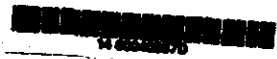


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CORONA J" FLIGHT DAT

BOOK

1035-2

(DAN GEOM #1)

(AFT TAKES CONTROL OF
STELLAR FIRING AT END OF
PASSES)

Declassified and Released by the NRO
In Accordance with E. O. 12958
on NOV 26 1997

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4 PAGES
(NOT INCLUDING PEST)

CORONA J-FLIGHT DATA BOOK

SYSTEM NO. J-36

VEHICLE NO. 1628

MISSION NO. 1035-2

CAMERA NOS. 188/189

DATE 9-30-66

PAGE 1

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SYSTEM NO. J-36
VEHICLE NO. 1628
MISSION NO. 1835-2
CAMERA NOS. 188/189

TABLE OF CONTENTS

PAGE NO.

GENERAL FLIGHT DATA	3
CYCLE PERIOD DATA	4
PERFORMANCE ESTIMATE	5- UP

PAGE 2

~~SECRET~~

SYSTEM NO. J-36
VEHICLE NO. 1628
MISSION NO. 1835-2
CAMERA NOS. 188/189

GENERAL FLIGHT DATA

MASTER CAMERA SERIAL NO. 188

SLAVE CAMERA SERIAL NO. 189

S/I -1 SERIAL NO. D95/112/113

S/I -2 SERIAL NO. D96/184/116

LAUNCH DATE 9-28-66

REACTIVATION DATE N/A

REACTIVATION ORBIT N/A

ORBITAL PARAMETERS (REV. 120)

PERIOD	98.681 MIN	ECCENTRICITY	0.01915
PERIGEE	188.718 NM	PERIGEE LAT.	48.788
APOGEE	238.826 NM	INCL. ANGLE	85.054

RECOVERY ORBIT NO. 162

RECOVERY DATE 9-32-66

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SYSTEM NO. J-36
VEHICLE NO. 1628
MISSION NO. 1835-2
CAMERA NOS. 188/189

CYCLE PERIOD DATA

V/H RAMP SETTING LEVEL AMPLITUDE	TIME UP RAMP-SEC	---CALIBRATED---		---IN-FLIGHT---	
		CYCLE PERIOD-SEC MASTER	SLAVE	CYCLE PERIOD-SEC MASTER	SLAVE
8 2	1925	2.238	2.222	2.387	2.388
7 3	2875	2.229	2.221	2.278	2.282
7 3	2868	2.231	2.223	2.245	2.255
7 3	2128	2.231	2.223	2.278	2.265

NOTE

AN * OR -8 INDICATES NO DATA AVAILABLE.

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A. 1835-2

B. DRY

C. PERFORMANCE ESTIMATE - PART ONE

OPERATIONS SUMMARY

FWD PAN CAMERA NUMBER 188

OPN NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM
72	2	8	42 ON	2 35 18	83 29E	685856	627253	25	7	18	49	1244 25840
			OFF	2 29 6	83 52E	682875	623968	25	7	12	28	1247 25940
72	8	8	3 ON	1 28 58	128 35W	1199918	1244816	25	9	43	27	1 9 35880
			OFF	1 38 21	128 31W	1191413	1235976	25	9	43	58	1 9 35830
76	1	5	72 ON	3 15 37	51 24W	753436	781826	25	16	27	22	13 1 59240
			OFF	3 32 18	52 48W	857287	888839	25	16	38	59	13 7 59450
77	3	1	56 ON	3 1 7	74 34W	674894	699512	25	17	54	31	1256 64470
			OFF	3 12 49	74 19W	725439	751967	25	17	56	53	1259 64610
79	3	2	15 ON	2 33 18	121 23W	683853	624975	25	28	47	32	1241 74850
			OFF	2 32 49	121 14W	682613	624518	25	28	48	6	1243 74880
81	8	8	3 ON	2 59 14	178 27W	654371	678219	25	23	42	24	1228 85340
			OFF	2 57 42	172 3W	649113	672763	25	23	42	48	1222 85360
83	3	2	41 ON	2 65 27	141 49E	676417	781896	26	2	42	18	12 9 9730
			OFF	2 58 31	144 10E	658576	674282	26	2	44	1	1228 9840
84	5	5	48 ON	2 52 48	122 37E	632664	655696	26	4	16	6	1226 15360
			OFF	2 45 9	123 43E	615479	637867	26	4	17	59	1232 15470
85	2	3	3 ON	2 66 49	72 49E	679418	784218	26	7	13	58	12 5 26830
			OFF	2 61 42	74 56E	659456	683495	26	7	15	15	1215 26110
86	2	8	33 ON	2 42 38	72 37E	688663	638795	26	7	28	26	1234 26420
			OFF	2 35 26	79 1E	684623	626683	26	7	21	42	1237 26580
87	2	8	26 ON	2 42 31	55 51E	688581	638627	26	8	51	7	1234 31860
			OFF	2 36 22	56 11E	685176	627177	26	8	52	8	1236 31920
88	8	5	57 ON	2 3 56	34 45E	663949	688155	26	18	38	41	1249 37840
			OFF	3 5 46	34 59E	718456	736417	26	18	33	3	1253 37980
92	8	4	27 ON	3 15 23	55 49W	773886	881339	26	16	38	4	1254 59880
			OFF	3 22 58	55 38W	811345	841139	26	16	39	27	1256 59960
94	1	1	52 ON	2 77 26	119 52W	715684	744959	26	19	16	32	1117 69390
			OFF	2 62 52	119 29W	679567	784364	26	19	18	44	1156 69520
95	2	8	13 ON	2 35 18	125 54W	684412	626384	26	28	57	39	1234 75450
			OFF	2 33 6	125 45W	684459	626433	26	28	58	11	1235 75490
99	4	7	25 ON	3 21 49	144 57E	619832	849949	27	3	13	56	1253 11630
			OFF	3 26 21	145 11E	662936	892621	27	3	15	18	1256 11710
100	6	2	52 ON	2 55 51	117 41E	631828	654828	27	4	25	51	1216 15950
			OFF	2 47 37	119 4E	614823	637186	27	4	27	52	1224 16870
100	6	5	93 ON	2 37 37	121 4E	685429	627448	27	4	38	18	1238 16210
			OFF	2 23 9	122 53E	615689	638881	27	4	33	49	1237 16420
101	4	7	38 ON	2 19 37	98 15E	623232	645986	27	6	5 22	1238 21920	
			OFF	2 14 45	98 25E	635882	659834	27	6	6 31	1248 21990	
102	5	3	61 ON	2 67 15	66 16E	666132	692423	27	7	24 18	1157 26650	
			OFF	2 57 24	71 47E	634885	658881	27	7	26 45	1213 26880	
103	2	5	57 ON	2 53 2	49 57E	623975	646681	27	8	58 27	1218 32380	
			OFF	2 43 57	51 12E	699782	631872	27	9	8 48	1225 32440	
104	4	6	92 ON	3 7 25	32 43E	738176	765187	27	18	43 49	1246 38620	

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			OFF 3 26 8	31 28E	865548	897417	27 18 48	24 1253	38984
185	4 2	33 ON	2 28 15	7 18E	624255	646971	27 12 7	42 1236	43662
		OFF	2 15 8	7 21E	638182	661337	27 12 8	59 1238	43739
187	1 2	23 ON	2 73 51	58 36W	687523	712628	27 14 55	46 1133	53746
		OFF	2 69 57	47 18W	671842	696348	27 14 56	46 1148	53886
188	1 6	83 ON	2 12 35	68 51W	648116	671727	27 16 41	27 1238	68887
		OFF	3 1 3	68 29W	787294	733136	27 16 44	47 1242	68287
189	5 8	19 ON	2 41 27	85 7W	687372	629455	27 18 5	2 1224	65182
		OFF	2 38 24	84 52W	686395	628441	27 18 5	47 1226	65147
118	5 8	17 ON	2 35 32	107 25W	686774	628835	27 19 37	6 1227	78626
		OFF	2 32 48	107 14W	688873	638182	27 19 37	46 1228	78666
115	6 1	68 ON	2 68 24	135 4E	635468	658598	28 3 4	4 12 4	11844
		OFF	2 58 55	137 8E	616888	638498	28 3 6	24 1214	11184
115	4 4	22 ON	3 29 41	141 7E	918843	943622	28 3 26	8 1258	12368
		OFF	3 34 48	141 25E	951483	986582	28 3 27	25 1253	12445
116	5 3	54 ON	2 65 37	119 24E	649523	673189	28 4 33	23 1155	16483
		OFF	2 57 6	113 11E	627892	649915	28 4 35	29 12 8	16529
116	5 7	24 ON	2 23 47	116 39E	622612	645266	28 4 43	37 1238	17817
		OFF	2 19 58	116 48E	631841	654841	28 4 44	35 1231	17875
117	8 3	47 ON	2 63 14	88 37E	641826	665282	28 6 4	35 1159	21875
		OFF	2 55 39	92 45E	623616	646398	28 6 6	27 12 9	21987
117	8 5	94 ON	2 44 34	92 27E	688777	638913	28 6 9	18 1219	22158
		OFF	2 34 3	93 35E	612676	634953	28 6 12	42 1227	22362
118	8 1	28 ON	2 72 21	67 31E	678774	695248	28 7 32	54 1135	27174
		OFF	2 67 45	63 48E	654782	678646	28 7 34	3 1149	27243
118	8 3	62 ON	2 62 57	65 57E	648488	663723	28 7 35	15 1159	27315
		OFF	2 53 19	68 27E	618927	641444	28 7 37	38 1211	27458
119	8 3	76 ON	2 51 34	46 8E	615864	638266	28 9 8	39 1212	32919
		OFF	2 47 1	47 23E	667147	629222	28 9 11	28 1221	33888
119	8 6	69 ON	2 16 25	42 39E	643698	667143	28 9 17	13 1231	33433
		OFF	2 4 51	42 59E	689188	714337	28 9 28	2 1236	33682
122	6 3	52 ON	2 49 39	23 32E	613898	635388	28 18 39	43 1213	38383
		OFF	2 41 27	24 38E	687379	629463	28 18 41	43 1219	38583
121	7 4	41 ON	2 29 53	2 34E	614376	636721	28 12 15	8 1225	44188
		OFF	2 23 27	2 53E	625999	648758	28 12 16	42 1228	44282
122	7 1	27 ON	2 83 39	64 59E	718588	744859	28 13 32	7 912	48727
		OFF	2 79 58	43 5W	697781	723183	28 13 33	19 1848	48799
123	1 1	38 ON	2 82 24	77 16W	789635	735537	28 15 3	9 954	54189
		OFF	2 76 29	58 19W	682112	787825	28 15 4	49 1111	54289
124	8 2	25 ON	2 1 2	64 41W	713573	739652	28 16 53	57 1235	68837
		OFF	3 3 32	64 35W	738718	765748	28 16 55	4 1236	68984
124	8 3	16 ON	3 9 14	64 26W	773826	882198	28 16 56	28 1238	68988
		OFF	3 12 38	64 28W	795294	824476	28 16 57	16 1239	61836
126	6 8	16 ON	2 35 34	111 33W	618836	632219	28 19 46	42 1228	71282
		OFF	2 32 59	111 22W	612433	634735	28 19 47	28 1221	71248
131	2 6	42 ON	2 47 44	133 38E	689892	632871	29 3 16	38 1218	11798
		OFF	2 41 24	134 12E	688343	638462	29 3 18	11 1215	11891
132	2 6	42 ON	2 35 26	111 52E	618987	633122	29 4 49	58 1217	17398
		OFF	2 29 46	112 17E	619268	641796	29 4 51	36 1228	17496
133	2 4	42 ON	2 59 21	85 47E	624182	646897	29 6 14	56 1158	22496
		OFF	2 53 3	87 11E	614415	636763	29 6 16	29 12 5	22589

