	06	0.757236836D	05	-0.0056	113

AB=-0.1877187874D 06 A13 0.188888884347D 01

A2= 0.7287126638633D-13

SIGMA=0.00612 NO. POINTS= 15

CLOCK OPERATIONS

FWD PAN CAMERA NUMBER 198

OPN NO	FR		H	M	S	DEC	BINARY
2 4 8	13	ON	23	44	31	186798	00110010111010111110001110000
		OFF	23	45	11	186838	00110010111100001100010110000
4 7 1	33	ON	2	48	25	117343	00110111111010000011000110000

			OFF	2	41	59	117437	00110111111111111001001001000	
4	7	2	16	ON	3	2	28	118666	0011000100101011001100010000
			OFF	3	3	10	118708	0011000100110101011100100000	
8	3	8	12	ON	8	19	48	137706	0100000101010001101000010000
			OFF	8	20	34	137752	0100000101010111010111000000	
8	3	1	46	ON	8	42	47	139806	01000010010100100100010110000
			OFF	8	44	45	139204	01000010011000001010110100000	
11	6	1	41	ON	13	17	2	155541	01001010001010101111000001000
			OFF	13	18	38	155637	0100101000110101010100001000	
13	3	1	40	ON	16	24	38	166796	0100111100010001101011100000
			OFF	16	26	16	166894	0100111100101001100110110000	
14	3	8	16	ON	17	40	9	171320	010100010101100100000100000000
			OFF	17	40	49	171368	01010001010110101110010000000	
16	3	8	20	ON	20	40	46	182165	0101011010111001110000001000
			OFF	20	41	36	182215	0101011011000110000101011000	
20	7	1	21	ON	2	31	21	203200	0110000011001001011000000000
			OFF	2	32	19	203250	0110000011010111100010010000	
20	7	2	34	ON	2	33	12	203310	01100000111100100001110110000
			OFF	2	34	39	203397	0110000011111001011110001000	
22	4	1	71	ON	5	33	15	214113	01100110000110001101011101000
			OFF	5	36	11	214289	01100110001011100101001101000	
22	4	2	40	ON	5	39	31	214409	01100110010001101011110101000
			OFF	5	41	24	214602	01100110010101001000100010000	
23	4	1	47	ON	7	1	4	219383	011010001001110000100110111000
			OFF	7	3	3	219502	0110100010101010101010110000	
23	4	2	14	ON	7	4	56	219614	01101000101110000101100110000
			OFF	7	5	30	219648	011010001011100100000000000000	
24	8	1	16	ON	8	24	42	224401	01101011000000001011001101000
			OFF	8	25	27	224446	01101011000001100011000110000	
24	8	2	40	ON	8	34	18	224976	01101011010001101110010000000
			OFF	8	35	57	225075	011010110101000101111100111000	
25	6	1	39	ON	9	50	48	230047	0110101101100011110100011000
			OFF	10	0	32	230151	0110101101111101001101011000	
25	6	2	14	ON	10	1	49	230227	0110101110001111110000111000
			OFF	10	2	24	230262	0110101110011000010011110000	
26	5	1	15	ON	11	24	23	235102	0111000000101001011101100000
			OFF	11	25	6	235225	01110000001010011111110101000	
26	5	2	72	ON	11	20	12	235411	0111000001000000101000111000
			OFF	11	31	16	235595	01110000010101110010011111000	
29	9	1	46	ON	16	15	4	252623	0111100001101011100010011000
			OFF	16	16	57	252736	011110001000001110010000000000	
31	2	1	25	ON	19	0	17	262536	0111101001011111011010000000
			OFF	19	1	17	262596	0111101001011100101101000000	
32	5	8	22	ON	20	30	31	267900	0111111110001001011101100000
			OFF	20	31	25	268004	0111111110010101010101000000	
36	2	1	12	ON	2	18	47	200046	1000100101011011100001011000
			OFF	2	19	24	200083	1000100111000000000001011000	
36	2	2	12	ON	2	21	34	209012	1000100111001111110001000000
			OFF	2	22	0	209046	1000100111010011111101111000	
37	7	1	21	ON	3	52	54	294492	1000100011011001011101100000
			OFF	3	53	50	294540	1000100011100111001000100000	