133	2	6	122	ON	2	46	41	88	8E	689187	631338	29	6	18	2	1218	22682
				OFF	2	27	45	89	38E	623431	646116	29	6	22	39	1221	22959
134	7	1	15	ON	2	74	3	54	43E	662583	686748	29	7	41	58	1128	27718
				OFF	2	71	37	57	6E	654591	678448	29	7	42	27	1138	27747
134	7	4	47	ON	2	57	18	63	33E	628167	642738	29	7	46	8	12	8
				OFF	2	58	4	64	55E	611227	633455	29	7	47	47	12	7
134	7	8	48	ON	2	29	57	66	46E	619833	642383	29	7	52	41	1219	28361
				OFF	2	23	34	67	4E	633538	656681	29	7	54	14	1222	28454
135	9	3	62	ON	2	52	11	41	58E	613816	635311	29	9	17	49	12	5
				OFF	2	43	2	43	3E	688532	638659	29	9	28	3	1212	33683
135	9	6	82	ON	2	16	28	44	36E	656446	688378	29	9	26	34	1224	33994
				OFF	2	2	11	44	59E	719649	745958	29	9	38	2	1238	34282
136	7	2	58	ON	2	55	33	18	27E	616988	639349	29	18	47	34	12	1
				OFF	2	47	45	19	45E	689586	631753	29	18	49	29	12	8
136	7	3	12	ON	2	44	3	28	12E	688635	638766	29	18	58	23	1211	39223
				OFF	2	42	5	28	24E	688814	638951	29	18	58	52	1212	39252
137	4	2	38	ON	2	14	33	8	52E	664815	689854	29	12	28	8	1224	44888
				OFF	2	9	31	8	41W	685754	718783	29	12	29	22	1226	44962
142	8	1	18	ON	2	18	17	68	57W	685351	718364	29	17	8	51	1225	61251
				OFF	2	7	4	68	52W	788258	725825	29	17	1	38	1226	61298
142	8	2	15	ON	2	2	9	68	44W	725517	752848	29	17	2	51	1227	61371
				OFF	3	8	44	68	48W	741769	768915	29	17	3	34	1229	61414
144	8	5	28	ON	3	6	37	68	31W	777479	885983	29	17	5	8	1238	61588
				OFF	3	12	24	68	22W	815988	845959	29	17	6	26	1232	61586
141	5	1	11	ON	2	42	5	93	9E	618782	632918	29	18	24	9	1211	66249
				OFF	2	38	13	93	8E	612858	634316	29	18	24	36	1212	66276
142	5	2	17	ON	2	35	38	115	32W	615222	637688	29	19	55	49	1213	71748
				OFF	2	32	47	115	22W	619826	641546	29	19	56	29	1215	71789
147	2	6	48	ON	2	45	26	129	52E	689531	631695	38	3	26	8	12	5
				OFF	2	37	49	137	33E	614851	636385	38	3	28	8	1218	12488
148	3	3	25	ON	2	55	13	144	53E	617891	639539	38	4	53	33	1153	17613
				OFF	2	54	7	185	47E	612642	634923	38	4	54	33	1157	17673
148	3	5	74	ON	2	44	36	127	11E	689727	631878	38	4	56	53	12	5
				OFF	2	33	8	185	8E	628794	643388	38	4	59	41	1212	17981
148	3	8	39	ON	2	26	31	188	29E	634799	657918	38	5	1	17	1215	18677
				OFF	2	28	2	188	46E	654837	677871	38	5	2	52	1217	18172
149	1	6	61	ON	2	35	2	85	16E	618185	648591	38	6	29	45	1218	23385
				OFF	2	25	21	85	48E	638438	661686	38	6	32	7	1215	23527
152	1	5	72	ON	2	47	18	61	23E	689371	631529	38	7	57	28	12	2
				OFF	2	36	9	62	27E	616835	639273	38	8	8	1	12	9
151	1	4	121	ON	2	58	7	35	41E	615888	638283	38	9	25	11	1151	33911
				OFF	2	39	56	38	24E	612767	635852	38	9	29	38	12	7
151	1	7	82	ON	3	8	35	41	8E	753646	781243	38	9	39	32	1224	34772
				OFF	3	17	42	41	35E	869113	981118	38	9	43	45	1238	35825
152	1	2	65	ON	2	51	58	15	14E	618423	632621	38	18	57	16	1158	39436
				OFF	2	41	58	16	37E	611528	633759	38	18	59	42	12	5
152	1	6	58	ON	2	17	12	18	6E	697295	722759	38	11	7	25	1219	48845
				OFF	2	8	57	18	21E	745868	773171	38	11	9	41	1223	48181
158	6	2	14	ON	2	35	42	119	26E	621148	643747	38	28	4	23	12	6
				OFF	2	33	24	119	17E	625197	647949	38	28	4	56	12	7

OPERATIONS SUMMARY
AFT PAN CAMERA NUMBER 189

CPN NO	FRA	Q	LAT	LONG	HEIGHT	RANGE	DA	H	M	S	LTIM	S-TIM
70	2 8	40 ON	2 35 21	83 26E	604334	626304	25	7	11	1	1244	25861
		OFF	2 29 8	83 48E	602095	623988	25	7	12	32	1247	25952
72	0 0	3 ON	1 28 0	128 45W	1195068	1239775	25	9	43	39	1 8	35019
		OFF	1 29 25	128 41W	1186524	1230893	25	9	44	2	1 9	35042
76	1 5	69 ON	3 15 20	51 28W	758772	786564	25	16	27	34	13 1	59254
		OFF	3 29 52	50 54W	863675	895472	25	16	31	11	13 7	59471
77	3 1	55 ON	3 8 57	74 30W	678774	703539	25	17	54	43	1255	64483
		OFF	3 10 35	74 23W	730344	757057	25	17	57	5	1259	64625
79	3 0	15 ON	2 33 20	121 26W	602007	624719	25	20	47	42	1241	74862
		OFF	2 30 51	121 17W	602664	624571	25	20	48	18	1242	74898
81	0 6	3 ON	2 59 21	170 32W	651493	675233	25	23	42	36	1220	65356
		OFF	2 57 48	170 8W	646370	669917	25	23	43	0	1222	65380
83	3 2	41 ON	2 55 35	141 41E	673089	697642	26	2	42	30	12 9	9750
		OFF	2 50 38	144 5E	647814	671415	26	2	44	13	1220	9853
84	5 5	40 ON	2 52 53	122 33E	630450	653399	26	4	16	18	1226	15378
		OFF	2 45 12	123 39E	614037	636370	26	4	16	11	1232	15491
86	2 3	30 ON	2 66 58	72 41E	676062	702727	26	7	14	10	12 4	26050
		OFF	2 61 47	74 50E	656506	680434	26	7	15	27	1214	26127
86	2 8	34 ON	2 40 40	70 33E	607765	629863	26	7	20	38	1234	26438
		OFF	2 35 20	70 58E	604314	626283	26	7	21	54	1237	26514
87	2 0	26 ON	2 40 34	55 48E	607642	629736	26	8	51	19	1234	31079
		OFF	2 36 25	56 0E	604706	626773	26	8	52	20	1236	31940
88	0 5	56 ON	2 4 5	34 41E	667469	691800	26	10	30	53	1249	37053
		OFF	3 5 33	34 55E	715031	741165	26	10	33	15	1252	37995
92	0 4	27 ON	3 15 5	55 54W	778531	807075	26	16	38	16	1254	59096
		OFF	3 22 36	55 43W	817296	847318	26	16	39	39	1256	59979
94	1 1	50 ON	2 77 30	120 19W	714790	740910	26	19	16	44	1115	69404
		OFF	2 69 1	110 39W	676254	700926	26	19	18	56	1156	69536
95	2 0	13 ON	2 35 20	125 57W	604351	626321	26	20	57	51	1233	75471
		OFF	2 33 0	125 49W	604654	626635	26	20	58	23	1234	75503
99	4 7	25 ON	3 20 27	144 52E	825034	856182	27	3	14	8	1253	11648
		OFF	3 25 55	145 5E	867268	899203	27	3	15	30	1255	11730
100	6 2	51 ON	2 55 56	117 36E	629722	652644	27	4	26	3	1216	15963
		OFF	2 47 40	119 0E	613549	635864	27	4	20	4	1223	16004
100	6 5	03 ON	2 37 40	120 1E	605233	627236	27	4	30	30	1230	16230
		OFF	2 23 13	120 50E	617106	639554	27	4	34	1	1237	16441
101	4 7	30 ON	2 19 41	90 12E	625173	647923	27	6	5	32	1230	21932
		OFF	2 14 50	90 22E	638406	661652	27	6	6	43	1239	22003
102	5 3	61 ON	2 67 23	60 0E	663143	687321	27	7	24	30	1156	26670
		OFF	2 57 29	71 43E	632710	655753	27	7	26	57	1213	26817
103	2 5	57 ON	2 53 4	49 53E	622245	644886	27	8	58	39	1217	32319
		OFF	2 44 0	51 0E	603889	631029	27	9	0	52	1225	32452
104	4 6	01 ON	3 7 10	30 39E	743150	770349	27	10	44	1	1246	38641
		OFF	3 20 33	31 14E	871893	904005	27	10	48	36	1253	38916
105	4 2	33 ON	2 20 19	7 7E	626212	649001	27	12	7	54	1236	43674
		OFF	2 15 6	7 18E	640679	664011	27	12	9	11	1238	43751
107	1 2	24 ON	2 70 1	50 52W	684176	709147	27	14	55	58	1132	53750

			OFF 2 78 5 47 19W	668774	693165	27 14 56 58 1147 53818
188 1 6	82 ON	2 12 42 68 55W	651835	674756	27 16 41 39 1237 68899	
		OFF 3 8 51 62 33W	711786	737715	27 16 44 59 1242 68299	
189 5 8	19 ON	2 41 38 85 11W	686982	629851	27 18 5 14 1224 65114	
		OFF 2 38 26 84 55W	686342	628386	27 18 5 59 1226 65159	
116 5 8	17 ON	2 35 34 187 28W	687867	629139	27 19 37 18 1227 78638	
		OFF 2 32 51 187 17W	688676	638888	27 19 37 58 1228 78678	
115 6 1	61 ON	2 68 29 135 8E	633363	656421	28 3 4 16 12 4 11856	
		OFF 2 58 59 137 4E	614871	637236	28 3 6 36 1214 11196	
115 4 4	22 ON	3 29 9 141 1E	916681	958434	28 3 26 28 1258 12388	
		OFF 3 34 13 141 18E	958118	993555	28 3 27 37 1252 12457	
116 5 3	54 ON	2 65 43 118 17E	647814	678586	28 4 33 35 1154 16415	
		OFF 2 57 11 113 7E	625314	648871	28 4 35 41 12 7 16541	
116 5 7	24 ON	2 23 51 116 35E	624482	647123	28 4 43 49 1238 17829	
		OFF 2 19 56 116 45E	634887	657172	28 4 44 47 1231 17887	
117 8 3	47 ON	2 63 28 88 31E	639537	662827	28 6 4 47 1158 21887	
		OFF 2 55 43 92 41E	621998	644638	28 6 6 39 12 9 21999	
117 8 5	94 ON	2 44 37 92 24E	688268	638376	28 6 9 22 1218 22162	
		OFF 2 38 7 93 32E	613763	636885	28 6 12 54 1226 22374	
118 8 1	28 ON	2 72 29 68 28E	667797	692151	28 7 33 6 1134 27186	
		OFF 2 67 52 65 48E	652153	675917	28 7 34 15 1148 27255	
116 8 3	62 ON	2 63 3 65 52E	638159	661398	28 7 35 27 1158 27327	
		OFF 2 53 22 68 23E	617555	648822	28 7 37 58 1211 27472	
119 8 3	75 ON	2 51 37 45 56E	614686	637844	28 9 8 51 1212 32931	
		OFF 2 42 3 47 28E	627166	629242	28 9 11 42 1228 33182	
119 8 6	69 ON	2 16 31 42 35E	646481	669948	28 9 17 25 1231 33445	
		OFF 2 5 2 48 55E	693158	718465	28 9 28 14 1235 33614	
127 6 3	52 ON	2 49 42 23 29E	612129	634398	28 10 39 55 1213 38395	
		OFF 2 41 38 24 27E	627268	629347	28 10 41 55 1219 38515	
121 7 4	42 ON	2 29 56 2 31E	615576	637967	28 12 15 28 1225 44128	
		OFF 2 23 32 2 49E	627937	652791	28 12 16 54 1228 44214	
122 7 1	27 ON	2 83 47 66 35W	714984	741836	28 13 32 19 9 5 48739	
		OFF 2 52 8 43 39W	694296	719658	28 13 33 31 1238 48811	
123 1 1	39 ON	2 82 33 78 28W	786842	731839	28 15 3 21 949 54281	
		OFF 2 76 38 58 37W	678961	783735	28 15 5 1 1118 54321	
124 8 2	25 ON	2 1 14 64 46W	718821	744269	28 16 54 9 1234 68849	
		OFF 3 3 14 64 39W	743592	772827	28 16 55 16 1236 68916	
124 8 3	16 ON	3 8 56 64 38W	779286	887775	28 16 56 48 1238 61888	
		OFF 3 12 9 64 25W	882938	832327	28 16 57 28 1239 61848	
126 6 2	16 ON	2 35 37 111 36W	612717	632925	28 19 46 54 1228 71214	
		OFF 2 33 2 111 26W	613481	635712	28 19 47 32 1221 71252	
131 2 6	42 ON	2 47 47 133 27E	689424	631564	29 3 16 58 1218 11818	
		OFF 2 41 27 134 9E	628513	632639	29 3 18 23 1214 11983	
132 2 6	42 ON	2 36 38 111 48E	611638	633881	29 4 58 18 1217 17418	
		OFF 2 29 52 112 13E	622739	643323	29 4 51 48 1228 17588	
133 2 4	42 ON	2 59 25 85 42E	622648	645296	29 6 15 8 1157 22588	
		OFF 2 53 6 87 7E	613456	635768	29 6 16 41 12 5 22681	
133 2 6	121 ON	2 46 44 88 5E	688858	638997	29 6 18 14 1218 22694	
		OFF 2 27 58 89 34E	625158	647899	29 6 22 51 1228 22971	
134 7 1	15 ON	2 74 18 54 31E	659874	683929	29 7 42 2 1119 27722	
		OFF 2 71 44 56 55E	652863	675825	29 7 42 39 1132 27759	

134	7 4	47 ON	2 57 22	63 29E	618835	641348 29	7 46 12	1159 27972
		OFF	2 58 7	64 52E	618584	632788 29	7 47 59	12 7 28879
134	7 8	48 ON	2 38 1	66 43E	621328	643934 29	7 52 53	1219 28373
		OFF	2 23 48	67 1E	635748	658895 29	7 54 26	1222 28466
135	9 3	68 ON	2 52 14	41 47E	612192	634457 29	9 18 1	12 4 33481
		OFF	2 43 5	42 59E	688631	638761 29	9 28 15	1212 33615
135	9 6	81 ON	2 16 28	44 32E	659479	683518 29	9 26 46	1224 34886
		OFF	2 2 24	44 55E	724158	758629 29	9 38 14	1229 34214
136	7 2	58 ON	2 55 37	18 23E	615788	638188 29	18 47 46	12 1 38866
		OFF	2 47 48	19 42E	689225	631378 29	18 49 41	12 8 38981
136	7 3	12 ON	2 44 6	28 8E	688652	638784 29	18 58 35	1218 39835
		OFF	2 42 8	28 28E	689838	631183 29	18 51 4	1212 39864
137	4 2	38 ON	2 14 41	8 54W	668888	692442 29	12 28 28	1224 44988
		OFF	2 9 41	8 45W	689552	714724 29	12 29 34	1226 44974
142	6 1	18 ON	2 18 27	69 1W	689119	714274 29	17 1 3	1224 61263
		OFF	2 7 16	68 56W	784345	738875 29	17 1 58	1225 61318
142	8 2	15 ON	2 2 23	68 49W	738891	756795 29	17 3 3	1227 61383
		OFF	3 8 28	68 44W	746618	773941 29	17 3 46	1228 61426
142	8 5	28 ON	3 6 18	68 36W	782822	811529 29	17 5 12	1232 61512
		OFF	3 12 1	68 27W	821761	851953 29	17 6 38	1232 61598
141	5 4	11 ON	2 42 9	93 12W	611258	633487 29	18 24 21	1211 66261
		OFF	2 38 17	93 3W	612813	635188 29	18 24 48	1212 66288
142	5 8	17 ON	2 35 34	115 36W	616294	638711 29	19 56 1	1213 71761
		OFF	2 32 51	115 25W	628394	642965 29	19 56 41	1214 71821
147	2 6	46 ON	2 45 29	129 46E	689679	631849 38	3 26 28	12 5 12388
		OFF	2 37 52	138 38E	614993	637362 38	3 28 12	1218 12492
148	3 3	26 ON	2 58 16	124 49E	616833	638442 38	4 53 45	1152 17625
		OFF	2 54 11	125 43E	611962	634218 38	4 54 45	1157 17685
148	3 5	74 ON	2 44 39	127 7E	689965	632146 38	4 57 5	12 5 17825
		OFF	2 33 12	128 4E	622261	644982 38	4 59 53	1212 17993
148	3 6	39 ON	2 26 36	128 26E	636984	662177 38	5 1 29	1215 18689
		OFF	2 22 9	128 42E	656924	688867 38	5 3 4	1217 18184
149	1 6	61 ON	2 35 6	85 12E	619391	641924 38	6 29 57	1212 23397
		OFF	2 25 26	85 44E	648771	664187 38	6 32 19	1215 23539
150	1 5	72 ON	2 47 13	61 28E	689417	631578 38	7 57 32	12 2 28652
		OFF	2 36 13	62 23E	618826	648528 38	8 8 13	12 9 28813
151	1 4	119 ON	2 58 18	36 37E	614987	637273 38	9 25 23	1151 33923
		OFF	2 39 59	39 21E	613582	635898 38	9 29 58	12 7 34198
151	1 7	82 ON	3 2 18	41 3E	758622	786427 38	9 39 44	1223 34784
		OFF	3 17 14	41 38E	875269	927531 38	9 43 57	1229 35837
152	1 2	65 ON	2 51 53	13 18E	618263	632247 38	18 57 28	1157 39448
		OFF	2 41 53	16 26E	612161	634424 38	18 59 54	12 5 39594
152	1 6	52 ON	2 18 24	18 2E	721276	726898 38	11 7 37	1219 48857
		OFF	2 1 13	18 16E	758722	778227 38	11 9 53	1222 48193
152	6 2	14 ON	2 35 44	119 29W	622581	645234 38	28 4 35	12 6 72275
		OFF	2 33 29	119 22W	626869	649683 38	28 5 8	12 7 72328

PHOTOGRAPHIC SUMMARY
 F.C. PAN. CAMERA NO 188 F.2258 SLIT W/23A FILTER 3484 FILM
 OP. NO FRA FEET ET S-EL S-DIR EV FULL INT PRI

SECRET

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78	2	8	48	185.8	ON	382	51.9	28.8	12.24	12.42	11.82	11.22
					OFF	383	57.3	32.4	12.24	12.42	11.82	11.22
72	8	8	3	7.9	ON	96	-56.2	31.2	18.59	8.88	8.88	8.88
					OFF	96	-55.8	38.1	18.68	8.88	8.88	8.88
76	1	5	78	185.1	ON	238	67.2	133.9	11.85	12.42	11.82	11.22
					OFF	196	55.4	158.5	11.62	12.42	11.82	11.22
77	3	1	56	148.1	ON	269	73.8	95.6	12.87	12.42	11.82	11.22
					OFF	248	78.4	124.4	11.96	12.42	11.82	11.22
79	3	8	15	39.7	ON	353	53.8	27.6	12.24	12.42	11.82	11.22
					OFF	383	56.8	29.3	12.24	12.42	11.82	11.22
81	8	8	3	7.9	ON	98	29.5	18.4	18.62	12.29	11.69	11.89
					OFF	98	31.8	18.6	18.62	12.31	11.71	11.11
83	3	2	41	186.4	ON	264	23.4	17.2	12.85	12.17	11.57	18.97
					OFF	278	38.2	18.1	12.12	12.38	11.78	11.18
84	5	5	48	127.8	ON	288	35.6	19.2	12.17	12.35	11.75	11.15
					OFF	297	42.9	21.3	12.21	12.48	11.88	11.28
86	2	3	38	79.3	ON	263	22.8	16.7	12.84	12.13	11.53	18.93
					OFF	273	27.1	17.3	12.18	12.25	11.65	11.85
86	2	8	33	87.3	ON	381	47.1	22.7	12.23	12.42	11.82	11.22
					OFF	382	51.9	25.2	12.24	12.42	11.82	11.22
87	2	8	26	68.8	ON	381	47.2	22.6	12.23	12.42	11.82	11.22
					OFF	382	51.8	24.5	12.24	12.42	11.82	11.22
88	8	5	57	158.8	ON	274	74.5	76.8	12.18	12.42	11.82	11.22
					OFF	254	73.9	111.1	11.99	12.42	11.82	11.22
92	8	4	27	71.4	ON	227	66.9	135.6	11.83	12.42	11.82	11.22
					OFF	213	64.6	144.8	11.74	12.42	11.82	11.22
94	1	1	56	132.3	ON	248	11.1	15.7	11.91	11.51	18.91	18.31
					OFF	268	19.8	15.7	12.83	12.85	11.45	18.85
95	2	8	13	34.4	ON	388	52.8	23.7	12.23	12.42	11.82	11.22
					OFF	386	54.8	24.9	12.23	12.42	11.82	11.22
99	4	7	25	66.1	ON	288	65.3	145.8	11.78	12.42	11.82	11.22
					OFF	197	68.6	158.7	11.63	12.42	11.82	11.22
124	6	2	52	137.5	ON	286	32.5	16.5	12.16	12.32	11.72	11.12
					OFF	295	48.4	16.3	12.21	12.39	11.79	11.19
183	6	5	93	246.2	ON	378	49.9	21.8	12.23	12.42	11.82	11.22
					OFF	295	62.9	31.6	12.21	12.42	11.82	11.22
121	4	7	38	79.3	ON	291	65.9	35.5	12.19	12.42	11.82	11.22
					OFF	285	69.7	43.1	12.16	12.42	11.82	11.22
122	5	3	61	161.3	ON	268	21.2	14.9	12.87	12.11	11.51	18.91
					OFF	225	38.9	16.8	12.15	12.31	11.71	11.11
123	2	5	57	156.8	ON	281	35.2	16.7	12.19	12.35	11.75	11.15
					OFF	295	43.9	19.8	12.22	12.41	11.81	11.21
124	4	6	92	243.3	ON	238	74.9	117.2	11.98	12.42	11.82	11.22
					OFF	195	61.2	151.2	11.61	12.42	11.82	11.22
125	4	2	33	87.3	ON	288	65.5	33.7	12.18	12.42	11.82	11.22
					OFF	284	69.7	41.5	12.15	12.42	11.82	11.22
127	1	2	23	62.5	ON	262	14.5	14.1	12.84	11.78	11.18	18.58
					OFF	259	18.4	14.2	12.88	12.88	11.48	18.88
128	1	6	63	219.5	ON	288	71.6	45.3	12.13	12.42	11.82	11.22
					OFF	256	77.8	92.2	12.88	12.42	11.82	11.22
129	5	8	19	58.3	ON	299	46.2	18.9	12.23	12.42	11.82	11.22