37	7	2	15	ON	4	14	9	295768	1000110100001000011111100000
				OFF	4	14	49	295888	1000110100001101010000000000
38	6	1	55	ON	5	26	26	300105	1000111100011001111010010100
				OFF	5	28	34	300233	1000111100101001100010010100
38	6	2	55	ON	5	29	26	300284	1000111100101111110000110000
				OFF	5	31	33	300411	1000111100111111010000111100
39	6	1	34	ON	6	51	29	305208	1001000110001000110101100000
				OFF	6	52	56	305295	1001000110010011011101001100
39	6	2	49	ON	6	56	32	305511	1001000110101101111010010100
				OFF	6	58	25	305624	1001000110110111001111000000
40	7	1	65	ON	8	20	42	310561	1001010000010110010001110100
				OFF	8	23	24	310723	1001010000101010000011011100
41	4	1	77	ON	9	48	53	315852	10010101001110001001110000
				OFF	9	52	9	316048	10010101011010000010100000
43	3	1	49	ON	12	56	33	327111	1001011111111010100010101100
				OFF	12	58	25	327223	1001110000001000001011011000
45	9	1	47	ON	16	10	19	330737	1010000110001011011010101000
				OFF	16	12	25	330863	1010000110010101000110011000
48	5	1	36	ON	20	20	7	353725	1010100010101010101010001000
				OFF	20	21	32	353810	1010100010110101101100101000
54	2	1	56	ON	5	18	47	386045	10111000000101001010001001000
				OFF	5	20	55	386173	10111000001001000100001001000
56	6	1	13	ON	8	11	3	396382	101110100000010011100110000
				OFF	8	11	38	396417	1011101000000101011111101000
56	6	2	13	ON	8	12	12	396451	1011101000000101110010111000
				OFF	8	12	47	396486	1011101000001111001010111000
56	6	3	18	ON	8	15	57	396675	1011101001001100011110111000
				OFF	8	16	42	396720	1011101001010111011110000000
57	3	1	70	ON	9	38	9	401607	1011111110000000001001010100
				OFF	9	41	24	401802	1011111110011000000100010000
59	2	1	34	ON	12	30	7	412405	110001001010011001100001000
				OFF	12	39	34	412492	1100010010110001000001110000
64	2	1	40	ON	20	9	8	439467	1101000110001101110111111000
				OFF	20	10	41	439560	1101000110011001001110100000
67	3	1	20	ON	0	20	37	455035	1101000111101000100001111000
				OFF	0	29	54	455112	1101000110000001110101010000
68	5	1	10	ON	2	16	44	461522	1101100000100100010001010000
				OFF	2	17	8	461546	1101100000101010001000100000
68	5	2	13	ON	2	20	42	461761	1101100000101110100111101000
				OFF	2	21	15	461794	1101100000110011010101101000
69	6	1	12	ON	3	40	23	467022	11011101010001100010110000
				OFF	3	40	55	467054	1101110101010101010101101000
69	6	2	18	ON	3	52	36	467275	1101110110100000100111111000
				OFF	3	53	26	467325	1101110110101101000001001000
70	6	1	29	ON	4	55	37	471056	11100000100110111101000000
				OFF	4	56	50	471137	111000001001111101011101000
70	6	2	24	ON	4	59	14	471273	1110000010110000111000101000
				OFF	5	0	18	471337	1110000011000000010000010100
70	6	3	26	ON	5	7	50	471709	1110000011110111011011100100
				OFF	5	8	50	471849	1110000011111101100000101000
72	2	1	13	ON	0	0	2	482121	111001011100100101010101000