~~SECRET~~

				OFF	388	49.1	28.8	12.23	12.42	11.82	11.22
118	5	8	17	45.8 ON	388	51.8	21.8	12.23	12.42	11.82	11.22
				OFF	299	54.4	22.4	12.23	12.42	11.82	11.22
115	6	1	68	158.7 ON	286	27.7	14.1	12.16	12.26	11.66	11.86
				OFF	296	37.8	15.5	12.21	12.37	11.77	11.17
115	4	4	22	58.2 ON	194	58.7	155.8	11.68	12.42	11.82	11.22
				OFF	185	53.9	158.7	11.54	12.42	11.82	11.22
116	5	3	54	142.8 ON	279	22.5	13.5	12.13	12.15	11.55	18.95
				OFF	298	38.9	14.4	12.18	12.31	11.71	11.11
116	5	7	24	63.5 ON	291	62.6	27.4	12.19	12.42	11.82	11.22
				OFF	287	66.1	31.4	12.17	12.42	11.82	11.22
117	8	3	47	124.3 ON	283	24.9	13.6	12.15	12.21	11.61	11.81
				OFF	292	32.4	14.5	12.19	12.32	11.72	11.12
117	5	5	94	248.6 ON	299	43.1	16.7	12.23	12.41	11.81	11.21
				OFF	297	56.9	22.6	12.21	12.42	11.82	11.22
118	8	1	28	74.1 ON	269	15.7	12.9	12.87	11.86	11.26	18.66
				OFF	276	28.4	13.1	12.11	12.87	11.47	18.87
118	8	3	62	164.8 ON	284	25.1	13.5	12.15	12.21	11.61	11.81
				OFF	294	34.6	14.7	12.28	12.35	11.75	11.15
119	5	3	76	221.8 ON	295	36.3	14.9	12.21	12.36	11.76	11.16
				OFF	299	47.5	17.8	12.23	12.42	11.82	11.22
119	5	6	69	182.5 ON	281	69.8	35.2	12.13	12.42	11.82	11.22
				OFF	261	76.8	64.4	12.83	12.42	11.82	11.22
120	6	3	52	137.5 ON	297	38.2	15.2	12.21	12.38	11.78	11.18
				OFF	299	46.1	17.2	12.23	12.42	11.82	11.22
121	7	4	41	188.4 ON	295	57.1	21.9	12.21	12.42	11.82	11.22
				OFF	289	63.8	26.5	12.18	12.42	11.82	11.22
122	7	1	27	71.4 ON	243	2.9	15.6	11.93	18.44	9.84	9.24
				OFF	253	7.7	13.2	11.99	11.15	18.55	9.95
123	1	1	38	188.5 ON	248	4.6	14.3	11.96	18.72	18.12	9.52
				OFF	261	11.3	12.6	12.83	11.53	18.93	18.33
124	5	2	25	66.1 ON	258	78.4	79.6	11.97	12.42	11.82	11.22
				OFF	241	78.4	181.9	11.92	12.42	11.82	11.22
124	3	3	16	42.3 ON	227	76.8	125.3	11.83	12.42	11.82	11.22
				OFF	229	73.9	134.6	11.79	12.42	11.82	11.22
126	6	8	16	42.3 ON	297	51.7	18.3	12.22	12.42	11.82	11.22
				OFF	296	54.2	19.4	12.21	12.42	11.82	11.22
131	2	6	48	185.8 ON	298	39.9	14.1	12.22	12.39	11.79	11.19
				OFF	299	46.8	15.5	12.23	12.42	11.82	11.22
132	2	6	42	111.1 ON	297	58.6	16.9	12.22	12.42	11.82	11.22
				OFF	293	57.2	19.8	12.28	12.42	11.82	11.22
133	2	4	48	185.8 ON	291	28.4	12.1	12.19	12.27	11.67	11.87
				OFF	296	34.6	12.9	12.21	12.35	11.75	11.15
133	2	6	122	322.7 ON	299	48.9	14.8	12.23	12.39	11.79	11.19
				OFF	251	59.1	28.8	12.19	12.42	11.82	11.22
134	7	1	15	39.7 ON	272	13.5	11.3	12.89	11.71	11.11	18.51
				OFF	275	16.8	11.2	12.11	11.87	11.27	18.67
134	7	4	47	124.3 ON	294	38.4	12.2	12.28	12.38	11.78	11.18
				OFF	298	37.5	13.2	12.22	12.37	11.77	11.17
134	7	6	48	185.8 ON	293	57.6	19.4	12.29	12.42	11.82	11.22
				OFF	286	63.8	23.4	12.16	12.42	11.82	11.22

135 9 3	60	158.7	ON	298	35.4	12.8	12.22	12.35	11.75	11.15
			OFF	299	44.4	14.5	12.23	12.41	11.81	11.21
135 9 6	82	216.9	ON	275	69.5	30.6	12.11	12.42	11.82	11.22
			OFF	248	79.1	70.7	11.96	12.42	11.82	11.22
136 7 2	50	132.3	ON	296	32.1	12.2	12.21	12.32	11.72	11.12
			OFF	299	39.8	13.4	12.23	12.39	11.79	11.19
136 7 3	12	31.7	ON	299	43.4	14.2	12.23	12.41	11.81	11.21
			OFF	299	45.3	14.6	12.23	12.41	11.81	11.21
137 4 2	30	79.3	ON	271	71.1	32.7	12.59	12.42	11.82	11.22
			OFF	262	75.1	42.8	12.84	12.42	11.82	11.22
140 8 1	18	47.6	ON	262	74.6	39.8	12.84	12.42	11.82	11.22
			OFF	256	76.9	48.7	12.88	12.42	11.82	11.22
140 8 2	15	39.7	ON	245	79.5	69.0	11.94	12.42	11.82	11.22
			OFF	239	80.2	85.0	11.91	12.42	11.82	11.22
140 8 5	28	74.1	ON	225	79.0	116.9	11.82	12.42	11.82	11.22
			OFF	213	75.4	137.4	11.74	12.42	11.82	11.22
141 5 0	11	29.1	ON	298	47.2	14.4	12.22	12.42	11.82	11.22
			OFF	298	49.0	14.9	12.22	12.42	11.82	11.22
142 5 0	17	45.0	ON	296	51.6	15.6	12.21	12.42	11.82	11.22
			OFF	294	54.3	16.6	12.28	12.42	11.82	11.22
147 2 6	48	127.0	ON	299	41.6	12.3	12.23	12.40	11.80	11.20
			OFF	296	49.3	14.1	12.21	12.42	11.82	11.22
148 3 3	26	68.8	ON	297	29.2	10.4	12.22	12.28	11.68	11.08
			OFF	299	33.2	10.9	12.23	12.33	11.73	11.13
148 3 5	74	195.7	ON	300	42.6	12.3	12.23	12.40	11.80	11.20
			OFF	294	53.9	15.4	12.20	12.42	11.82	11.22
148 3 8	39	103.2	ON	286	60.2	18.3	12.16	12.42	11.82	11.22
			OFF	277	66.3	22.9	12.12	12.42	11.82	11.22
149 1 6	61	161.3	ON	295	52.0	14.6	12.21	12.42	11.82	11.22
			OFF	284	61.3	18.8	12.15	12.42	11.82	11.22
150 1 5	70	185.1	ON	300	40.1	11.6	12.23	12.39	11.79	11.19
			OFF	296	50.9	14.0	12.21	12.42	11.82	11.22
151 1 4	120	317.4	ON	297	29.2	10.1	12.22	12.28	11.68	11.08
			OFF	298	47.2	12.9	12.22	12.42	11.82	11.22
151 1 7	82	216.9	ON	234	81.2	81.0	11.87	12.42	11.82	11.22
			OFF	200	72.0	150.7	11.65	12.42	11.82	11.22
152 1 2	65	171.9	ON	300	35.4	10.6	12.23	12.35	11.75	11.15
			OFF	299	45.3	12.3	12.23	12.41	11.81	11.21
152 1 6	50	132.3	ON	257	75.1	35.4	12.01	12.42	11.82	11.22
			OFF	237	80.9	71.0	11.89	12.42	11.82	11.22
158 6 0	14	37.0	ON	294	51.3	12.9	12.20	12.42	11.82	11.22
			OFF	292	53.5	13.5	12.19	12.42	11.82	11.22

PHOTOGRAPHIC SUMMARY

AFT PAN	CAMERA NO	189	0.1750	SLIT W/21	FILTER	3404	FILM			
OPN NO	FRA	FEET	ET	S-EL	S-DIR	EV	FULL	INT	PRI	
70 2 8	40	105.0	ON	389	51.9	27.8	12.60	12.75	12.15	11.55
			OFF	389	57.3	32.2	12.61	12.75	12.15	11.55
72 0 0	3	7.9	ON	122	-57.1	31.6	10.94	0.00	0.00	0.00
			OFF	123	-55.9	30.5	10.95	0.00	0.00	0.00

76	1 5	69	182.5	ON	295	67.5	133.5	12.21	12.75	12.15	11.55
				OFF	252	55.8	152.4	11.98	12.75	12.15	11.55
77	3 1	55	145.5	ON	346	73.9	95.1	12.44	12.75	12.15	11.55
				OFF	319	70.6	123.9	12.32	12.75	12.15	11.55
79	3 0	15	39.7	ON	389	53.7	27.5	12.61	12.75	12.15	11.55
				OFF	389	55.9	29.2	12.61	12.75	12.15	11.55
81	0 0	3	7.9	ON	125	29.4	17.9	17.97	12.62	12.02	11.42
				OFF	125	30.9	18.2	17.97	12.64	12.04	11.44
83	3 2	41	108.4	ON	348	23.3	16.7	12.41	12.50	11.90	11.32
				OFF	357	30.1	17.8	12.48	12.63	12.03	11.43
84	5 5	48	127.0	ON	370	35.6	18.9	12.53	12.68	12.08	11.48
				OFF	381	42.8	21.1	12.58	12.73	12.13	11.53
86	2 3	38	79.3	ON	338	21.9	16.1	12.40	12.46	11.86	11.26
				OFF	351	27.0	16.9	12.46	12.58	11.98	11.38
86	2 8	34	89.9	ON	386	47.1	22.5	12.60	12.75	12.15	11.55
				OFF	389	51.9	25.0	12.61	12.75	12.15	11.55
87	2 8	26	68.8	ON	387	47.2	22.4	12.60	12.75	12.15	11.55
				OFF	389	51.0	24.3	12.60	12.75	12.15	11.55
83	8 5	56	148.1	ON	352	74.6	75.4	12.46	12.75	12.15	11.55
				OFF	327	74.0	110.4	12.35	12.75	12.15	11.55
92	8 4	27	71.4	ON	292	69.1	135.2	12.19	12.75	12.15	11.55
				OFF	274	64.9	143.7	12.10	12.75	12.15	11.55
94	1 1	50	132.3	ON	309	10.9	13.7	12.27	11.82	11.22	10.62
				OFF	335	19.7	15.0	12.39	12.38	11.78	11.18
95	2 0	13	34.4	ON	387	52.0	23.5	12.60	12.75	12.15	11.55
				OFF	386	54.0	24.7	12.60	12.75	12.15	11.55
99	4 7	25	66.1	ON	267	65.6	144.6	12.06	12.75	12.15	11.55
				OFF	254	61.0	150.5	11.99	12.75	12.15	11.55
100	6 2	51	134.9	ON	368	32.4	16.3	12.53	12.65	12.05	11.45
				OFF	389	40.4	18.1	12.57	12.72	12.12	11.52
100	6 5	93	246.0	ON	386	49.8	21.6	12.60	12.75	12.15	11.55
				OFF	379	62.9	31.4	12.57	12.75	12.15	11.55
101	4 7	38	79.3	ON	374	65.9	35.2	12.55	12.75	12.15	11.55
				OFF	366	69.7	42.7	12.52	12.75	12.15	11.55
102	5 3	61	161.3	ON	345	21.1	14.3	12.43	12.43	11.83	11.23
				OFF	366	30.8	15.7	12.52	12.64	12.04	11.44
103	2 5	57	150.8	ON	374	35.1	16.4	12.55	12.68	12.08	11.48
				OFF	384	43.8	18.8	12.59	12.74	12.14	11.54
104	4 6	91	240.7	ON	306	75.1	116.5	12.26	12.75	12.15	11.55
				OFF	251	61.7	151.0	11.97	12.75	12.15	11.55
105	4 2	33	87.3	ON	374	65.5	33.4	12.55	12.75	12.15	11.55
				OFF	365	69.6	41.2	12.51	12.75	12.15	11.55
107	1 2	24	63.5	ON	337	14.3	13.0	12.40	12.10	11.50	10.90
				OFF	347	18.3	13.4	12.44	12.32	11.72	11.12
108	1 6	82	216.9	ON	360	71.5	44.9	12.49	12.75	12.15	11.55
				OFF	329	77.1	91.3	12.36	12.75	12.15	11.55
109	5 0	19	50.3	ON	385	46.2	18.7	12.59	12.75	12.15	11.55
				OFF	386	49.1	19.8	12.59	12.75	12.15	11.55
110	5 0	17	45.0	ON	386	51.8	20.9	12.59	12.75	12.15	11.55
				OFF	385	54.3	22.2	12.59	12.75	12.15	11.55
115	6 1	61	161.3	ON	368	27.6	13.7	12.53	12.59	11.99	11.39

				OFF	381	37.2	15.3	12.57	12.70	12.10	11.50
115	4	4	22	58.2 ON	249	59.2	155.6	11.96	12.75	12.15	11.55
				OFF	238	54.5	158.7	11.90	12.75	12.15	11.55
116	5	3	54	142.8 ON	359	22.4	13.0	12.49	12.47	11.87	11.27
				OFF	374	32.9	14.1	12.55	12.64	12.04	11.44
116	5	7	24	63.5 ON	375	62.6	27.2	12.55	12.75	12.15	11.55
				OFF	370	66.0	31.1	12.53	12.75	12.15	11.55
117	8	3	47	124.3 ON	364	24.8	13.1	12.51	12.53	11.93	11.33
				OFF	376	32.3	14.2	12.56	12.65	12.05	11.45
117	8	5	94	248.6 ON	385	43.1	16.6	12.59	12.73	12.13	11.53
				OFF	382	56.9	22.4	12.58	12.75	12.15	11.55
118	8	1	28	74.1 ON	346	15.6	12.0	12.43	12.18	11.58	10.98
				OFF	356	20.2	12.5	12.48	12.40	11.80	11.20
118	8	3	62	164.0 ON	365	25.0	13.0	12.52	12.54	11.94	11.34
				OFF	379	34.6	14.5	12.57	12.68	12.08	11.48
119	8	3	75	198.4 ON	380	36.3	14.7	12.57	12.69	12.09	11.49
				OFF	384	47.5	17.6	12.59	12.75	12.15	11.55
119	8	6	69	182.5 ON	361	69.0	34.9	12.50	12.75	12.15	11.55
				OFF	336	76.8	63.5	12.39	12.75	12.15	11.55
120	6	3	52	137.5 ON	381	38.1	14.9	12.58	12.70	12.10	11.50
				OFF	384	46.1	17.0	12.59	12.75	12.15	11.55
121	7	4	40	185.8 ON	379	57.0	21.8	12.57	12.75	12.15	11.55
				OFF	372	62.9	26.3	12.54	12.75	12.15	11.55
122	7	1	27	71.4 ON	313	2.7	7.9	12.29	10.73	10.13	9.53
				OFF	326	7.5	10.3	12.35	11.46	10.86	10.26
123	1	1	39	123.2 ON	318	4.4	9.0	12.32	11.02	10.42	9.82
				OFF	336	11.1	12.9	12.39	11.84	11.24	10.64
124	8	2	25	66.1 ON	322	78.4	78.5	12.33	12.75	12.15	11.55
				OFF	310	78.5	100.7	12.28	12.75	12.15	11.55
124	8	3	16	42.3 ON	292	76.2	124.4	12.19	12.75	12.15	11.55
				OFF	283	74.2	133.9	12.15	12.75	12.15	11.55
126	6	0	16	42.3 ON	382	51.6	18.1	12.58	12.75	12.15	11.55
				OFF	381	54.1	19.2	12.58	12.75	12.15	11.55
131	2	6	40	185.8 ON	384	39.8	13.9	12.59	12.72	12.12	11.52
				OFF	384	46.0	15.4	12.59	12.75	12.15	11.55
132	2	6	42	111.1 ON	382	50.8	16.8	12.58	12.75	12.15	11.55
				OFF	376	57.1	19.7	12.56	12.75	12.15	11.55
133	2	4	40	185.8 ON	375	28.3	11.8	12.55	12.68	12.08	11.48
				OFF	381	34.6	12.6	12.58	12.68	12.08	11.48
133	2	6	121	320.0 ON	384	40.8	13.8	12.59	12.72	12.12	11.52
				OFF	374	59.0	20.6	12.55	12.75	12.15	11.55
134	7	1	15	39.7 ON	348	13.4	10.1	12.44	12.03	11.43	10.83
				OFF	353	15.9	10.4	12.46	12.20	11.60	11.00
134	7	4	47	124.3 ON	376	30.3	11.9	12.56	12.63	12.03	11.43
				OFF	382	37.5	13.0	12.58	12.70	12.10	11.50
134	7	8	40	185.8 ON	375	56.9	19.2	12.55	12.75	12.15	11.55
				OFF	367	62.9	23.2	12.52	12.75	12.15	11.55
135	9	3	60	158.7 ON	381	35.4	12.5	12.58	12.68	12.08	11.48
				OFF	383	44.3	14.4	12.58	12.74	12.14	11.54
135	9	6	81	214.2 ON	352	69.4	30.3	12.46	12.75	12.15	11.55
				OFF	318	79.1	69.5	12.31	12.75	12.15	11.55

136	7	2	53	132.3	ON	379	32.8	11.9	12.57	12.65	12.25	11.45
					OFF	393	39.7	13.2	12.58	12.72	12.12	11.52
136	7	3	12	31.7	ON	384	43.3	14.8	12.59	12.74	12.14	11.54
					OFF	383	45.3	14.4	12.58	12.74	12.14	11.54
137	4	2	38	79.3	ON	347	71.8	32.3	12.44	12.75	12.15	11.55
					OFF	336	75.2	42.2	12.39	12.75	12.15	11.55
140	8	1	18	47.6	ON	335	74.5	39.2	12.39	12.75	12.15	11.55
					OFF	328	76.8	47.9	12.36	12.75	12.15	11.55
142	8	2	15	39.7	ON	314	79.5	67.7	12.38	12.75	12.15	11.55
					OFF	386	88.2	83.4	12.26	12.75	12.15	11.55
140	8	5	28	74.1	ON	268	79.2	115.6	12.17	12.75	12.15	11.55
					OFF	273	75.8	136.6	12.89	12.75	12.15	11.55
141	5	8	11	29.1	ON	382	47.1	14.2	12.58	12.75	12.15	11.55
					OFF	381	48.9	14.7	12.58	12.75	12.15	11.55
142	5	8	17	45.8	ON	379	51.6	15.4	12.57	12.75	12.15	11.55
					OFF	376	54.2	16.4	12.56	12.75	12.15	11.55
147	2	6	48	127.8	ON	383	41.8	12.1	12.58	12.73	12.13	11.53
					OFF	388	49.3	13.9	12.57	12.75	12.15	11.55
148	3	3	26	68.8	ON	381	29.1	18.1	12.58	12.61	12.81	11.41
					OFF	384	33.2	18.6	12.59	12.66	12.86	11.46
148	3	5	74	195.7	ON	386	42.6	12.1	12.59	12.73	12.13	11.53
					OFF	377	53.8	15.2	12.56	12.75	12.15	11.55
148	3	8	39	183.2	ON	368	68.1	18.2	12.52	12.75	12.15	11.55
					OFF	356	66.2	22.6	12.48	12.75	12.15	11.55
149	1	6	61	161.3	ON	379	51.9	14.4	12.57	12.75	12.15	11.55
					OFF	365	61.3	18.6	12.52	12.75	12.15	11.55
150	1	5	78	185.1	ON	386	42.8	11.4	12.59	12.72	12.12	11.52
					OFF	388	58.8	13.9	12.57	12.75	12.15	11.55
151	1	4	119	314.8	ON	382	29.1	9.8	12.58	12.61	12.81	11.41
					OFF	383	47.1	12.7	12.58	12.75	12.15	11.55
151	1	7	82	216.9	ON	388	81.2	79.1	12.23	12.75	12.15	11.55
					OFF	257	72.5	158.2	12.81	12.75	12.15	11.55
152	1	2	65	171.9	ON	385	35.4	18.4	12.59	12.68	12.88	11.48
					OFF	384	45.3	12.1	12.59	12.74	12.14	11.54
152	1	6	58	132.3	ON	338	74.9	34.8	12.37	12.75	12.15	11.55
					OFF	384	88.9	69.3	12.25	12.75	12.15	11.55
158	6	8	14	37.8	ON	377	51.2	12.7	12.56	12.75	12.15	11.55
					OFF	375	53.4	13.4	12.55	12.75	12.15	11.55