73	3	1	51	OFF	8	8	36	482155	1100101111010001100111111000
				ON	9	28	18	487416	11010000110101000011000000
74	8	1	14	OFF	9	30	25	487543	11010000111010100001101100
				ON	10	52	22	492461	110101011010010110111001000
				OFF	10	53	2	492581	1101010110101111100000001000
74	8	2	13	ON	10	55	22	492640	11010101101000101110000000
				OFF	10	55	58	492676	1101010110101101000111010000
74	8	3	13	ON	10	57	20	492759	1101010111101110011111011000
				OFF	10	57	55	492794	110101011110111000010010000
74	8	4	48	ON	10	58	59	492858	1101011000000110101010010000
				OFF	11	8	39	492958	1101011000011111000100110000
77	6	1	13	ON	15	22	40	508678	1110010100011100111101110000
				OFF	15	23	16	508714	111001010010010111000010000
77	6	2	9	ON	15	39	25	509684	1110011000010001010010010000
				OFF	15	39	48	509707	1110011000011000001011111000
77	6	3	15	ON	15	42	59	509890	1110011000100110101010001000
				OFF	15	43	38	509937	1110011000101000001010110100
80	5	1	16	ON	19	58	35	525234	1111010011100110111101010000
				OFF	19	59	13	525272	1111010011110000001111000000
81	7	0	15	ON	21	28	13	530612	1111101000000111111100100000
				OFF	21	28	49	530648	1111101000010000101111000000
82	4	1	33	ON	22	43	51	535150	1111111001011011110110110000
				OFF	22	45	29	535248	1111111001110011110100000000
85	7	1	31	ON	3	36	12	15820	0000111100010110010111000000
				OFF	3	37	29	15897	0000111100101001000110101000
85	7	2	19	ON	3	40	54	16102	0000111101011011001001110000
				OFF	3	41	44	16152	0000111101100111010111000000
86	2	1	55	ON	4	54	45	20532	0000100111001010010110010000
				OFF	4	56	51	20658	0000100111010011011101010000
87	2	1	13	ON	6	21	38	25746	0001100010001101110100101000
				OFF	6	22	10	25770	0001100010010101011101010000
88	3	1	48	ON	7	47	20	30808	0001110101110101000010000000
				OFF	7	49	17	31005	0001110110010001100101001000
89	2	1	13	ON	9	18	17	36345	0001000101010001001010101000
				OFF	9	18	51	36379	00010001010110001100101111000
90	3	1	34	ON	10	38	0	41120	0001001110011100100001000000
				OFF	10	39	30	41226	0001001110101000011110001000
90	3	2	77	ON	10	45	51	41598	0001001111010101111000011000
				OFF	10	46	56	41703	00010011111011000111011011000
91	3	1	35	ON	12	14	4	46092	0001011001011100000111110000
				OFF	12	15	32	46900	0001011001100110110111010000
93	9	1	19	ON	15	28	5	50533	0001011111010001010010001000
				OFF	15	28	50	50578	0001011111011101010001010000
93	9	2	15	ON	15	31	17	50725	00011000000000100101010001000
				OFF	15	31	56	50764	0001100000001010101011000000
93	9	3	18	ON	15	35	31	50970	0001100000111110111011010000
				OFF	15	36	20	50927	0001100000101010111000111000
94	9	1	70	ON	16	56	42	63050	0001111001110010001100001000
				OFF	16	59	43	64031	0001111000100010001000110000
95	7	0	14	ON	18	16	0	60616	0010000010101111111101000000
				OFF	18	16	42	60650	0010000010111100001000010000

97	2	1	14	ON	21	29	47	88235	00100110010000100100111111000
				OFF	21	30	23	88271	00100110010001101011010011000
98	2	1	15	ON	22	32	5	83972	00101000000000100011111010000
				OFF	22	32	51	84818	00101000000010000000101010000
99	4	1	28	ON	8	5	32	89579	0010101010101011011011011111000
				OFF	8	6	48	89655	001010101100000000001101101000
181	2	1	22	ON	3	3	52	188279	00101111110100010001011011000
				OFF	3	4	52	188339	00101111110110000011010011000
182	3	1	26	ON	4	32	22	185598	0011001001010001011011110000
				OFF	4	33	33	185661	00110010011000100001001001000
184	6	1	61	ON	7	36	53	116668	0011011101000001011100100000
				OFF	7	39	16	116883	0011011101100100010110111000
185	7	8	13	ON	8	44	1	128689	0011001100011001000101101000
				OFF	8	44	47	128735	00110011000100100010100011000
185	7	1	59	ON	9	6	59	122867	0011010001101001100000111000
				OFF	9	9	16	122284	0011010010000101011110110000
186	4	1	41	ON	18	32	45	127213	0011100010101000111011001000
				OFF	18	34	28	127316	0011100010101011000000100000
187	3	1	46	ON	12	1	53	132561	0011111001101011100001010000
				OFF	12	3	46	132674	0011111010000111000111010000
189	3	1	118	ON	15	16	42	144228	0100010011000100011110110000
				OFF	15	28	35	144483	01000100111001010100010111000
111	3	8	16	ON	18	3	38	154266	0100100110001111010101001000
				OFF	18	4	47	154385	01001001100101000000111101000
113	3	8	26	ON	21	2	57	165823	0100110101100001010011101000
				OFF	21	3	58	165886	0100110101110000001100110000
114	3	8	88	ON	21	57	35	168382	010000001000000101010110000
				OFF	21	58	23	168358	01000000100011010001010000