STELLAR-INDEX SUMMARY

CAMERA DATA	ET	FILM	FILTER	GRID	ASSEMBLY NO	D96
STELLAR	1.8	4481	NONE	184		
INDEX	1/500	4488	W/21	8		

PERFORMANCE SUMMARY

OPN NO	FR	STEL FEET	INDX FEET	H	M	S	Q	ON LAT	ON LONG	Q	OFF LAT	OFF LONG	SEC DUR		
78	2	8	6	8.59	1.19	7	18	49	2	35	83E	2	29	83E	91
72	8	8	1	8.18	8.28	9	43	27	1	28	128W	1	38	128W	23
76	1	5	18	8.99	1.98	16	27	22	3	15	51W	3	38	58W	217
77	3	1	8	8.79	1.58	17	54	31	3	1	74W	3	18	74W	142

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79	3	0	3	0.38	0.59	28	47	38	2	33	121W	2	38	121W	36
83	3	2	6	0.59	1.19	2	42	18	2	65	141E	2	58	144E	183
84	5	5	7	0.69	1.39	4	16	6	2	52	122E	2	45	123E	113
86	2	3	4	0.48	0.79	7	13	58	2	66	72E	2	61	74E	77
86	2	8	5	0.58	0.99	7	28	26	2	48	78E	2	35	79E	76
87	2	8	4	0.48	0.79	8	51	7	2	48	55E	2	36	56E	61
88	8	5	9	0.89	1.78	18	38	41	2	3	34E	3	5	34E	142
92	8	4	4	0.48	0.79	16	38	4	3	15	55W	3	29	55W	83
94	1	1	7	0.69	1.39	19	16	32	2	77	119W	2	68	118W	132
95	2	8	3	0.38	0.59	28	57	39	2	35	125W	2	33	125W	32
99	4	7	3	0.38	0.59	3	13	56	3	28	144E	3	26	145E	82
100	6	2	8	0.79	1.58	4	25	51	2	55	117E	2	47	119E	121
100	6	5	14	1.39	2.77	4	38	18	2	37	128E	2	23	128E	211
101	4	7	4	0.48	0.79	6	5	28	2	19	98E	2	14	98E	71
102	5	3	9	0.89	1.78	7	24	18	2	67	68E	2	57	71E	147
103	2	5	9	0.89	1.78	8	58	27	2	53	49E	2	43	51E	133
104	4	6	13	1.29	2.57	18	43	49	3	7	38E	3	26	31E	275
105	4	2	5	0.58	0.99	12	7	42	2	28	7E	2	15	7E	77
107	1	2	4	0.48	0.79	14	55	46	2	73	58W	2	69	47W	68
108	1	6	12	1.19	2.38	16	41	27	2	12	68W	3	1	68W	288
109	5	8	3	0.38	0.59	18	5	2	2	41	85W	2	38	84W	45
110	5	8	3	0.38	0.59	19	37	6	2	35	107W	2	32	107W	48
115	6	1	8	0.79	1.58	3	4	4	2	68	135E	2	52	137E	148
115	4	4	4	0.48	0.79	3	26	8	3	29	141E	3	34	141E	77
116	5	3	8	0.79	1.58	4	33	23	2	65	118E	2	57	113E	126
116	5	7	4	0.48	0.79	4	43	37	2	23	116E	2	19	116E	58
117	8	3	7	0.69	1.39	6	4	35	2	63	88E	2	55	98E	112
117	8	5	13	1.29	2.57	6	9	18	2	44	92E	2	38	93E	212
118	8	1	5	0.58	0.99	7	32	54	2	72	68E	2	67	63E	69
118	8	3	9	0.89	1.78	7	35	15	2	62	65E	2	53	68E	143
119	8	3	11	1.09	2.18	9	8	39	2	51	46E	2	48	47E	169
119	8	6	18	0.99	1.98	9	17	13	2	16	48E	2	4	48E	169
120	6	3	8	0.79	1.58	18	39	43	2	49	23E	2	41	24E	128
121	7	4	6	0.59	1.19	12	15	8	2	29	2E	2	23	2E	94
122	7	1	4	0.48	0.79	13	32	7	2	83	64W	2	79	43W	72
123	1	1	6	0.59	1.19	15	3	9	2	82	77W	2	76	58W	188
124	8	2	4	0.48	0.79	16	53	57	2	1	64W	3	3	64W	67
124	8	3	2	0.28	0.48	16	56	28	3	9	64W	3	12	64W	48
126	6	8	3	0.38	0.59	19	46	42	2	35	111W	2	32	111W	38
131	2	6	6	0.59	1.19	3	16	38	2	47	133E	2	41	134E	93
132	2	6	6	0.59	1.19	4	49	58	2	36	111E	2	29	112E	98
133	2	4	6	0.59	1.19	6	14	56	2	59	85E	2	53	87E	93
133	2	6	18	1.78	3.56	6	18	2	2	46	88E	2	27	89E	277
134	7	1	2	0.28	0.48	7	41	58	2	74	54E	2	71	57E	37
134	7	4	7	0.69	1.39	7	46	8	2	57	63E	2	58	64E	107
134	7	8	6	0.59	1.19	7	52	41	2	29	66E	2	23	67E	93
135	9	3	9	0.89	1.78	9	17	49	2	52	41E	2	43	43E	134
135	9	6	12	1.19	2.38	9	26	34	2	16	44E	2	2	44E	288
136	7	2	7	0.69	1.39	18	47	34	2	55	18E	2	47	19E	115
136	7	3	2	0.28	0.48	18	58	23	2	44	28E	2	42	28E	29
137	4	2	5	0.58	0.99	12	28	8	2	14	8W	2	9	8W	74

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140	8	1	3	0.30	0.59	17	0	51	2	10	68W	2	7	68W	47
140	8	2	2	0.20	0.40	17	2	51	2	2	68W	3	3	68W	43
140	8	5	5	0.50	0.99	17	5	0	3	6	68W	3	12	68W	86
141	5	0	1	0.10	0.20	18	24	9	2	40	93W	2	38	93W	27
142	5	0	3	0.30	0.59	19	55	49	2	35	115W	2	32	115W	40
147	2	6	7	0.69	1.39	3	26	8	2	45	129E	2	37	130E	112
148	3	3	4	0.40	0.79	4	53	33	2	58	104E	2	54	105E	60
148	3	5	11	1.09	2.18	4	56	53	2	44	107E	2	33	108E	168
148	3	8	6	0.59	1.19	5	1	17	2	26	108E	2	20	108E	95
149	1	6	9	0.89	1.70	6	29	45	2	35	85E	2	25	85E	142
150	1	5	10	0.99	1.98	7	57	20	2	47	61E	2	36	62E	161
151	1	4	10	1.78	3.56	9	25	11	2	58	36E	2	39	39E	267
151	1	7	12	1.19	2.30	9	39	32	3	0	41E	3	17	41E	253
152	1	2	9	0.89	1.78	10	57	16	2	51	15E	2	41	16E	146
152	1	6	0	0.79	1.58	11	7	25	2	10	18E	2	0	18E	136
158	6	0	2	0.20	0.40	20	4	23	2	35	119W	2	33	119W	33

NOTE - TLM DATA INDICATE NORMAL SYSTEM PERFORMANCE.

NOTE - THE LAST SIX FRAMES OF THE FORWARD PAN CAMERA AND THE LAST SIX FRAMES OF THE AFT PAN CAMERA FOR OPERATION 70-2-8 ARE CONTAINED IN THE B MISSION RECOVERY CAPSULE. THE REMAINING FRAMES OF OPERATION WERE IN THE A MISSION RECOVERY CAPSULE.

NOTE - OPERATION 72-0-0 CONSISTS OF THE FRAMES OBTAINED DURING THE AND WRAP OPERATION COMMANDED AT [REDACTED] ON REV 72.

NOTE - OPERATION 81-0-0 CONSISTS OF THE FRAMES OBTAINED DURING THE STOWING OPERATION PRIOR TO THE A MISSION RECOVERY.

NOTE - TLM DATA OBSERVED ON OPERATION 158-6-0 SHOWED THAT THE FILM DEPLETED PRIOR TO REV 158.