CLOCK OPERATIONS

AFT PAN CAMERA NUMBER : 191									
OPN NO	FR	H	M	S	DEC	BINARY			
2	4	8	13	ON	23	44	43	186882	0011001011101101010101010000
				OFF	23	45	23	186842	00110010111100100011110010000
4	7	1	33	ON	2	48	37	117356	0011011111110101101011110000
				OFF	2	42	11	117458	00110000000000010010100010000
4	7	2	16	ON	3	2	48	118679	0011000100101110001011011000
				OFF	3	3	22	118721	0011000100110001001111010100
8	3	8	12	ON	8	28	8	137719	0100000101010101010101010100
				OFF	8	28	46	137765	0100000101100010000010001000
8	3	1	46	ON	8	42	59	139898	0100010010100111011110010000
				OFF	8	44	57	139216	0100010011000100010010000000
11	6	1	41	ON	13	17	14	155553	0100100010100011001101101000
				OFF	13	18	58	155649	010010001110000001111101000
13	3	1	39	ON	16	24	58	166889	0100111100010100101010101000
				OFF	16	26	28	166987	0100111100010100110001111000
14	3	8	15	ON	17	48	21	171348	0101000110110011100001110000
				OFF	17	41	1	171388	0101000110110000110101000000
16	3	8	28	ON	28	48	58	182177	0101101010111000110011101000
				OFF	28	41	48	182227	010110101101010000000111000

28	7	1	21	ON	2	31	33	283213	01100000111001100100011001000
				OFF	2	32	31	283271	0110000011101101010101011000
28	7	2	34	ON	2	33	24	283323	01100000111100111011001111000
				OFF	2	34	51	283418	0110000011111110010101010000
22	4	1	71	ON	5	33	27	214126	01100110000110100110110110000
				OFF	5	36	23	214382	01100110001011111110100110000
22	4	2	48	ON	5	39	43	214582	011001100100100000101001110000
				OFF	5	41	36	214615	011001100101011000001110110000
23	4	1	47	ON	7	1	16	219395	01101000100111010011101110000
				OFF	7	3	15	219514	0110100010101100001010010000
23	4	2	14	ON	7	5	8	219627	01101000101100011101111110000
				OFF	7	5	42	219661	011010001011111000010110010000
24	8	1	15	ON	8	24	54	224413	011010110000001000101010010000
				OFF	8	25	39	224458	01101011000001111010100010000
24	8	2	48	ON	8	34	38	224989	011010110101010000111010010000
				OFF	8	36	9	225088	011010110101010100100100000000
25	6	1	39	ON	9	59	8	238859	0110110110110011010101111110000
				OFF	18	8	44	238163	0110110111000000000000001110000
25	6	2	14	ON	18	2	1	238248	011011011100100101111000000000
				OFF	18	2	36	238275	0110110111001101010111101110000
26	5	1	15	ON	11	24	35	235194	01110000001001100011010010000
				OFF	11	25	18	235237	011100000010101101110100010000
26	5	2	72	ON	11	28	24	235423	011100000100001000101000110000
				OFF	11	31	28	235687	011100000101100010011110110000
29	9	1	46	ON	16	15	16	252635	011110000111011100111011110000
				OFF	16	17	9	252748	011110001000010100000111000000
31	2	1	25	ON	19	8	29	262548	011111010011000101000100000000
				OFF	19	1	29	262688	011111010011100010100100000000
32	5	8	22	ON	28	38	43	267962	011111111100011000110100100000
				OFF	28	31	37	268816	011111111100110011001100000000
36	2	1	13	ON	2	18	59	288858	100010011011110011111100100000
				OFF	2	19	36	288895	1000100111000001100000000110000
36	2	2	12	ON	2	21	46	289825	100010011101000101011111010000
				OFF	2	22	28	289859	100010011101010110000101110000
37	7	1	21	ON	3	53	6	294585	100011000110111001010001010000
				OFF	3	54	2	294561	100011000111010100010110100000
37	7	2	15	ON	4	14	21	295788	100011010000100111110101000000
				OFF	4	15	1	295828	100011010000111011010111000000
38	6	1	55	ON	5	26	38	388117	100011110001101101010000001000
				OFF	5	28	46	388245	100011110010101100000000001000
38	6	2	56	ON	5	29	38	388297	100011110011000101011001010000
				OFF	5	31	45	388424	100011110100000011011010000000
39	6	1	34	ON	6	51	41	385228	100100011000101001011010000000
				OFF	6	53	8	385387	100100011001010011101011110000
39	6	2	49	ON	6	56	44	385523	100100011010111101010101110000
				OFF	6	58	37	385636	100100011011101000101010000000
48	7	1	65	ON	8	28	54	318573	100101000001011110111110010000
				OFF	8	23	36	318735	100101000010101100001001100000
41	4	1	77	ON	9	49	5	315864	100101100011011001111100000000
				OFF	9	52	21	316868	100101101011010110001011000000
43	3	1	49	ON	12	56	45	327124	100101111111100001000100000000