A. 1835-2

B. DRY

C. PERFORMANCE ESTIMATE - PART TWO

RATE ESTIMATE
FWD PAN CAMERA NUMBER 188

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG-VEL	SCAN RATE R/SEC	I/SEC	PCT CALIB	RATE REQD
70	2	8	48	8	2 ON 1864	0.4518	0.03812	2.839	68.13	-2.6 -9.7
					OFF 91	0.4523	0.03817	2.842	68.21	-2.6 -1.1
72	0	8	3	10	2 ON 145	0.1436	0.01212	0.982	21.65	-6.5 -58.7
					OFF 23	0.1444	0.01218	0.987	21.78	-6.5 -51.8
76	1	5	72	8	2 ON 2638	0.3435	0.02898	2.158	51.88	-2.6 -4.8
					OFF 217	2.2939	0.02488	1.846	44.31	-2.6 -6.6
77	3	1	56	8	2 ON 2382	0.4828	0.03392	2.526	66.62	-2.6 -8.7
					OFF 142	0.3728	0.03129	2.338	55.91	-2.6 -1.1
79	3	8	15	8	2 ON 1885	0.4523	0.03816	2.842	68.28	-2.6 -8.9
					OFF 36	0.4526	0.03819	2.844	68.25	-2.6 -8.9
81	0	8	3	10	2 ON 8	0.1466	0.01237	0.921	22.18	-2.6 -185.7
					OFF 24	0.1466	0.01237	0.921	22.18	-2.6 -188.2
83	3	2	41	8	2 ON 1425	2.3953	0.03336	2.424	59.61	-2.6 -2.3
					OFF 123	0.4151	0.03583	2.688	62.68	-2.6 -1.5
84	5	5	48	8	2 ON 1617	0.4381	0.03629	2.732	64.85	-2.6 -8.9
					OFF 113	0.4433	0.03748	2.785	66.84	-2.6 -8.8
86	2	3	32	8	2 ON 1415	0.3931	0.03317	2.478	59.27	-2.6 -2.4
					OFF 77	0.4883	0.03445	2.566	61.57	-2.6 -1.7
86	2	8	33	8	2 ON 1882	0.4491	0.03798	2.822	67.73	-2.6 -8.7
					OFF 76	0.4521	0.03815	2.841	68.17	-2.6 -8.7
87	2	8	26	8	2 ON 1886	0.4494	0.03792	2.823	67.76	-2.6 -8.6
					OFF 61	0.4518	0.03812	2.839	68.13	-2.6 -8.7
88	8	5	57	8	2 ON 2344	0.4896	0.03456	2.574	61.76	-2.6 -8.6
					OFF 142	0.3799	0.03285	2.387	57.28	-2.6 -8.9
92	8	4	27	8	2 ON 2643	0.3481	0.02878	2.137	51.29	-2.6 -2.9
					OFF 83	0.3193	0.02694	2.026	48.14	-2.6 -4.1
94	1	1	52	8	2 ON 1288	0.3585	0.03825	2.253	54.27	-3.4 -5.7
					OFF 132	0.3887	0.03288	2.442	58.61	-3.4 -3.5
95	2	8	13	8	2 ON 1912	0.4488	0.03787	2.828	67.68	-3.4 -1.5
					OFF 32	0.4487	0.03786	2.819	67.66	-3.4 -1.5
99	4	7	25	8	2 ON 2747	0.3185	0.02628	1.951	46.82	-3.4 -5.8
					OFF 82	0.2949	0.02489	1.853	44.47	-3.4 -5.7
100	6	2	52	8	2 ON 1626	0.4278	0.03618	2.688	64.51	-3.4 -1.6
					OFF 121	0.4412	0.03723	2.772	66.53	-3.4 -1.4
100	6	5	93	8	2 ON 1894	0.4487	0.03786	2.819	67.66	-3.4 -1.3
					OFF 211	0.4486	0.03717	2.768	66.44	-3.4 -1.3
101	4	7	31	8	2 ON 2152	0.4344	0.03665	2.729	65.51	-3.4 -1.4
					OFF 71	0.4254	0.03598	2.673	64.15	-3.4 -1.4
102	5	3	61	8	2 ON 1465	0.4882	0.03377	2.514	68.35	-3.4 -2.7
					OFF 147	0.4253	0.03588	2.672	64.13	-3.4 -1.7
103	2	5	57	8	2 ON 1682	0.4346	0.03667	2.731	65.54	-3.4 -1.3
					OFF 133	0.4458	0.03761	2.821	67.22	-3.4 -1.2

104	4	6	92	8	2	ON	2569	3.3568	0.03204	2.237	53.68	-3.4	-3.3
						OFF	275	0.2927	0.02464	1.835	44.84	-3.4	-6.1
105	4	2	33	8	2	ON	2167	0.4338	0.03668	2.725	65.41	-3.4	-1.4
						OFF	77	0.4238	0.03576	2.663	63.91	-3.4	-1.4
107	1	2	23	7	3	ON	1384	2.3916	0.03394	2.469	59.85	-3.4	-1.5
						OFF	60	0.4027	0.03398	2.530	60.72	-3.4	-1.1
108	1	6	83	7	3	ON	2291	2.4182	0.03529	2.628	63.37	-4.1	-1.8
						OFF	280	0.3821	0.03224	2.431	57.62	-4.1	-2.7
109	5	0	19	7	3	ON	1873	0.4476	0.03777	2.812	67.49	-4.1	-1.2
						OFF	45	0.4481	0.03781	2.815	67.57	-4.1	-1.3
110	5	0	17	7	3	ON	1963	0.4476	0.03777	2.813	67.50	-4.1	-1.3
						OFF	42	0.4466	0.03769	2.806	67.35	-4.1	-1.3
115	6	1	60	7	3	ON	1617	0.4279	0.03611	2.689	64.53	-4.1	-0.9
						OFF	140	0.4419	0.03729	2.776	66.63	-4.1	-1.0
115	4	4	22	7	3	ON	2941	0.2895	0.02443	1.819	43.66	-4.1	-1.3
						OFF	77	0.2772	0.02339	1.742	41.80	-4.1	-0.8
116	5	3	54	7	3	ON	1543	0.4175	0.03523	2.623	62.95	-4.1	-1.1
						OFF	126	0.4339	0.03661	2.726	65.43	-4.1	-1.9
116	5	7	24	7	3	ON	2158	0.4355	0.03674	2.736	65.57	-4.1	-1.3
						OFF	58	0.4292	0.03622	2.697	64.73	-4.1	-1.1
117	8	3	47	7	3	ON	1582	0.4232	0.03571	2.659	63.32	-4.1	-1.6
						OFF	112	0.4365	0.03683	2.742	65.32	-4.1	-1.2
117	8	5	94	7	3	ON	1957	0.4472	0.03773	2.812	67.43	-4.1	-1.1
						OFF	212	0.4432	0.03748	2.785	66.84	-4.1	-1.2
118	8	1	28	7	3	ON	1449	0.4014	0.03387	2.522	60.54	-4.1	-1.6
						OFF	69	0.4130	0.03485	2.595	62.29	-4.1	-1.3
118	8	3	62	7	3	ON	1590	0.4244	0.03581	2.667	64.00	-4.1	-1.8
						OFF	143	0.4400	0.03713	2.765	66.36	-4.1	-3.9
119	8	3	76	7	3	ON	1762	0.4413	0.03724	2.773	66.55	-4.4	-1.2
						OFF	169	0.4469	0.03778	2.808	67.38	-4.4	-1.4
119	8	6	69	7	3	ON	2276	0.4193	0.03538	2.635	63.24	-4.4	-1.5
						OFF	169	0.3903	0.03294	2.453	58.06	-4.4	-1.4
120	6	3	52	7	3	ON	1793	0.4433	0.03740	2.735	66.94	-4.4	-1.2
						OFF	120	0.4469	0.03778	2.808	67.38	-4.4	-1.4
121	7	4	41	7	3	ON	2085	0.4488	0.03719	2.769	66.46	-4.4	-1.5
						OFF	94	0.4324	0.03648	2.717	65.28	-4.4	-1.4
122	7	1	27	7	3	ON	1272	0.3638	0.03070	2.286	54.96	-4.4	-4.2
						OFF	72	0.3788	0.03196	2.388	57.12	-4.4	-3.3
123	1	1	38	7	3	ON	1302	0.3704	0.03126	2.327	55.96	-4.4	-3.7
						OFF	100	0.3906	0.03296	2.454	58.90	-4.4	-2.6
124	8	2	25	7	3	ON	2519	0.3743	0.03159	2.352	56.45	-4.4	-1.8
						OFF	67	0.3603	0.03048	2.264	54.34	-4.4	-2.0
124	8	3	16	7	3	ON	2671	0.3402	0.02870	2.137	51.30	-4.4	-2.7
						OFF	48	0.3296	0.02781	2.071	49.70	-4.4	-3.0
126	6	0	16	7	3	ON	2021	0.4446	0.03751	2.793	67.24	-4.4	-1.4
						OFF	38	0.4427	0.03736	2.782	66.76	-4.4	-1.4
131	2	6	40	7	3	ON	1861	0.4461	0.03764	2.803	67.27	-4.4	-1.1
						OFF	93	0.4467	0.03769	2.806	67.35	-4.4	-1.2
132	2	6	42	7	3	ON	2029	0.4442	0.03748	2.791	66.98	-4.4	-1.3
						OFF	98	0.4376	0.03693	2.758	65.99	-4.4	-1.4
133	2	4	42	7	3	ON	1694	0.4356	0.03676	2.737	65.69	-4.4	-1.1

					OFF	93	3.4428	3.83736	2.732	66.77	-4.4	-1.1
133	2	6	122	7	3 ON	1888	3.4465	3.83768	2.806	67.33	-4.4	-1.1
					OFF	277	3.4347	3.23668	2.731	65.55	-4.4	-1.3
134	7	1	15	7	3 ON	1477	3.4059	3.83425	2.551	61.21	-4.2	-1.3
					OFF	37	3.4118	3.83474	2.587	62.09	-4.2	-1.7
134	7	4	47	7	3 ON	1728	3.4393	3.83796	2.763	66.24	-4.2	-3.9
					OFF	187	3.4457	3.83761	2.803	67.21	-4.2	-1.3
134	7	8	48	7	3 ON	2129	3.4377	3.83693	2.757	66.01	-4.2	-1.2
					OFF	93	3.4273	3.23613	2.683	64.51	-4.2	-1.2
135	9	3	68	7	3 ON	1888	3.4446	3.83752	2.794	67.75	-4.2	-2.9
					OFF	134	3.4474	3.83775	2.811	67.86	-4.2	-1.3
135	9	6	82	7	3 ON	2332	3.4119	3.83463	2.533	61.38	-4.2	-1.4
					OFF	288	3.3711	3.83132	2.332	55.27	-4.2	-1.8
136	7	2	58	7	3 ON	1761	3.4419	3.83728	2.776	66.53	-4.2	-2.9
					OFF	115	3.4479	3.83771	2.833	67.48	-4.2	-1.2
136	7	3	12	7	3 ON	1938	3.4474	3.83775	2.811	67.47	-4.2	-1.3
					OFF	29	3.4472	3.83773	2.813	67.43	-4.2	-1.2
137	4	2	38	7	3 ON	2365	3.4053	3.83428	2.547	61.12	-4.2	-1.4
					OFF	74	3.3921	3.83338	2.463	59.22	-4.2	-1.5
140	8	1	18	7	3 ON	2438	3.3917	3.83335	2.461	59.26	-4.2	-1.6
					OFF	47	3.3828	3.23232	2.435	57.72	-4.2	-1.6
140	8	2	15	7	3 ON	2557	3.3666	3.83293	2.323	55.28	-4.2	-2.2
					OFF	43	3.3577	3.23218	2.247	53.34	-4.2	-2.2
140	8	5	28	7	3 ON	2686	3.3369	3.82843	2.117	58.81	-4.2	-3.2
					OFF	86	3.3198	3.82692	2.525	48.11	-4.2	-3.4
141	5	8	11	7	3 ON	2206	3.4458	3.83761	2.821	67.22	-4.2	-1.2
					OFF	27	3.4447	3.83752	2.794	67.26	-4.2	-1.2
142	5	8	17	7	3 ON	2277	3.4419	3.83729	2.777	66.54	-4.2	-1.1
					OFF	46	3.4391	3.83705	2.759	66.21	-4.2	-1.1
147	2	6	48	7	3 ON	1958	3.4472	3.83774	2.813	67.44	-4.2	-2.9
					OFF	112	3.4431	3.83739	2.784	66.32	-4.2	-1.2
148	3	3	26	7	3 ON	1766	3.4436	3.83743	2.787	66.29	-3.9	-2.4
					OFF	68	3.4458	3.83778	2.827	67.37	-3.9	-2.5
148	3	5	74	7	3 ON	1966	3.4484	3.83783	2.817	67.61	-3.9	-2.6
					OFF	168	3.4389	3.83724	2.758	66.19	-3.9	-2.8
148	3	8	39	7	3 ON	2238	3.4277	3.23628	2.687	64.49	-3.9	-1.3
					OFF	95	3.4142	3.83493	2.691	62.23	-3.9	-1.1
149	1	6	61	7	3 ON	2118	3.4488	3.83719	2.776	66.47	-3.9	-2.8
					OFF	142	3.4252	3.23588	2.672	64.12	-3.9	-1.3
150	1	5	78	7	3 ON	1935	3.4488	3.83787	2.822	67.68	-3.9	-2.6
					OFF	161	3.4421	3.83731	2.778	66.67	-3.9	-2.7
151	1	4	128	7	3 ON	1777	3.4443	3.83749	2.791	67.28	-3.9	-2.5
					OFF	267	3.4456	3.83768	2.832	67.19	-3.9	-2.7
151	1	7	82	7	3 ON	2637	3.3496	3.82958	2.196	52.71	-3.9	-2.8
					OFF	253	3.2992	3.22525	1.882	45.12	-3.9	-3.3
152	1	2	65	7	3 ON	1873	3.4484	3.83783	2.817	67.61	-3.9	-2.5
					OFF	146	3.4468	3.83778	2.827	67.37	-3.9	-2.6
152	1	6	58	7	3 ON	2482	3.3839	3.83248	2.412	57.98	-3.9	-1.8
					OFF	136	3.3547	3.82993	2.229	53.48	-3.9	-2.5
158	6	8	14	7	3 ON	2133	3.4387	3.83782	2.757	66.16	-3.9	-2.8
					OFF	33	3.4357	3.83677	2.738	65.71	-3.9	-2.8