45	9	1	47	OFF	12	58	37	327236	1001110000001001110011010000
				ON	16	18	31	338750	1010000110000111010100011000
				OFF	16	12	37	338876	1010000110010111010110011000
48	5	1	36	ON	28	28	19	353738	10101000101011011011010000
				OFF	28	21	44	353823	1010100010110111010100011000
54	2	1	56	ON	5	18	59	386058	1011100000010110001110001000
				OFF	5	21	7	386186	1011100000100101110110001000
56	6	1	14	ON	8	11	15	396394	1011110100000011111100001000
				OFF	8	11	58	396429	10111101000010000011011001000
56	6	2	14	ON	8	12	24	396463	10111101000011000101110011000
				OFF	8	12	59	396498	1011110100010000101001010000
56	6	3	19	ON	8	16	9	396688	10111101001001111101010000000
				OFF	8	16	54	396733	101111010010101010101001001000
57	3	1	78	ON	9	38	21	481628	10111111100000011110000100000
				OFF	9	41	36	481815	10111111100110011010111011000
59	2	1	34	ON	12	38	19	412418	11000100101001111111111010000
				OFF	12	39	46	412505	11000100101100101001110101000
64	2	1	48	ON	28	9	28	439479	11010001100011110101011011000
				OFF	28	18	53	439572	11010001100110101011000100000
67	3	1	28	ON	8	28	49	455047	11011000111110111011101011000
				OFF	8	30	6	455124	11011001000001010010000100000
68	5	1	9	ON	2	16	56	461535	11011100000100111011100011000
				OFF	2	17	28	461559	11011100000101101010011011000
68	5	2	12	ON	2	28	54	461773	11011100001100001100011001000
				OFF	2	21	27	461806	11011100001101000110011011000
69	6	1	12	ON	3	48	35	467034	11011110101100101111110010000
				OFF	3	49	7	467066	11011110101101101110010010000
69	6	2	18	ON	3	52	48	467287	11011110110100011101110110000
				OFF	3	53	38	467337	11011110110101111111100010000
78	6	1	29	ON	4	55	49	471060	11100000100111110110101100000
				OFF	4	57	10	471149	111000001010100010100111001000
78	6	2	25	ON	4	59	26	471285	11100000101110011110100001000
				OFF	5	8	38	471349	11100000110000011011100001000
78	6	3	26	ON	5	8	2	471801	11100000111110001110010101000
				OFF	5	9	2	471861	11100001000000000001100001000
72	2	1	13	ON	8	8	14	482133	11100101111001100010000001000
				OFF	8	8	48	482167	11100101111010100100011011000
73	3	1	51	ON	9	28	38	487429	11101000011011001001110001000
				OFF	9	38	37	487556	11101000011111000001110100000
74	8	1	14	ON	18	52	34	492473	11101010110101000101010101000
				OFF	18	53	14	492513	111010101101100100011011101000
74	8	2	14	ON	18	55	34	492653	111010101110101001000111001000
				OFF	18	56	18	492689	11101010111011101011001101000
74	8	3	14	ON	18	57	32	492771	1110101011111000101010111000
				OFF	18	58	7	492806	11101010111111001111101110000
74	8	4	41	ON	18	59	11	492878	11101011000001001100101110000
				OFF	11	8	51	492978	111010110001000100000000010000
77	6	1	13	ON	15	22	52	506691	11110101001000000001000110000
				OFF	15	23	28	506727	11110101010101000111110110000
77	6	2	9	ON	15	39	37	509696	11110110000101011000000000000
				OFF	15	48	8	509719	11110110000110110001110110000