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RATE ESTIMATE

AFT PAN CAMERA NUMBER 189

OPN NO	FR	R	A	TUR/ DUR	INST CPS	INST ANG-VEL	SCAN R/SEC	RATE I/SEC	PCT CALIB	RATE REQD
70	2	8	48	8	2 ON 1876	0.4518	0.03812	2.839	68.13	-3.3 -8.8
					OFF 91	0.4523	0.03817	2.842	68.21	-3.3 -1.1
72	0	0	3	10	2 ON 157	0.1427	0.01204	0.897	21.52	-7.2 -52.3
					OFF 23	0.1435	0.01211	0.902	21.65	-7.2 -52.7
76	1	5	69	8	2 ON 2642	0.3432	0.02896	2.156	51.75	-3.3 -4.1
					OFF 217	0.2935	0.02476	1.844	44.25	-3.3 -5.9
77	3	1	55	8	2 ON 2394	0.4019	0.03391	2.525	60.60	-3.3 -8.1
					OFF 142	0.3706	0.03127	2.328	55.88	-3.3 -2.4
79	3	0	15	8	2 ON 1897	0.4523	0.03816	2.842	68.20	-3.3 -1.0
					OFF 36	0.4526	0.03819	2.844	68.25	-3.3 -8.9
81	0	0	3	10	2 ON 12	0.1457	0.01229	0.915	21.97	-3.3 -188.0
					OFF 24	0.1457	0.01229	0.915	21.97	-3.3 -191.2
83	3	2	41	8	2 ON 1437	0.3951	0.03334	2.483	59.59	-3.3 -2.9
					OFF 103	0.4156	0.03502	2.608	62.58	-3.3 -2.0
84	5	5	48	8	2 ON 1629	0.4300	0.03628	2.702	64.84	-3.3 -1.3
					OFF 113	0.4432	0.03740	2.785	66.34	-3.3 -1.1
86	2	3	32	8	2 ON 1427	0.3929	0.03315	2.469	59.25	-3.3 -3.0
					OFF 77	0.4082	0.03444	2.565	61.55	-3.3 -2.3
88	2	0	34	8	2 ON 1914	0.4491	0.03789	2.822	67.72	-3.3 -2.8
					OFF 76	0.4521	0.03615	2.840	68.17	-3.3 -2.7
87	2	0	26	8	2 ON 1810	0.4493	0.03791	2.823	67.76	-3.3 -2.8
					OFF 61	0.4518	0.03812	2.839	68.13	-3.3 -2.7
88	0	5	56	8	2 ON 2356	0.4095	0.03455	2.573	61.75	-3.3 -2.0
					OFF 142	0.3797	0.03203	2.385	57.25	-3.3 -2.2
92	0	4	27	8	2 ON 2655	0.3398	0.02867	2.135	51.24	-3.3 -2.2
					OFF 83	0.3189	0.02691	2.004	48.09	-3.3 -3.4
94	1	1	52	8	2 ON 1292	0.3586	0.03026	2.253	54.28	-4.0 -6.3
					OFF 132	0.3809	0.03201	2.443	58.64	-4.0 -4.0
95	2	2	10	8	2 ON 1924	0.4492	0.03790	2.822	67.74	-4.0 -1.4
					OFF 32	0.4491	0.03789	2.822	67.72	-4.0 -1.3
99	4	7	25	8	2 ON 2759	0.3104	0.02619	1.950	46.00	-4.0 -5.0
					OFF 02	0.2940	0.02487	1.852	44.46	-4.0 -4.9
100	6	2	51	8	2 ON 1630	0.4281	0.03613	2.690	64.56	-4.0 -1.9
					OFF 121	0.4416	0.03726	2.774	66.58	-4.0 -1.5
100	6	5	93	8	2 ON 1906	0.4490	0.03789	2.821	67.71	-4.0 -1.3
					OFF 211	0.4409	0.03721	2.770	66.49	-4.0 -1.0
101	4	7	30	8	2 ON 2174	0.4347	0.03668	2.732	65.56	-4.0 -1.0
					OFF 71	0.4257	0.03592	2.675	64.20	-4.0 -2.9
102	5	3	61	8	2 ON 1477	0.4004	0.03379	2.516	60.38	-4.0 -3.1
					OFF 147	0.4256	0.03591	2.674	64.17	-4.0 -2.0
103	2	5	57	8	2 ON 1692	0.4350	0.03670	2.733	65.59	-4.0 -1.5
					OFF 133	0.4462	0.03765	2.803	67.28	-4.0 -1.3
104	4	6	91	8	2 ON 2581	0.3561	0.03004	2.237	53.69	-4.0 -2.5
					OFF 275	0.2919	0.02463	1.834	44.72	-4.0 -5.3
105	4	2	33	8	2 ON 2179	0.4341	0.03663	2.728	65.46	-4.0 -1.0

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					OFF	77	8.4241	8.83579	2.665	63.95	-4.8	-8.9
187	1	2	24	7	3 ON	1396	8.3928	8.83387	2.463	59.11	-4.8	-1.9
					OFF	68	8.4831	8.83482	2.533	68.79	-4.8	-1.5
188	1	6	82	7	3 ON	2383	8.4184	8.83531	2.629	63.18	-4.8	-8.5
					OFF	288	8.3821	8.83224	2.481	57.62	-4.8	-8.1
189	5	8	19	7	3 ON	1885	8.4479	8.83779	2.814	67.54	-4.8	-1.2
					OFF	45	8.4484	8.83783	2.817	67.61	-4.8	-1.2
110	5	8	17	7	3 ON	1975	8.4488	8.83788	2.815	67.55	-4.8	-1.2
					OFF	48	8.4469	8.83771	2.808	67.48	-4.8	-1.1
115	5	1	61	7	3 ON	1629	8.4282	8.83613	2.698	64.57	-4.8	-1.2
					OFF	148	8.4422	8.83731	2.778	66.68	-4.8	-1.1
115	4	4	22	7	3 ON	2953	8.2898	8.82439	1.816	43.59	-4.8	-8.7
					OFF	77	8.2767	8.82334	1.738	41.72	-4.8	-8.3
116	5	3	54	7	3 ON	1555	8.4177	8.83524	2.624	62.98	-4.8	-1.5
					OFF	126	8.4341	8.83663	2.728	65.47	-4.8	-1.2
116	5	7	24	7	3 ON	2178	8.4357	8.83677	2.738	65.71	-4.8	-8.9
					OFF	58	8.4295	8.83624	2.698	64.76	-4.8	-8.7
117	5	3	47	7	3 ON	1594	8.4234	8.83573	2.661	63.85	-4.8	-1.3
					OFF	112	8.4367	8.83685	2.744	65.86	-4.8	-1.2
117	8	5	94	7	3 ON	1869	8.4475	8.83776	2.812	67.46	-4.8	-1.1
					OFF	212	8.4435	8.83743	2.787	66.89	-4.8	-1.8
118	3	1	28	7	3 ON	1461	8.4215	8.83388	2.523	62.55	-4.8	-2.1
					OFF	69	8.4132	8.83486	2.596	62.31	-4.8	-1.7
118	8	3	62	7	3 ON	1682	8.4246	8.83583	2.668	64.83	-4.8	-1.3
					OFF	143	8.4423	8.83715	2.767	66.48	-4.8	-1.1
119	5	3	75	7	3 ON	1774	8.4412	8.83723	2.772	66.53	-5.2	-1.4
					OFF	169	8.4468	8.83778	2.827	67.37	-5.2	-1.4
119	3	6	69	7	3 ON	2288	8.4191	8.83537	2.534	63.28	-5.2	-1.1
					OFF	169	8.3988	8.83291	2.458	58.81	-5.2	-8.8
120	5	3	52	7	3 ON	1895	8.4432	8.83739	2.784	66.83	-5.2	-1.4
					OFF	122	8.4468	8.83778	2.827	67.37	-5.2	-1.4
121	7	4	48	7	3 ON	2897	8.4486	8.83718	2.769	66.44	-5.2	-1.3
					OFF	94	8.4322	8.83647	2.716	65.18	-5.2	-1.1
122	7	1	27	7	3 ON	1254	8.3634	8.83866	2.283	54.98	-5.2	-4.9
					OFF	72	8.3784	8.83193	2.378	57.86	-5.2	-3.9
123	1	1	39	7	3 ON	1314	8.3788	8.83122	2.325	55.88	-5.2	-4.4
					OFF	188	8.3983	8.83293	2.452	58.86	-5.2	-3.2
124	8	2	25	7	3 ON	2531	8.3739	8.83155	2.358	56.39	-5.2	-1.3
					OFF	67	8.3599	8.83037	2.261	54.27	-5.2	-1.4
124	8	3	16	7	3 ON	2683	8.3397	8.82866	2.134	51.22	-5.2	-2.1
					OFF	48	8.3298	8.82776	2.267	49.62	-5.2	-2.4
125	6	8	16	7	3 ON	2032	8.4445	8.83758	2.793	67.82	-5.2	-1.3
					OFF	38	8.4426	8.83735	2.781	66.74	-5.2	-1.2
131	2	6	48	7	3 ON	1873	8.4462	8.83763	2.802	67.26	-5.2	-1.2
					OFF	93	8.4466	8.83768	2.806	67.34	-5.2	-1.2
132	2	6	42	7	3 ON	2241	8.4441	8.83747	2.792	66.97	-5.2	-1.2
					OFF	98	8.4375	8.83592	2.749	65.97	-5.2	-1.1
133	2	4	48	7	3 ON	1786	8.4355	8.83674	2.736	65.67	-5.2	-1.4
					OFF	93	8.4426	8.83735	2.781	66.75	-5.2	-1.3
133	2	6	121	7	3 ON	1892	8.4464	8.83767	2.825	67.32	-5.2	-1.2
					OFF	277	8.4346	8.83667	2.738	65.53	-5.2	-1.8

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