77	6	3	15	ON	15	43	11	589918	1111001100100100110111110000
				OFF	15	43	58	589949	1111001100100100110001001000
88	5	1	16	ON	19	58	47	525246	11111010011101001111000110000
				OFF	19	59	25	525284	1111101001110011001010100000
81	7	8	15	ON	21	28	25	530624	1111110100000101011100000000
				OFF	21	29	1	530660	111111010000010011101010100000
82	4	1	33	ON	22	44	3	535162	1111111100101111011010010000
				OFF	22	45	41	535260	111111110011101101010101100000
85	7	1	31	ON	3	36	24	15832	0000011110001100100111100000
				OFF	3	37	41	15989	00000111100101100000010001000
85	7	2	19	ON	3	41	6	16114	00000111101011110000101010000
				OFF	3	41	56	16164	00000111101101010100010010000
86	2	1	55	ON	4	54	57	28545	00001001110010111110111101000
				OFF	4	57	3	28671	0000100111011010101000011000
87	2	1	13	ON	6	21	58	25759	0000100010010000110100011000
				OFF	6	22	22	25791	0000100010010000101000011000
88	3	1	48	ON	7	47	32	38988	0000110101110111111100100000
				OFF	7	49	29	31217	00001101100101001000000101000
89	2	1	13	ON	9	18	29	36357	00010001010101100001110001000
				OFF	9	19	3	36391	000100010101101001000001011000
98	3	1	34	ON	18	38	12	41141	000100111001111100001100001000
				OFF	18	39	58	41239	00010011101010100000111011000
98	3	2	77	ON	18	46	3	41611	00010011110101110111011111000
				OFF	18	49	8	41796	000100111110111100000110100000
91	3	1	35	ON	12	14	16	46984	0001010010111011001011000000
				OFF	12	15	44	46992	0001010011010000010101000000
93	9	1	19	ON	15	28	17	58545	000101111101010100101101000
				OFF	15	29	2	58598	0001011111100000001100110000
93	9	2	15	ON	15	31	29	58737	0001100000000100000101101000
				OFF	15	32	8	58776	0001100000000110110011100000
93	9	3	18	ON	15	35	43	58991	0001100001000010000110011000
				OFF	15	36	32	59048	0001100001001110000100000000
94	9	1	78	ON	16	56	54	63862	000111001110011101001111000
				OFF	16	59	55	64043	0001110100010010101111111000
95	7	8	14	ON	18	16	28	68628	0010000010110010111000100000
				OFF	18	16	54	68662	0010000010111011001011110000
97	2	1	14	ON	21	29	59	88247	00100110010000111100011011000
				OFF	21	30	35	88283	00100110010010000010101111000
98	2	1	15	ON	22	32	17	83985	001000000011000001001101000
				OFF	22	33	3	84031	001010000010001011000011000
99	4	1	28	ON	8	5	44	89592	0010101010111000100001100000
				OFF	8	7	8	89668	0010101011000001100101010000
181	2	1	22	ON	3	4	4	188292	0010111110101010101010100000
				OFF	3	5	4	188352	0010111110101000000000000000
182	3	1	26	ON	4	32	34	185682	001100100101010110111101000
				OFF	4	33	45	185673	0011001001100011000100101000
184	6	1	61	ON	7	37	5	116673	0011011101001001001011101000
				OFF	7	39	28	116816	0011011101100111000100000000
185	7	8	13	ON	8	44	13	128781	001100110011100000001001000
				OFF	8	44	59	128747	001100110010011100111111000
185	7	1	59	ON	9	7	11	122879	0011010001101100011100011000

186	4	1	41	OFF	9	9	28	122216	0011101001000110111100100000
				ON	18	32	57	127225	0011100101010100110010101000
				OFF	18	34	48	127328	0011100101101101111100000000
187	3	1	46	ON	12	2	5	132573	0011111001101110011101001000
				OFF	12	3	58	132686	0011111010001010000010110000
189	3	1	189	ON	15	16	24	144232	0100010011000110011100100000
				OFF	15	28	47	144495	01000100111001101000110011000
111	3	8	16	ON	18	3	58	154279	0100100110010000111001011000
				OFF	18	4	29	154318	0100100110010101101001011000
113	3	8	26	ON	21	3	9	165837	0100110101100100001111001000
				OFF	21	4	18	165898	0100110101100110010000100000
114	3	8	88	ON	21	57	47	168315	01010000010000100100001111000
				OFF	21	58	35	168363	01010000010010000000111111000

NOTE - OPERATION 114-3-8 ACTUALLY CONSISTED OF FIVE MORE FRAMES THAN WAS REPORTED. THESE FRAMES WILL BE INCLUDED IN THE B BUCKET.

NOTE - TLM DATA INDICATE NORMAL SYSTEM PERFORMANCE.

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